

Consolidated List of Products

Whose Consumption and/or Sale
Have Been Banned, Withdrawn, Severely Restricted
or Not Approved by Governments

Eleventh Issue

Chemicals



United Nations

DESA

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UNITED NATIONS PUBLICATION

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INTRODUCTION

1. The Consolidated List of Products whose Consumption and/or Sale have been Banned, Withdrawn, Severely Restricted or Not Approved by Governments is part of a continuing effort in the United Nations system aimed at disseminating information widely on products harmful to health and the environment. It constitutes a tool which helps Governments to keep current with regulatory decisions taken by other Governments and assists them in considering the scope for their own eventual regulatory action. It enables government agencies, which review applications for product registration to ascertain easily restrictive regulatory decisions made in other countries. It complements and consolidates other information on the subject produced within the United Nations system, including data received from United Nations Environment Programme (UNEP) and Food and Agriculture Organization of the United Nations (FAO) on chemicals and from World Health Organization (WHO) on pharmaceuticals.

2. The information on chemicals is retrieved from Prior Informed Consent (PIC) circulars issued by the Secretariat, which is maintained jointly by UNEP and FAO, of the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade, in addition to information previously received under the original PIC procedure as well as the Notification Scheme for Banned and Severely Restricted Chemicals. The source on pharmaceuticals is WHO Drug Information circulars and Pharmaceuticals Newsletters, which contain information received from Member States on the safety and efficacy of drugs, including information gathered through drug monitoring programmes as well as certification scheme on the quality of pharmaceutical products moving in international commerce.

3. The question of the exchange of information on banned hazardous chemicals and unsafe pharmaceutical products was first considered by the General Assembly at its thirty-fourth session in 1979. By its resolution 37/137 of 17 December 1982 (Annex I), the Assembly requested the Secretary-General to prepare the Consolidated List of Products Whose Consumption and/or Sale Have Been Banned, Withdrawn, Severely restricted or Not Approved by Governments on the basis of the work already being undertaken within the United Nations system.

4. By its resolution 39/229 of 18 December 1984 (annex I), the Assembly decided, inter alia, that an updated List should be issued annually, and that the data should be made available to Governments and

other users through direct computer access to it. In accordance with the resolution, the format of the List has been kept under continued review in cooperation with the relevant organs, organizations and bodies of the United Nations system, with a view to its improvement, taking into account its complementary nature, the experience obtained and the views expressed by Governments. Also, the resolution requested the Secretary-General to inform the General Assembly at its forty-first session and every three years thereafter, through the Economic and Social Council (ECOSOC), on the implementation of the above resolutions.

5. The 1992 United Nations Conference on Environment and Development (UNCED) provided impetus to the ongoing work of the United Nations system in the area of chemical safety. In Chapter 19 of Agenda 21, entitled "Environmentally Sound Management of Toxic Chemicals", six programme areas were approved for action. One of them, "Information exchange on toxic chemicals and chemical risks", corresponds directly to the purposes for which the List was established. In this regard, decisions of intergovernmental bodies and the entry into force of the relevant Conventions have direct bearing on the composition and future direction of the List. Further developments in this area will be carefully reviewed in order to make appropriate changes in the future issues of the List.

6. The Economic and Social Council in its resolution 1998/41 of 30 July 1998, requested the Secretary-General, inter alia, to continue to focus the List on chemical and pharmaceutical products in alternate years, with the same frequency for each official language as envisioned in previous General Assembly resolutions. The Council in its resolution 2001/33, of 26 July 2001, requested the Secretary-General, within existing resources, to continue to disseminate the list as widely as possible and to look at the possibility of using online dissemination in collaboration with the World Trade Organization (WTO), FAO, WHO and UNEP. In response to the above resolution, in addition to the printed version, the eighth issue of the List, containing pharmaceuticals, was posted, on an experimental basis, on ECOSOC website in September 2003.

BACKGROUND

7. In 1985, the United Nations Secretariat, in close cooperation with WHO and the International Register of Potentially Toxic Chemicals (IRPTC) of UNEP -

now named UNEP Chemicals, met at their first inter-agency coordinating meeting, and carried out the first review of the Consolidated List. The review focused on arrangements for the preparation of future issues, the need for criteria for determining the inclusion of products, the question of the legal and public health context of regulatory actions that had not been included in the first issue of the List, and the treatment of commercial data. As a result of the review, a memorandum of collaboration, outlining the division of responsibilities among WHO, UNEP Chemicals and the United Nations Secretariat, was agreed upon. Since the first triennial review, the arrangements for the production of the List have remained essentially the same.

8. In 1995, at an inter-agency coordinating meeting, it was decided to divide the List into two separate issues, each to be published on alternate years, one focusing on pharmaceuticals and the other on chemicals. The sixth issue of the List, the first under this new arrangement, was entirely devoted to pharmaceuticals and the seventh to chemicals, with subsequent issues following the same pattern. Dividing the List into two categories, pharmaceuticals and chemicals, has made it more accessible to a greater number of users, and has made the various databases more manageable.

Important recent Developments

9. Chapter 19 of Agenda 21 emanating from the United Nations Conference on Environment and Development (UNCED) reflects the preoccupation and the work of the organizations of the United Nations system in the area of environmentally sound management of toxic chemicals. The current work on the issue of products harmful to health and the environment is based on the principles indicated in Chapter 19, which encourage increased national and international efforts for intensive international work and improved coordination of international activities. Furthermore, chapter 19 states the need for increased coordination of United Nations bodies and other international organizations involved in chemical assessment and management.

10. As a result of continuous collaboration between FAO and UNEP on the principle of prior informed consent, the Conference of Plenipotentiaries in Rotterdam, Netherlands adopted the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade on 10 September 1998. It was signed by 72 States and one regional economic integration organization, and entered into force on 24 February 2004.

11. Another major development was the adoption of the Stockholm Convention on Persistent Organic

Pollutants. The convention was adopted and opened for signature in Stockholm on 22-23 May 2001. 91 Countries and the European Union signed the treaty. The prompt entry into force of the Stockholm Convention on 17 May 2004 is an important step towards achieving progress in the implementation of the recommendations contained therein.

12. The World Trade Organization (WTO) addresses the issue of the export of domestically prohibited goods (DPGs). More specifically the WTO Committee on Trade and Environment (CTE) has been examining this issue since 1995 when the mandate of the General Agreement on Tariff and Trade (GATT) Working Group on Export of Domestically Prohibited Goods and other Hazardous Substances was incorporated in the work programme of the Committee. The CTE has identified a number of international instruments relevant to the export of DPGs, but much progress remains to be achieved. However, since 1997 there has been a positive exchange of information and experience on trade related issues between the Committee and the Secretariats of relevant multilateral environmental agreements (MEAs), including the Rotterdam and Stockholm Conventions.

Dissemination and utilization

13. The List continues to present, in a unified manner, information on restrictive regulatory decisions taken by Governments on a range of pharmaceutical products and agricultural and industrial chemicals. As such, it is a recognized source of valuable information for Governments in ensuring access to information that may be useful in taking appropriate regulatory measures on chemical and pharmaceutical products in the light of their particular national circumstances. Furthermore, the provision of information on trade names, under which these products are marketed, adds value to the Consolidated List and makes it easier for national authorities and others monitoring such activities, to identify a restricted product available in the local market. The identification of the chemical products with its manufacturers also provides access to safety data sheets and other information available from the manufacturers. Additionally, commercial data provides an easy method to cross-reference trade names with recognized common scientific names under which most regulatory information is available.

14. In addition to Governments, other users of the List include intergovernmental organizations, academic institutions, concerned non-governmental organizations, the media, and other members of civil society. The List has proved to be an important tool for public interest and consumer groups in bringing to the attention of Governments and manufacturers the need to remove hazardous products from the

marketplace, and to raise awareness among public officials and non-governmental organizations on health-related effects of using certain products.

15. There is a continuous increase in the promotion of the dissemination and utilization of the List. In particular, a number of concerned non-governmental organizations make requests to have access to the List and also provide feedback on the positive use of the List. Starting with the second issue of the List, a questionnaire has been included in the List for purposes of assisting the Secretariat to determine the best way to disseminate the information in the List and the use to which it is being put. The List continues to play an important role in facilitating information on products, which are severely restricted or banned in some countries but are still available in others. The Secretariat considers feedback from users very valuable in exploring the possibility of making the List available online and if feasible to provide free of charge internet access to its databases. The Secretariat continues to make efforts to produce List data on diskettes/CDs with search facilities and to make them available as sales items in addition to the printed text.

Format, contents and scope

16. Continuous review of the format and content of the List have made it possible to expand its coverage and scope. While the List, in line with General Assembly resolution 37/137 has remained easy to read and understand, the number of products listed and the number of Governments reporting has regularly increased with each new issue of the Consolidated List. Thus, the first issue of the List covered less than 500 products regulated by 60 Governments, the fifth issue covering both pharmaceuticals and chemicals included more than 700 products with regulatory actions taken by 94 Governments. At present, the two most recently updated issues, tenth containing pharmaceuticals and eleventh containing chemicals, both of which are available on the web, contain information on over 1100 products regulated by 113 states and non-state entities.

17. Information included in the List on chemical products is provided by UNEP; originating from a variety of sources, including the IRPTC Legal File and submissions made under the original voluntary PIC procedure. In 1995, however, UNEP ceased updating the Legal File. In 1998, when the original PIC procedure was superseded by the interim PIC procedure - operated in accordance with the provisions of the Rotterdam Convention - it became apparent that virtually all the notifications of bans or severe restrictions previously submitted under the original PIC procedure did not meet the new information requirements as set out in the annex I to

the Convention. Consequently, the Convention secretariat only considers as valid those notifications of bans or severe restrictions that meet the requirements of the Convention. Notwithstanding the position of the Convention secretariat, most of the previously issued notifications of bans or severe restrictions remain valid within the issuing countries and are therefore included in the List.

18. In the case of pesticides and chemicals banned or severely restricted under the Rotterdam Convention, decision guidance documents prepared by the Convention Secretariat provide detailed information; including summaries of risk and benefits and reasons for regulatory action. It is not possible to provide similar information on all chemicals included in the List because of the large number of products in which they appear and the many applications of such products.

19. As with previous issues, the scope of information contained in the Consolidated List will remain essentially the same. The List is divided in two parts. Part I, compiled by the United Nations and UNEP, contains the text of restrictive regulatory decisions taken by competent national authorities on chemical (agricultural, industrial and consumer) products. Part II of the List presents commercial information (trade/brand names) and is compiled by the United Nations Secretariat from publicly available sources. In addition, the List includes alphabetical and classified listing of products, and three indexes: scientific and common names, trade/brand names and Chemical Abstract Service (CAS) Registry numbers.

Part I

20. Part one, prepared jointly by the United Nations and UNEP Chemicals, presents in a unified manner information on restrictive regulatory decisions taken by Governments on agricultural and industrial chemicals and consumer products. While the information cannot be regarded as exhaustive, either in terms of products or regulatory measures, it covers regulatory actions taken by a total of 77 Governments on some 600 products. In this context it should be noted that decisions taken by a limited number of Governments on a specific product may not be representative of the position of other Governments, particularly in view of differing risk-benefit considerations. It is also important to realize that all chemical products are potentially harmful if not correctly used. In addition, the fact that a given product is not listed as regulated by a country does not necessarily mean that it is permitted in that country. Rather, it could mean that the relevant regulatory decision has not been communicated to the United Nations or its agencies, or that, in the case of pesticides, for example, which are frequently subject

to compulsory registration procedures, the product has not been submitted for registration. It is also important to note that the issue of the efficacy of products in the regulatory text is not addressed, that may be a crucial consideration when a Government is considering a product for regulatory action of its own.

21. To ensure that the list focuses on products harmful to health and the environment, criteria for the inclusion of pharmaceutical and chemical products was developed in 1985 and transmitted to Governments for their comments. The criteria, revised in light of the comments received, is contained in annex II. The application of the criteria significantly facilitated the screening of information for the list. However, the interpretation by the Governments of the criterion "severely restricted", in particular, continues to vary widely, leading to considerable inconsistency in reporting on national restrictive regulatory measures. That situation has greatly improved with the new definitions adopted under the legally binding Rotterdam Convention. Although the number of products covered under the Convention is still limited, it would be useful to continue to provide information on identified hazardous products through the List until the process under the Rotterdam Convention may review and decide on the inclusion of many of those products. When necessary, additional information and/or clarifications are requested from Governments; products, which clearly do not meet the criteria, have been omitted after consultation with Governments. Information received from non-governmental organizations is also verified with Governments. When there is evidence that a listed product is no longer available or the safety issue has been resolved, the need for retaining the entry in subsequent issues of the list is routinely reviewed.

22. The List does not include many widely used industrial chemicals to which occupational exposure limits have been assigned by national authorities and on which information is available in the International Labour Organization (ILO) and UNEP Chemicals publications. Food additives are also outside the scope of the list since the FAO/WHO Codex Alimentarius Commission deals with them. Consumer products are only included when they are hazardous because of their chemical composition.

23. With regard to agricultural and industrial chemicals, it should be noted that regulations often refer to chemical groups, such as arsenic compounds, rather than to specific chemicals. Therefore, references to such more generally applicable regulations are made jointly with those of the chemical element representing the group - in the above case, arsenic. Similarly, information concerning salts, esters or other groups of derivatives is grouped with the acid or other main compound; i.e., information concerning arsenates is listed together with arsenic acid. Regulations concerning specific chemical compounds

are, however, listed under each specific compound and not under any group to which they may belong.

24. The regulatory information also includes references to the relevant legal and statutory documents in order to enable the user to ascertain the legal context and scope of the regulations. Such references cannot be given for some products since product licenses are often made or amended by an administrative decision, which is not published. There are also bibliographical references to scientific and technical studies by international organizations relating to some products.

25. Part one is further sub-divided into three sections, i.e. Agricultural Chemicals, Industrial Chemicals and Consumer Products. Products are listed alphabetically within each section. International Organization of Standardization (ISO) names have been used whenever possible, to identify chemical products. Products which are covered under the legally binding Rotterdam Convention are marked by an * to highlight their special status. Product names, which begin with numbers, appear at the beginning of the alphabetical Listing but at the end of each section. A few products may appear in more than one section because of their multiple uses. Each product entry includes, where available, the Chemical Abstracts Service Registry Number (CAS number); other scientific names, common names and synonyms; the effective date on which the regulation came into force; a summary of regulatory measures taken by Governments and legal and bibliographical references. Entries within each product are listed alphabetically, by country. A listing of the references cited appears at the end of the regulatory text in Part One, and when available, the addresses, where copies of the documents can be obtained from national regulatory authorities, are given in annex III.

Part II

26. Part Two, compiled by the United Nations Secretariat, presents commercial information, including data on trade names and manufacturers, relating to a large proportion of the products covered in Part One. It provides an easy method to cross-reference commercial names with recognized common scientific names, under which the regulatory data is presented. For widely manufactured generic products, manufacturer data is not included. It should be noted that manufacturers and distributors might maintain a proprietary trade name while changing the ingredients or the formulation. Therefore it is important to check the contents of a specific product using an identified trade name in order to ensure the accuracy of the reference to a given product.

27. The first step in compiling the commercial data is to review various on-line databases and commercial

directories for alternative nomenclature for the regulated products. Commercial names were then separated from alternate scientific names. The second step is to determine individual manufacturers. Data on manufacturers is compiled primarily from scientific and commercial publications and export marketing lists of various countries. Trade names are collected irrespective of the manufacturer's form of ownership and include transnational and national enterprises from all regions. Only the name and location of the parent company is included in the List, even when the actual producer is a subsidiary located in another country.

28. An effort is made to verify collected commercial data relating to transnational corporations with the respective manufacturer, in accordance with the procedure established with the Commission on Transnational Corporations. Other manufacturer data is checked against published sources.

29. The commercial information is organized under the same headings as the regulatory data in order to facilitate easy reference. Each product entry includes the product name and CAS number, and a listing of known trade names, and if available, a listing of known manufacturers, with an indication of where they are based and their proprietary trade names.

Users' Guide

To find out what restrictive regulatory actions has been taken on a product or what commercial information is available - for example, on DDT - look up the page references given in the alphabetical listing of products (pp. 9 - 21). But if you only know one of the trade names, such as "Didimac", and not the product name DDT, consult index C (pp. 810 - 906). On the other hand, if you are familiar with the product only by one of its scientific names, - for example, alpha-alpha-BIS(p-CHLOROPHENYL)-beta-,beta,beta -TRICHLORETHANE-, then consult index B (pp. 681 - 809). Or if only the CAS number of the product is known, then consult index A (pp. 664-680) for the product name and page reference. In addition to the indexes described above, a classified listing of products (pp. 22 - 35) is also included, grouping the products according to their usage. Furthermore, a list of codes used throughout the publication to denote countries and territories is given on page 36.

Data verification was carried out to the best of our capabilities within the given time constraints. However, there may still be inaccuracies, which have not been identified and corrected when checking and proofreading the text. Comments on the contents and suggestions for the improvement of the Consolidated List are most welcome. They should be sent to: The Director, OESC/DESA, United Nations Secretariat, New York, NY 10017, U.S.A.

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@EC	European Community	KEN	Kenya
ANG	Angola	KOR	Korea, Republic of
ARG	Argentina	KWT	Kuwait
ARM	Armenia	KYR	Kyrgyzstan
AUS	Australia	LCA	Saint Lucia
AUT	Austria	LIE	Liechtenstein
BEL	Belgium	LIY	Libyan Arab Jamahiriya
BGR	Bulgaria	LKA	Sri Lanka
BLZ	Belize	LUX	Luxembourg
CAN	Canada	MAR	Morocco
CDR	Democratic Republic of Congo	MEX	Mexico
CHE	Switzerland	MLT	Malta
CHL	Chile	MUS	Mauritius
CHN	China	MYS	Malaysia
COL	Colombia	NGA	Nigeria
CUB	Cuba	NGR	Niger
CYP	Cyprus	NLD	Netherlands
CZE	Czech Republic	NOR	Norway
DEU	Germany	NZL	New Zealand
DMA	Dominica	PAK	Pakistan
DNK	Denmark	PAN	Panama
DOM	Dominican Republic	PER	Peru
DZA	Algeria	PHL	Philippines
ECU	Ecuador	POL	Poland
ESP	Spain	PRT	Portugal
FIJ	Fiji	SAU	Saudi Arabia
FIN	Finland	SDN	Sudan
FRA	France	SGP	Singapore
GBR	United Kingdom	SLO	Slovenia
GTM	Guatemala	SUN	Russian Federation
GAM	Gambia	SWE	Sweden
HUN	Hungary	TOG	Togo
IDN	Indonesia	THA	Thailand
IND	India	TUR	Turkey
IRN	Iran	URT	United Republic of Tanzania
ISR	Israel	USA	United States
ITA	Italy	VEN	Venezuela
JPN	Japan	YUG	Serbia and Montenegro
KAZ	Kazakhstan		

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AGRICULTURAL CHEMICALS

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Product Name **Acephate**

C.A.S. number **30560-19-1**

Scientific and common names, and synonyms

N-[METHOXY(METHYLTHIO)PHOSPHINOYL]ACETAMIDE (CA)

O,S-DIMETHYL ACETYLPHOSPHORAMIDOTHIOATE (IUPAC)

PHOSPHORAMIDOTHIOIC ACID, ACETYL-, O,S-DIMETHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	24 Sep 2003	The chemical is banned. It is prohibited to place on the market or use plant protection products containing acephate. (Commission Decision 2003/219/EC) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
NOR	1 Jan 1985	Acephate is banned for use as a pesticide. No remaining uses allowed. Action taken because of uncertainty of the toxicology and no major need. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Acetato(chloromethoxypropyl)mercury**

C.A.S. number **1319-86-4**

Scientific and common names, and synonyms

MERCURY, ACETATO(CHLOROMETHOXYPROPYL)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	1 Jul 1990	CPMA(Acetato(Chloromethoxypropyl)) mercury was voluntarily withdrawn by the registrant. The cancellation became effective as of July 1990. No remaining uses allowed. Studies showed mercury vapor exposure to pose risks to the nervous system and the kidneys and at high levels to the respiratory, cardiovascular, and gastrointestinal systems. EPA found the use of mercury as a fungicide a particular risks to children and applicators. Mercury also bioaccumulates in aquatic environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Acetylene**

C.A.S. number **74-86-2**

Scientific and common names, and synonyms

ACETYLENE (DOT)

ACETYLEN

ETHYNE

ETHINE

NARCYLEN

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
IND	21 Jan 1979	Prohibition of use of carbide gas in ripening of fruits. (Reference: (INDPFA) Prevention of Food Adulteration Act 1954 and P.F.A. Rules as amended, , , 31 Dec 1980)

Legislative or regulation action

Product Name **Acrylonitrile**

C.A.S. number **107-13-1**

Scientific and common names, and synonyms

AKRYLONITRYL (POL)
 ACRYLONITRILE MONOMER
 ACRYLNITRIL (DEU,NLD)
 ACRILICO (ITA)
 ACN
 CYANURE DE VINYLE (FRA)
 CYANOETHYLENE
 CIANURO DI VINILE (ITA)
 NITRILE ACRYLIQUE
 NITRILE ACRILICO (ITA)
 PROPENENITRILE
 PROPENENITRIL
 VINYL CYANIDE
 2-PROPENENITRILE
 2-PROPENENITRILE (CAS)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. High toxicity. Has shown carcinogenic effects in experimental animals. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BLZ		Acrylonitrile is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
CHN	1 May 1994	Severely restricted for registration, production, sale and industrial use as any product. Highly toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)

Bibliographical references

WHO FOOD ADD., 26.65, , 1965
 WHO FOOD ADD., 28.65, , 1965
 IARC MONOGRAPH, 19, 73, 1979
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 28, , 1983
 WHO FOOD ADD., 19, 117, 1984
 IPCS HEALTH AND SAFETY GUIDE, 1, , 1986

Product Name **Alachlor**

C.A.S. number **15972-60-8**

Scientific and common names, and synonyms

ACETAMIDE, 2-CHLORO-N-(2,6-DIETHYLPHENYL)-N-(METHOXYMETHYL)-
 ALOCHLOR
 ALANEX
 ACETAMIDE, 2-CHLORO-N-(2,6-DIETHYLPHENYL)-N-(METHOXYMETHYL)- (9CI)

Legislative or regulation action

Product Name **Alachlor**

C.A.S. number **15972-60-8**

Scientific and common names, and synonyms

CP 50144

LAZO

LASSO

METHACHLOR

METACHLOR

2-CHLORO-N-(2,6-DIETHYL)PHENYL-N-METHOXYMETHYL ACETAMIDE

2-CHLORO-2',6'DIETHYL-N-(METHOXYMETHYL)ACETANILIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS	1 Sep 1988	Withdrawn from marketplaces by the applicant. No remaining use allowed. Carcinogenic in rats and mice. Retinal degeneration in rodents. (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, , , May 1985)
AUT	1 Jan 1993	All uses banned. Suspected to be a probable human carcinogen. Has shown to be carcinogenic in experimental animals. Tests of mutagenicity assessment suggested that alachlor was weakly genotoxic. (Reference: (AUTFLG) Federal Law Gazette, No. 97/1992, , , 1992)
NLD	1 Jan 1987	It is prohibited to sell, stock, store or use all pesticides containing alachlor as an active ingredient. (Note: The industry concerned has appealed against the control action to the Netherlands Trade and Industry Appeals Tribunal. This appeal however does not suspend the control action until the judgement of the Appeals Tribunal.) Reasons for the control action: 1) persistence in the soil; 2) pollution of groundwater; 3) carcinogenicity of alachlor or one of the metabolites. (Reference: (NLDDC) Ministerial Order Decree of the Ministry of Agriculture and Fisheries, J7699, , , 10 Dec 1986)
NLD	01 Jan 1987	The chemical is banned. It is prohibited to sell, stock, store or use alachlor as a pesticide. The Pesticide Authorization Board decided to withdraw all applications of alachlor from 1.1.1987. In 1989, a request for re-authorisation of alachlor was submitted. This request is still under discussion. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Aldicarb**

C.A.S. number **116-06-3**

Scientific and common names, and synonyms

ALDICARBE

CARBAMIC ACID

METHYL-O-((2-METHYL-2-(METHYLTHIO)PROPYLIDENE)AMINO) DERIV.

METHYL-O-((2-METHYL-2-(METHYLTHIO) PROPYLIDENE) AMINO) DER.

PROPANAL, 2-METHYL-2-(METHYLTHIO)-, O-[(METHYLAMINO)CARBONYL]OXIME

PROPIONALDEHYDE 2-METHYL-2-(METHYLTHIO)-O-(METHYLCARBAMOYL)OXIME

PROPANAL, 2-METHYL-2-(METHYLTHIO)-, O-((METHYLAMINO)CARBONYL)OXIME

2-METIL-2-TIOMETIL-PROPIONALDEID-O-(N-METIL-CARBAMOIL)-OSSIMA (ITA)

2-METHYL-2-METHYLTHIO-PROPIONALDEHYD-O-(N-METHYL-CARBAMOYL)-OXIM (DEU)

2-METHYL-2-(METHYLTHIO)PROPIONALDEHYDE O-(METHYLCARBAMOYL)OXIME

2-METHYL-2-(METHYLTHIO)PROPANAL, O-((METHYLAMINO)CARBONYL)OXIME

2-METHYL-2-(METHYLTHIO) PROPIONALDEHYDE O-(METHYLCARBAMOYL)-OXIM (DEU)

Legislative or regulation action

Product Name		Aldicarb
C.A.S. number		116-06-3
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	18 Sep 2003	The chemical is severely restricted. It is prohibited to place on the market or use plant protection products containing aldicarb. From the date of adoption of Council Decision 2003/199/EC (18 March 2003), no authorizations for plant protection products containing aldicarb could be granted or renewed. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
ARG	16 Oct 1990	The use of products containing this active ingredient in areas with groundwater table of less than 1.50 m depth is prohibited. The minimum distance between fields treated with this product and drinking water wells is 40 m. Maximum residue limits in drinking water - 0,01 mg/kg. Use of products with this active ingredient is banned in areas where the following conditions are combined: a) dose superior to 1,500 kg/ha; b) soil temperature less than 10 C; c) water retention capacity less than 15% v/v; d) content of organic matter less than 1% p/p in the upper 30 cm; e) underground Ph less than 6; f) average annual rainfall higher than 800 mm or equivalent irrigation. (Prohíbe el uso de productos con este principio activo en zonas de napas freáticas a menos de 1, 50 de profundidad. Distancia mínima entre campos y pozos de agua potable tratados con este producto: 40 m. Límite máximo de residuo en agua potable 0, 01 mg/kg. Prohíbe el uso de productos con este principio activo en zonas que presenten conjuntamente estas condiciones: a) Dosis superiores a 1,500 Kg/ha; b) Temp. suelo menor a 10C; c) capacidad de retención de agua menor a 15% v/v; d) Contenido de materia orgánica menor a 1% p/p en los 30 cm superiores; e) subsuelo Ph menor 6; f) Precipitación media anual superior a 800 mm o riego equivalente.) Protection of human health and environment. Reduction of persistence of residues in soil. To avoid contamination of surface and ground water. (Protección de la salud humana y el medio ambiente. Reducción de la persistencia de los residuos en suelo. Evitan la contaminación de aguas superficiales y subterráneas.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUT	1976	Classified as a "highly toxic poison". It may be manufactured, bought or sold only with a special license and is subject to certain packaging and labelling requirements.
BEL	1976	Use restricted to specially authorized users with adequate equipment for the application of the product and in possession of ware-houses exclusively reserved to stocking toxic products.
BLZ	17 Sep 1988	Severely restricted. Use still allowed in citrus nurseries. Acutely toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DEU	1 Jun 1974	Severely restricted for use as plant protection product. Use still allowed for soil treatment outside water catchment areas and spa protection areas in ornamentals and sugar beet, in nurseries, vine nurseries and strawberry propagating fields. Fruits from areas treated with Aldicarb are not allowed to be used in the year of treatment. Unacceptable residues in/on foodstuffs; protection of drinking water. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DMA		Severely restricted pesticide. (Reference: (DMAPC) Pesticide Control Board, , , 1986)
IDN	22 Jul 1990	Prohibited for all uses. No remaining uses allowed. Extremely toxic to humans and animals. Persistence. Much misuse by farmer, to control rodent and wild bird. Causes accidents because of no specific odor, taste and colour. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1978	Use and sale banned without a permit. (Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 2224, 89, 1967)
KOR	11 Jun 1986	Use prohibited within the country except for the production of agrochemicals for pinetrees. High risk to human health and to the environment and its high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name		Aldicarb
C.A.S. number		116-06-3
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
KWT	1 Jan 1975	Banned for use as a pesticide. No remaining uses allowed. Action taken because substance is highly toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LCA	1 Jan 1987	Aldicarb is not allowed for use as a pesticide. Registration was refused. Aldicarb as nematicide /insecticide was intended for banana. Banana fields are widely spread all over the island, near water catchment in some cases. Having a toxicity class I, it therefore exposes both human and environment to hazardous effects. (Reference: (LCAPCA) Pesticides Control Act, , , 1975)
LIY		Aldicarb is banned. No remaining uses allowed. Control action is based on the information received from FAO. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MAR		Use of the TEMIK 15G is authorized only to the company-distributor (decision taken at the time of registration of TEMIK in 1984). (L'application de la spécialité TEMIK 15G ne peut se faire que par la société distributrice de ladite spécialité (decision prise lors de l'homologation du TEMIK en 1984).) Use still allowed for nematodes of citrus fruits. (Nematodes des agrumes.) High human toxicity. (Produit extrêmement toxique pour l'homme.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS		Application to register was rejected. Small quantities may be imported through Import Permit for research and educational purposes such as for use as analytical standards and other laboratory purposes. The substance is highly toxic and hazardous for use under local conditions. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	1973	Classified as extremely toxic. Allowed to be sold to and used by authorized persons only. Registered for use in greenhouses only.
PHL		Prohibited for import except in cases of emergency as determined by the authorities.
SDN	5 May 1997	Banned for all use in 1988. Aldicarb was reregistered for the control of sucking insects in cotton in May 1997. Control action was taken because of cases of human toxicity due to unauthorized use in vegetables. (Reference: (SDNPCD) Pesticides Committee Document, , ,) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Aldicarb is prohibited for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 23 Mar 1986)
SWE	1 Jan 1991	The substance is banned for use as a pesticide. No remaining uses allowed. The substance was suspended due to its high acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
TGO	1 Jan 1991	Use strictly limited to persons with good knowledge of phytosanitary practices. Restricted areas of use. (Utilisation strictement réservée aux personnes munies d'une bonne connaissance des pratiques phytosanitaires. Domaines d'utilisation réservés.) Use is still allowed against nematodes in cultures. (Lutte contre les nématodes en grande culture.) The substance is highly toxic. Systematic action and long persistence (50 days) in soil. (Produit hautement toxique. Action systématique et rémanence longue (50 jours) dans le sol.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
URT	25 Mar 1986	Total ban on use. Action was taken because of the substance's very high toxicity. (Reference: (TZAPAR) 4th Pesticides Approval and Registration Technical Committee, , ,)

Legislative or regulation action

Product Name **Aldicarb**

C.A.S. number **116-06-3**

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Product Name **Aldrin ***

C.A.S. number **309-00-2**

Scientific and common names, and synonyms

ALDRINE (FRA)
 ENDO,EXO-1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A-HEXAHYDRO-1,4,5,8- DIMETHANONAPHTHALENE
 HEXACHLOROHEXAHYDRO-ENDO-EXO-DIMETHANONAPHTHALENE
 HEXACHLOROHEXAHYDRO-ENDO,EXO-DIMETHANONAPHTHALENE
 HEXACHLORO-HEXAHYDRODIMETHANONAPHTHALENE
 1,4:5,8-DIMETHANONAPHTHALENE, 1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A-HEXAHYDRO-,
 (1.ALPHA.,4.ALPHA.,4A.BETA.,5.ALPHA.,8.ALPHA.,8A.BETA.)-
 1,4,5,8-DIMETHANOPHTALENE 1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A- HEXAHYDRO-
 1,4,5,8-DIMETHANONAPHTHALENE 1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A- HEXAHYDRO-ENDO,EXO
 1,2,3,4,10,10-HEXOCHLORO-1,4,4A,5,8,8A-HEXAHYDRO-EXO-1,4-ENDO-5,8- DIMETHANONAPHTHALENE
 1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A-HEXAHYDRO-1,4-ENDO,EXO-5,8- DIMETHANONAPHT
 1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A-HEXAHYDRO-1,4,5,8- DIMETHANONAPHTHALENE
 1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A HEXAHYDRO-1,4-ENDO-EXO-5,8- DIMETHANOPHTALENE
 1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A HEXAHYDRO-1,4,5,8- DIMETHANONAPHTALENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1991	It is prohibited to use or place on the market all plant protection products containing aldrin. No remainin uses allowed. Aldrin is persistent in the environment. It is lokely to bioaccumulate and produce food-chain effects on terrestrial and aquatic organisms. Aldrin has been classified by the EC as a category 3 carcinogen (possibly carcinogenic to humans). Directive 90/335/EEC of 07.06.90. (Reference: (OJEC) Official Journal of the European Communities, L62/37, , 28 June 1990)
ANG	14 Sep 1990	The control action applies to Aldrin 2.5% dust. Banned for use. No remaining uses allowed. Banned for toxicological reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ARG	16 Oct 1990	Import, production, formulation, sale and use of products for agricultural use containing this active ingredient are banned. The National Register of Plant Protection will cancel the registrations of formulated products for agricultural use containing this active ingredient. (Prohíbe la importación, fabricación, fraccionamiento, comercialización y uso de productos de aplicación agrícolas formulados a base de este principio activo. El

Legislative or regulation action

Product Name	Aldrin *	
C.A.S. number	309-00-2	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		Registro Nacional de Terapeutica Vegetal procederá a cancelar las inscripciones de todos los productos de uso agrícola formulados a base de este principio activo.) Protection of human health and environment. Reduction of residues in agricultural products for human consumption. (Protección de la salud humana y el medio ambiente. Reduccion de efectos residuales en productos agrícolas para el consumo humano.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ARM	1970	Use of Aldrin as a pesticide prohibited. High toxicity, persistence and bioaccumulation. Highly toxic to fish, crustaceans and many bird and animal species. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUS	21 Dec 1987	Importation of the chemical is prohibited unless specifically approved by the Government (21 December 1987). Uses on tobacco, maize and onion seedlings cancelled (dates vary from State to State). Use remains allowed for protection of buildings against subterranean termite attack. The persistence of the chemical makes it environmentally unacceptable. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , 1986)
AUT	20 Feb 1992	Voluntarily withdrawn by manufacturers since August 1989. All uses banned since 20.02.92. High toxicity, its high persistence in the environemnt, the bioaccumulation of residues in the food chain and in human tissues; the pesticide is highly toxic to fish, crustaceans, and many bird and animal species. Aldrin is suspected to be mutagenic ad to cause reproductive effects. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BEL		Prohibited according to EEC Directive 79/117.
BGR		Banned for use in agriculture.
BLZ		Aldrin is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, , 1985)
BRA	03 Sep 1985	The chemical is severely restricted to protect users, farmers, non-target species and the environment. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitay Surveillance Secretariat), , ,)
CAN		Most uses were phased out between 1970 and 1976 due to persistence and bioaccumulation of residues. Currently this product is registered only for termite pest control.
CHE	1 Sep 1986	Totally banned chemical: Manufacture, supply, import and use of substance and of products which contain the substance is prohibited. Long persistence, bioaccumulation. (Reference: (CHEOE) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
CHL	5 Jan 1983	Application of the product to natural or artificial meals used directly or in concentrated form as animal feed is prohibited. Its use is prohibited on seeds, grain etc. This measure was taken to protect public health and the environment. (Reference: (MINAC) Ministry of Agriculture, Crops and Livestock Div. Decision No., 4, , 1985)
CHN		Aldrin has been banned for registration, production and use as a pesticide. No remaining uses allowed. The chemical has never been produced, imported and used as a pesticide. Aldrin is highly residual in environment and organism. Its use will produce severely harmful effects to human health and ecological environment.

Legislative or regulation action

Product Name	Aldrin *	
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Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
COL	22 Mar 1988	The substance is banned for use in agriculture. (Prohibido su uso en la agricultura.) Treatment of wood still allowed. (Tratamiento de maderas.) Action taken because of high toxicity and persistence. (Alta toxicidad y persistencia.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide (La sustancia esta prohibida para su uso, produccion e importacion como plaguicida). High toxicity, persistence in the environment and bioaccumulation of residues in the food chain and in human biological environment. This compound is highly toxic to fish, birds and other animals (Las razones para prohibir este plaguicida son su elevada toxicidad, su persistencia en el medio ambiente y la bioacumulacion de residuos en la cadena alimentaria y en medio biologico humano. Ademas, es un compuesto altamente toxico para peces, aves y otros animales). (Reference: (CUBMSP) Ministro de Salud Publica, 268, , 1990)
CYP	8 Dec 1980	Banned for all use as a pesticide. Registration withdrawn by the Pest Control Products Board. No remaining uses allowed. Action taken to protect the health of the community and the environment, due to the persistence and bioaccumulation of its epoxide dieldrin. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1980)
DEU	1 Jan 1978	It is prohibited to apply solutions of 99% purity or more against parasites on horse, cattle, swine, goat and sheep. It is prohibited to apply against parasites on poultry and to apply to the udder of lactating horses, cows, sheep and goats at concentrations exceeding the maximum residue limits (MRLs) set for milk and milk products. (Reference: (BGBL) Bundesgesetzblatt, IS.1136, , 1981)
DEU	1 Feb 1981	Totally banned for use as plant protection product. Persistence; accumulation in soil and food chain; unacceptable residues in crops; intolerable excession of the ADI value; hazard to birds when used as a seed dressing. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DMA		Severely restricted pesticide. (Reference: (DMAPC) Pesticide Control Board, , , 1986)
DNK		Restricted in accordance with EEC-Directive 79/117. No registration in Denmark.
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
FIN	1970	Based on information regarding environmental hazards, this product has been banned for sale by the Ministry of Agriculture and Forestry (Resolution 671/72). The only accepted uses are for the protection of veneer and particle boards manufactured for export purposes against harmful insects. (Reference: (FDMSA) Decision of the Ministry of Social Affairs and Health, 719/73, , ,)
FIN	20 Sep 1972	Total ban to use as a pesticide. High risk to human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GAM	17 May 1994	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	18 May 1989	All agricultural uses revoked. Action taken because of environmental hazard (persistent organochlorine). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR	31 Dec 1992	All approvals for use and storage in food storage practices in agriculture and horticulture

Legislative or regulation action

Product Name	Aldrin *	
C.A.S. number	309-00-2	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		to be revoked.(all remaining approvals for sale, supply and advertisement in the above areas to be revoked prior to the control action on use). Reasons for the control action: (relevant to protection of human health and the environment) as part of the UK's policy to phase out persistent organochlorine pesticides as suitable alternatives become available. (Reference: (NAFEP) Notice of Approval issued under Part III of the Food and Environment Protection Act), (III), , 1985)
HUN	11 Apr 1966	Banned pesticide. Banned for all agricultural use. No remainin uses allowed. High toxicity, persistence in the soil, bioaccumulation. (Reference: (HUNODW) Official Document of Withdrawal, 87139, , 1966)
IRN	1982	Aldrin is banned for use, import, production and transport. Aldrin is highly toxic to human beings. Applicators and workers are potentially subject to both dermal and inhalation exposure, which may lead to acute convulsive intoxication. Highly toxic to birds, fish, crustaceans and to bees. Biomagnification is high in fish and snails. Long persistence. (Reference: (IRNPSB) Pesticides Supervision Board (Ministry of Agriculture), , ,)
ISR	1975	Prohibited for use (including use as bait), sale, storage and formulation due to problems of bioaccumulation and the presence of residues in food.
JPN	2 Oct 1981	Designated as a "first class specified chemical substance". Without authorization from the Government its manufacture and import are prohibited. Uses other than those specified by Cabinet Order are prohibited. It is prohibited to import specified products containing the substance. These prohibitions are due to the substance's hazardous properties in terms of persistence, bioaccumulative characteristics and chronic toxicity. (Reference: (JPNCO) Japanese Cabinet Order, , , 14 Aug 1979)
KAZ	2 Feb 1972	Banned for all uses as highly toxic, poisonous substance. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KEN	Feb 1987	Restricted to tse-tse control. Action taken because of health hazards. (Reference: (KENPC) Decision of the Pest Control Products Board PCPB/CONF/1, , , 02 Feb 1987)
KOR	9 Aug 1991	Banned for production, import, use and sale of both this substance and preparations containing it. Permitted as additive in industrial products. Action taken due to persistence of residue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1975	Banned for use as a pesticide. No remaining uses allowed. Action taken because substance belongs to organochlorine group. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KYR	27 Jul 2001	The chemical is banned. The substance is banned by an order of the Ministry of Health of the ex-USSR and by the Ordinance of the Government of the Kyrgyz Republic. (Reference: (KYROD) , No. 376, , 27 June 2001) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
LKA	1 Aug 1986	Aldrin is a severely restricted pesticide. The annual volume imported is also controlled. Use on crops or treatment of agricultural lands is prohibited. Scientific evidence indicates persistence and bioaccumulation of residues. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, 23, , 1986)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Interdit en agriculture depuis 1984.) No remaining uses allowed. (Toute utilisation dudit pesticide est interdite.) High toxicity, persistence in the environment and bioaccumulation of residues in the food chain.

Legislative or regulation action

Product Name		Aldrin *
C.A.S. number		309-00-2
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Toxicité très élevé, persistance dans l'environnement et bioaccumulation des résidus dans la chaîne alimentaire.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MEX	1982	Prohibited agricultural pesticide. Reasons for the control action: protection of health and the environment (because of its persistence, the bioaccumulation of residues in human fatty tissues, its presence in food and its high toxicity, LD50: 34-72mg/kg). (Reference: (MEXMP) Manual de Plaguicidas Autorizados para , , , 1982)
MUS	1970	Restricted use under the Pesticide Control Act 1970.
MYS		Registration for termite control only in non food crop areas. The substance is highly persistent in the environment and tends to accumulate in the food chain. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	1 Jun 1982	It is prohibited to sell, stock, store or use all pesticides containing aldrin as an active ingredient. (Most uses were already discontinued in the early 70's). Pesticides containing aldrin are prohibited because aldrin accumulates in the food chain and is highly persistent in the environment. This decision was enforced by directive 79/117 of 12 Dec. 1978 of the European Communities published in OJEC L33/39,8.2.1979.
NOR	1 Oct 1970	Aldrin is banned for use as a pesticide. No remaining uses allowed. Action taken because of the substance's environmental impact and persistence in nature and the danger for impact on ecosystems. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1 Sep 1985	Withdrawal of all remaining products, registrations cancelled. No uses allowed. Human health (acute toxicity) and environmental persistence. (Reference: (NZLPBM) Pesticides Board Minutes, , , 1985)
PAK		Prohibited. Never been registered in Pakistan. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
PHL	15 Dec 1989	The substance is banned for use. Voluntary withdrawal of product registration by the company in 1986. No remaining uses allowed. For safety, health and environmental reasons due to the chemicals persistence and bio-accumulation. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PRT	1 Jul 1972	Fertilizers containing aldrin have been banned on account of their toxicological/environmental effect. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 13 Sep 1972)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SLO	22 Feb 1991	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name Aldrin *

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Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	Aldrin is prohibited for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 02 Feb 1972)
SUN		Pesticide currently banned for production and use. (Reference: (KGTXP) General Toxicology of Pesticides, , , 1981)
SWE	1 Jan 1970	Aldrin is banned for use as a pesticide. No remaining uses allowed. Suspended due to the substance's high acute toxicity and environmental impact. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	All use categories have been banned. Persistence in environment. Bioaccumulation of residues in food chain and human tissue. Highly toxic to fish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
TUR		Banned for sale and/or use due to health risks and environmental impact.
USA	1 May 1987	The substance is banned for use as a pesticide. In 1974, all products containing aldrin except those labelled for termite control were cancelled. In 1984, EPA required registrants to submit additional toxicology and exposure data in order to perform a complete risk assessment of the termiticide use of these compounds. The sole producer requested voluntary cancellation of the termiticide uses in May 1987. There are no current uses of aldrin in the U.S.. Aldrin has caused liver tumors in mice and may pose a significant health risk of chronic liver effects to occupants of buildings treated with aldrin. Also aldrin is extremely toxic to aquatic organisms and birds. Finally aldrin persists and bioaccumulates in the environment and it may contaminate surface water. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)
YUG	1972	Its application in agriculture was severely restricted owing to its marked persistence which adversely affects human health and the environment. It could be used only to control soil pests on areas to be planted with various crops. 1982: banned for the same reasons.

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 FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 22, 1993
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Legislative or regulation action

Product Name **Aluminium phosphide**

C.A.S. number **20859-73-8**

Scientific and common names, and synonyms

ALUMINUM PHOSPHIDE (ALP)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	1976	Use restricted to specially authorized users with adequate equipment for the application of the product and in possession of ware-houses exclusively reserved to stocking toxic products.
BLZ	28 Dec 1985	Severely restricted. For fumigation of grain bins only. Extremely toxic. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
CHN	5 Jun 1982	The following uses of aluminium phosphide are prohibited: 1) on vegetables, tea, fruit trees and herbs; 2) against insects harmful to health of humans and animals; 3) for rat control except when formulated as a rodenticide. These measures were taken because aluminium phosphide is a highly toxic substance and its use is harmful to human health. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), 4,)
JPN	Mar 1960	The preparation containing aluminium phosphide and the accelerator for decomposition is designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. The use designated by Cabinet Order is limited to exterminating mice, insects, etc. In storehouses, containers, or under-deck storehouses.
KOR	1 Feb 1981	Banned for use on growing crops except rice and tobacco because of its high inhalation toxicity. Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. Only use under the supervision of authorized agency. High inhalation toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	25 Feb 1981	Classified as an "highly hazardous" and "restricted use" pesticide. This product is available only to special organizations. Due to high inhalation toxicity, users should treat carefully. The use of this product is strictly prohibited to growing crops. High inhalation toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	9 Aug 1991	Banned for production, import, use and sale of both this substance and products with its decomposition catalysts. Permitted in agricultural chemicals. Action taken because its decomposition product is highly toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1993	Severely restricted. Uses only allowed for stored grain pest, only by trained personnel, in case no other substitute is available. Action was taken because substance is dangerous, releases toxic gases. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MAR	21 Aug 1972	The use of the substance is restricted. Distribution and sale are regulated. (La distribution et la vente sont réglementées.) Use still allowed for control of pests in grains of cereals for seed and food, control of pests in stocks of tobacco, seeds and grains of oil seeds, dry spices, full or crushed caroubes, seeds and grains of oil seeds, dry almonds, dried roses and flowers. (Désinsectation des grains de céréales destinés à la semence ou à l'alimentation, lutte contre les ravageurs du tabac stocké, semences et grains des légumineuses, épices sèches, caroubes entières ou concassées, les semences et grains des oléagineux, des amandes sèches, des roses et des fleurs séchées.) High human toxicity by inhalation. (Très toxique par inhalation vis-à-vis des utilisateurs dudit pesticide.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

WHO PESTICIDE RESIDUES SERIES, 1, , 1972
WHO TECHNICAL REPORT SERIES, 502, , 1972

Legislative or regulation action

Product Name **Aminocarb**

C.A.S. number **2032-59-9**

Scientific and common names, and synonyms

CARBAMIC ACID, METHYL-, 4-DIMETHYLAMINO-M-TOLYL ESTER
N-METILCARBAMATO DE 4-DIMETILAMINO-3-METILFENILO
PHENOL, 4-(DIMETHYLAMINO)-3-METHYL-, METHYLCARBAMATE (ESTER)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
THA	2 May 1995	All use categories have been banned. Very low ADI and risk to users. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

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FAO PLANT PRODUCTION & PROTECTION PAPER, 20 SUP., , 1979
IPCS ENVIRONMENTAL HEALTH CRITERIA, 63, , 1986

Product Name **Amitraz**

C.A.S. number **33089-61-1**

Scientific and common names, and synonyms

METHANIMIDAMIDE, N'-((2,4-DIMETHYLPHENYL)-N-((2,4-DIMETHYLPHENYL)IMINO)METHYL)-N-METHYL-
N'-2,4-XYLYL-N-(N-2,4-XYLYLFORMIMIDOYL)FORMAMIDINE
N'-((2,4-DIMETHYLPHENYL)-N-((2,4-DIMETHYLPHENYL)IMINO)METHYL)-N-METHYLMEHANIMIDAMIDE
1,5-DI((2,4-DIMETHYLPHENYL-3-METHYL-1,3,5-TRIAZAPENTA-1-DIENE
2,4-XYLIDINE, N,N'-(METHYLIMINODIMETHYLIDYNE)BIS-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	24 Jun 1980	Registration of liquid formulations. (Reference: (ARES) Argentinian Legislation, Resolución, 404, , 1980)
KOR	25 Feb 1981	Pre-harvest intervals were established for the safe use of this product. Due to high toxicity to honey bee, the use of this product is prohibited during the blooming periods. High toxicity to honey bee. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	18 Dec 1989	Amitraz is banned for use as a pesticide. No remaining uses allowed. Action taken because of 1) increased number of tumors in liver and the lymphatic system in mice and 2) impact on the hormone balance. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1979	Conditional registration for use on pears. Must be labelled as a restricted use pesticide. For retail sale to and use only by certified applicators or persons under their direct supervision. Reentry into treated area at least 24 hours after application. Scientific review by the EPA confirmed that amitraz induces cancer in laboratory animals. (See also: FR 44,59938(1979)).

Legislative or regulation action

Product Name **Amitraz**

C.A.S. number **33089-61-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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(Reference: (FEREAC) Federal Register, 44, 32736, 1979)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 62, , 1984
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 FAO PLANT PRODUCTION & PROTECTION PAPER, 100, 1, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 102, 14, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 21, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 111, 17, 1991
 FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART1), 1, 1992

Product Name **Amitrole**

C.A.S. number **61-82-5**

Scientific and common names, and synonyms

5-AMINO-1,2,4-TRIAZOL
 5-AMINO-1H-1,2,4-TRIAZOL
 AMITROL
 AMINOTRIAZOL-SPRITZPULVER
 AMINOTRIAZOL
 AMINO TRIAZOLE WEEDKILLER 90
 ENT 25445
 1H-1,2,4-TRIAZOL-3-AMINE
 1H-1,2,4-TRIAZOL-3-AMINE
 1,2,4-TRIAZOLE-3-AMINE
 2-AMINO-1,3,4-TRIAZOL
 2-AMINOTRIAZOL
 3,A-T
 3-AMINO-1,2,4-TRIAZOL
 3-AMINO-1H-1,2,4-TRIAZOL
 3-AMINOTRIAZOL
 3-AMINO-S-TRIAZOL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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BGR Not approved for registration.

ECU **1985** Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries.
 (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)

FIN **1980** Banned out of concern for potential health risks associated with its use.
 (Reference: (FINBH) National Board of Health Circular, 1726/80, , 1980)

KOR **1 Apr 1989** Registration withdrawn because of its potential carcinogenicity. Risk of carcinogenic effect on humans.
 (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

NOR **1 Jan 1972** Amitrole is banned for use as a pesticide. No remaining uses allowed. Action taken

Legislative or regulation action

Product Name		Amitrole
C.A.S. number		61-82-5
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
PAN	Sep 1987	because of risk of carcinogenic effect on humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,) Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SWE	18 Apr 1972	Banned. Risk of carcinogenic effect on humans according to epidemiological data. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 18 Apr 1972)
Bibliographical references		
IARC MONOGRAPH, 7, 31, 1974 FAO PLANT PRODUCTION & PROTECTION PAPER, 10 REV., , 1977 FAO PLANT PRODUCTION & PROTECTION PAPER, 10 SUP., , 1977 IARC MONOGRAPH, SUPPL.4, 38, 1982 IARC MONOGRAPH, 41, , 1986 FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 13, 1993 FAO PLANT PRODUCTION & PROTECTION PAPER, 124, 3, 1993 IPCS ENVIRONMENTAL HEALTH CRITERIA, 158, , 1994 IPCS HEALTH AND SAFETY GUIDE, 85, , 1994		
Product Name		Ammonium sulfamate
C.A.S. number		7773-06-0
Scientific and common names, and synonyms		SULFAMIC ACID, MONOAMMONIUM SALT
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
IND	18 Jun 1976	Registration refused. Action taken due to the non-availability of sufficient data. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Anabasin
C.A.S. number		494-52-0
Scientific and common names, and synonyms		ANABAZIN ANABASIN NEONIKOTIN NEONICOTINE S-(-)-ANABASINE 3-(2-PIPERIDINYL)-, (S)-PYRIDINE
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SUN		Prohibited for use in agriculture.

Legislative or regulation action

Product Name **Anabesine sulfate**

C.A.S. number **18262-71-0**

Scientific and common names, and synonyms

PYRIDINE, 3-(2-PIPERIDINYL)-, (S)-, SULFATE (1:1) (9CL)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	Anabesine sulfate is prohibited for use as a pesticide because it is highly toxic and cumulative. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1978)

Product Name **ANC, 2-amino-3-chloro-1,4-naphthoquinone**

C.A.S. number **2797-51-5**

Scientific and common names, and synonyms

ANCQ
MOGETON GRANULE
06K-QUINONE
06K-50W
06K
1,4-NAPHTALENEDIONE, 2-AMINO-3-CHLORO
1,4-NAPHTHOQUINONE, 2-AMINO-3-CHLORO-
1,4-NAPHTHALENEDIONE, 2-AMINO-3-CHLORO-
2-CHLORO-3-AMINO,4-NAPHTHOQUINONE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	9 Aug 1991	Banned for production, import, use and sale of both this substance and preparations containing it. Action taken due to high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Aramite**

C.A.S. number **140-57-8**

Scientific and common names, and synonyms

BETA-CHLOROETHYL-BETA-(P-T-BUTYLPHENOXY)-ALPHA-METHYLETHYL SULPHITE
BETA-CHLOROETHYL-BETA-(P-T-BUTHYLPHENOXY)-ALPHA METHYLETHYL SULFITE
BETA-CHLOROETHYL-BETA'-(P-T-BUTYLPHENOXY)-ALPHA'-METHYLETHYL SULFITE
BUTYLPHENOXYISOPROPYL CHLOROETHYL SULFITE
ETHANOL, 2-CHLORO-, ESTER WITH 2-(P-TERT-BUTYLPHENOXY)-1-METH YLETHYL SULFITE
ETHANOL, 2-CHLORO-, 2-(P-T-BUTYLPHENOXY)-1-METHYLETHYL SULFITE
ETHANOL, 2-CHLORO-, 2-(P-T-BUTHYLPHENOXY)-1-METHYLETHYL SULFITE
SULFUROUS ACID, 2-CHLOROETHYL 2-[4-(1,1-DIMETHYLETHYL)PHENOXY]-1-METHYLETHYL ESTER
2-CHLOROETHYL SULPHITE OF 1-(P-T-BUTYLPHENOXY)-2-PROPANOL
2-(P-BUTYLPHENOXY)-1-METHYLETHYL 2-CHLOROETHYL SULFITE
2-(P-BUTYLPHENOXY)ISOPROPYL 2-CHLOROETHYL SULFITE
2-(P-T-BUTYLPHENOXY)-1-METHYLETHYL 2'-CHLOROETHYL SULPHITE
2-(P-T-BUTYLPHENOXY)-1-METHYLETHYL 2-CHLOROETHYL ESTER OF SULPHUROUS ACID
2-(P-T-BUTYLPHENOXY)-1-METHYLETHYL SULPHITE OF 2-CHLOROETHANOL
2-(P-T-BUTYLPHENOXY)ISOPROPYL 2'-CHLOROETHYL SULPHITE

Legislative or regulation action

Product Name **Aramite**

C.A.S. number **140-57-8**

Scientific and common names, and synonyms

2-(P-TERT-BUTYLPHENOXY)-1-METHYLETHYL 2-CHLOROETHYL ESTER SULFUROUS ACID
 2-(P-TERT-BUTYLPHENOXY)ISOPROPYL 2-CHLOROETHYL SULFITE
 2-CHLOROETHYL 1-METHYL-2-(P-T-BUTYLPHENOXY)ETHYL SULFATE
 2-(4-T-BUTYLPHENOXY)ISOPROPYL-2-CHLOROETHYL SULFITE
 2-CHLOROETHYL 2-(4-(1,1-DIMETHYLETHYL)PHENOXY)-1-METHYLETHYL ESTER SULFUROUS ACID
 2-(4-TERT-BUTYLPHENOXY)-1-METHYLETHYL 2-CHLOROETHYL
 2-PROPANOL, 1-(P-T-BUTYLPHENOXY)-, 2-CHLOROETHYL SULFITE
 2-CHLOROETHYL 1-METHYL-2-(P-T-BUTYLPHENOXY)ETHYL SULPHATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	20 Dec 1971	Prohibited for use in crops. (Reference: (ADISS) Argentinian Legislation, Disposición, 80, , 1971)
AUT	20 Feb 1992	All uses banned. Shown to be carcinogenic in experimental animals. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
NZL		Voluntarily withdrawn from the market.
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
THA	09 May 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Possible carcinogenic to humans. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Bibliographical references

IARC MONOGRAPH, 5, 39, 1974

Product Name **Arsenic acid and arsenates**

C.A.S. number **7778-39-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ		Arsenates are prohibited pesticides. They shall not be brought into or used in Belize. Their possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify their use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
PRT	1 Jan 1974	Pesticides based on this product have been banned on account of their toxicological/environmental effect. (Applies to arsenates). (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)

Product Name **Arsenic and arsenic compounds**

C.A.S. number **7440-38-2**

Scientific and common names, and synonyms

Legislative or regulation action

Product Name **Arsenic and arsenic compounds**

C.A.S. number **7440-38-2**

Scientific and common names, and synonyms

ARSENIC

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	16 Oct 1990	Import, production, formulation, sale and use of products for agricultural use containing this active ingredient are banned. The National Register of Plant Protection will cancel the registrations of formulated products for agricultural use containing this active ingredient. (Prohíbe la importación, fabricación, fraccionamiento, comercialización y uso de productos de aplicación agrícolas formulados a base de este principio activo. El Registro Nacional de Terapeutica Vegetal procederá a cancelar las inscripciones de todos los productos de uso agrícola formulados a base de este principio activo.) Protection of human health and environment. Toxicological risks. (Protección de la salud humana y el medio ambiente; riegos toxicológicos). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUT	20 Feb 1992	The control action applies to all arsenic compounds. All uses banned. Some arsenic compounds are highly toxic. These substances are highly persistent in the environment and bioaccumulate in the food chain and in fatty tissues. Contamination of water and accumulation in plants occur. Some arsenic compounds have shown a carcinogenic potential. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , , 1992)
BEL		Arsenicals are no longer admitted for use in agriculture. Restricted to use by industrial plants for wood treatment.
CHE	1 Sep 1986	Highly toxic impurities (tetrachlorodibenzodioxine - TCDD, which is a potential human carcinogen) in commercial products. The pesticide has a potential for contamination of water and therefore provides a high risk to human health. Long persistence, toxicity. (Reference: (CHEOPT) Order Concerning Prohibited Toxic Substances, , , 1971)
CHE	1 Sep 1986	Plant treatment products shall not be supplied if they contain arsenic or arsenic compounds. Reasons for the control action: water pollution, toxicity for aquatic organisms. (Reference: (CHEOS) Ordonnance sur les Substances Dangereuses pour l'Environnement (OSUBST), 9, , 09 Sep 1986)
CHN	1 Jan 1985	The control action applies to arsenical insecticides. These substances are banned for production and use as pesticides. Non-agricultural uses are still allowed. Arsenic and its compounds are highly toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CUB	28 Dec 1990	The control action applies to all inorganic arsenic compounds. Banned for use, production and import as pesticides (Todos los compuestos inorganicos del arsenico estan prohibidos para su uso, produccion e importacion como plaguicidas). These compounds form substances of high persistence which accumulate in human and animal organisms and have a proven carcinogenic effect (Constituyen sustancias altamente persistentes, que se acumulan en el organismo humano y animal y poseen demostrada accion carcinogénica). (Reference: (CUBMSP) Ministro de Salud Publica, , , 1990)
CYP	1 Jan 1972	The control action applies to all arsenic pesticides. Banned for use as pesticides. No remaining uses allowed. High toxicity. (Reference: (CYPDDD) Decision of the Director of the Department of Agriculture, , , 1972)
DEU	Oct 1982	Arsenic in concentrations exceeding 0.3% by weight may not be used in pesticides. Anti-fouling paints which contain arsenic may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , , 1982)

Legislative or regulation action

Product Name		Arsenic and arsenic compounds
C.A.S. number		7440-38-2
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Apr 1986	Arsenic compounds are prohibited for use as plant protectants. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
DNK		Arsenicals are severely restricted and registered only for use as wood preservatives.
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. Applies to arsenic compounds. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
GBR	1 Jan 1992	Mercury, arsenic and organotannic compounds may not be used as anti-foulant paints and wood preservatives. Does not apply to solutions of inorganic salts of the CCA (copper-chromium-arsenic) type. Control introduced under the 8th Amendment, Directive 89/677/EEC of the European Marketing and Use Directive 67/677/EEC. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, ,)
HUN	Jan 1968	Pesticides containing arsenic have been banned because of their acute and chronic toxicity and carcinogenic effects.
HUN	1 Jan 1968	Banned for all agricultural uses. Industrial use is not subject to the decision but no industrial uses have been registered so far in Hungary (applies to sodium arsenate, calcium arsenate, arsenic trioxide). Extremely toxic to man. (Reference: (HUNOJN) Official Journal, 6, 334, 1968)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
LKA	1 Jan 1980	The control action applies to arsenites and arsenates. Arsenites and arsenates are severely restricted. Agricultural use as a herbicide in rubber is banned. Arsenic pentoxide in combination with copper sulphate and sodium chromate allowed for use as timber preservative. Agricultural use for weed control especially is hazardous to human and animal health. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1984)
NZL	1 Oct 1977	Control action applies to inorganic arsenic pesticides (lead arsenate, arsenic trioxide, arsenic pentoxide, sodium arsenate). Inorganic arsenical pesticides are severely restricted for use. Voluntary withdrawal of most uses and products. Use is still allowed in treatment of fresh cut timber with copper-chrome-arsenic mixtures. To reduce arsenic entry into the environment, human health (acute toxicity, potential carcinogen). (Reference: (NZLACB) Agricultural Chemicals Board Minutes, , , 1977)
NZL	1983	Arsenic-containing pesticides have been voluntarily withdrawn from the market except for wood preservatives.
PHL		Arsenic is considered too hazardous for general use. Restricted to institutional use on wood-preserving plants only.
SUN		Pesticide currently banned for production and use (applies to arsenic compounds). (Reference: (KGTXP) General Toxicology of Pesticides, , , 1981)
USA	Aug 1968	The Environmental Protection Agency has ruled that for products with arsenic trioxide in excess of 1.5% and sodium arsenite in excess of 20%, labelling which bears directions for home use is unacceptable, and a warning against home use is required for products with acceptable directions for agricultural, commercial or industrial use. The following statements must appear in a prominent position: "Do not use or store in or around the home" and "Do not allow domestic animals to graze treated area". For wood preservative uses of arsenic, the Agency has issued an amended final decision allowing the registration of arsenic to continue under certain conditions. (Reference: (FEREAC) Federal Register, 51, 1334, 1986)

Legislative or regulation action

Product Name **Arsenic and arsenic compounds**

C.A.S. number **7440-38-2**

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IARC MONOGRAPH, 1, 41, 1972
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 IARC MONOGRAPH, 23, 39, 1980
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 18, , 1981
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 24, , 1982
 IARC MONOGRAPH, SUPPL.4, 50, 1982
 WHO FOOD ADD., 18, 176, 1983
 WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
 WHO FOOD ADD., 24, 155, 1989
 IPCS HEALTH AND SAFETY GUIDE, 70, , 1992

Product Name **Arsenic pentoxide**

C.A.S. number **1303-28-2**

Scientific and common names, and synonyms

ARSENIC OXIDE (AS₂O₅)

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
KOR	9 Aug 1991	Banned for production, import, use and sale of both this substance and preparations containing it. Permitted as additive in industrial products. Action taken due to high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Arsenious acid**

C.A.S. number **13464-58-9**

Scientific and common names, and synonyms

ARSENOUS ACID (H₃ASO₃)

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
KOR	11 Jun 1986	New registrations for manufacture of arsenious acid prohibited. Highly hazardous to human health. (Its potential carcinogenicity) and to the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Arsenious acid and arsenites**

C.A.S. number **1327-53-3**

Scientific and common names, and synonyms

ARSENIC OXIDE (AS₂O₃)

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
AUT	1976	Arsenic trioxide has been classified as a "highly toxic poison". It may be manufactured, bought or sold only with a special license and is subject to certain packaging and labelling requirements.
BLZ	14 Jul 1990	Severely restricted. For pole treatment only and only after consultation with the Pesticides Control Board. Environmental pollutant, carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Arsenious acid and arsenites**

C.A.S. number **1327-53-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ		Arsenic trioxide and arsenites are prohibited pesticides. They shall not be brought into or used in Belize. Their possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify their use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
KOR	9 Aug 1991	New registration for production of this substance is not permitted. Action taken due to high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PRT	1 Jan 1974	Pesticides based on this product have been banned on account of their toxicological/environmental effect. (Applies to arsenic trioxide). (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)
USA	Aug 1968	The Environmental Protection Agency has ruled that for products with arsenic trioxide in excess of 1.5% and sodium arsenite in excess of 20%, labelling which bears directions for home use is unacceptable, and a warning against home use is required for products with acceptable directions for agricultural, commercial or industrial use. The following statements must appear in a prominent position: "Do not use or store in or around the home" and "Do not allow domestic animals to graze treated area". For wood preservative uses of arsenic, the Agency has issued an amended final decision allowing the registration of arsenic to continue under certain conditions. (Reference: (FEREAC) Federal Register, 51, 1334, 1986)
USA	30 Jun 1988	The substance is severely restricted for use as a pesticide. On June 30, 1988, EPA cancelled the registrations for products containing arsenic trioxide, with the exception of the solid formulations of the pesticide. The two remaining uses of arsenic trioxide are: the insecticidal use of arsenic trioxide in a solid formulation package in a sealed metal container for outdoor-domestic dwellings and indoor-domestic dwellings and solid formulation arsenic trioxide for the control of moles, gophers, and pocket gopher killing use (solid formulation only) for outdoor-domestic dwellings, terrestrial non-food crops golf courses, ornamental plants and lawns, and non-crop areas. Remaining uses are minor. Oncogenicity for mixer/loaders and applicators; acute toxicity to the general public resulting in a large number of accidental exposures; moderate toxicity to birds and aquatic invertebrate species, and slight toxicity to fish; mutagenicity and teratogenicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Arsenious acid, sodium salt**

C.A.S. number **14060-38-9**

Scientific and common names, and synonyms

ARSONIC ACID, SODIUM SALT

SODIUM ARSENITE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	All use categories have been banned. Persistence in the environment. Highly toxic to mammals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 1, 41, 1972

IARC MONOGRAPH, 2, 48, 1973

IARC MONOGRAPH, 23, 39, 1980

Legislative or regulation action

Product Name	Arsenious acid, sodium salt	
C.A.S. number	14060-38-9	
IARC MONOGRAPH, SUPPL.4, 50, 1982		
Product Name	Atrazine	
C.A.S. number	1912-24-9	
Scientific and common names, and synonyms	1,3,5-TRIAZINE-2,4-DIAMINE, 6-CHLORO-N-ETHYL-N'-(1-METHYLETHYL)-	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
ANG	2 Oct 1990	The control acion applies to the product Primatol A80 WP. Banned for use. No remaining uses allowed. The product Primatol is banned for health and environmental reasons (toxicity). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUT	1 May 1995	No preparation with the active ingredient atrazine has been registered as of 4 May 1995. Since the amendment of the Plant Protection Products Act (F.L.G. No. 300/1995) the registration of all preparations containing the active ingredient atrazine has been cancelled. As of November 1994 in accordance with the the derogation of art. 4 para 2 of the relevant ordinance (F.L.G. 903/195) by the Constitutional Court atrazine cannot be seen anymore as banned/severely restricted for use in Austria. Nevetherless there has been no preparation registered with the active ingredient atrazine as of 4 May 1995. Since then no registered use of atrazine has been granted. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DEU	29 Mar 1991	Totally banned for use as plant protection product. High mobility and high persistence in soil; suspected of having harmful effects on ground water and drinking water. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK	1 Jul 1995	Atrazine has been banned for agriculture use as a herbicide. All authorizations for products containing atrazine as an active substance have been withdrawn from the market in 1995 and a further use of products containing atrazine as an active ingredient has been banned from 1 July 1995. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Atrazine is mobile and persistent and have caused groundwater pollution over the limits set down in EEC Directive 80/778 EEC on drinking water. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	1 Jan 1991	Atrazine is banned for use as a pesticide. No remaining uses allowed. Action taken because of high persistence and risk of water pollution. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SLO	13 Jun 1997	Monocomponent preparations containing atrazine are entirely prohibited. Multicomponent preparations containing atrazine are prohibited only in the protected areas of water sources and in those areas where according to the national monitoring data for potable water, springs and subterranean water the critical value of atrazine in potable water is exceeded. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	30 Sep 1989	The substance is banned for use as a pesticide. No remaining uses allowed. The substance was suspended due to its high mobility in soil and potential for contamination of water. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name	Azinphos-ethyl	
C.A.S. number	2642-71-9	

Legislative or regulation action

Product Name **Azinphos-ethyl**

C.A.S. number **2642-71-9**

Scientific and common names, and synonyms

PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[(4-OXO-1,2,3-BENZOTRIAZIN-3(4H)-YL)METHYL] ESTER

PHOSPHORODITHIOIC ACID, O,O-DIETHYL ESTER, S-ESTER WITH 3-(MERCAPTOMETHYL)-1,2,3-BENZOTRIAZIN-4(3H)-ONE

S-(3,4-DIHYDRO-4-OXOBENZO[D]-[1,2,3]-TRIAZIN-3-YLMETHYL O, O-DIETHYL PHOSPHORODITHIOATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	The substance is banned for use. Highly toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	16 Oct 1975	Registration refused. Action taken due to its toxic nature. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	09 May 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Very high acute toxicity, extremely hazardous and risk to workers in formulation plant and during application by spraying. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986

Product Name **Azinphos-methyl**

C.A.S. number **86-50-0**

Scientific and common names, and synonyms

AZINPHOS

AZINFOS-METHYL

AZINFOS

AZIMPHOS

GUSATHION METHYL

HORODITHOIC ACID

METHYL GUTHION

O,O-DIMETHYL S-[(4-OXO-1,2,3-BENZOTRIAZIN-3(4H)-YL)METHYL] ESTER PHOSPHORODITHIOIC ACID

O,O-DIMETHYL S-[(4-OXO-1,2,3-BENZOTRIAZIN-3(4H)-YL)METHYL] ESTER PHOSPHORODITHIOIC

O,O-DIMETHYL ESTER, S-ESTER WITH 3-(MERCAPTOMETHYL)-1,2,3-BENZOTRIAZIN -4(3H)-ONE
PHOSPHORODITHIOIC ACID

O,O-DIMETHYL ESTER, S-ESTER WITH 3-(MERCAPTOMETHYL)-1,2,3-BENZOTRIAZIN -4(3H)-ONE

PHOSPHORODITHIOIC ACID, O,O-DIMETHYL S-[(4-OXO-1,2,3-BENZOTRIAZIN-3(4H)-YL)METHYL] ESTER

S-3,4-DIHYDRO-4-OXOBENZO [D]-[1,2,3]TRIAZIN-3-YLMETHYL O, O-DIMETHYL PHOSPHORODITHIOATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BGR		Not approved for registration.
IDN	1 Jun 1981	No longer registered. No longer in use and prohibited to use under the law. No special control action has been taken. Prohibited use on paddy/rice. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	1 Oct 1973	Registration refused. Action taken in view of its toxicity to human beings and animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Azinphos-methyl**

C.A.S. number **86-50-0**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 Feb 1981	Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited to rice plant. Action taken because of high acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	25 Feb 1981	Classified as an "highly hazardous" and "restricted use" pesticide. Use is allowed only in apple and citrus fruits. The use of this product is strictly prohibited to rice plant. Pre-harvest intervals were established for the safe use of this product. Action taken because of high acute oral toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Azinphos-methyl is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Very high acute toxicity, extremely hazardous and risk to workers in formulation plant and during application by spraying. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Bibliographical references

WHO TECHNICAL REPORT SERIES, 4, , 1975
 WHO PESTICIDE RESIDUES SERIES, 574, , 1975
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 111, 18, 1991
 FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART1), 3, 1992
 FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART2), 3, 1992
 FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 17, 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 124, 11, 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 133, 32, 1995

Product Name **Azobenzene**

C.A.S. number **103-33-3**

Scientific and common names, and synonyms

AZOBENZOL
 AZOBENZIDE
 BENZENEAZOBENZENE
 BENZENE,AZOBIS-
 DIAZENE, DIPHENYL-
 DIPHENYLDIIMIDE
 1,2-DIPHENYLDIAZENE

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
GBR	30 Sep 1975	All uses in agriculture, horticulture and the home garden withdrawn because azobenzene and its metabolites (hydrazobenzene and benzidine) were shown to be potential human carcinogens on the basis of animal data. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 1087/1088, , 1974)
NOR	1 Jan 1970	Azobenzole is banned for use as a pesticide. No remaining uses allowed. Action taken

Legislative or regulation action

Product Name		Azobenzene
C.A.S. number		103-33-3
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		for toxicological reasons.(Carcinogenic). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Bibliographical references		
IARC MONOGRAPH, 8, 75, 1975		
Product Name		Azocyclotin
C.A.S. number		41083-11-8
Scientific and common names, and synonyms		
BAY BUE 1452		
PEROPAL		
(1-H-1,2,4-TRIAZOLYL)TRICYCLOHEXYLSTANNANE		
1H-1,2,4-TRIAZOLE, 1-(TRICYCLOHEXYLSTANNYL)-		
1-(TRICYCLOHEXYLSTANNYL)-1H-1,2,4-TRIAZOLE		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
AUS	1 Aug 1987	Azocyclotin has been withdrawn by industry. No remaining use allowed. Teratogenicity and embryotoxicity in rabbits of metabolite cyhexatin. Azocyclotin embriotoxic in rabbits. (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, 46, , 1984)
AUT	1 Jan 1993	All uses of azocyclotin are banned. Teratogenic potential of cyhexatin, a metabolite of azocyclotin in the organism of animals. (The producing company (Dow Chemical) has withdrawn cyhexatin from the market because of the teratogenic effects on experimental animals). Azocyclotin is a tin-organic compound, whose bioaccumulation in aquatic ecosystem is evident. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Not approved for use as a pesticide because it is highly toxic and persistent. (Reference: (OSUMH) Order of the USSR Ministry of Health, 123-5/232-23, , 25 May 1982)
Bibliographical references		
FAO PLANT PRODUCTION & PROTECTION PAPER, 100, 29, 1990		
FAO PLANT PRODUCTION & PROTECTION PAPER, 100/2, 23, 1990		
Product Name		Azoxybenzene
C.A.S. number		495-48-7
Scientific and common names, and synonyms		
DIAZENE, DIPHENYL-, 1-OXIDE		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. Carcinogenic properties shown in experimental animals and suspected mutagenic potential. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

Product Name **Barban**

C.A.S. number **101-27-9**

Scientific and common names, and synonyms

CARBAMIC ACID, (3-CHLOROPHENYL)-, 4-CHLORO-2-BUTYNYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS	1 Mar 1987	Product withdrawn from sale by the applicant(s). No remaining uses allowed. Audit of toxicology studies by IBT in USA found to be invalid. No new data generated by sponsors. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , 1986)

Product Name **Barium Siliofluoride**

C.A.S. number **17125-80-3**

Scientific and common names, and synonyms

SILICATE(2-), HEXAFLUORO-, BARIUM (1:1)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	The control action applies to barium compounds. All uses banned. High persistence in the environment and bioaccumulation in the food chain. Contamination of water and accumulation in plants occur. (Reference: (AUTFLG) Federal Law Gazette, No. 97/1992, , 1992)

Product Name **Benfuracarb**

C.A.S. number **82560-54-1**

Scientific and common names, and synonyms

8-OXA-3-THIA-2,4-DIAZADECANOIC ACID, 2-METHYL-4-(1-METHYLETHYL)-7-OXO-, 2,3-DIHYDRO-2,2-DIMETHYL-7-BENZOFURANYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 Mar 1986	Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited to rice plant. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Benomyl**

C.A.S. number **17804-35-2**

Scientific and common names, and synonyms

CARBAMIC ACID, [1-[(BUTYLAMINO)CARBONYL]-1H-BENZIMIDAZOL-2-YL]-, METHYL ESTER

2-BENZIMIDAZOLECARBAMIC ACID, 1-(BUTYLCARBAMOYL)-, METHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BGR		Restricted use because of its teratogenic and gonadotoxic action.
SWE	1 Jan 1988	The substance was prohibited for use in home gardens in 1982. In 1988 the substance

Legislative or regulation action

Product Name **Benomyl**

C.A.S. number **17804-35-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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was severely restricted for use as a pesticide. Formulations containing benomyl were re-assigned to Class 1 - May only be used professionally by someone holding a special permit. The waiting period was extended to 28 days. Use is allowed only against fungi on apples and pears not later than 28 days before harvest. Quantities sold in Sweden have been reduced substantially. Evidence of genetic and foetal disturbances in experimental animals, and increase of tumor incidence in mice. The substance has been classified as carcinogenic.

(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 56, , 1983
 FAO PLANT PRODUCTION & PROTECTION PAPER, 61, , 1983
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 63, , 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 92, 12, 1988
 FAO PLANT PRODUCTION & PROTECTION PAPER, 93/1, 5, 1988
 FAO PLANT PRODUCTION & PROTECTION PAPER, 102, 17, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 25, 1990
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 148, , 1993
 IPCS HEALTH AND SAFETY GUIDE, 81, , 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 35, 1994
 FAO PLANT PRODUCTION & PROTECTION PAPER, 131/1, 119, 1994
 FAO PLANT PRODUCTION & PROTECTION PAPER, 133, 34, 1995

Product Name **Bentazon (bentazone technical)**

C.A.S. number **25057-89-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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NOR	1 Jan 1998	Bentazon is severely restricted. Some uses allowed against weed in certain crops. High mobility and persistence. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
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Product Name **Bentazon (sodium bentazon)**

C.A.S. number **50723-80-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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NOR	1 Jan 1998	Bentazon is severely restricted. Some uses allowed against weed in certain crops. High mobility and persistence. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
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Product Name **Benzene**

C.A.S. number **71-43-2**

Scientific and common names, and synonyms

BENZENE

Legislative or regulation action

Product Name **Benzene**

C.A.S. number **71-43-2**

Scientific and common names, and synonyms

BENZOLE

BENZOL

CYCLOHEXATRIENE

COAL NAPHTHA

PYROBENZOL

PROBENZOLE

PHENYL HYDRIDE

PHENE

(6)ANNULENE

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
SLO	22 Feb 1991	Benzene can only be used in concentrations equal to or smaller than 1% by volume in substances or preparations. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 7, 203, 1974

IARC MONOGRAPH, 29, 391, 1982

IARC MONOGRAPH, 29, 93, 1982

IARC MONOGRAPH, SUPPL.4, 56, 1982

WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984

IPCS ENVIRONMENTAL HEALTH CRITERIA, 150, , 1993

Product Name **Bifenthrin**

C.A.S. number **82657-04-3**

Scientific and common names, and synonyms

BRIGADE

BIPHENTRIN

BIPHENTHRIN

CYCLOPROPANECARBOXYLIC ACID, 3-(2-CHLORO-3,3,3-TRIFLUORO-1-PROPENYL)-2,2-DIMETHYL-, (2-METHYL[1,1'-BIPHENYL]-3-YL)METHYL ESTER, [1.ALPHA.,3.ALPHA.(Z)]

CAPTURE

FMC 54800

TALSTAR

2-METHYL[1,1'-BIPHENYL]-3-YL)METHYL-3-(W-CHLORO-3,3,3-TRIFLUORO-1-PROPENYL)-2,2-DIMETHYL-CYCLOPROPANECARBOXYLATE

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
NLD	14 Aug 1989	Use restricted to glasshouse-cultures with minimized emission of elluents to the surface water. Use in the open fields (orchards) is not allowed. Reasons for the control action: extreme toxicity to water organisms, persistence in soil and water, and bioaccumulation. (Reference: (MMNLD) Ministerial Order of the Ministry of Housing, Physical Planning and Environment, , , 14 Aug 1989)
NLD	14 Aug 2001	The chemical is banned. The authorization for the application of bifenthrin as a pesticide was cancelled. All agricultural applications are prohibited. Bifenthrin is allowed as a

Legislative or regulation action

Product Name		Bifenthrin
C.A.S. number		82657-04-3
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	biocide under certain restrictions for pest control. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,) Bifenthrin is not approved for use as a pesticide because it is highly toxic, carcinogenic and has a neurotoxic effect on progeny. (Reference: (OSUMH) Order of the USSR Ministry of Health, 123-9/403-23, , 23 Oct 1986)
Bibliographical references		
FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 24, 1993		
FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 117, 1993		
FAO PLANT PRODUCTION & PROTECTION PAPER, 133, 41, 1995		
Product Name		Binapacryl *
C.A.S. number		485-31-4
Scientific and common names, and synonyms		CROTONIC ACID, 3-METHYL-, 2-SEC-BUTYL-4,6-DINITROPHENYL ESTER 2-BUTENOIC ACID, 3-METHYL-, 2-(1-METHYLPROPYL)-4,6-DINITROPHENYL ESTER
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1990	The placing on the market and the use of all plant protection products containing binapacryl as an active ingredient is prohibited. Binapacryl is likely to give rise to harmful effects on human and animal health (close chemical relationship to dinoseb). The chemical showed mutagenic effects in animal testing. Binapacryl has been classified by the EC as a category 2 reproductive toxin (probably causing developmental damage to humans). Directive 90/533/EEC of 15.10.90. (Reference: (OJEC) Official Journal of the European Communities, L296/63, , 27 Oct 1990)
ANG	19 Aug 1990	Banned for use. No remaining uses allowed. Banned for use in agriculture for toxicological reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUS	1 Jul 1987	Withdrawn by industry. No remaining uses allowed. Inadequate toxicology available. Several invalidated IBT studies without acceptable replacements. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , 1984)
AUT	1 Jan 1993	Voluntarily withdrawn by manufacturer since July 1991. All uses banned as of 01.01.93. High acute human toxicity (probable oral lethal dose 5-50mg/kg; for a 70kg person: between 7 drops and 1 teaspoon). (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BRA	01 Jan 2002	The chemical binapacryl and its formulations are severely restricted to protect users, non-target species and the environment. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CYP	12 Dec 1987	Banned for all use as a pesticide due to the risk associated with birth defects, male sterility and high acute toxicity. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 12 Dec 1987)
DEU	29 Mar 1991	Totally banned for use as plant protection product. Teratogenic effect in animal experiments; compliance with EEC regulations.

Legislative or regulation action

Product Name **Binapacryl ***

C.A.S. number **485-31-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR	22 Jan 1988	Approval for all pesticidal uses in agriculture and horticulture have been revoked due to evidence of teratogenic and possible carcinogenic effects in mammalian species. (Reference: (NAFEP) Notice of Approval issued under Part III of the Food and Environment Protection Act), , , 1985)
IND	2 Aug 1975	Registration refused. Action taken since it is moderately irritant to eyes and its effective and safer substitutes are available. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	25 Feb 1981	Pre-harvest intervals were established for the safe use of this product. Health risk and environmental impact. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1975	Banned for use as a pesticide. No remaining uses allowed. Action was taken because more safe alternatives are available. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1 Oct 1986	Voluntary withdrawal of all products, registrations cancelled. No uses allowed. Human health reasons (teratogenicity and possible carcinogen). (Reference: (NZLPBM) Pesticides Board Minutes, , , 1986)
PAK	1 Jan 1990	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	All use categories have been banned. Possibly carcinogenic and teratogenic in test animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 62, , 1984

FAO PLANT PRODUCTION & PROTECTION PAPER, 72/1, , 1985

Product Name **Bromacil**

C.A.S. number **314-40-9**

Scientific and common names, and synonyms

2,4(1H,3H)-PYRIMIDINEDIONE, 5-BROMO-6-METHYL-3-(1-METHYLPROPYL)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	11 Aug 1993	Totally banned for use as plant protection product. High persistence of bromacil in soil combined with high leaching potential with the likelihood that application of bromacil would exceed a regulatory limit of 0.1 micrograms/l in ground water. The action is based on a national review of scientific data. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons.

Legislative or regulation action

Product Name **Bromacil**

C.A.S. number **314-40-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1990	(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,) The substance is banned for use as pesticide. No remaining uses allowed. Suspended due to the substance's suspected carcinogenic properties and high mobility in soil. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Bromide**

C.A.S. number **24959-67-9**

Scientific and common names, and synonyms

BROMINE,ION (BRL-)
BROMINE(1-)
BROMINE ION(1-)
BROMINE ION
BROMIDE(1-)
BROMIDE ION(1-)
BROMIDE ION (BRL-)
BROMIDE ION
BROMIDE ANION
HYDROBROMIC ACID,ION(1-)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		Peanut hay and peanut hulls containing residue of inorganic bromides from the use of nematocides such as ethylene dibromide and 1,2-dibromo-3-chloropropane are unsuitable as an ingredient in the feed of meat and dairy animals and should not be represented, sold, or used for that purpose. (Reference: (CFRUS) Code of Federal Regulations, 40(180), 185, 1981)

Bibliographical references

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FAO PLANT PRODUCTION & PROTECTION PAPER, 93/2, 7, 1989
FAO PLANT PRODUCTION & PROTECTION PAPER, 99, 13, 1989
FAO PLANT PRODUCTION & PROTECTION PAPER, 100, 41, 1990

Product Name **Bromocyclen**

C.A.S. number **1715-40-8**

Scientific and common names, and synonyms

5-(BROMOMETHYL)-1,2,3,4,7,7-HEXACHLOROBICYCLO(2.2.1)HEPT-2-ENE
BROMOMETHYLHEXACHLOROBICYCLOHEPTENE
2-NORBORNENE, 5-(BROMOMETHYL)-1,2,3,4,7,7-HEXACHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources.

Legislative or regulation action

Product Name		Bromocyclen
C.A.S. number		1715-40-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
(Reference: (MINHS) Ministry of Health, , , 1983)		
Product Name		Bromofos
C.A.S. number		2104-96-3
Scientific and common names, and synonyms		
PHOSPHOROTHIOIC ACID, O-(4-BROMO-2,5-DICHLOROPHENYL) O,O-DIMETHYL ESTER		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	All use categories have been banned. Very low ADI and very risky to users for application. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Bromofos-ethyl
C.A.S. number		4824-78-6
Scientific and common names, and synonyms		
PHOSPHOROTHIOIC ACID, O-(4-BROMO-2,5-DICHLOROPHENYL) O,O-DIETHYL ESTER		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
ANG		Banned for use. Banned for toxicological reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAK	1 Jan 1992	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	All use categories have been banned. Very low ADI and very risky to users for application. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Bromomethane
C.A.S. number		74-83-9
Scientific and common names, and synonyms		
BROMOMETHANE, MONOBROMOMETHANE		
METHYL BROMIDE		
METHANE, BROMO-		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
BEL	1976	Use restricted to specially authorized users with adequate equipment for the application of the product and in possession of ware-houses exclusively reserved to stocking toxic products.
BLZ	28 Dec 1985	The substance is banned for use. Highly toxic to man; mixed with chlorinated

Legislative or regulation action

Product Name		Bromomethane
C.A.S. number		74-83-9
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		hydrocarbons; difficult to detect. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIJ		Restricted to licensed applicators for export and import quarantine fumigation. Fumigation of import and export commodities. Soil fumigation for nematode control in ginger. Highly toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	1946	Use as fumigant allowed only for authorized users with the permission of National Board of Health. (Poison Decree 492/80).
KOR	1 Feb 1981	Banned for use on growing crops except rice and woody plant because of its high inhalation toxicity. Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. Only use under the supervision of authorized agency. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it. Permitted in agricultural chemicals. The reason are as follows: 1) Risks of mutagenic and carcinogenic effects; 2) High toxicity and irritation to eye and skin. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jun 1993	Severely restricted. Remaining minor use is for fumigation in plant quarantine. Action was taken for health reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MAR	25 Aug 1952	The use of the substance is restricted. Treatment with methyl bromide is carried out by special teams. (Le traitement avec le bromure de méthyle est effectué par des équipes spécialisées.) Use still allowed for disinfection of plain soils by fumigation, control of damagers of food stocks (Desinfection des sols nus par fumigation, traitement contre les ravageurs des denrées stockées.) Highly toxic to warm-blooded animals by inhalation. (Très toxique par inhalation vis-à-vis des animaux à sang chaud.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MUS	1970	Restricted use under the Pesticide Control Act 1970.
NLD	1992	The chemical is severely restricted. In 1981, the use of methyl bromide as a soil disinfectant was prohibited. Based on Article 16a of the Dutch Pesticide Law of 1962, an exemption could, however, be granted based on individual requests. In the following period of time, the policies of the Government aimed at a further decrease in the use of methyl bromide. In 1992 methyl bromide was completely banned for use as a soil disinfectant. In 1996, two space fumigation products on the basis of methyl bromide were extended until 1 December 2001. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
NLD	1 Jan 1992	It is prohibited to sell, stock, store or use methylbromide as agricultural pesticide. The possibility to use methyl bromide as soil fumigant with a special permit expired per 1 January 1992. The control of pests in stored products is still allowed with a special permit. This concerns a small use. Neurotoxicity, mutagenicity, possible carcinogenicity. Risk of pollution of ground and surface water with bromide and methylbromide. Risk of storage and use of methylbromide and gas cylinders. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PHL		Prohibited for use except by certified fumigators. Adequate time for aeration is required after treatment before treated commodities are processed into food or feed.
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons.

Legislative or regulation action

Product Name		Bromomethane
C.A.S. number		74-83-9
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Bibliographical references		
FAO PLANT PRODUCTION & PROTECTION PAPER, 72/1, , 1985		
FAO PLANT PRODUCTION & PROTECTION PAPER, 72/2, , 1985		
IARC MONOGRAPH, 41, , 1986		
IPCS HEALTH AND SAFETY GUIDE, 86, , 1994		
Product Name		Bromoxynil butyrate
C.A.S. number		3861-41-4
Scientific and common names, and synonyms		BUTANOIC ACID, 2,6-DIBROMO-4-CYANOPHENYL ESTER
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
USA	1 Jun 1989	The substance has been voluntarily withdrawn by the registrants. Registration was cancelled in June 1989. In its request for voluntary cancellation, the company stated that it would institute a plan to recover remaining stocks of these products from distributors, dealers, and users. No remaining uses allowed. Products containing bromoxynil butyrate were found to cause developmental toxicity. In each of five oral and two teratology studies which were submitted to the EPA, bromoxynil butyrate induced birth defects and other forms of toxicity in both rats and rabbits. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Bromoxynil octanoate
C.A.S. number		1689-99-2
Scientific and common names, and synonyms		2,6-DIBROMO-4-CYANOPHENYL OCTANOATE
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
NOR	2000	The chemical is banned. It is prohibited to import, sell and use bromoxynil as a pesticide. Extremely toxic to aquatic organisms. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
Product Name		Bromuconazole
C.A.S. number		116255-48-2
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jan 2000	Bromuconazole is banned. No uses remain. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Legislative or regulation action

Product Name **Bronopol**

C.A.S. number **52-51-7**

Scientific and common names, and synonyms

1,3-PROPANEDIOL, 2-BROMO-2-NITRO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	14 Jul 1990	Severely restricted. Use in cotton only. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Butachlor**

C.A.S. number **23184-66-9**

Scientific and common names, and synonyms

ACETAMIDE, N-(BUTOXYMETHYL)-2-CHLORO-N-(2,6-DIETHYLPHENYL)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 May 1990	Restricted for use near fish farm, waterways and lake because of its high fish toxicity. High toxicity to fish and shellfish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Butyl mercaptan**

C.A.S. number **109-79-5**

Scientific and common names, and synonyms

1-BUTANETHIOL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	Products, which inhibit human functional system transiently in order to protect oneself or attack the others, containing this chemical have been banned for importation, exportation, manufacture and handling. A high risk to human health as a powerful counter irritant which may be abused when used in spray form. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Cadmium and cadmium compounds**

C.A.S. number **7440-43-9**

Scientific and common names, and synonyms

CADMIUM

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS	21 Dec 1987	The control action applies to cadmium chloride, cadmium sulfate and cadmium nitrate. Uses on turf to control various diseases cancelled. (Dates vary from State to State). No remaining uses allowed. The poor excretion of cadmium from the body can result in kidney damage if excessive levels are reached. (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, , , 1988)
AUT	20 Feb 1992	The control action applies to cadmium compounds. All uses banned. High persistence

Legislative or regulation action

Product Name		Cadmium and cadmium compounds
C.A.S. number		7440-43-9
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		in the environment and bioaccumulation in the food chain, contamination of water, and accumulation in plants occur. Furthermore these substances have been shown to be carcinogenic in test animals (lung and prostatic cancer, renal system effects). (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
CHE	31 Aug 1988	Severely restricted chemical. It is prohibited to import and supply cadmium-plated articles and plastics with a cadmium content higher than 100mg/kg plastic (as commercial goods for industrial and consumer use). In addition to these prohibitions, which affect the use of cadmium and its compounds in products, there are several regulations on maximum levels of cadmium contamination in articles. Prohibited is: a) Manufacture and import of zinc-plated articles with a cadmium content higher than 250mg/kg zinc; b) Supply of commercial fertilisers containing more than 1% phosphorous with a cadmium content higher than 50g/tonne phosphorous. Special provision apply to antiques and to articles for which no replacement is available (enumerated in a list) Bioaccumulation, high toxicity. (Reference: (CHEOE) Ordinance relating to Environmentally Hazardous Substances, Annex, 4.5,4.11,4.12, , 09 June 1986)
DEU	1 Apr 1986	Cadmium compounds are prohibited for use as plant protectants. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
GBR	1965	Applies to cadmium compounds such as cadmium chloride or cadmium carbonate. Withdrawal of all pesticidal uses in agriculture, horticulture and home gardening because evidence showed that these compounds could be carcinogenic. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 16, , 1965)
PAN	Sep 1987	Cadmium compounds: import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SLO	13 Jun 1997	Cadmium compounds are banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA		The substance has been voluntarily withdrawn by the registrant. In August 1978, EPA cancelled all uses of cadmium pesticides on home lawns and golf course fairways, but permitted use of cadmium chloride on golf course tees and greens to continue under limited conditions. Following review of additional data relevant to use on golf course greens and tees (1989), EPA determined that the risk to applicators was unacceptable. On 11.08.90 the registrant voluntarily cancelled the last remaining registration of cadmium chloride. The control action applies to: Cadmium carbonate (CAS 513-78-0); Cadmium chloride (CAS 10108-64-2); Cadmium sulfate (CAS 10124-36-4); Cadmium oxide (CAS 1306-19-0); Cadmium succinate (CAS 141-00-4). No remaining uses allowed. Chronic exposure to cadmium compounds is associated with carcinogenicity and adverse effects on the kidney. This is based on data from animal studies and human epidemiological studies and human epidemiological studies. Data indicate that potential effects on the kidney that may be associated with chronic exposure to these compounds by applicators/workers involve proteinuria (excess protein in the urine), glucosia (excess glucose in the urine) and other effects. With regard to carcinogenicity, EPA classified cadmium compounds as a probable carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

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IARC MONOGRAPH, 2, 74, 1973
 IARC MONOGRAPH, 11, 39, 1976
 WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
 WHO FOOD ADD., 24, 163, 1989

Legislative or regulation action

Product Name	Cadmium and cadmium compounds	
C.A.S. number	7440-43-9	
	IPCS ENVIRONMENTAL HEALTH CRITERIA, 134, , 1992 IPCS ENVIRONMENTAL HEALTH CRITERIA, 135, , 1992 IARC MONOGRAPH, 58, 119, 1993	
Product Name	Cadmium chloride	
C.A.S. number	10108-64-2	
Scientific and common names, and synonyms	CADMIUM CHLORIDE (CDCL2)	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
GBR	1 Jan 1965	Action applies to cadmium compounds such as cadmium chloride or cadmium carbonate. Withdrawal of all pesticidal uses in agriculture, horticulture and home gardening. Action taken because evidence showed that these compounds could be carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name	Calcium arsenate	
C.A.S. number	7778-44-1	
Scientific and common names, and synonyms	ARSENIC ACID (H3ASO4), CALCIUM SALT (2:3) ARSENIC ACID, CALCIUM SALT (2:3)	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
GBR	1968	Withdrawal of all pesticidal uses in agriculture and horticulture because of high acute toxicity to man, livestock and wild-life, persistence in soil and potential carcinogenicity. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 383, , 1968)
IND	1 Oct 1973	Registration refused. Action taken due to its extremely toxic and hazardous nature and availability of safer and effective substitutes. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Calcium arsenate is prohibited for use as a pesticide because it is carcinogenic and highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1978)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as an agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
USA	14 Feb 1989	The substance has been voluntary withdrawn by the registrant. In June 1988, EPA announced its final determination to cancel registrations and deny applications for all non-wood use pesticide products that contain calcium arsenate, with the exception of the turf herbicidal use of the flowable formulation of calcium arsenate. On 14.02.89, the use of calcium arsenate as a turf herbicide was voluntary cancelled by the registrant. Use in wood treatment was also cancelled. No remaining uses allowed. Calcium arsenate is carcinogenic, mutagenic, and teratogenic. Two main hazards associated with its use are carcinogenicity for mixer/loaders and applicators, and acute toxicity to the general public resulting from accidental exposures. Calcium arsenate is moderately toxic to birds, slightly toxic to fish, and moderately toxic to aquatic invertebrate species. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Calcium arsenate**

C.A.S. number **7778-44-1**

Bibliographical references

WHO TECHNICAL REPORT SERIES, 417, , 1969
WHO FOOD ADD., 69.35, , 1969
IARC MONOGRAPH, 1, 41, 1972
IARC MONOGRAPH, 2, 48, 1973
IARC MONOGRAPH, 23, 39, 1980
IPCS ENVIRONMENTAL HEALTH CRITERIA, 18, , 1981
IARC MONOGRAPH, SUPPL.4, 50, 1982

Product Name **Calcium cyanide**

C.A.S. number **592-01-8**

Scientific and common names, and synonyms

CYANURE DE CALCIUM (FRENCH)
CYANOGLAS
CALSYANIDE
CALCIUM CYANIDE, SOLID (DOT)
RCRA WASTE NUMBER P021
UN 1575 (DOT)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN		Calcium cyanide is prohibited for use as a pesticide because it is highly toxic (applies to cyanplav (black cyanide) - a mixture of calcium cyanide and sodium cyanide. The acting substance is hydrogen cyanide). (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1978)

Product Name **Calcium phosphide**

C.A.S. number **1305-99-3**

Scientific and common names, and synonyms

CALCIUM PHOSPHIDE (CA3P2)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHN	7 Dec 1991	Calcium phosphide has been severely restricted for use as a pesticide. It can be used only on unprocessed grains. Calcium phosphide is highly toxic and persistent. Its use will be harmful to human health. (Reference: (CHNMA) Ministry of Agriculture, , ,)

Product Name **Camphechlor (Toxaphene) ***

C.A.S. number **8001-35-2**

Scientific and common names, and synonyms

CHLORINATED CAMPHENE
DERIV. OCTACHLORADO DE 2,2-DIMETIL-3-METILEN-NORBORNANO
OCTACHLOROCAMPHENE
POLYCHLOROCAMPHENE
POLYCHLORINATED CAMPHENES
POLYCHLOROCAMPHENE

Legislative or regulation action

Product Name **Camphechlor (Toxaphene) ***

C.A.S. number **8001-35-2**

Scientific and common names, and synonyms

TOXAPHENE

TOXAPHENE

TOXAPHEN (DEU)

TOXAFENO (GTM)

TOXAFEEN (NLD)

2,2-DIMETIL-3-METILEN-NORBORNANO CLORADO

2,2-DIMETHYL-3-METHYLENENORBORNANE OCTACHLORO DERIV.

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Oct 1984	It is prohibited to use or place on the market all plant protection products containing toxaphene (camphechlor) as an active ingredient. No remaining uses allowed. Toxaphene (camphechlor) is persistent in the environment. It is likely to bioaccumulate and produce food-chain effect on terrestrial and aquatic organisms. Toxaphene (camphechlor) has been classified by the EC as a category 3 carcinogen (possibly carcinogenic to humans). It is extremely toxic to fish. Directive 83/131/EEC of 14.03.83. (Reference: (OJEC) Official Journal of the European Communities, L91/35, , 09 Apr 1983)
@EC	1 Jan 1988	Member States shall ensure that plant protection products containing this active substance alone or in combination with other active substances listed may neither be placed on the market nor used. OJEC L33,36,1979; OJEC L91,35,1983; OJEC L154,48,1985 (as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L273, 40, 1987)
AUT	20 Feb 1992	All uses banned. A number of studies suggest that this pesticide and related products are carcinogenic in mice and rats, especially for the liver and thyroid. Toxaphene is suspected to have a fetal toxicity and effects on reproduction. A further problem is its high persistence in the environment and its bioaccumulation in the food chain. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BGR		Banned for use in agriculture.
BLZ		Severely restricted. Temporary conditional registration granted for the control of froghoppers in the current rice crop only. Environmental pollutant. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
BLZ		Toxaphene is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
BRA	06 Jun 2000	The chemical is severely restricted. Use as wood preservative allowed under conditions established by Federal Body of Environment and Health. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CAN	1 Jan 1982	Most uses phased out between 1970 and 1980. Registration of last remaining product (for livestock use) was inactivated by the registrant in 1982. Environmental persistence and bioaccumulation of residues. Difficulty in quantifying residues. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHE	1 Sep 1986	Toxaphene (or Champhechlor) is a totally banned chemical: Manufacture, supply, import and use of the substance and products which contain the substance is prohibited (Applies to reactive mixtures of chlorinated camphenes containing 67-69% chlorine). Long persistence, bioaccumulation. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)

Legislative or regulation action

Product Name	Camphechlor (Toxaphene) *	
C.A.S. number	8001-35-2	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
COL	Dec 1974	Sale of organochlorine-containing insecticides in the cultivation of tobacco, either singly or in combination, is prohibited. This restriction is based on standards set by countries importing these agricultural products. (Reference: (RNCOL) Resolution, 447, , 06 Dec 1974)
COL	26 Apr 1988	Only mixtures with methyl parathion are allowed for use on cotton. (Solo se permiten mezclas con metil paration en el algodonero.) Application by aerial spraying on cotton still allowed. (Aplicaciones par via aerea en el algodonero.) The substance's high toxicity requires careful technical management. (Su alta toxicidad requiere un manejo muy technico y cuidadoso.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide (La sustancia esta prohibida para su uso, produccion e importacion como plaguicida). It is a highly toxic and dangerous substance. Known to induce cancer in experimental animals. Proven to be persistent in children and adult population (Es una sustancia de alta toxicadady gran peligrosidad. Se conoce la induccion al cancer en especies experimentales. Su persistencia se ha demostrado en poblicaion infantil y adulta). (Reference: (CUBMSP) Ministro de Salud Publica, , , 1990)
DEU	1 Jan 1978	It is prohibited to apply solutions of 99% purity or more against parasites on horse, cattle, swine, goat and sheep. It is prohibited to apply against parasites on poultry and to apply to the udder of lactating horses, cows, sheep and goats at concentrations exceeding the maximum residue limits (MRLs) set for milk and milk products. (Reference: (BGBL) Bundesgesetzblatt, IS.1136, , 1981)
DEU	1 Feb 1981	Totally banned for use as plant protection product. High persistence; accumulation in food chain; carcinogenic effect in animal experiments; intolerable residues in foodstuffs; drinking water protection; game protection. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DMA		Severely restricted pesticide. (Reference: (DMAPC) Pesticide Control Board, , , 1986)
DNK		Withdrawn from the market and not produced in Denmark. Banned in accordance with EEC Directive 79/117.
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
FIN	1970	Based on information regarding environmental hazards, this product has been banned for sale by the Ministry of Agriculture and Forestry (Resolution 655/69, 1970).
GBR	1 Jan 1984	All uses revoked. No remaining uses allowed. Action taken due to environmental hazard (persistent organochlorine). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IDN	1 Aug 1980	Prohibited to be used for all purposes. No remaining use allowed. The substance causes harmful effects to humans and environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	25 Jul 1989	Banned. Action taken owing to persistence in environment, food and agricultural products. It is also reported to be a possible cause of cancer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1974	Prohibited for use on corn, maize, sorghum and curcubitae due to the compound's slow biodegradation resulting in environmental persistence and the presence of residues on food. Crops treated with this compound should not be fed to cattle.

Legislative or regulation action

Product Name	Camphechlor (Toxaphene) *	
C.A.S. number	8001-35-2	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
KEN	Feb 1987	Total ban of the pesticide. Action taken because of health hazards. (Reference: (KENPC) Decision of the Pest Control Products Board PCPB/CONF/1, , , 02 Feb 1987)
KOR	11 Jun 1986	Sale and use prohibited within the country. Reasons for the control action: protection of human health (its accumulation in the body fat is proportional to food dose) and the environment. (applies to toxaphene and its formulations). (Reference: (KROTS) Ordinance Relating to a Toxic Substance, , , 1986)
KOR	9 Aug 1991	Banned for production, import, use and sale of both this substance and preparations containing it. Action taken because of mutagenic and carcinogenic effects; bioaccumulation of residue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1980	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Interdit en agriculture depuis 1984.) No remaining uses allowed. (Toute utilisation dudit pesticide est interdite.) High toxicity, persistence in the environment and bioaccumulation of residues in the food chain. (Toxicité élevé, persistance dans l'environnement et bioaccumulation des résidus dans la chaîne alimentaire.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MEX	20 Mar 1988	Agricultural use restricted to cotton, maize and sorghum due to high acute toxicity, LD50: 40-283 mg/kg). (Reference: (MEXRI) Registro Interno en la Dirección General de Sanidad y Protección Agropecuaria y Forestal SARH, , ,)
NLD	1 Oct 1984	It is prohibited to sell, stock, store or use all pesticides containing camphechlor as active ingredient. Pesticides containing camphechlor are prohibited because camphechlor accumulates in the food chain, is highly persistent in the environment, has shown to be carcinogenic in test animals; although no human data are available, it is reasonable to regard camphechlor as if it presented a carcinogenic risk to humans. This decision was taken by the ministers responsible for the authorization of pesticides in the Netherlands in 1968. It was enforced by Directive 83/131/EEC of the European Communities published in OJEC L91/35, 9.4.1983.
NZL		Voluntarily withdrawn from the market.
PAK	1 Jan 1982	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
PHL		Banned for use and/or sale.
POL		Very limited application to control field voles in orchards only. (Reference: (POLIP) Instytut Przemysłu Organicznego, , , 1987)

Legislative or regulation action

Product Name		Camphechlor (Toxaphene) *
C.A.S. number		8001-35-2
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Camphechlor is severely restricted for use as a pesticide. It is permitted for control of grey weevil on sugar beets and to protect the seeds of perennial grasses. The restrictions are due to high toxicity, persistency and volatility, as well as its mutagenic, carcinogenic potential and due to its recorded cases of human poisoning. (Applies to chlorinated camphene of variable compositions). (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)
THA	2 May 1995	All use categories have been banned. Possibly carcinogenic to humans. Persistence. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
TUR		For reasons of health risks and environmental impact, this product has been severely restricted and is currently used against a very limited number of pests.
USA	1 Jul 1987	Camphechlor (Toxaphene) is banned for use. In 1977, EPA initiated a special investigation into the health effects of camphechlor. In October 1982, most uses were cancelled because of potential effects on man and non- target species. A small number of uses were retained under specific restrictions and limited conditions. These uses were all subsequently cancelled in July 1987. No remaining uses allowed. Toxaphene was linked to acute oral toxicity and carcinogenicity in humans, population reductions of non-target species, acute toxicology to aquatic organisms, and chronic and/or delayed effects to aquatic, avian, and mammalian species. In addition, toxaphene bioaccumulates. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of attasex and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)
YUG	1972	Severely restricted, used only for control of certain pestilent insects at the time of efflorescence of fruit trees and rapeseed and as a rodenticide for controlling small rodents in orchards and nurseries. Now the product has been withdrawn. These measures were taken because of its marked persistence in the environment.
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WHO PESTICIDE RESIDUES SERIES, 3, , 1974		
IARC MONOGRAPH, 20, 327, 1979		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 45, , 1984		
IPCS HEALTH AND SAFETY GUIDE, 40, , 1990		

Product Name **Captafol ***

C.A.S. number **2425-06-1**

Scientific and common names, and synonyms

N-(TETRACHLOROETHYLTHIO)TETRAHYDROPHthalIMIDE
 N-(TETRACHLOROETHYLTHIO)TETRAHYDROPHthalIMIDE
 N-(1,1,2,2-TETRACHLOROETHYLTHIO)-DELTA.4-4TETRAHYDROPHthalIMIDE
 N-(1,1,2,2-TETRACHLOROETHYLTHIO)-DELTA-4-TETRAHYDROPHthalIMIDE
 N-((1,1,2,2-TETRACHLOROETIL)TIO)-4-CICLOHEXENO-1,2-DICARBOXIMIDA
 N-((1,1,2,2-TETRACHLOROETHYL)THIO)-4-CYCLOHEXENE-1,2-DICARBOXIMIDE
 ST ARBORSEAL
 TETRACHLOROETHYLTHIOTETRAHYDROPHthalIMIDE
 TETRACHLOROETHYLTHIOTETRAHYDROPHthalIMIDE
 1H-ISOINDOLE-1,3(2H)-DIONE, 3A,4,7,7A-TETRAHYDRO-2-((1,1,2,2-TETRACHLOROETHYL)THIO)-
 3A,4,7,7A-TETRAHYDRO-2-((1,1,2,2-TETRACHLOROETHYL)THIO)-1H-ISOINDOLE-1, 3(2H)-DIONE
 4-CYCLOHEXENE-1,2-DICARBOXIMIDE,N-((1,1,2,2-TETRACHLOROETHYL)THIO)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1990	The placing on the market and use of all plant protection products containing captafol as an active ingredient is prohibited. No remaining uses allowed. Use of captafol as an active ingredient is prohibited. No remaining uses allowed. Use of captafol in plant protection products is likely to give rise to harmful effects on human and animal health. Captafol has been classified by the EC as a category 2 carcinogen (probably carcinogenic to humans). Directive 90/533/EEC of 15.10.90. (Reference: (OJEC) Official Journal of the European Communities, L296/63, , 27 Oct 1990)
ANG		Banned for use. No remaining uses allowed. The substance is banned for health and environmental reasons (toxicity). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ARG	16 Oct 1990	Import, production, formulation, sale and use of products for agricultural use containing this active ingredient are banned. The National Register of Plant Protection will cancel the registrations of formulated products for agricultural use containing this active ingredient. (Prohíbe la importación, fabricación, fraccionamiento, comercialización y uso de productos de aplicación agrícolas formulados a base de este principio activo. El Registro Nacional de Terapeutica Vegetal procederá a cancelar las inscripciones de todos los productos de uso agrícola formulados a base de este principio activo.) Protection of human health and environment. Carcinogenicity. (Protección de la salud humana y el medio ambiente. Por efectos carcinogénicos.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUS		All uses cherries, nectarines, peaches, apples, peanuts, pineapples and tomatoes have been cancelled. No remaining uses allowed. Evidence of tumour induction in mice and mutagenicity in a number of test systems. (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, , , 1985)
AUT	20 Feb 1992	All uses banned. Carcinogenic (liver and gastrointestinal tumors) and reproductive effects (effects on fertility, embryo or fetus, newborn, specific developmental abnormalities) in experimental animals. Furthermore the pesticide is reported to be mutagenic. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , , 1992)
BRA	28 Apr 1989	The chemical captafol and its formulations are severely restricted to protect users, non-target species and the environment. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
COL	7 Dec 1989	The substance is banned for use. (Prohibición total de uso.) No remaining uses allowed.

Legislative or regulation action

Product Name		Captafol *
C.A.S. number		2425-06-1
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
		(Ninguno.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CYP	31 Mar 1989	Banned for all use as a pesticide. No remaining uses allowed. Captafol is carcinogenic for rats and mice. It may be a potential human carcinogen. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1989)
DEU	1 Sep 1988	Totally banned for use as plant protection product. Carcinogenic effect in animal experiments. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIJ	1 Jan 1987	Banned for all use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GAM	17 Feb 1997	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	31 Oct 1990	All uses revoked under the Control of Pesticides Regulations. Action taken due to evidence of carcinogenicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
HUN	30 Jul 1988	Banned pesticide. Banned for all agricultural use. No remaining uses allowed. Carcinogenic to both rats and mice. Assumed to be a potential human carcinogen. (Reference: (HUNODW) Official Document of Withdrawal, 22984, , 1987)
KOR	25 Feb 1981	Due to irritation to eye and skin, users should wear suitable protective equipments. Pre-harvest intervals were established for the safe use of this product. Irritative effect on eye and skin. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1985	Banned for use as a pesticide. No remaining uses allowed. Action taken because more safe alternatives are available. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LKA	26 Jan 1989	Captafol is banned for use as a pesticide. No remaining uses allowed. The control action is based on carcinogenicity proven in rats and maice as per WHO/IPCS/89. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, (33) item 6.b, , 25 Jan 1989)
NLD	21 May 1986	It is prohibited to sell, stock, store or use all pesticides containing captafol as active ingredient. Pesticides containing captafol are prohibited because there is sufficient evidence that on the basis of chronic-oral studies on mice and rats, captafol has to be considered as a carcinogenic substance with initiating properties. Possible carcinogenic effects to humans at low exposure levels cannot be excluded. (Reference: (NLDDC) Ministerial Order Decree of the Ministry of Agriculture and Fisheries, J2621, 21.5, 1986)
NOR		Registration for this product has been withdrawn since the available data was not considered sufficient for registration purposes. Retailers are required to return existent stocks to the importer.
NZL	1 Aug 1989	Captafol is a severely restricted pesticide. Voluntary withdrawal of most uses and products. One tree wound dressing formulation containing 10g/kg captafol in a petroleum wax base remains allowed. Existing use is less than 1% of previous uses. Human health reasons (possible carcinogen, teratogenicity). (Reference: (NZLPBM) Pesticides Board Minutes, , , 1989)

Legislative or regulation action

Product Name **Captafol ***

C.A.S. number **2425-06-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
PAK	1 Jan 1992	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	All use categories have been banned. Probably carcinogenic to humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
URT	25 Mar 1986	Total ban on use. Action was taken because of the substance's carcinogenicity. (Reference: (TZAPAR) 4th Pesticides Approval and Registration Technical Committee, , , 1986)
USA	15 May 1987	The substance has been voluntary withdrawn by the registrant. In January 1985 EPA initiated a special investigation of captafol. Subsequent to the initiation of the investigation, the registrants voluntary cancelled their registrations, effective as of 15.05.87. No remaining uses allowed. Captafol is: oncogenic in rats and mice; highly toxic to fish; a skin sensitizer (incidents of farmworkers being disabled from its effects have been reported); moderately to very highly toxic to freshwater invertebrates; found to have strong potential for reproductive effects in birds; found to cause potential problems related to endangered species. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

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FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 27, 1990
IPCS HEALTH AND SAFETY GUIDE, 49, , 1990

Product Name **Captan**

C.A.S. number **133-06-2**

Scientific and common names, and synonyms

7A-TETRAHYDROPHTHALIMIDE
N-TRICHLOROMETHYLTHIOTETRAHYDROPHTHALIMIDE
N-TRICHLOROMETHYLTHIOCYCLOHEX-4-ENE-1,2-DICARBOXIMIDE
N-TRICHLOROMETHYLTHIO-CIS-DELTA(SUP 4)-CYCLOHEXENE-1,2-DICARBOXIMIDE
N-TRICHLOROMETHYLTHIO-3A,4,7,7A-TETRAHYDROPHTHALIMIDE
N-TRICHLOROMETHYLMERCAPTO-4-CYCLOHEXENE-1,2-DICARBOXIMIDE
N-(TRICHLOROMETHYLTHIO)-4-CYCLOHEXENE-1,2-DICARBOXIMIDE
N-(TRICHLOROMETHYLMERCAPTO)-DELTA(SUP 4)-TETRAHYDROPHTHALIMIDE
N-((TRICHLOROMETHYL)THIO)TETRAHYDROPHTHALIMIDE
N-((TRICHLOROMETHYL)THIO)-4-CYCLOHEXENE-1,2-DICARBOXIMIDE
1H-ISOINDOLE-1,3(2H)-DIONE, 3A,4,7,7A-TETRAHYDRO-2-((TRICHLOROMETHYL)THIO)-

Legislative or regulation action

Product Name **Captan**

C.A.S. number **133-06-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS		Severely restricted. Uses on fruit, vegetable, berries, ornamentals and turf have been cancelled. Small use for seed treatment of peanuts and navy beans remains registered. Evidence of tumour in mice and mutagenic in a variety of assays. (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, 36, , 1985)
DNK	1 Aug 1998	All authorisations for products containing captan as an active substance have been withdrawn from the market 31 December 1997 and a further use has been banned from 1 August 1998. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Captan is assessed to be carcinogenic in category 3 (cars., cat 3). Two of the formulated products are furthermore seriously eye damaging (R41). Captan is toxic to aquatic organisms and - when applied in the high dose rate - toxic to birds and earthworms. Products containing captan are therefore considered to be seriously damaging to health and to the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIJ		Banned for use. No remaining uses are allowed. Potential carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	1972	The license for this product has not been renewed by the Plant Protection Agency owing to evidence that the substance is carcinogenic.
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it. Permitted in agricultural chemicals. Action taken due to risks of mutagenic and carcinogenic effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1993	Severely restricted for use as a pesticide. Remaining minor use is for soil treatment in nurseries only. More safe alternatives are available. Awaiting data/data is under review by EPA. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	1 Jan 1991	Withdrawn by manufacturer because of labelling requirements (warning of carcinogenicity). Warning of carcinogenicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	10 Mar 1988	The substance was prohibited for use in home gardens from 1981. The substance was severely restricted from 1988. Formulations containing captan were reassigned to Class 1 - may only be used professionally by someone holding a special permit. The waiting period was extended to 42 days. Use is only allowed against fungi on fruit trees. Edible parts may not be sprayed later than 42 days before harvest. Quantities sold in Sweden have been substantially reduced since 1988. Increased tumour incidence in mice. The substance has been classified as carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

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Legislative or regulation action

Product Name **Carbaryl**

C.A.S. number **63-25-2**

Scientific and common names, and synonyms

ALPHA-NAPHTHYL N-METHYLCARBAMATE
 CARBAMIC ACID, METHYL-, 1-NAPHTHYL ESTER
 METHYLCARBAMATE 1-NAPHTHOL
 N-METHYL-ALPHA-NAPHTHYLURETHAN
 N-METHYL-ALPHA-NAPHTHYLCARBAMATE
 N-METHYL-1-NAPHTHYL CARBAMATE
 1-NAPHTHALENOL, METHYLCARBAMATE
 1-NAPHTHYL N-METHYLCARBAMATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ANG	19 Aug 1990	The control action applies to the product Sevin 25 ULV. Banned for use. No remaining uses allowed. The substance is banned for health and environmental reasons (toxicity). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ANG	19 Aug 1990	The control action applies to the product Sevin 5 PP. Banned for use. No remaining uses allowed. The substance is banned for health and environmental reasons. It is toxic and contaminates the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUT	1 Jan 1993	All uses banned. Mutagenic and teratogenic potential, highly dangerous to human health and environment. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
DEU	1 May 1986	Totally banned for use as plant protection product. Threatens of bees in hives and bee broods cause of poisoning effect in the stomach via contaminated pollen and nectar. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JOR	01 May 1993	The chemical is banned. It is prohibited to place on the market or use plant protection products containing Carbaryl. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
KOR	25 Feb 1981	Pre-harvest intervals were established for the safe use of this product. Action taken because of health risk and environmental impact. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Carbaryl is severely restricted for use as a pesticide because it is gonadotoxic, embryotoxic, mutagenic, persistent, causes impaired reproductive function and is likely to form the carcinogen n-nitrosocarbaryl. It may be used on cotton plants only during outbreaks of boll worm. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)
SWE	1 Jan 1991	Banned for use as a pesticide. No remaining uses allowed. The substance was suspended due to its mutagenicity and suspected carcinogenicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

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 IPCS ENVIRONMENTAL HEALTH CRITERIA, 153, , 1994

Product Name **Carbendazim**

C.A.S. number **10605-21-7**

Scientific and common names, and synonyms

Legislative or regulation action

Product Name **Carbendazim**

C.A.S. number **10605-21-7**

Scientific and common names, and synonyms

CARBAMIC ACID, 1H-BENZIMIDAZOL-2-YL-, METHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1988	The substance was prohibited for use in home gardens and as a wood preservative in 1982. In 1988 all formulations containing carbendazim were reassigned to Class 1 - May only be used professionally by someone holding a special permit. Use is only allowed against fungi on winter cereals (one treatment only per crop with carbendazim and/or thiophanate-methyl). There is evidence of genetic and foetal disturbances in experimental animals, and increase in tumour incidence in mice. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Carbofuran**

C.A.S. number **1563-66-2**

Scientific and common names, and synonyms

7-BENZOFURANOL, 2,3-DIHYDRO-2,2-DIMETHYL-, METHYLCARBAMATE

CARBAMIC ACID, METHYL-, 2,3-DIHYDRO-2,2-DIMETHYL-7-BENZOFURANYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	Soil applied only. Extreme toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CAN	1 Jan 1989	Use of granular formulations discontinued in 1998. Liquid formulation continues to be registered for use on a variety of crops. Banned use of all formulations of carbofuran within a minimum of 250m of a burrowing owl nest. Established a buffer zone with a 250m radius. This restriction was on area of application only and not on label uses. Exposure of burrowing owl population to carbofuran is shown to result in a 17% reduction in brood size and a 27% reduction in nesting success relative to all burrows exposed to any insecticide other than carbofuran. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHN	5 Jun 1982	The following uses of carbofuran are prohibited: 1) on vegetables, tea, fruit trees and herbs; 2) against insects harmful to health of humans and animals; 3) for rat control except when formulated as a rodenticide. Carbofuran is only permitted as a seed dressing in ditches or in the form of powder for the treatment of soil; it must be applied with an appropriate tool or gloves. It is prohibited as a spraying agent. These measures were taken because carbofuran is a highly toxic substance and its use is harmful to human health. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), No.5,)
KWT	1 Jan 1993	Severely restricted for use as a pesticide. Remaining minor use is for soil treatment with granules. Use for soil treatment constitutes a minor part of previously allowed uses. Action was taken because the substance is highly toxic; more safe alternatives available; awaiting data/data is under review by EPA. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIY		Carbofuran is banned. No remaining uses allowed. Control action is based on the information received from FAO. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1 Sep 1994	The substance is severely restricted for use. After review in Sept. 1985 of granular formulations of carbofuran because of concern for risk to avian species, EPA proposed in Jan. 1989 to cancel all uses of granular carbofuran. Agreement was reached to phase-

Legislative or regulation action

Product Name **Carbofuran**

C.A.S. number **1563-66-2**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
		<p>out most uses over four years from 01.09.91. Virtually all uses will be cancelled nationwide by 31.08.94. From 01.09.94 granular carbofuran will be labeled for domestic use on only 5 crops: bananas in Hawaii, cucurbits (pumpkins, cucumbers, watermelons, cantaloupes, and squash), dry-harvested cranberries, pine progeny tests and spinach grown for seed. The amount of granular carbofuran allowed to be produced for domestic use after 31.08.94 will be limited to no more than 2,500 pounds per year. Carbofuran use for spinach grown for seed and pine tree progeny tests are exempt from the prohibition in Washington and Oregon. Remaining uses are a minor portion of those which were previously approved. . Based on laboratory and field data, EPA has concluded that granular carbofuran is acutely toxic to birds. A single granule may kill a small bird. Birds are expected to be present at the time of carbofuran application. Over 80 reported bird-kill incidents attributed to granular carbofuran use have occurred in several crops throughout the country. One of these kills involved over 2,000 birds of various types. Dietary exposure occurs from direct ingestion of granules and exposure from ingestion of contaminated soil invertebrates such as earthworms. Predatory birds can be secondarily exposed to carbofuran by feeding on contaminated vertebrates such as small birds. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
<p>Bibliographical references</p> <p>IPCS ENVIRONMENTAL HEALTH CRITERIA, 63, , 1986</p> <p>FAO PLANT PRODUCTION & PROTECTION PAPER, 111, 43, 1991</p> <p>FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART1), 211, 1992</p> <p>FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 23, 1993</p> <p>FAO PLANT PRODUCTION & PROTECTION PAPER, 124, 59, 1993</p>		

Product Name **Carbon disulfide**

C.A.S. number **75-15-0**

Scientific and common names, and synonyms

CARBON DISULFIDE

CARBONIO (SOLFURO DI) (ITA)

CARBONE (SULFURE DE) (FRA)

CARBON SULFIDE

CARBON BISULPHIDE

CARBON BISULFIDE

DITHIOCARBONIC ANHYDRIDE

KOOLSTOFDISULFIDE (ZWAVELKOOLSTOF) (NLD)

KOHLendisulfid (SCWELKOHLENSTOFF) (DEU)

SULPHOCARBONIC ANHYDRIDE

SCHWELKOHLENSTOFF (DEU)

WEGLA DWUSIARCZEK(POL)

WEEVILTOX

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	<p>All uses banned. High acute human toxicity. The pesticide has been shown to be fetotoxic in test animals.</p> <p>(Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)</p>
BLZ	17 Sep 1988	<p>The substance is banned for use. No uses still allowed. Hazardous by explosion of gas-</p>

Legislative or regulation action

Product Name **Carbon disulfide**

C.A.S. number **75-15-0**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
		forming liquid; uses the carcinogen CC14. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CAN	1 Jan 1984	Suspended/banned. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DEU	11 Aug 1993	Totally banned for use as plant protection product. Harmful effects on environment and soil (high leaching potential). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MAR	10 Jan 1969	The use of the substance is restricted. Treatment only in special fumigation installations. (Traitement uniquement dans les chambres de fumigation agréées.) Use still allowed for treatment of food stocks. (Traitement des denrées stockées.) High toxicity and inflammability. (Produit très toxique et très inflammable.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL		Not considered for registration as a pesticide.
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PHL		Prohibited for use except by certified fumigators. Adequate time for aeration is required after treatment before treated commodities are processed into food or feed.
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Bibliographical references		
WHO PESTICIDE RESIDUES SERIES, 1, , 1972		
WHO TECHNICAL REPORT SERIES, 502, , 1972		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 10, , 1979		
FAO PLANT PRODUCTION & PROTECTION PAPER, 72/1, , 1985		

Product Name **Carbon tetrachloride**

C.A.S. number **56-23-5**

Scientific and common names, and synonyms

BENZINOFORM
CZTEROCHLOREK WEGLA (POL)
CARBON CHLORIDE
METHANE, TETRACHLORO-
METHANE, TETRACHLORO
METHANE TETRACHLORIDE
PERCHLOROMETHANE
TETRACLORURO DI CARBONIO (ITA)
TETRACHLORURE DE CARBONE (FRA)
TETRACHLOROMETHANE
TETRACHLOROCARBON
TETRACHLORMETHAN (DEU)
TETRACHLORKOHLSTOFF, TETRA (DEU)
TETRACHLOORMETAAN
TETRACHLOORKOOLSTOF (NLD)

Legislative or regulation action

Product Name **Carbon tetrachloride**

C.A.S. number **56-23-5**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	Banned for use as a pesticide (since 10.02.1992) and as an industrial chemical (since 01.01.1993). Use is still allowed for analytical and research purposes. High ozone depleting potential (ODP=1,1; listed in Annex B of the Montreal Protocol). Furthermore it is extremely toxic by inhalation and in contact with skin and has a high liver injuring potential. There is sufficient evidence for carcinogenicity to animals. Beyond this the substance is suspected to have a potential for cancer in humans (List 1 of the EPA). (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
CAN	31 Dec 1985	Carbon Tetrachloride banned for use as a pesticide since February 1984 due to ozone depleting effects. Some uses remain for industry: essential purpose, feedstock and analytical standard. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBl) Bundesgesetzblatt, IS.363, , 1986)
KOR	9 Aug 1991	Banned for production, import, and sale of both carbon tetrachloride and preparations containing it for use as insecticide around residential quarter. Action taken due to high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL		Not considered for registration as a pesticide.
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PHL		Prohibited for use except by certified fumigators. Adequate time for aeration is required after treatment before treated commodities are processed into food or feed.
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1 Jan 1987	The substance is banned for use as a pesticide. In October 1980, EPA began a special investigation into the effects of exposure to carbon tetrachloride, because of concerns of carcinogenicity and effects on the liver and kidney. By 1987, all products containing carbon tetra-chloride for use as a fumigant had been cancelled voluntarily or by administrative action by EPA. Use on museum specimens has also been cancelled. No remaining uses allowed. The control action applies only to use as a pesticide. (Industrial use is regulated separately, see control action for Freon 11, CAS 75-69-4) Carbon tetrachloride is toxic to humans and animals following inhalation, ingestion or dermal exposure. The central nervous system, liver, and kidneys are primarily affected as a result of acute and subchronic exposure exposure. There is also evidence of sciatic nerve, optic nerve, and ocular muscle damage. The substance is documented as a carcinogen in rats, mice, and hamsters, and is a probable human carcinogen. In addition, presence of carbon tetrachloride in the atmosphere may contribute to the breakdown of the ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 1, 53, 1972
 IARC MONOGRAPH, 20, 371, 1979
 FAO PLANT PRODUCTION & PROTECTION PAPER, 20 SUP., , 1979
 IARC MONOGRAPH, SUPPL.4, 74, 1982
 WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
 FAO PLANT PRODUCTION & PROTECTION PAPER, 72/1, , 1985

Legislative or regulation action

Product Name **Carbophenothion**

C.A.S. number **786-19-6**

Scientific and common names, and synonyms

CARBOFENOTHION (NLD)
 DIETHYL PHOSPHOROTHIOLOTHIONATE
 DITHIOPHOSPHATE DE O,O-DIETHYLE ET DE (4-CHLORO-PHENYL)
 DITHIOPHOSPHATE DW O,O-DIETHYLE ET DE (4-CHLORO-PHENYL) THIOMETHYLE (FRA)
 O,O-DIETHYL-S-(P-CHLOROPHENYLTHIOMETHYL) PHOSPHORODITHIOATE
 O,O-DIAETHYL-S-((4-CHLOR-PHENYL-THIO)-METHYL)OITHIOPHOSPHAT (DEU)
 O,O-DIETHYL DITHIOPHOSPHORIC ACID P-CHLOROPHENYLTHIOMETHIOMETHYL ESTER
 O,O-DIETHYL DITHIOPHOSPHORIC ACID P-CHLOROPHENYLTHIOMETHYL ESTER
 O,O-DIETHYL S-(P-CHLOROPHENYLTHIOMETHYLTHIOMETHYL) PHOSPHORODITHIATE
 O,O-DIETHYL S-(P-CHLOROPHENYLTHIOMETHYLTHIOMETHYL) PHOSPHORODITHIOATE
 O,O-DIETHYL-S-(4-CHLOROPHENYLTHIOMETHYL) DITHIOPHOSPHATE
 O,O-DIETHYL-S-P-CHLOROPHENYLTHIOMETHYL DITHIOPHOSPHATE
 O,O-DIETHYL-S-((4-CHLORO-FENIL-TIO)-METILE)-DITIOFOSFATO (ITA)
 O,O-DIETHYL-S-(4-CHLOOR-FENYL-THIO)-METHYL-DITHIOFOSFAAT (NLD)
 PHOSPHORODITHIOIC ACID, S-[[[(4-CHLOROPHENYL)THIO]METHYL] O,O-DIETHYL ESTER
 PHOSPHORODITHIOIC ACID, S-(((P-CHLOROPHENYL)THIO)METHYL) O,O-DIETHYL ESTER
 S-((P-CHLOROPHENYLTHIO)METHYL) O,O-DIETHYL PHOSPHORODITHIOATE
 S-(4-CHLOROPHENYLTHIOMETHYL)
 S-(4-CHLOROPHENYLTHIOMETHYL)DIETHYL PHOSPHOROTHIOLOTHIONATE
 S-(P-CHLOROPHENYL)THIOMETHYL O,O-DIETHYL ESTER PHOSPHORODITHIOIC ACID
 THIOMETHYLE (FRA)
 TRITHION

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHN		Carbophenothion has been banned for registration, production, sale and use as a pesticide. No remaining uses are allowed. The chemical has never been produced and used as a pesticide. Carbophenothion is highly toxic. Its use as a pesticide will produce severely harmful effects to human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	1 Oct 1973	Registration refused. Action taken in view of its toxicity to human beings and animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 Feb 1990	Registration withdrawn because of its soil residue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1985	Banned for use as a pesticide. No remaining uses allowed. Cancelled by EPA. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 61, , 1983
 FAO PLANT PRODUCTION & PROTECTION PAPER, 56, , 1984

Product Name **Carbosulfan**

C.A.S. number **55285-14-8**

Scientific and common names, and synonyms

CARBAMIC ACID, [(DIBUTYLAMINO)THIO]METHYL-, 2,3-DIHYDRO-2,2-DIMETHYL-7-BENZOFURANYL ESTER
 CARBAMIC ACID, ((DIBUTYLAMINO)THIO)METHYL-, 2,2-DIMETHYL-2,3-DIHYDRO-7- BENZOFURANYL ESTER

Legislative or regulation action

Product Name **Carbosulfan**

C.A.S. number **55285-14-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	Severely restricted. Mechanical seed treatment only. Extremely toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
Bibliographical references		
FAO PLANT PRODUCTION & PROTECTION PAPER, 78/2, 3, 1986		
FAO PLANT PRODUCTION & PROTECTION PAPER, 111, 44, 1991		
FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART1), 213, 1992		
FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 24, 1993		
FAO PLANT PRODUCTION & PROTECTION PAPER, 124, 63, 1993		

Product Name **Chloralhydrate**

C.A.S. number **302-17-0**

Scientific and common names, and synonyms

AQUACHLORAL
BI 3411
CHLORALDURAT
DORMAL
FELSULES
HS
HYDRAL
HYDRATE DE CHLORAL
KESSODRATE
LORINAL
NYCOTON
NORTEC
NOCTEC
NYCTON
PHALDRONE
RECTULES
SOMNOS
SONTEC
SOMNI SED
SK-CHLORAL HYDRATE
TRAWOTOX
TRICHLORACETALDEHYD-HYDRAT (GERMAN)
TRICHLOROACETALDEHYDE HYDRATE
TRICHLOROACETALDEHYDE MONOHYDRATE
TOSYL

Legislative or regulation action

Product Name **Chloralhydrate**

C.A.S. number **302-17-0**

Scientific and common names, and synonyms

1,1-ETHANEDIOL, 2,2,2-TRICHLORO- (9CI)

1,1-ETHANEDIOL, 2,2,2-TRICHLORO-

2,2,2-TRICHLORO-1,1-ETHANEDIOL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NLD	1 Nov 1988	It is prohibited to sell, stock, store or use all pesticides containing chloralhydrate as active ingredient. Reasons for the control action: main metabolite of chloralhydrate is TCA which leaches into groundwater. TCA is prohibited. (Reference: (NLDRC) Letter of the Registration Committee, , , 1985)
NLD	01 Nov 1988	The chemical is banned. It is prohibited to sell, stock, store or use chloral hydrate as a pesticide. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Chloralose**

C.A.S. number **15879-93-3**

Scientific and common names, and synonyms

CHLORALOSE, ALPHA-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ISR	1976	Use and sale banned without a permit. (Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 2224, 89, 1967)

Product Name **Chloramphenicol**

C.A.S. number **56-75-7A**

Scientific and common names, and synonyms

AUSTRACOL

ACETAMIDE, 2,2-DICHLORO-N-(BETA-HYDROXY-ALPHA-(HYDROXYMETHYL)-P-NITROPHENETHYL)-

ALFICETYN

AMBOFEN

AMPHENICOL

AMPHICOL

AMSECLOR

ANACETIN

AQUAMYCETIN

AUSTRACIL

ACETAMIDE, 2,2-DICHLORO-N-(2-HYDROXY-1-(HYDROXYMETHYL)-2-(4- NITROPHENYL)ETHYL)-, (R-(R*,R*))

BIOCETIN

BIOPHENICOL

CIPLAMYCETIN

COMYCETIN

CHLOROCOL

Legislative or regulation action

Product Name **Chloramphenicol**

C.A.S. number **56-75-7A**

Scientific and common names, and synonyms

CHLOROJECT L
CHLOROMAX
CHLOROMYCETIN
CHLORONITRIN
CHLOROPTIC
CHLOROVULES
CIDOCETINE
CLORAMFICIN
CLORAMICOL
CLORAMIDINA
CLOROAMFENICOLO (ITALIAN)
CLOROCYN
CHLOROCIDIN C
CLOROSINTEX
CHLOROCIDE
CPH
CYLPHENICOL
CLOROMISAN
CHEMICETINA
CAF
CAM
CAP
CHLOROCIDIN C TETRAN
CHEMICETIN
CHLOROCID S
CHLOMIN
CHLOMYCOL
CHLORA-TABS
CHLORAMEX
CHLORAMFICIN
CHLOROCAPS
CATILAN
CHLORAMFILIN
CHLOROCID
CHLOROAMPHENICOL
CHLORO-25 VETAG
CHLORNITROMYCIN
CHLORICOL
CHLORASOL
CHLORAMSAAR
CHLORAMPHENICOL
D-(-)-THERO-1-P-NITROPHENYL-2-DICHLORACETAMIDO-1,3PROPANEDIOL
D-THERO-N-(1,1'-DIHYDROXY-1-P-NITROPHENYLISOPROPYL)DICHLOROACETAMIDE
DEXTROMYCETIN
DETREOMYCINE
DESPHEN

Legislative or regulation action

Product Name**Chloramphenicol****C.A.S. number****56-75-7A****Scientific and common names, and synonyms**

D-THREO-N-DICHLOROACETYL-1-P-NITROPHENYL-2-AMINO-1,3-PROPANEDIOL
DOCTAMICINA
D-THERO-CHLORAMPHENICOL
D-THERO-1-(P-NITROPHENYL)-2-(DICHLOROACETYLAMINO)-1,3-PROPANEDIOL
D-CHLORAMPHENICOL
D-(-)-THREO-2-DICHLOROACETAMIDO-1-P-NITROPHENYL-1,3-PROPANEDIOL
D-(-)-THERO-CHLORAMPHENICOL
D-(-)-2,2-DICHLORO-N-(BETA-HYDROXY-ALPHA-(HYDROXYMETHYL)-P-NITROPHENYLETHYL)ACETAMIDE
D-(-)-THREO-2,2-DICHLORO-N-(BETA-HYDROXY-ALPHA-(HYDROXYMETHYL))-P-NITROPHENETHYLACETAMIDE
EMBACETIN
EMETREN
ENICOL
ENTEROMYCETIN
ERBAPLAST
ERTILEN
ECONOCHLOR
FARMICETINA
FENICOL
GLOBENICOL
GLOROUS
HALOMYCETIN
HORTFENICOL
ISOPHENICOL
ISOPTO FENICOL
ISMICETINA
I 337A
INTRAMYCETIN
ISICETIN
JUVAMYCETIN
KLOROCID S
KAMAVER
KEMICETINA
KEMICETINE
KLORITA
LROMISIN
LROMISAN
LEVOMYCETIN
LEVOMICETINA
LEUKOMYAN
LEUKOMYCIN
MICOCLORINA
MYCHEL
MYCINOL
MICROCETINA
MICLORETIN
MEDIAMYCETINE

Legislative or regulation action

Product Name **Chloramphenicol**

C.A.S. number **56-75-7A**

Scientific and common names, and synonyms

MASTIPHEN
MICOCHLORINE
NSC 3069
NCI-C55709
NORMIMYCIN V
NOVOCHLOROCAP
NOVOMYCETIN
NOVOPHENICOL
OTOPHEN
OTACHRON
OPHTOCHLOR
OPHTHOCHLOR
OPELOR
OPCLOR
OFTALENT
OLEOMYCETIN
PARAXIN
PENTAMYCETIN
PANTOVERNIL
QUEMICETINA
RIVOMYCIN
ROMPHENIL
SYNTHOMYCETIN
SYNTHOMYCETINE
STANOMYCETIN
SINTOMICETINE R
SINTOMICETINA
SIFICETINA
SEPTICOL
SYNTHOMYCINE
TEVCOCIN
TEVCOSIN
TIFOMYCIN
TIFOMYCINE
TREOMICETINA
U-6062
UNIMYCETIN
VETICOL

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
HUN	1 Jan 1987	Total ban to use as drug for therapeutical purposes in domestic animals producing milk or eggs, because chloramphenicol residues can be detected in the milk and eggs for a relatively long time. Reasons for the control action: chloramphenicol can cause aplastic anaemia in human using it in therapeutical dose. (Reference: (HUNMA) Ministry of Agriculture, Plant Protection and Agrochemical Department, , , 1988)

Legislative or regulation action

Product Name **Chloramphenicol**

C.A.S. number **56-75-7A**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Bibliographical references

IARC MONOGRAPH, 10, 85, 1976
WHO FOOD ADD., 23, 1, 1988

Product Name **Chloranil**

C.A.S. number **118-75-2**

Scientific and common names, and synonyms

P-BENZOQUINONE, 2,3,5,6-TETRACHLORO-
TETRACHLOROQUINONE
2,5-CYCLOHEXADIENE-1,4-DIONE, 2,3,5,6-TETRACHLORO-
2,3,5,6-TETRACHLORO-2,5-CYCLOHEXADIENE-1,4-DIONE
2,3,5,6-TETRACHLORO-1,4-BENZOQUINONE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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AUT	20 Feb 1992	Voluntarily withdrawn by manufacturer (Kwizda) since September 1991. All uses banned as of 20.02.1992. Shown to be tumorigenic in experimental animals (liver tumors). 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
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USA		Voluntary cancellation of all products. (Reference: (FEREAC) Federal Register, 41, 21859, 1976)
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Product Name **Chlorbicyclen**

C.A.S. number **50-13-5**

Scientific and common names, and synonyms

ETHYL-1-METHYL-4-PHENYLPYPERIDINE-4-CARBOXYLATE HYDROCHLORIDE
ETHYL-1-METHYL-4-PHENYLISONIPECOTATE HYDROCHLORIDE
ISONIPECOTIC ACID, 1-METHYL-4-PHENYL-, ETHYL ESTER, HYDROCHLORIDE
ISONIPECAINE HYDROCHLORIDE
N-METHYL-4-PHENYL-4-CARBETHOXYPIPERIDINE HYDROCHLORIDE
1-METHYL-4-PHENYLISONIPECOTIC ACID ETHYL ESTER HYDROCHLORIDE
1-METHYL-4-PHENYL-4-CARBETHOXYPIPERIDINE HYDROCHLORIDE
1-METHYL-4-CARBETHOXY-4-PHENYLPYPERIDINE HYDROCHLORIDE
4-PIPERIDINECARBOXYLIC ACID, 1-METHYL-4-PHENYL-, ETHYL ESTER, HYDROCHLORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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AUT	20 Feb 1992	The substance was voluntarily withdrawn by manufacturer (Hoechst-Austria) since July 1991. All uses banned as of 20.02.1992. Mutagenic and reproductive properties (fetotoxicity, developmental abnormalities). (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
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SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources.
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Legislative or regulation action

Product Name		Chlorbicyclen
C.A.S. number		50-13-5
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
(Reference: (MINHS) Ministry of Health, , , 1983)		
Product Name		Chlordane *
C.A.S. number		57-74-9
Scientific and common names, and synonyms		
CLORDAN (ITA)		
OCTACHLORODIHYDRODICYCLOPENTADIENE		
OCTACHLORO-4,7-METHANOTETRAHYDROINDANE		
OCTACHLORO-4,7-METHANOHYDROINDANE		
1,2,4,5,6,7,8,8-OTTOCHLORO-3A,4,7,7A-TETRAIDRO-4,7-ENDO-METANO-INDANO (ITA)		
1,2,4,5,6,7,8,8-OCTACHLORO-4,7-METHANO-3A,4,7,7A-TETRAHYDROINDANE		
1,2,4,5,6,7,8,8-OCTACHLORO-3A,4,7,7A-TETRAHYDRO-4,7-METHANOINDAN		
1,2,4,5,6,7,8,8-OCTACHLORO-3A,4,7,7A-HEXAHYDRO-4,7-METHYLENEINDANE		
1,2,4,5,6,7,8,8-OCTACHLORO-2,3,3A,4,7,7A-HEXAHYDRO-4,7-METOINDENE		
1,2,4,5,6,7,8,8-OCTACHLOR-3A,4,7,7A-TETRAHYDRO-4,7-ENDO-METHANO-INDAN (DEU)		
1,2,4,5,6,7,8,8-OCTACHLOOR-3A,4,7,7A-TETRAHYDRO-4,7-ENDO-METHANO-INDAAN (NLD)		
1,2,4,5,6,7,10,10-OCTOCHLORO-4,7,8,9-TETRAHYDRO-4,7-METHYLENEINDANE		
4,7-METHANO-1H-INDENE, 1,2,4,5,6,7,8,8-OCTACHLORO-2,3,3A,4,7,7A-HEXAHYDRO-		
4,7-METHANOINDAN, 1,2,4,5,6,7,8,8-OCTACHLORO-3A,4,7,7A-TETRAHYDRO-		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1981	It is prohibited to use or place on the market all plant protection products containing chlordane as an active ingredient. No remaining uses allowed. Chlordane is persistent in the environment. It is likely to bioaccumulate and produce food-chain effects on terrestrial and aquatic organisms. Chlordane has been classified by the EC as a category 3 carcinogen (possibly carcinogenic to humans). (Directive 79/117/EEC of 21.12.78) (Reference: (OJEC) Official Journal of the European Communities, L33/36, , 08 Feb 1979)
@EC	1 Jan 1988	Member States shall ensure that plant protection products containing this active substance alone or in combination with other active substances listed may neither be placed on the market nor used. OJEC L33,36,1979; OJEC L91,35,1983; OJEC L154,48,1985 (as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L273, 40, 1987)
ARG	10 Jun 1969	Prohibited for use on cattle, sheep, goats, swine and horses. (Reference: (ADECG) Argentinian Legislation, Decreto, 2678, ,)
ARG	20 Dec 1971	Prohibited for use in the cultivation, commerce and industrial processing of tobacco. (Reference: (ADISS) Argentinian Legislation, Disposición, 80, , 1971)
ARG	1 Jun 1972	Prohibited for use as an antiweevil agent on seeds and their products intended for human and animal consumption. (Reference: (ADISS) Argentinian Legislation, Disposición, 47, , 1972)
AUS	21 Dec 1987	Importation of the chemical is prohibited unless specifically approved by the Government (21 December 1987). Uses against household, lawn and vegetable pests have been cancelled (dates vary from State to State). Use is still allowed in protection of buildings

Legislative or regulation action

Product Name	Chlordane *	
C.A.S. number	57-74-9	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
		against subterranean termite attack. The persistence of the chemical makes it environmentally unacceptable. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , 1987)
AUT	20 Feb 1992	Voluntarily withdrawn by manufacturers since June 1989. All uses banned as of 20.02.92. Persistence and carcinogenic effects in experimental animals (especially effects on the liver). (Reference: (AUTFLG) Federal Law Gazette, No. 97, , , 1992)
BEL		Use prohibited in agriculture. Still permitted for non-agricultural use against ants. For sale in packages not exceeding 50g of ready-to-use product containing no more than 5% chlordane according to Directive 79/117/EEC.
BGR		Banned for agricultural use.
BLZ	17 Sep 1988	The substance is banned for use. Environmental pollutant. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
BRA	01 Jan 2002	The chemical chlordane and its formulations are severely restricted to protect users, non-target species and the environment. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CAN	1 Jan 1990	All uses except an essential restricted use for subterranean termites were suspended. Reductions in use were made in 1970 and 1977. Discontinued by the registrant in 1990. Persistence in soil and water, difficulty in quantifying residues and problems of toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHE	1 Sep 1986	Totally banned chemical: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited. Long persistence, bioaccumulation. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
CHL	5 Jan 1983	Application of the product to natural or artificial meals used directly or in concentrated form as animal feed is prohibited. Its use is prohibited on seeds, grain etc. This measure was taken to protect public health and the environment. (Reference: (MINAC) Ministry of Agriculture, Crops and Livestock Div. Decision No., 4, , 1985)
CHN	5 Jun 1982	Chlordane has been severely restricted for production and use as a pesticide. Use for control of underground pests remains allowed. Chlordane is highly residual in environment and organism. Its use will produce severely harmful effects to human health and ecological environment. (Reference: (CHNRSU) Regulation on Safe Use of Pesticides, , , 1982)
COL	12 Apr 1988	The substance is banned for use in agriculture. (Prohibición de su uso en la agricultura.) Use for treatment of wood still allowed. (Tratamiento de maderas.) Action taken because of high toxicity and persistence in soil. (Alta toxicidad y persistencia en el suelo.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CYP	18 Feb 1988	Banned for all use as a pesticide. No remaining uses allowed. Control action taken due to information on its detrimental effects on the environment. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1988)
DEU	1 Jan 1978	It is prohibited to apply solutions of 99% purity or more against parasites on horse, cattle, swine, goat and sheep. It is prohibited to apply against parasites on poultry and to apply to the udder of lactating horses, cows, sheep and goats at concentrations exceeding the maximum residue limits (MRLs) set for milk and milk products. (Reference: (BGBL) Bundesgesetzblatt, IS.1136, , 1981)

Legislative or regulation action

Product Name		Chlordane *
C.A.S. number		57-74-9
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
DMA		Severely restricted pesticide. (Reference: (DMAPC) Pesticide Control Board, , , 1986)
DNK		Banned in accordance with EEC-Directive 79/117.
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
FIJ	1 Jan 1985	Banned for all uses. Environmental concern. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	20 Sep 1972	Total ban to use as a pesticide. The control action is based on information regarding the substance's detrimental environmental effects, e.g. bioaccumulation, and evidence of risks to human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GAM	17 May 1994	All uses, are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	31 Dec 1988	All remaining approvals in food storage practice, home kitchen, larder and garden use, agriculture and horticulture use revoked except for use as an earthworm killer in gardens, agriculture and horticulture. Reasons for the control action: as part of the UK's policy to phase out persistent organochlorine pesticides as suitable alternatives become available. (Reference: (NAFEP) Notice of Approval issued under Part III of the Food and Environment Protection Act), (III), , 1985)
IDN	1 Jan 1992	Prohibited to register and use for all purposes. No remaining use allowed. Persistence, bioaccumulation and long life residue in the soil, water, sediment etc. Highly toxic to fresh water fish, aquatic invertebrates and many animals. Potentially carcinogenic to humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IRN	1976	Chlordane is banned for all use. Dermal and inhalation exposure can cause central nervous system effects. Chlordane is genotoxic and suspected of having carcinogenic potential. Long persistence. Highly toxic to fresh water fish and birds. Bioaccumulative. (Reference: (IRNPSB) Pesticides Supervision Board (Ministry of Agriculture), , ,)
ISR	1968	Approved for use only as bait, due to problems of environmental persistence.
JPN	17 Sep 1986	Designated as a "first class specified chemical substance". Without authorization from the Government its manufacture and import are prohibited. Uses other than those specified by Cabinet Order are prohibited. It is prohibited to import specified products containing the substance. These prohibitions are due to the substance's hazardous properties in terms of persistence, bioaccumulative characteristics and chronic toxicity. (Reference: (JPNCO) Japanese Cabinet Order, , , 14 Aug 1979)
KEN	Feb 1987	Total ban of the pesticide. Action taken because of health hazards. (Reference: (KENPC) Decision of the Pest Control Products Board PCPB/CONF/1, , , 02 Feb 1987)
KOR	9 Aug 1991	Banned for production, import, use, and sale of this substance and preparations containing it. Permitted as additive in industrial products. Action taken due to persistence of residue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1988	Banned for use as a pesticide. No remaining uses allowed. Belongs to organochlorine

Legislative or regulation action

Product Name		Chlordane *
C.A.S. number		57-74-9
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		group. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KYR	27 Jun 2001	The chemical is banned. The substance is banned by an order of the Ministry of Health of the ex-USSR and by the Ordinance of the Government of the Kyrgyz Republic. (Reference: (KYROD) , No. 376, , 27 June 2001) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
LKA	1 Jan 1980	Chlordane is a severely restricted pesticide. Agricultural use of Chlordane is banned. Pesticide registered only for non-agricultural purposes. Subterranean treatment for control of termites, or applications for timber treatment are the only uses that remain allowed. Action taken based on control actions reported elsewhere of long persistence of residues in soil and crops. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1980)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Interdit en agriculture depuis 1984.) No remaining uses allowed. (Toute utilisation dudit pesticide est interdite.) High toxicity, persistence in the environment and bioaccumulation of residues in the food chain. (Toxicité élevée, persistance dans l'environnement et bioaccumulation des résidus dans la chaîne alimentaire.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MEX	25 Jun 1988	Agricultural use restricted to maize and sorghum. Reasons for the control action: environmental contamination and health risks for man because of its toxicity. (Reference: (MEXRI) Registro Interno en la Dirección General de Sanidad y Protección Agropecuaria y Forestal SARH, , ,)
MYS		Registration for termite control only in non food crop areas. The substance is highly persistent in the environment and tends to accumulate in the food chain. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	1 Jan 1981	It is prohibited to sell, stock, store or use all pesticides containing chlordane as an active ingredient. Most uses of chlordane have been discontinued in the early 1970s. Pesticides containing chlordane are prohibited because chlordane accumulates in food chains and is highly persistent in the environment. This decision was enforced by Directive 79/117 of the European Communities published in OJEC L33/39, 8.2.1979.
NOR	1 Jan 1968	Chlordane is banned for use as a pesticide. No remaining uses allowed. Action taken because of danger for residues in plant products and persistence in soil. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1 Oct 1992	Withdrawal of all remaining products, registrations cancelled. No uses allowed. Environmental persistence. (Reference: (NZLPBM) Pesticides Board Minutes, , , 1988)
PAK		Prohibited. Never been registered in Pakistan. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4, ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)

Legislative or regulation action

Product Name	Chlordane *	
C.A.S. number	57-74-9	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
PHL	15 Dec 1989	Severely restricted. Use allowed as preconstruction treatment only for termite control. Action taken for safety, health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SLO	22 Feb 1991	This chemical was banned from the use due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1971	Chlordane is banned for use as a pesticide. No remaining uses allowed. Suspended because of its persistence and environmental impact. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	Pesticides for household and public health use containing Chlordane have been banned for importation, exportation, manufacture and handling. Chlordane has been deemed to present an unreasonable risk to man by virtue of its toxicity to non-target organisms and its environmental contamination and persistence in mammalian tissue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
TUR		Banned for sale and/or use due to health risks and environmental impact.
USA	Mar 1978	The Environmental Protection Agency has cancelled all uses except those in the following list: 1) subsurface ground insertion for termite control (to apply to the use of emulsifiable or oil concentrate formulations, for controlling subterranean termites on structural sites such as buildings, houses, barns and sheds noting current control practices); 2) dipping of roots or tops of nonfood plants. Chlordane has been deemed to present an unreasonable risk to man by virtue of its toxicity to non-target organisms and its environmental contamination and persistence in mammalian tissues. EPA has cited the availability of alternative and safer pesticides. (Reference: (FEREAC) Federal Register, 43, 12372, 1978)
USA	24 Oct 1995	The substance is banned for use. In March 1978, EPA cancelled all uses of Chlordane except for termite control. On 01.10.87 EPA accepted the voluntary cancellation of all remaining termiticide treatment products, coming into effect from 05.04.88. A notice signed 05.04.88 announced the cancellation and/or suspension of all remaining chlordane termiticide products and established limitations on sale and use of existing stocks. EPA requested that Velsicol Chemical Corporation voluntarily cancel its two remaining registrations for chlordane, granted in 1978, for "export only"; neither registration, sale nor use authorized in the US. EPA has decided that "export only" registrations are not appropriate. They may have misled purchasers to believe that EPA determined that use of the product would not pose unreasonable adverse effects on the environment if used in the US, when in fact no such determination was made. For this reason, pursuant to the voluntary cancellation order, no person may sell or distribute the existing stocks unless the products comply with the export requirements of section 17. In order to be lawfully sold for export, such products must not state or imply in any way that the products are registered by EPA. On 15.06.95, Velsicol requested voluntary cancellation of their "export only" registration for Velsicol Technical Chlordane - EPA Reg. No. 876-280. EPA granted the request, effective 24.10.95. No remaining uses allowed. Heptachlor and chlordane have caused an increase in liver tumors in animal studies. Evidence of toxicity to the embryo of rats and mice has been demonstrated and the compounds are considered to be probable human carcinogens by EPA. Chlordane and heptachlor are persistent in the environment and accumulate in the fatty tissue of animals, bioaccumulating in the food chain. Residues found in fish, birds and mammals may adversely affect the reproductive systems of these organisms.

Legislative or regulation action

Product Name **Chlordane ***

C.A.S. number **57-74-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
VEN	1983	(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,) The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)
YUG	1972	The use of the product in agriculture was prohibited because of its marked persistence in the environment. In 1982, it was banned for any use.

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Product Name **Chlordecone**

C.A.S. number **143-50-0**

Scientific and common names, and synonyms

DECHLOROTETRACYCLODECANONE
DECACHLOROTETRAHYDRO-4,7-METHANOINDENEONE
DECACHLOROCTAHYDRO-1,3,4-METHENO-2H-CYCLOBUTA (CD)PENTALEN-2-ONE
DECACHLORO-1,3,4,-METHENO-2H-CYCLOBUTA(CD)PENTALEN-2-ONE
KEPONE
OPENTALEN-2-ONE
PERCHLOROPENTACYCLO[5.3.0.0.2,6.O4,8]DECAN-5-ONE
1,3,4-METHENO-2H-CYCLOBUTA[CD]PENTALEN-2-ONE, 1,1A,3,3A,4,5,5,5A,5B,6-DECACHLOROCTAHYDRO-1,3,4-METHENO-2H-CLYCLOBUTA(CD)PENTALEN-2-ONE 1,1A,3,3A,4,5,5A,5B,6
1,3,4-METHANO-2H-CYCLOBUTA(CD)PENTALEN-2-ONE 1,1A,3,3A,4,5,5,5A,5B,6- DECACHLOROCTAHYDRO-1,1A,3,3A,4,5,5A,5B,6-DECACHLORO-OCTAHYDRO-1,3,4-METHENO-2H-CYCLO
1,1A,3,3A,4,5,5,5A,5B,6-DECACHLORO-OCTAHYDRO-1,3,4-METHENO-2H-CYCLO- BUTA(CD)PENTALEN-2-ONE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS	1 Feb 1977	Withdrawn by industry. No remaining uses allowed. Tumours in rats and mice. Nerval abnormalities in man. Sperm toxicity in man. Environmental persistence. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUT	20 Feb 1992	Banned since 01.01.88 in all applications hwere food contact is possible. All uses banned as of 20.02.92. Carcinogenic (liver tumors have been observed)(and

Legislative or regulation action

Product Name		Chlordecone
C.A.S. number		143-50-0
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		reproductive effects in experimental animals and persistent environmental properties. 205th Ordinance on Ban of Certain Dangerous Substances in all applications where food contact is possible. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BEL		Use not authorized in Belgium because of its chronical toxicity (according to Directive 79/117/EEC).
BLZ	28 Dec 1985	Chlordecone is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
DEU	1 Sep 1988	Totally banned for use as plant protection product. Carcinogenic effects in animal experiments; persistence; close chemical relation with Kelevan (breakdown product of Kelevan). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK		Currently not approved and future approval is not intended. Not formulated or manufactured in the country.
GBR	Jul 1977	Withdrawal of all insecticidal uses in food storage practice, home gardens and home kitchens and larders because evidence from animal studies showed that chlordecone was a potential human carcinogen. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 1260, , 1977)
KWT	1 Jan 1975	Banned for use. No remaining uses allowed. Action was taken because better and safer alternative was available. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	1973	It is prohibited to sell, stock, store or use all pesticides containing chlordecone as an active ingredient except for use against tropical ants for which a special permit is needed. Pesticides containing chlordecone are prohibited because chlordecone is persistent in the environment. Decision taken by the ministers responsible for the authorization of pesticides in the Netherlands, 1973. (Reference: (NLDDC) Ministerial Order Decree of the Ministry of Agriculture and Fisheries, , , 1973)
NZL		Not considered for registration as a pesticide.
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	31 Dec 1978	Withdrawn from the market after mutual discussions between the Product Control Board and the importers. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 31 Dec 1978)
THA	2 May 1995	Pesticides for household and public health use containing Chlordecone have been banned for importation, exportation, manufacture and handling. Chlordecone has demonstrated toxic effects, including cancer in experimental rats and mice, which may

Legislative or regulation action

Product Name **Chlordecone**

C.A.S. number **143-50-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	09 May 2000	have significant adverse effects on human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,) The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Possible carcinogenic to humans. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
USA	1 May 1977	Kepone(chlordecone) is banned for use as a pesticide. In March 1976 a special investigation was initiated on the basis of information indicating that occupational exposure to Kepone (chlordecone) had caused serious illness. Inaccessible products were cancelled in two phases in May 1977 and May 1978. Accessible products were cancelled as of December 1977. No remaining uses allowed. Animal studies linked Kepone to tumor formation, tremors, hyperactivity, and sterility. High levels of Kepone(Chlordecone) contaminated several rivers and lakes, resulting in fishkills and potential human exposures. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1 May 1978	The Environmental Protection Agency has cancelled the registration for all products containing chlordecone. The compound has demonstrated toxic effects, including cancer in experimental rats and mice, which may have significant adverse effects on human health. (Reference: (FEREAC) Federal Register, 43, 12372, 1978)
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of attasex and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)

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Product Name **Chlordimeform ***

C.A.S. number **6164-98-3**

Scientific and common names, and synonyms

METHANIMIDAMIDE, N'-(4-CHLORO-2-METHYLPHENYL)-N,N-DIMETHYL-
 METHANIMIDAMIDE, N'-(4-CHLORO-2-METHYLPHENYL)-N,N-DIMETHYL
 N,N-DIMETHYL-N'-(2-METHYL-4-CHLOROPHENYL)-FORMAMIDINE
 N'-(4-CHLORO-O-TOLYL)-N,N-DIMETHYLFORMAMIDINE
 N'-(4-CHLORO-2-METHYLPHENYL)-N,N-DIMETHYLMETHANIMIDAMIDE
 N'-(4-CHLOR-O-TOLYL)-N,N-DIMETHYLFORMAMIDIN (DEU)
 N'-(2-METHYL-4-CHLOROPHENYL)-FORMAMIDIN-HYDROCHLORID (DEU)
 N2-(4-CHLORO-O-TOLYL)-N1,N1-DIMETHYLFORMAMIDINE

Legislative or regulation action

Product Name	Chlordimeform *	
C.A.S. number	6164-98-3	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
ARM	1978	Chlordimeform prohibited as a pesticide. Adverse effect on humans and environment. Chlordimeform and its principal metabolites considered probable human carcinogens. Research indicates the possibility for an increased incidence of bladder cancer as a result of exposure. Toxic to fish and wildlife. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUS	1 Dec 1988	All uses cancelled. No remaining uses allowed. Health reasons: bladder cancer in man of metabolite 4-chloro-o-toluidine. (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, 43, , 1986)
AUT	20 Feb 1992	All uses banned. Carcinogenic effects in experimental animals (vascular, lung, thorax or respiration tumors). (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BRA	01 Jan 2002	The chemical chlordimeform and its formulations are severely restricted to protect users, non-target species and the environment. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CHN	1 Jan 1993	Chlordimeform has been banned for registration, production and use as a pesticide since 1.1.1993. No remaining uses are allowed. These measures were taken because Chlordimeform is a highly toxic insecticide and miticide. It is a cancerogenic substance in mice, and is a potential cancerogenic substance for humans. Chlordimeform and its main metabolite p-chloro-o-toluidine can cause a high morbidity of bladder cancer in productive workers, particularly in women. Its continued use can severely pollute environment and harm human health. (Reference: (CHNRSU) Regulation on Safe Use of Pesticides, , ,)
COL	28 Dec 1987	Agricultural use prohibited. Reason for the control action: Human carcinogenic risk. (Reference: (CMHRS) Resolution, 19408, , 28 Dec 1987)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide (La sustancia esta prohibida para su uso, produccion e importacion como plaguicida). High toxicity and risk related to the carcinogenic effect of the substance (Presenta alta toxicidad y riesgo asociado a su efecto carcinogenico). (Reference: (CUBMSP) Ministro de Salud Publica, , , 1990)
CYP	5 Oct 1976	Voluntary withdrawn by the manufacturer. At the same time registration was withdrawn by the Pest Control Products Boards. No remaining uses allowed. Probable carcinogenic effects. The use of this pesticide in agriculture poses a high health risk for the users and the community. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1976)
DEU	1 Sep 1988	Totally banned for use as plant protection product. Carcinogenic effect in animal experiments; main metabolite suspected of causing cancer of the urinary bladder in man. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK		No longer registered for sale or use. Production has never occurred in Denmark.
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
GAM	17 May 1994	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GTM	Apr 1978	This product is restricted for use on cotton crops.

Legislative or regulation action

Product Name **Chlordimeform ***

C.A.S. number **6164-98-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KAZ	30 Mar 1978	Banned for all uses as a carcinogenic substance. The use of the substance has been cancelled in USSR in accordance with sanitary-hygienic rules. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KEN	Feb 1987	Total ban of the pesticide. Action taken because of health hazards. (Reference: (KENPC) Decision of the Pest Control Products Board PCPB/CONF/1, , , 02 Feb 1987)
KOR	11 Jun 1986	Sale and use prohibited within the country. Reasons for the control action: its use is harmful to human health and the environment. (applies to chlordimeform and its formulations). (Reference: (KROTS) Ordinance Relating to a Toxic Substance, , , 1986)
KWT	1 Jan 1985	Banned for use as a pesticide. No remaining uses allowed. Cancelled by EPA. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KYR	27 Jul 2001	The chemical is banned. The substance is banned by an order of the Ministry of Health of the ex-USSR and by the Ordinance of the Government of the Kyrgyz Republic. (Reference: (KYROD) , No. 376, , 27 June 2001) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
LKA	1 Jan 1980	Chlordimeform was withdrawn from market prior to legislation. Registration will not be permitted. Based on health effects reported in animal studies, the importer stopped marketing the product. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1980)
MEX	1986	Prohibited agricultural pesticide. Reasons for the control: protection of health and the environment (because of its potential carcinogenicity). (Reference: (MEXRI) Registro Interno en la Dirección General de Sanidad y Protección Agropecuaria y Forestal SARH, , ,)
NZL	1 Sep 1976	Voluntary withdrawal of all products, registrations cancelled. No uses allowed. Human health reasons (possible carcinogen). (Reference: (NZLACB) Agricultural Chemicals Board Minutes, , , 1976)
PAK	1 Jan 1976	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
PHL	15 Dec 1989	The substance is banned for use. No remaining uses allowed. The substance is highly carcinogenic, easily absorbed through human skin and lungs and is toxic via these routes of exposure. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SLO	22 Feb 1991	Banned. This chemical was banned from the use due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Pesticide currently banned for production and use. (Reference: (KGTXP) General Toxicology of Pesticides, , , 1981)

Legislative or regulation action

Product Name **Chlordimeform ***

C.A.S. number **6164-98-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN		Prohibited for use as a pesticide because it is considered carcinogenic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1978)
THA	1977	Banned for import, manufacture and/or sale. Authorities cite problems with long residues and the availability of other kinds of short residue pesticides for control of cotton pests. Notification issued by 3rd Toxic Substance Committee Meeting/1977 (under the Poisonous Article Act No. 2, 1973). (Reference: (ONEBT) Office of the National Environment Board, , , 1977)
THA	2 May 1995	All use categories have been banned. Substance is possibly carcinogenic to humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	19 Feb 1989	The substance has been voluntarily withdrawn by the registrants on 19.02.89. This agreement prevented further sale and distribution of existing stock from registrants, retailers, and distributors. EPA allowed the use of existing stocks of chlordimeform in the possession of end users until 1.10.89. No remaining uses allowed. Using laboratory data, EPA determined that chlordimeform is a probable human carcinogen. Chlordimeform is also toxic to non-target organisms (birds and fish). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)
YUG	1976	Voluntary withdrawal by the manufacturers because they had established that the metabolite 4-chloro-O-toluidine had a carcinogenic effect on experimental mice.

Bibliographical references

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 FAO PLANT PRODUCTION & PROTECTION PAPER, 78, , 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 78, 45, 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 84, 15, 1987
 FAO PLANT PRODUCTION & PROTECTION PAPER, 86/1, 7, 1987
 FAO PLANT PRODUCTION & PROTECTION PAPER, 86/2, 25, 1987

Product Name **Chlordimeform-ethyl**

C.A.S. number **62268-10-4**

Scientific and common names, and synonyms

METHANIMIDAMIDE, N-(4-CHLORO-2-ETHYLPHENYL)-N,N-DIMETHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name		Chlordimeform-ethyl
C.A.S. number		62268-10-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
CHN		Chlordimeform-ethyl is banned for use as a pesticide. It has never been produced and used as a pesticide. The substance is highly toxic and carcinogenic. Its use is severely harmful to human health. (Reference: (CHNLTC) List of Toxic Chemicals Banned or Severely Restricted (The First Group), , , 01 May 1994)
Product Name		Chlorfenapyr
C.A.S. number		122453-73-0
Scientific and common names, and synonyms		
PYRROLE-3-CARBONITRILE,4-BROMO-2-(P-CHLOROPHENYL)-1-(ETHOXYMETHYL)-5-TRIFLUOROMETHYL (CAS)		
4-BROMO-2-(P-CHLOROPHENYL)-1-(ETHOXYMETHYL)-5-(TRIFLUOROMETHYL)PYRROLE-3-CARBONITRILE		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	05 Sep 2001	The chemical is banned. It is prohibited to place these products on the EC market and to use them. The use of chlorfenapyr as a non-agricultural pesticide (for biocidal use) remains allowed. (Commission Decision 2001/697/EC) (Reference: (OJEC) Official Journal of the European Communities, L123, p.1, 24 Apr 1988) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
Product Name		Chlorfenethol
C.A.S. number		80-06-8
Scientific and common names, and synonyms		
BIS(P-CHLOROPHENYL)METHYL CARBINOL		
BENZHYDROL, 4,4'-DICHLORO-ALPHA-METHYL-		
DICHLORODIPHENYLETHANOL		
DI-(P-CHLOROPHENYL)METHYLCARBINOL		
DI-(P-CHLOROPHENYL)-ETHANOL		
DCPE		
DCPC		
P,P'-DICHLORODIPHENYLMETHYLCARBINOL		
1,1-BIS(P-CHLOROPHENYL)METHYL CARBINOL		
1,1-BIS(P-CHLOROPHENYL)ETHANOL		
1,1-BIS(4-CHLOROPHENYL)ETHANOL		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)

Legislative or regulation action

Product Name **Chlorfenson**

C.A.S. number **80-33-1**

Scientific and common names, and synonyms

BENZENESULFONIC ACID, 4-CHLORO-, 4-CHLOROPHENYL ESTER

BENZENESULFONIC ACID, P-CHLORO-, P-CHLOROPHENYL ESTER

BENZENESULFONIC ACID, 4-CHLORO-, 4-CHLOROPHENYL ESTER

P-CHLOROPHENYL P-CHLOROBENZENESULFONATE

4-CHLOROPHENYL 4-CHLOROBENZENESULFONATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	25 Feb 1981	Due to high toxicity to honey bee, the use of this product is prohibited during the blooming periods. Pre-harvest interval was established for the safe use of this product. Action taken because of high toxicity to honey bee. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)

Bibliographical references

WHO FOOD ADD., 26.65, , 1965

WHO FOOD ADD., 27.65, , 1965

Product Name **Chlorfensulphide**

C.A.S. number **2274-74-0**

Scientific and common names, and synonyms

ETHANOL, 1,1-BIS(4-CHLOROPHENYL)-, MIXED WITH 4-CHLOROPHENYL-2,4,5- TRICHLOROPHENYLAZOSULFIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)

Product Name **Chlorfenvinphos**

C.A.S. number **470-90-6**

Scientific and common names, and synonyms

PHOSPHORIC ACID, 2-CHLORO-1-(2,4-DICHLOROPHENYL)ETHENYL DIETHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	Severely restricted. Soil insecticide only. Extreme toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 Jun 1991	Registration withdrawn because of its high acute toxicity. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	1 Jun 1992	The use is restricted. It is only allowed used for controlling pests for which no other substance is approved. Use is still allowed to control Western Flower Thrips in glasshouses, and root flies in turnip, swedish turnip and cabbage. Action taken because of: 1) High acute toxicity for mammals. 2) Persistence in soil and water under Norwegian

Legislative or regulation action

Product Name **Chlorfenvinphos**

C.A.S. number **470-90-6**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR		conditions. 3) High acute toxicity for fish and other aquatic organisms, birds, earthworms and bees. The action is based on national review of documentation from manufacturer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,) Chlorfenvinphos is severely restricted. After 01.01.2003 it is prohibited to use on cultivated land under planting or sowing. Only allowed to use for production of vegetable seedlings in greenhouses. Harmful to environment; persistence and high toxicity in terrestrial and aquatic environment. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Chlorinol**

C.A.S. number **2122-77-2**

Scientific and common names, and synonyms

2-(2,4,5-TRICHLOROPHENOXY)ETHANOL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
HUN	1985	All herbicides containing this substance are withdrawn because the manufacturer is unable to eliminate contamination with 2,4,5-T.

Product Name **Chlormethiuron**

C.A.S. number **28217-97-2**

Scientific and common names, and synonyms

THIOUREA,N'-(4-CHLORO-2-METHYLPHENYL)-N,N-DIMETHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS	1 Nov 1986	Withdrawn by industry. No remaining use allowed. Health reasons: bladder cancer in man of metabolite 4-chloro-o-toluidine. (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, 43, , 1986)

Product Name **Chlorobenzilate ***

C.A.S. number **510-15-6**

Scientific and common names, and synonyms

BENZENEACETIC ACID, 4-CHLORO-.ALPHA.-(4-CHLOROPHENYL)-.ALPHA.-HYDROXY-, ETHYL ESTER
BENZILIC ACID, 4,4'-DICHLORO-, ETHYL ESTER
CHLOROBENZYLATE
CHLORBENZILAT
ETHYL-P,P'-DICHLOROBENZILATE
ETHYL-4,4'-DICHLOROBENZILATE
ETHYL-2-HYDROXY-2,2-BIS(4-CHLOROPHENYL)ACETATE
ETHYL ESTER OF 4,4'-DICHLOROBENZILIC ACID
ETHYL 4,4'-DICHLOROPHENYL GLYCOLLATE

Legislative or regulation action

Product Name **Chlorobenzilate ***

C.A.S. number **510-15-6**

Scientific and common names, and synonyms

ETHYL 4,4'-DICHLORODIPHENYL GLYCOLLATE

P,P'-DICHLOROBENCILATO DE ETILO

4,4'-DICHLOROBENZILIC ACID ETHYL ESTER

4,4'-DICHLOROBENZILSAEUREAETHYLESTER (DEU)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	16 Oct 1990	Import, production, formulation, sale and use of products for agricultural use containing this active ingredient are banned. The National Register of Plant Protection will cancel the registrations of formulated products for agricultural use containing this active ingredient. (Prohíbe la importación, fabricación, fraccionamiento, comercialización y uso de productos de aplicación agrícolas formulados a base de este principio activo. El Registro Nacional de Terapeutica Vegetal procederá a cancelar las inscripciones de todos los productos de uso agrícola formulados a base de este principio activo.) Protection of human health and environment. Carcinogenicity in mammals. Carcinogenicity and reproductive effects in humans. (Protección de la salud humana y el medio ambiente. Efectos carcinogénicos en mamíferos. Efectos carcinogénicos y testiculares en el hombre.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
BRA	01 Jan 1998	The chemical chlorobenzilate and its formulations are severely restricted to protect users, non-target species and the environment. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide (La sustancia esta prohibida para su uso, produccion e importacion como plaguicida). Some factors denoted an adverse effect in the human reproduction system and a carcinogenic effect in various species of mammals (Se obtuvieron elementos que denotan efectos nocivos en el sistema reproductor del hombre y carcinogenicos en diferentes especies de mamíferos). (Reference: (CUBMSP) Ministro de Salud Publica, Resolucion No. , , 1990)
CYP	9 Jan 1982	Severely restricted for use as a pesticide. Use allowed as acaricide on citrus only, for the control of citrus rust mite. This use constitutes about 30% of the previously allowed uses. The substance constitutes a health risk because of its carcinogenic effects in experimental animals; human exposure to this chemical poses a risk of cancer. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1982)
ECU		Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , , 1985)
FIN	1981	Registration of chlorobenzilate preparations have not been renewed by Plant Protection Agency due to the risk of their carcinogenic effects.
GAM	17 Feb 1997	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
KOR	1 Aug 1989	Registration withdrawn because of its high acute toxicity. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1980	Banned for use as a pesticide. No remaining uses allowed. Cancelled by EPA. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Interdit en agriculture depuis 1984.) No remaining uses allowed. (Toute utilisation dudit pesticide est interdite.) Persistence in the environment, bioaccumulation of residues in the food chain. (Persistence dans

Legislative or regulation action

Product Name		Chlorobenzilate *
C.A.S. number		510-15-6
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
NZL		l'environnement et accumulation des résidus dans la chaîne alimentaire.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
		Voluntarily withdrawn from the market.
PAK	1 Jan 1990	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
PHL		Prohibited for import except in cases of emergency as determined by the authorities.
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SWE	31 Dec 1979	This substance has been withdrawn from the market after mutual discussions between National Products Control Board and the importers because of its carcinogenic effect on experimental animals. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 31 Dec 1979)
USA	1 Dec 1988	The substance has been banned for use as a pesticide. EPA initiated a special review of the substance in May 1976, based on possible risks to pesticide applicators. EPA determined that the risks from citrus crop uses outweighed the social, economic, and environmental benefits of these uses. In March 1986, EPA issued a final rule revoking tolerances on almonds, apples, cotton-seed, melons, pears, and walnuts, and in December 1988, all citrus uses of the substance were cancelled. No remaining uses allowed. Animal studies indicated that exposure to chlorobenzilate could pose risks of cancer and adverse testicular effects to certain exposed groups. EPA determined that male pesticide applicators' exposure levels were high enough to pose a reproductive hazard. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Bibliographical references		
IARC MONOGRAPH, 5, 75, 1974		
FAO PLANT PRODUCTION & PROTECTION PAPER, 26, , 1980		
FAO PLANT PRODUCTION & PROTECTION PAPER, 26 SUP., , 1980		
IARC MONOGRAPH, 30, 73, 1983		
Product Name		Chlorodinitrobenzene (mix)
C.A.S. number		25567-67-3
Scientific and common names, and synonyms		BENZENE, CHLORODINITRO-
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. Carcinogenic effects on experimental animals. (Reference: (AUTFLG) Federal Law Gazette, No. 97/1992, , , 1992)

Product Name **Chloroform**

C.A.S. number **67-66-3A**

Scientific and common names, and synonyms

METHANE, TRICHLORO

TRICHLOROMETHANE

TRICHLOROFORM

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. Carcinogenic effects in test animals (has produced cancer of the liver and kidneys) and central nervous system effects. Furthermore the substance is suspected to have a potential for cancer in humans. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SLO	13 Jun 1997	Chloroform is banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

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IARC MONOGRAPH, 20, 401, 1979

WHO FOOD ADD., 14, 24, 1980

IARC MONOGRAPH, Suppl.4, 64, 1982

IARC MONOGRAPH, Suppl.4, 87, 1982

IPCS HEALTH AND SAFETY GUIDE, 87, , 1994

IPCS ENVIRONMENTAL HEALTH CRITERIA, 163, , 1995

Product Name **Chlorophenols (dichlorophen)**

C.A.S. number **97-23-4**

Scientific and common names, and synonyms

4,4'-DICHLORO-2,2'-METHYLENE DIPHENOL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	09 May 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. Possible carcinogenic to humans. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Chloropicrin**

C.A.S. number **76-06-2**

Scientific and common names, and synonyms

CLOROPICRINA (ITA)

CHLORPIKRIN (DEU)

CHLOROPICRINE (FRA)

CHLOROFORM, NITRO

Legislative or regulation action

Product Name **Chloropicrin**

C.A.S. number **76-06-2**

Scientific and common names, and synonyms

CHLOORPIKRINE (NLD)
METHANE, TRICHLORONITRO-
METHANE, TRICHLORONITRO-
NITROTRICHLOROMETHANE
NITROCHLOROFORM
TRICLORO-NITRO-METANO (ITA)
TRICHLORONITROMETHANE
TRICHLORNITROMETHAN (DEU)
TRICHLOORNITROMETHAAN (NLD)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. High acute toxicity and suspected carcinogenic effects. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BEL	1976	Use restricted to specially authorized users with adequate equipment for the application of the product and in possession of ware-houses exclusively reserved to stocking toxic products.
BLZ	28 Dec 1985	The substance is banned for use. Extremely toxic to skin, eyes and respiratory tract. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHN	3 Dec 1984	Chloropicrin has been severely restricted for use as a pesticide. It is prohibited for use for fumigation of seed grains, shelled peanuts, cotton seeds and barley for germination. Chloropicrin is highly toxic and residual in environment and organism. Its use will produce severely harmful effects to human health and ecological environment. (Reference: (CHNRSU) Regulation on Safe Use of Pesticides, , , 1984)
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
DNK		No longer registered for sale or use. Production has never occurred in Denmark.
KOR	9 Aug 1991	Banned for production, import, use, and sale of chloropicrin and preparations containing it. Permitted in agricultural chemicals. Action taken due to high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	3 Feb 1966	This substance has been withdrawn from the market after mutual discussions between National Products Control Board and the importers because of its high acute toxicity. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 03 Feb 1966)

Bibliographical references

WHO FOOD ADD., 26.65, , 1965
WHO FOOD ADD., 28.65, , 1965

Product Name **Chloropropylate**

C.A.S. number **5836-10-2**

Scientific and common names, and synonyms

Legislative or regulation action

Product Name **Chloropropylate**

C.A.S. number **5836-10-2**

Scientific and common names, and synonyms

BENZILIC ACID, 4,4'-DICHLORO-,ISOPROPYL ESTER

ISOPROPYL-4,4'-DICHLOROBENZILATE

PROPYL-P,P'-DICHLOROBENZILATE

1-METHYLETHYL-4-CHLORO-ALPHA-(4-CHLOROPHENYL)-ALPHA- HYDROXYBENZENEACETATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)

Bibliographical references

WHO PESTICIDE RESIDUES SERIES, 2, , 1973

WHO TECHNICAL REPORT SERIES, 525, , 1973

Product Name **Chlorothalonil**

C.A.S. number **1897-45-6**

Scientific and common names, and synonyms

1,3-BENZENEDICARBONITRILE, 2,4,5,6-TETRACHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1991	Banned for use as a pesticide. No remaining uses allowed. This substance was suspended due to its carcinogenic properties. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Chlorpyrifos**

C.A.S. number **2921-88-2**

Scientific and common names, and synonyms

PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(3,5,6-TRICHLORO-2-PYRIDINYL) ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 May 1990	Restricted for use near fish farm, waterways and lake because of its high fish toxicity. High toxicity to fish and shellfish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Chlorsulfuron**

C.A.S. number **64902-72-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jan 1999	Chlorsulfuron is banned. No uses remain. Very persistent in soil and also a high mobility in soil. Extremely toxic to algae and duckweed. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000,

Legislative or regulation action

Product Name		Chlorsulfuron
C.A.S. number		64902-72-3
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		6/2001, , ,)
Product Name		Chlorthal-dimethyl
C.A.S. number		1861-32-1
Scientific and common names, and synonyms		
CHLORTHAL-METHYL		
CHLOROTHAL		
DIMETHYL TETRACHLOROTEREPHTHALATE		
TEREPHTHALIC ACID, TETRACHLORO-, DIMETHYL ESTER		
1,4-BENZENEDICARBOXYLIC ACID, 2,3,5,6-TETRACHLORO-, DIMETHYL ESTER		
1,4-BENZENEDICARBOXYLIC ACID, 2,3,5,6-TETRACHLORO-, DIMETHYL ESTER		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
NOR	31 Dec 1990	Chlorthal-dimethyl is banned for use as a pesticide. No remaining uses allowed. Action taken because of persistence and that the main metabolite is very water soluble. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
YUG	1978	A commercial formulation was not approved because it contained about 4% HCB as a technical impurity.
Product Name		Chlorthiophos
C.A.S. number		21923-23-9
Scientific and common names, and synonyms		
CELANTION		
CELANTHION		
O-(2,5-DICHLORO-4-(METHYLTHIO)PHENYL)O,O-DIETHYL ESTER PHOSPHOROTHIOIC ACID		
PHOSPHOROTHIOIC ACID, O-[2,5-DICHLORO-4-(METHYLTHIO)PHENYL] O,O-DIETHYL ESTER		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
PAK	1 Jan 1992	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Extremely hazardous and risk to workers in formulation plant and during application by spraying because of very high acute toxicity. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002,

Legislative or regulation action

Product Name **Chlorthiophos**

C.A.S. number **21923-23-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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12/2002, 6/2003, , ,)

Product Name **Chlozolate**

C.A.S. number **84332-86-5**

Scientific and common names, and synonyms

ETHYL (RS)-3-(3,5-DICHLOROPHENYL)-5-METHYL-2,4-DIOXO-OXAZOLIDINE-5-CARBOXYLATE (IUPAC)

(+)-ETHYL 3-(3,5-DICHLOROPHENYL)-5-METHYL-2,4-DIOXO-5-OXAZOLIDINECARBOXYLATE (CAS)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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@EC	13 Apr 2001	It is prohibited to place on the market or use plant protection products containing chlozolate. The authorizations for plant protection products containing chlozolate had to be withdrawn within a period of six months from the date of adoption of the Commission Decision 2000/626/EC (13/10/2000). EU Member States may grant a period of grace for disposal, storage, placing on the market and use of existing stocks, not longer than 18 months from the date of adoption of Commission Decision 2000/626/EC of 13/10/2000 (i.e. until 13/04/2002). Action was taken to protect operators applying plant protection products containing chlozolate and consumers exposed to potential residues resulting from the use of these plant protection products. Final regulatory action was taken to protect non-target organisms. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
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Product Name **Chromium**

C.A.S. number **7440-47-3**

Scientific and common names, and synonyms

CHROMIUM

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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SLO	13 Jun 1997	Chromic compounds are banned for use in agriculture. These chemicals were banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
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Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 61, , 1988
IARC MONOGRAPH, 49, , 1990

Product Name **Copper acetoarsenite**

C.A.S. number **12002-03-8**

Scientific and common names, and synonyms

C.I. PIGMENT GREEN 21

COPPER, BIS(ACETATO)HEXAMETAARSENITOTETRA-

TETRACOPPER BIS (ACETATE) HEXAKIS (ARSENITE)

Legislative or regulation action

Product Name		Copper acetoarsenite
C.A.S. number		12002-03-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
BLZ		Copper acetoarsenite is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
NZL		Not considered for registration as a pesticide.
PHL		Banned for use and/or sale in agriculture.
SUN		Prohibited for use as a pesticide because it is carcinogenic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1978)
THA	2 May 1995	Pesticides for household and public health use containing paris green have been banned for importation, exportation, manufacture and handling. Possible effects of paris green on human beings, animals, plants or environment are considered to be too dangerous to justify its use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Paris green is carcinogenic to humans. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
Bibliographical references		
IARC MONOGRAPH, 1, 41, 1972		
IARC MONOGRAPH, 2, 48, 1973		
IARC MONOGRAPH, 23, 39, 1980		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 18, , 1981		
IARC MONOGRAPH, SUPPL.4, 50, 1982		
Product Name		Copper arsenate (basic)
C.A.S. number		16102-92-4
Scientific and common names, and synonyms		ARSORANE, PENTAHYDROXY-, COPPER(2+) SALT (1:2) COPPER ARSENATE HYDROXIDE
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
USA	1 May 1977	The substance was voluntarily withdrawn by the registrant. The cancellation became effective as of May 1977. EPA permitted sale, distribution and use of existing stock after the effective date of cancellation, provided the product was used consistently with the labelling approved by EPA. No remaining uses allowed. Like all inorganic arsenicals, copper arsenate poses a risk of mutagenicity, teratogenicity, and acute toxicity. With copper arsenate, EPA was particularly concerned about carcinogenicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Bibliographical references		
IARC MONOGRAPH, 1, 41, 1972		
IARC MONOGRAPH, 2, 48, 1973		
IARC MONOGRAPH, 23, 39, 1980		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 18, , 1981		
IARC MONOGRAPH, SUPPL.4, 50, 1982		

Product Name **Coroxon**

C.A.S. number **321-54-0**

Scientific and common names, and synonyms

COUMAPHOS O-ANALOG

DIETHYL 3-CHLORO-4-METHYL-7-COUMARINYL PHOSPHATE

O,O-DL(2-CHLOROETHYL)-7-(3-CHLORO-4-METHYLCOUMARINYL)PHOSPHATE

O,O-DIETHYL O-(3-CHLORO-4-METHYLCOUMARIN-7-YL) PHOSPHATE

PHOSPHORIC ACID, DIETHYL ESTER, ESTER WITH 3-CHLORO-7-HYDROXY-4- METHYLCOUMARIN

3-CHLORO-4-METHYL-7-COUMARINYL DIETHYL PHOSPHATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	Coroxon is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Product Name **Creosote oil**

C.A.S. number **8001-58-9**

Scientific and common names, and synonyms

CREOSOTE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1986	The use of the substance is restricted. The substance is prohibited for use in horticulture and in paints intended for wood protection. The substance is still used as industrial wood protection agent. The substance is a suspected carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Crimidine**

C.A.S. number **535-89-7**

Scientific and common names, and synonyms

PYRIMIDINE, 2-CHLORO-4-(DIMETHYLAMINO)-6-METHYL-

2-CHLORO-N,N-6-TRIMETHYL-4-PYRIMIDINAMINE

4-PYRIMIDINAMINE, 2-CHLORO-N,N,6-TRIMETHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	Voluntarily withdrawn by manufacturer since July 1991. All uses are banned as from 20.02.92. Deadly poison by ingestion and intraperitoneal routes (ipr-rat LD50: 1mg/kg, oral-rat 1250u/kg). Can cause central nervous system effects and convulsions. Intensely poisonous to mammals. It was used as a rodenticide before withdrawal by manufacturer (Bayer Austria - outdated formulation, there seems no commercial interest anymore). (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)

Legislative or regulation action

Product Name **Crimidine**

C.A.S. number **535-89-7**

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 95, 37, 1989

Product Name **Cyanazine**

C.A.S. number **21725-46-2**

Scientific and common names, and synonyms

PROPANENITRILE, 2-[[4-CHLORO-6-(ETHYLAMINO)-1,3,5-TRIAZIN-2-YL]AMINO]-2-METHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Jul 1995	All authorizations for products containing cyanazine as an active substance have been withdrawn from the market in 1995 and a further use has been prohibited from 1 July 1995. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. All cyanazine degradation products investigated are pesticide-like, and the complex cyanazine plus its degradation products is highly persistent in soil. This evaluation is based on half-lives of more than three months in three of four tests, and degradation rates of 90% of the substances of more than a year in four of four cases. Cyanazine and its pesticide-like degradation products are mobile in soil, and the Danish Environmental Protection Agency finds it probable that they may leak to groundwater. This evaluation is based i.a. on field investigations and findings in groundwater in a number of countries with concentrations exceeding the EC drinking water criteria. Moreover, in North America cyanazine occurs generally in high concentrations in watercourses. Cyanazine ranges from harmful to very toxic to aquatic organisms, and by the intended uses cyanazine may have a harmful effect on insects etc. living in soil. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Cyanide**

C.A.S. number **57-12-5**

Scientific and common names, and synonyms

CYANIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHN	1985	Cyanide is banned for use as a pesticide. It has never been produced and used as a pesticide. Use of Cyanide is still allowed in non-agriculture. Cyanide is highly toxic and can lead to acute poisoning. Its use as a pesticide will produce severely harmful effects to human health. (Reference: (CHNMA) Ministry of Agriculture, (85) MA-(A) N, , 1985)

Bibliographical references

WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984

Product Name **Cycloheximide**

C.A.S. number **66-81-9**

Scientific and common names, and synonyms

PHA,5-BETA.))-2,5-PIPERIDINEDIONE

Legislative or regulation action

Product Name **Cycloheximide**

C.A.S. number **66-81-9**

Scientific and common names, and synonyms

2,6-PIPERIDINEDIONE, 4-[2-(3,5-DIMETHYL-2-OXOCYCLOHEXYL)-2-HYDROXYETHYL]-, [1S-[1.ALPHA.(S*),3.ALPHA.,5.BETA.]]-
 3-(2-(3,5-DIMETHYL-2-OXOCYCLOHEXYL)-2-HYDROXYETHYL)-GLUTARIMIDE
 4-[(2R)-2-[1S,3S,5S)-3,5-DIMETHYL-2-OXOCYCLOHEXYL]-2-HYDROXYETHYL]PIPERIDINE-2,6-DIONE
 4-(2-(3,5-DIMETHYL-2-OXOCYCLOHEXYL)-2-HYDROXYETHYL-, (1S-(1,ALPHA,(S*))
 4-(2-(3,5-DIMETHYL-2-OXOCYCLOHEXYL)-2-HYDROXYETHYL-, (1S-(1 ALPHA (S*) ,3 ALPHA,5-BETA))-2,6-PIPERIDINEDIONE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ		Cycloheximide is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
THA	2 May 1995	Pesticides for household and public health use containing cycloheximide have been banned for importation, exportation, manufacture and handling. Possible effects of cycloheximide on human beings or animals are considered to be dangerous to justify its use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Extremely hazardous and risk to workers in formulation plant and during application by spraying because of very high acute toxicity. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Cyhexatin**

C.A.S. number **13121-70-5**

Scientific and common names, and synonyms

DOWCO-213
 ENT 27,395-X
 PLICTRAN
 STANNANE, TRICYCLOHEXYLHYDROXY-
 TRICYCLOHEXYLHYDROXYTIN
 TRICYCLOHEXYLZINNHYDROXID (GERMAN)
 TRICYCLOHEXYLTIN HYDROXIDE
 TRICYCLOHEXYHYDROXYSTANNANE
 TIN, TRICYCLOHEXYLHYDROXY-

Legislative or regulatory action

Legislative or regulation action

Product Name		Cyhexatin	
C.A.S. number		13121-70-5	
Country	Effective Date	Description of action taken Grounds for decision	
ARG		<p>Temporary suspension of import, sale and use of products for agricultural use based on this active ingredient. Temporary suspension of registration of products containing this active ingredient. (Suspende temporariamente la importación, comercialización y uso de productos de aplicación agrícola a base de este principio activo. Suspende temporariamente la inscripción de los productos con este principio activo.) Protection of human health and environment. Risk associated with dermal exposure on newborn rabbits. Potential risk of exposure of women in contact with the chemical. (Protección de la salud humana y el medio ambiente. Riesgos asociados a la exposición por la vía dermal en crías de conejas; Potencial riesgo de exposición sobre las mujeres en contacto con él.) (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting of Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by the WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.)</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>	
AUS	1 Aug 1987	<p>Withdrawn by industry. No remaining uses allowed. Teratogenic in rabbit. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.)</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p> <p>(Reference: (AUSDPS) Drugs Poisons Scheduling Committee, , , 1986)</p>	
AUT	20 Feb 1992	<p>Voluntarily withdrawn by manufacturer since October 1989. All uses are banned as from 20.02.92. Teratogenic effects in test animals and penetration through the skin. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.)</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p> <p>(Reference: (AUTFLG) Federal Law Gazette, No.97/1992, , , 1992)</p>	
BLZ	17 Sep 1988	<p>The substance is banned for use. Foetotoxicity, Teratogenicity. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.)</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>	
CHN	18 Dec 1990	<p>Cyhexatin has been banned for registration, production, import and use as a pesticide. No remaining uses are allowed. Cyhexatin can lead to filial deformity of rabbit. Its use will probably produce severely harmful effects to human health. (Comment from the FAO/UNEP Secretariat: Cyhexatin was banned in a number of countries mainly for the</p>	

Legislative or regulation action

Product Name		Cyhexatin
C.A.S. number		13121-70-5
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		<p>reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.)</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p> <p>(Reference: (CHNMA) Ministry of Agriculture, MA-(A)1, 95, , 1988)</p>
CYP	19 Feb 1988	<p>Banned for use as a pesticide. Reasons for the control action: data presented by the manufacturer showed teratogenic effect of cyhexatin. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.)</p> <p>(Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 19 Feb 1988)</p>
GBR	10 Nov 1987	<p>All approved agricultural and horticultural uses of cyhexatin revoked. Banned on grounds of evidence of teratogenic effects in mammalian species. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by the WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.)</p> <p>(Reference: (NAFEP) Notice of Approval issued under Part III of the Food and Environment Protection Act), , , 1985)</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
HUN	30 Sep 1987	<p>Total ban on use as a pesticide. Reasons for the control action: cyhexatin is teratogenic in a relatively small dose and absorbed through the skin. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.)</p> <p>(Reference: (HUNMA) Ministry of Agriculture, Plant Protection and Agrochemical Department, , , 30 Sep 1988)</p>
IDN	2 Feb 1988	<p>Prohibited for all uses. No remaining use allowed. Withdrawal registered by law. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.)</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>

Legislative or regulation action

Product Name		Cyhexatin
C.A.S. number		13121-70-5
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
KAZ		Used to prevent vegetable ticks on fruit trees, berry, citrus and vegetable plantations, vines and cotton. The allowed norm is 0.3-4.0 kg/hectare. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting of Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by the WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 Apr 1989	Registration withdrawn because of its potential teratogenicity. Risk of teratogenic effect on humans. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting of Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by the WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1980	Banned for use as a pesticide. No remaining uses allowed. Cancelled by EPA. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS	1 Nov 1987	Registration voluntarily withdrawn. This means that products containing cyhexatin cannot be imported, manufactured or sold locally. Small quantities may be imported through Import Permit for research and educational purposes such as for use as analytical standards and other laboratory purposes. Evidence of teratogenic effects on mammalian species. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1 Sep 1987	Voluntary withdrawal of all products, registration cancelled. No uses allowed. Human health reasons (possible teratogenicity). (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name		Cyhexatin
C.A.S. number		13121-70-5
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (NZLPBM) Pesticides Board Minutes, , , Sep 1987)
PAK	1 Jan 1990	Prohibited. No remaining uses allowed. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting of Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by the WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PHL	1 Jan 1983	The company voluntary withdrew the registration of this product. No remaining uses allowed. For health and safety reasons threatened by the use pattern of the chemical. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the studies on teratogenicity in rabbits, cyhexat teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	12 Nov 1987	Pesticide formulations containing this active ingredient were banned. No remaining uses allowed. Suspected teratogenicity. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting of Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by the WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.) (Reference: (KEMRN) National Chemicals Inspectorate, F-157-286-87, 101-435, 1987) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	All use categories have been banned. Cyhexatin may cause teratogenic effect to test animals. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticides Residues reviewed Toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1 Jun 1987	The substance has been voluntary withdrawn by the registrants. In June 1987, authorities in California suspended all cyhexatin registrations in the state (44% of all use in the US). Registrants agreed to labelling intended to reduce exposure from apple and citrus products and cyhexatin products were temporarily withdrawn to allow time to generate needed test data. In 1987, the registrants voluntarily cancelled all cyhexatin products. No remaining uses allowed. Birth defects observed in teratology studies led to the voluntary cancellation. (Comment from the FAO/UNEP Secretariat: Cyhexatin has been banned in a number of countries mainly for the reason of its teratogenic effects in mammalian species. In 1994 the WHO Group of Experts on Pesticides of the FAO/WHO Joint Meeting on Pesticide Residues reviewed toxicological data relevant to the teratogenicity of cyhexatin and concluded that "after taking into consideration the results of all the

Legislative or regulation action

Product Name **Cyhexatin**

C.A.S. number **13121-70-5**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		studies on teratogenicity in rabbits, cyhexatin is not teratogenic to this species". Cyhexatin is presently classified by WHO as a Class III "slightly hazardous" pesticide. Please contact FAO/UNEP for further information.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

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FAO PLANT PRODUCTION & PROTECTION PAPER, 99, 16, 1989
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FAO PLANT PRODUCTION & PROTECTION PAPER, 111, 50, 1991
FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART1), 235, 1992
FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART2), 129, 1992
FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 37, 1993
FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 263, 1993
FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 70, 1994

Product Name **Dalapone**

C.A.S. number **75-99-0**

Scientific and common names, and synonyms

PROPANOIC ACID, 2,2-DICHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	The control action applies to dalapon, its salts and esters. All uses banned. High mobility in soil and therefore high risk for contamination of water (Dalapon has been detected in drinking water). Furthermore there is evidence of high aquatic toxicity (Reference: (AUTFLG) Federal Law Gazette, No. 97, , , 1992)
NOR	1 Jan 1989	Dalapon is banned for use as a pesticide. No remaining uses allowed. Action taken because of mobility and persistence in soil, solubility in water. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Dalapon-sodium**

C.A.S. number **127-20-8**

Scientific and common names, and synonyms

PROPANOIC ACID, 2,2-DICHLORO-, SODIUM SALT

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
PAK	1 Jan 1989	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Daminozide**

C.A.S. number **1596-84-5**

Legislative or regulation action

Product Name **Daminozide**

C.A.S. number **1596-84-5**

Scientific and common names, and synonyms

BUTANEDIOIC ACID, MONO(2,2-DIMETHYLHYDRAZIDE)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	16 Oct 1990	Temporary suspension of import, sale and use of products for agricultural use based on this active ingredient. Temporary suspension of registration of products containing this active ingredient. (Suspensión temporaria de importación, comercialización, y uso de productos de aplicación agrícola a base de este principio activo. Suspende temporariamente la inscripción de los productos con este principio activo.) Protection of human health and environment. Risks of possible carcinogenic effects. (Protección de la salud humana y el medio ambiente. Riesgos por posibles efectos cancerígenos.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1993	Banned for use as a pesticide. The effective date was postponed two years following a governmental decision in August 1992. This substance was suspended due to its suspected carcinogenic properties. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	All use categories have been banned. Risk of carcinogenic effect in humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	17 Nov 1989	The substance is severely restricted for use. In July 1984 EPA initiated intensive evaluation of all daminozide products intended for use on food. Before EPA's review was completed, the sole registrant of daminozide voluntarily cancelled their registrations. EPA accepted voluntary cancellation and prohibited sale, distribution, and use for food-uses after 17.11.89. The compound is still approved for use on ornamental crops. Products containing this compound are still approved for use on ornamental crops in the US. Remaining uses are a minor portion of those which were previously approved. Tests on laboratory animals exposed to daminozide through dietary consumption have demonstrated tumor at multiple organ sites and in multiple species and strains of animals. EPA has classified daminozide and UDMH as a probable human carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Dazomet**

C.A.S. number **533-74-4**

Scientific and common names, and synonyms

2H-1,3,5-THIADIAZINE-2-THIONE, TETRAHYDRO-3,5-DIMETHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Jul 1997	Authorizations for products containing dazomet as an active substance have been withdrawn from the market 31 December 1996 and a further use has been banned from 01 July 1997. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Dazomet is assessed as a risk to cause groundwater pollution and furthermore assessed to be harmful to the unborn child (rep., cat.3) in soil and the products are therefore assessed to be harmful to health and the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **D-D**

C.A.S. number **8003-19-8**

Scientific and common names, and synonyms

Legislative or regulation action

Product Name **D-D**

C.A.S. number **8003-19-8**

Scientific and common names, and synonyms

1-PROPENE, 1,3-DICHLORO-, MIXT. WITH 1,2-DICHLOROPROPANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
LIY	1 Jan 1991	D-D is banned. No remaining uses allowed. Control action is based on the information received from FAO. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **DDB**

C.A.S. number **8065-92-7**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN		DDB is prohibited for use as a pesticide because it is embryotoxic, teratogenic, readily absorbed through the skin and causes local irritation. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)

Product Name **DDD**

C.A.S. number **72-54-8**

Scientific and common names, and synonyms

BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO-DICHLORODIPHENYL DICHLOROETHANE
ETHANE, 1,1-DICHLORO-2,2-BIS(P-CHLOROPHENYL)-
TETRACHLORODIPHENYLETHANE
1,1-BIS(P-CHLOROPHENYL)-2,2-DICHLOROETHANE
1,1-BIS(4-CHLOROPHENYL)-2,2-DICHLOROETHANE
1,1'-(2,2-DICHLOROETHYLIDENE)BIS(4-CHLOROBENZENE)
2,2-BIS(P-CHLOROPHENYL)-1,1-DICHLOROETHANE
2,2-BIS(4-CHLOROPHENYL)-1,1-DICHLOROETHANE
4,4'-DDD

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	Banned since 01.01.88 in all applications where food contact is possible. All uses banned as of 20.02.92. Characteristics to persist in the environment and to biomagnify in the food chain and in human tissues. It has been shown to have reproductive effects in birds and is suspected to have a carcinogenic potential. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
CHE	1 Sep 1986	Totally banned chemical: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited. Long persistence, bioaccumulation. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
COL	6 Dec 1974	Organochlorine-containing insecticides such as DDT or DDD are prohibited for use and sale in the cultivation of tobacco, either singly or in combination. (Reference: (RNCOL) Resolution, 447, , 06 Dec 1974)

Legislative or regulation action

Product Name	DDD	
C.A.S. number	72-54-8	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
COL	12 May 1978	Organochlorine-containing insecticides such as DDT or DDD are prohibited for use and sale in the cultivation of coffee. (Reference: (RNCOL) Resolution, 209, , 12 May 1978)
HUN	Jan 1968	Pesticides containing this substance have been withdrawn from the market and their use banned due to experimental data showing residues of DDT and its metabolites, DDE and DDD, in the fatty tissue of humans and domestic animals. Other chlorinated hydrocarbon pesticides have been banned or severely restricted since 1968.
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SUN		DDD is prohibited for production and use in agriculture. (Reference: (KGTXP) General Toxicology of Pesticides, , , 1981)
USA	18 Mar 1971	The substance is banned for use. On March 18, EPA cancelled all registered products containing TDE (DDD), concluding that since TDE is a metabolite of DDT, the risks posed by TDE products would be analogous to those of DDT products (most uses of DDT were cancelled by 15.01.71 and all uses were banned by 01.01.73). No remaining uses allowed. A metabolite of DDT, DDD (TDE) is known to cause cancer in animals, is considered to be a probable human carcinogen and persists in the environment and in the fatty tissues of humans and other animals. Long-term exposure can cause central nervous system poisoning. DDD has contaminated fresh and open bodies of water and has affected the reproductive processes of birds and fish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	Jul 1972	All products containing DDD have been cancelled. These compounds have been found to pose a carcinogenic risk to humans and to be toxic to the ecosystem. (Reference: (FEREAC) Federal Register, 37, 13369, 1972)
Bibliographical references		
IARC MONOGRAPH, 5, 47, 1974		
IARC MONOGRAPH, 5, 83, 1974		
IARC MONOGRAPH. SUPPL.4, 105, 1982		

Product Name	DDE	
C.A.S. number	72-55-9	
Scientific and common names, and synonyms	BENZENE, 1,1'-(DICHLOROETHENYLIDENE)BIS[4-CHLORO-ETHYLENE, 1,1,-DICHLORO-2,2-BIS(P-CHLOROPHENYL)-	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	Banned since 01.01.88 in all applications where food contact is possible. Voluntarily withdrawn by manufacturer since May 1988. All uses are banned as of 20.02.92. Characteristic to persist in the environment and to biomagnify in the food chain and in human tissues. It has been shown to produce reproductive failures in birds and carcinogenic effects in test animals. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

Legislative or regulation action

Product Name **DDE**
C.A.S. number **72-55-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1 Sep 1986	Totally banned chemical: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited. Long persistence, bioaccumulation. (Reference: (CHEOE) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
HUN	Jan 1968	Pesticides containing this substance have been withdrawn from the market and their use banned due to experimental data showing residues of DDT and its metabolites, DDE and DDD, in the fatty tissue of humans and domestic animals. Other chlorinated hydrocarbon pesticides have been banned or severely restricted since 1968.
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Interdit en agriculture depuis 1984.) No remaining uses allowed. (Toute utilisation dudit pesticide est interdite.) High toxicity, persistence in the environment, bioaccumulation of residues in the food chain. (Toxicité très élevée, persistance dans l'environnement et bioaccumulation des résidus dans la chaîne alimentaire.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		DDE is prohibited for production and use in agriculture. (Reference: (KGTXP) General Toxicology of Pesticides, , , 1981)

Bibliographical references

IARC MONOGRAPH, 5, 47, 1974
IARC MONOGRAPH, 5, 83, 1974
IARC MONOGRAPH, SUPPL.4, 105, 1982

Product Name **DDT ***
C.A.S. number **50-29-3**

Scientific and common names, and synonyms

ALPHA,ALPHA-BIS(P-CHLOROPHENYL)-BETA,BETA,BETA-TRICHLOROETHANE
BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-
CHLOROPHENOTHANE
DICHLORODIPHENYLTRICHLOROETHANE (USA)
DICHLORODIPHENYLTRICHLOROETHANE
ETHANE, 1,1,1-TRICHLORO-2,2-BIS(P-CHLOROPHENYL)
P,P'-DICHLORODIPHENYLTRICHLOROETHANE
TRICHLOROBIS(4-CHLOROPHENYL)ETHANE
1,1,1-TRICHLORO-2,2-BIS(4-CHLORO FENYL)-ETHAAN (NLD)
1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-BENZENE]
1,1,1-TRICHLORO-2,2-BIS(4-CLORO-FENIL)-ETANO (ITA)
1,1,1-TRICHLORO-2,2-DI(4-CHLOROPHENYL)-ETHANE
1,1,1-TRICHLORO-2,2-BIS(P-CHLOROPHENYL)ETHANE
1,1,1-TRICHLORO-2,2-BIS(4-CHLOROPHENYL)ETHANE
1,1,1-TRICHLOR-2,2-BIS(4-CHLOR-PHENYL)-AETHAN (DEU)
2,2-BIS(P-CHLOROPHENYL)-1,1,1-TRICHLOROETHANE
4,4'-DICHLORODIPHENYLTRICHLOROETHANE

Legislative or regulatory action

Legislative or regulation action

Product Name		DDT *	
C.A.S. number		50-29-3	
Country	Effective Date	Description of action taken Grounds for decision	
@EC	1 Jan 1986	It is prohibited to use or place on the market all plant protection products containing DDT as an active ingredient. No remaining uses allowed. DDT is persistent in the environment. It is likely to bioaccumulate and produce food chain effects on terrestrial and aquatic organisms. DDT has been classified by the EC as a category 3 carcinogen (possible carcinogenic to humans). Directive 85/298/EEC of 22.5.85. (Reference: (OJEC) Official Journal of the European Communities, L154/48, , 13 June 1985)	
@EC	1 Jan 1988	Member States shall ensure that plant protection products containing this active substance alone or in combination with other active substances listed may neither be placed on the market nor used. OJEC L33,36,1979; OJEC L91,35,1983; OJEC L154,48,1985 (as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L273, 40, 1987)	
ARG	16 Oct 1990	Import, production, formulation, sale and use of products for agricultural use containing this active ingredient are banned. The National Register of Plant Protection will cancel the registrations of formulated products for agricultural use containing this active ingredient. (Prohíbe la importación, fabricación, fraccionamiento, comercialización y uso de productos de aplicación agrícolas formulados a base de este principio activo. El Registro Nacional de Terapéutica Vegetal procederá a cancelar las inscripciones de todos los productos de uso agrícola formulados a base de este principio activo.) Protection of human health and environment. Reduction of residues in agricultural products for human consumption. (Protección de la salud humana y el medio ambiente. Reducción de efectos residuales en productos agrícolas para el consumo humano.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)	
ARM	1970	Use of DDT prohibited as a pesticide. DDT easily absorbed by humans, and accumulation of residue in humans has caused health concerns. Persistent, reproductive effects on birds. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)	
AUS	21 Dec 1987	Importation of the chemical is prohibited unless specifically approved by the Government (21 December 1987). All uses on certain household pests, fruits, vegetables, tobacco, and cotton have been cancelled (dates vary from State to State). No remaining uses allowed. The persistence of the chemical makes it environmentally unacceptable. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , 1986)	
BGR		Banned for use in agriculture.	
BLZ		For use only by public health officials. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)	
BRA	01 Jan 2002	The chemical is severely restricted. The final regulatory action for DDT and formulations based on technical product was taken under considerations of the Ministries of Agriculture, Health and Environment to protect users, non-target species and the environment. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)	
CAN	1985	Major reductions in use pattern in 1969 due to persistence and bioaccumulation of residues. Remaining food uses phased out between 1970 and 1978. Last remaining product registration was discontinued under the Pest Control Products Act by the registrant, effective 1985.	
CHE	1 Sep 1986	The manufacture, supply, import and use of the substance and of products which contain the substance shall be prohibited. The prohibition shall not apply to the import and processing of DDT for re-export. Reasons for the control action: long persistency, bioaccumulation, high toxicity for aquatic organisms. (Reference: (CHEOS) Ordonnance sur les Substances Dangereuses pour l'Environnement (OSUBST), , , 09 June 1986)	

Legislative or regulation action

Product Name	DDT *	
C.A.S. number	50-29-3	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
CHL	1 Jan 1985	Importation, manufacturing, sale, distribution and use is prohibited. This substance is harmful to human health. (Reference: (MINAC) Ministry of Agriculture, Crops and Livestock Div. Decision No., 639, , 07 May 1984)
CHN	5 Jun 1982	It is prohibited to use DDT on fruit trees, vegetables, tea, herbs, tobacco, coffee, pepper. DDT is a highly restricted persistent pesticide. Its use is harmful to human health and is therefore severely restricted. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), No.4,)
CHN	1 Jan 1983	DDT has been banned for use as a pesticide. A small quantity is allowed to be produced for export. DDT is highly residual in environment and organism. Its use will produce severely harmful effects to human health and ecological environment. (Reference: (CHNBPR) Bulletin of Pesticide Registration, , ,)
COL	10 Apr 1986	The substance is banned for use in agriculture. (Prohibido su uso en la agricultura.) Use still allowed in public health campaigns to control mosquitoes - vectors of malaria. (Campañas de salud publica para el control de mosquitos vectores de la malaria.) High toxicity and persistence in soil and in the tropical chain. (Alta toxicidad y persistencia en los suelos y en la cadena tropica.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide. (La sustancia esta prohibida para su uso, produccion e importacion como plaguicida). DDT's persistence in the environment, bioaccumulation of residues in the food chain and human biological environment and potential carcinogenic effect in experimental animals, all contribute to the risk of long-term health effects. DDT is toxic to various organisms, fish among them. (Su persistencia en el medio ambiente y su bioacumulacion de residous en la cadena alimetria y en medio biologico humano, ademas de su oncogenicidad potencial en animales de experimentacion, lo que ha contribuido a suscitar inquietudes sobre efectos a largo palzo del hombre. El DDT es toxico para vaarios organismos, entre ellos los peces). (Reference: (CUBMSP) Ministro de Salud Publica, Resolucion No, , 1990)
CYP	25 Jun 1976	Banned for use as a pesticide. No remaining uses allowed. Persistence and bioaccumulation of residues and possible environmental hazards. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1975)
DEU	1 Nov 1977	Totally banned for use as plant protection product. High persistent organochlorine compound; risk for human health and environment; unacceptable residues in/on foodstuffs; accumulations in food chain. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
DMA		Severely restricted pesticide. (Reference: (DMAPC) Pesticide Control Board, , , 1986)
DNK	Oct 1984	Prohibition of sale, importation and use of pesticides containing DDT as an active ingredient. The Environment Board may in special cases permit deviations from these rules. (Reference: (MINED) Announcement of the Ministry for the Environment, No. 459, , 05 Sep 1984)
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries.

Legislative or regulation action

Product Name	DDT *	
C.A.S. number	50-29-3	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
ECU	1985	Must not be used in agriculture and may be used solely by the Ministry of Public Health in the malaria eradication campaign. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
ESP	Dec 1975	The Ordinance of 4 December 1975 prohibits the free sale and utilization of agricultural and forestry products that contain DDT. (Reference: (ESPOR) Ministerio de Sanidad y Consumo, , , 04 Dec 1975)
FIJ	1 Jan 1970	Banned for use. Banned due to bio-accumulation and long persistent residues. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	1976	The Ministry of Agriculture and Forestry has banned the use and sale of DDT as a pesticide, based on information regarding its detrimental environmental effects. Resolution 503/76, 1976.
GAM	17 May 1994	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	1 Oct 1984	Complete withdrawal in 1984. Uses phased out from 1971 to 1984 for environmental reasons (ability to accumulate in animals). (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 1827, , 1984)
GTM	Apr 1980	Import of this product is permitted only for use on cotton, and only with government approval.
HUN	24 Apr 1966	Severely restricted for use as a pesticide. It was prohibited for crop use prior to 1970. It was phased out of vector control in 1976. No remaining uses allowed. The substance was banned on grounds of long persistent residues and bioaccumulation. (Reference: (HUNODW) Official Document of Withdrawal, , , 1966)
HUN	Jan 1968	Pesticides containing this substance have been withdrawn from the market and their use banned due to experimental data showing residues of DDT and its metabolites, DDE and DDD, in the fatty tissue of humans and domestic animals. Other chlorinated hydrocarbon pesticides have been banned or severely restricted since 1968.
ISR	1958	Approved for use on cotton for the control of the heliothis pest. Restrictions in use due to the compound's environmental persistence.
JPN	2 Oct 1981	Designated as a "first class specified chemical substance". Without authorization from the Government its manufacture and import are prohibited. Uses other than those specified by Cabinet Order are prohibited. It is prohibited to import specified products containing the substance. These prohibitions are due to the substance's hazardous properties in terms of persistence, bioaccumulative characteristics and chronic toxicity. (Reference: (JPNCO) Japanese Cabinet Order, , , 14 Aug 1979)
KAZ		Banned for all uses. Persistent, cumulative, carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KEN	Feb 1987	Restricted to use by Ministry of Health only. Action taken because of health hazards. (Reference: (KENPC) Decision of the Pest Control Products Board PCPB/CONF/1, , , 02 Feb 1987)
KOR	11 Jun 1986	Sale and use prohibited within the country. Reasons for the control action: the substance is harmful to human health and to environment (because of its persistence, the accumulation of residues in fatty tissues and in food). (applies to DDT and its formulations).

Legislative or regulation action

Product Name		DDT *
C.A.S. number		50-29-3
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (KROTS) Ordinance Relating to a Toxic Substance, , , 1986)
KWT	1 Jan 1970	Banned for use as a pesticide. No remaining uses allowed. Cancelled by EPA. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KYR	21 Jul 2001	The chemical is banned. The substance is banned by an order of the Ministry of Health of the ex-USSR and by the Ordinance of the Government of the Kyrgyz Republic. All uses are banned. (Reference: (KYROD) , No. 376, , 27 June 2001) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
LKA	1 Jan 1976	DDT is banned for use as a pesticide. It was prohibited for crop use prior to 1970. It was phased out of vector control in 1976. No remaining uses allowed. The substance was banned on grounds of long persistent residues and bioaccumulation. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1988)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Interdit en agriculture depuis 1984.) Banned in agriculture; allowed only for use in public hygiene. (Toute utilisation en agriculture est interdite; autorisé uniquement en hygiène publique.) Persistence in the environment and bioaccumulation of residues in the food chain. (Persistance dans l'environnement et bioaccumulation des résidus dans la chaîne alimentaire.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MEX		Prohibited agricultural pesticide. Reasons for the control action: protection of health and the environment (because of its potential carcinogenicity in humans). (Reference: (MEXMP) Manual de Plaguicidas Autorizados para, , ,)
MUS	1970	Restricted use under the Pesticide Control Act 1970.
NLD	1 Jan 1981	It is prohibited to sell, stock, store or use all pesticides containing DDT as active ingredient. Decision taken by the Ministers responsible for authorization of pesticides in the Netherlands, 1973. This decision was enforced by Directive 79/117 of the European Communities. Pesticides containing DDT are prohibited because DDT is highly persistent in the environment, bioaccumulates in the food chain and is highly toxic to aquatic organisms. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	1 Oct 1970	DDT is banned for use as a pesticide. No remaining uses allowed. Action taken because of: 1) persistence and danger of accumulation in nature, 2) reports of adverse effects on wildlife and especially birds of prey. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1 Dec 1990	Withdrawal of all remaining products, registrations cancelled. No uses allowed. Environmental reasons. (Reference: (NZLPBM) Pesticides Board Minutes, , , 1988)
PAK	1 Jan 1992	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4, ,)

Legislative or regulation action

Product Name		DDT *
C.A.S. number		50-29-3
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
PHL		(Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
		Prohibited for import except in cases of emergency as determined by the authorities. The only allowed use is for malarial eradication. DDT-containing mosquito coils have banned. (Reference: (PHPEC) Fertilizer and Pesticide Authority Pesticide Circular, 5, , 1983)
POL		Use discontinued since 1976. (Reference: (POLIP) Instytut Przemysłu Organicznego, , , 1987)
PRT	1 Jan 1974	Pesticides based on this product have been banned on account of their toxicological/environmental effect. Use permitted by the Forestry and Agriculture Services, or under their guidance for the control of tree pests. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		DDT is prohibited for use as a pesticide because it is persistent, highly cumulative and carcinogenic. (Applies to DDT and DDT-based products). (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 1970)
SUN		Pesticide currently banned for production and use in agriculture. (Reference: (KGTXP) General Toxicology of Pesticides, , , 1981)
SWE	1975	All uses of this product as a pesticide have been banned due to persistant environmental impact. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 08 Feb 1975)
TGO	1981	1973: no longer used for preservation of agricultural produce. 1977: no longer used in agriculture except in formulations for cotton culture. 1981: no longer used in agriculture. Has been phased-out because of its persistence and its accumulation in man and the environment and its resistance to biodegradation. (Reference: (MINAR) Ministère de l'Aménagement Rural, , ,)
THA	2 May 1995	All use categories have been banned. Use in public health still allowed. Possibly carcinogenic to humans. Persistence in environment. Bioaccumulation of residence in food chain and human tissues. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
TUR		For reasons of health risks and environmental impact, this product has been severely restricted and is currently used only for the control of eurygaster integriceps, grasshopper and aelia rostrata.
USA	4 Jan 1973	The substance is banned for use. Certain uses of DDT (on shade trees, on tobacco, in the home, in aquatic environments) were cancelled in 1969 after studying the persistence of DDT residues in the environment. Crop, commercial plant, wood product and building uses cancelled in 1970. The remaining DDT products and DDT-metabolites were cancelled on 04.01.73. No remaining uses allowed. DDT and its metabolites DDE and DDD are highly toxic compounds. Exposures have resulted in acute kills of aquatic invertebrates and reproductive and other sublethal effects in fish, mammals and birds. Long-term exposure can cause central nervous system poisoning. DDT produces tumors in laboratory animals and is considered a probable human carcinogen. DDT is highly persistent in the environment. It has polluted fresh water, estuaries, and oceans. Because of its stability in soils (20 years or more) it can bioaccumulate in fatty tissues

Legislative or regulation action

Product Name		DDT *
C.A.S. number		50-29-3
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
VEN	1983	and up the food chain, resulting in multiple human exposures. It is estimated that all lifeforms contain traces of DDT and its metabolites. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,) The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)
YUG	1972	Its use in agriculture is prohibited. In forestry, can be used only in control of large-scale attacks of the pest <i>lymantria dispar</i> and only in aerosol formulations. May be used against pediculosis, for combatting anopheles mosquito in human settlements and their surroundings only if there is no risk of contaminating agricultural areas or water supplies. These restrictive measures were taken because of its marked persistence in the environment.
Bibliographical references		
IARC MONOGRAPH, 5, 83, 1974		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 9, , 1979		
IARC MONOGRAPH, SUPPL.4, 105, 1982		
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984		
FAO PLANT PRODUCTION & PROTECTION PAPER, 62, , 1984		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 83, , 1989		
FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 31, 1993		
FAO PLANT PRODUCTION & PROTECTION PAPER, 124, 151, 1993		
FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 73, 1994		
FAO PLANT PRODUCTION & PROTECTION PAPER, 131/1, 363, 1994		
Product Name		Deltamethrin
C.A.S. number		52918-63-5
Scientific and common names, and synonyms		CYCLOPROPANECARBOXYLIC ACID, 3-(2,2-DIBROMOETHENYL)-2,2-DIMETHYL-, CYANO(3-PHENOXYPHENYL)METHYL ESTER, [1R-[1.ALPHA.(S*),3.ALPHA.]]-
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Aug 1998	All authorizations for products containing deltamethrine as an active substance have been withdrawn from the market 31 December 1997 and a further use has been banned for outdoor use from 01 August 1998. Indoor use is still allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Deltamethrin is assessed to be toxic to aquatic organisms. The products are therefore assessed to be seriously damaging to the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Demephion**

C.A.S. number **2587-90-8**

Scientific and common names, and synonyms

PHOSPHOROTHIOIC ACID, O,O-DIMETHYL S-(2-(METHYLTHIO)ETHYL) ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ		Demephion is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
SUN		Demephion is not approved for use as a pesticide due to its high toxicity. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Product Name **Demephion-O**

C.A.S. number **682-80-4**

Scientific and common names, and synonyms

O,O-DIMETHYL O-2-DIMETHYLTHIOETHYL PHOSPHOROTHIOATE

PHOSPHOROTHIOIC ACID, O,O-DIMETHYL O-[2-(METHYLTHIO)ETHYL] ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	The substance is banned for use. Insufficient toxicological data available, suspected carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Extremely hazardous and risk to workers in formulation plant and during application by spraying because of very high acute toxicity. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Demeton (O and S)**

C.A.S. number **8065-48-3**

Scientific and common names, and synonyms

DIETHOXY THIOPHOSPHORIC ACID ESTER OF 2-ETHYLMERCAPTOETHANOL

DEMETON

MERCAPTOPHOS

MERCAPTOFOS

O,O-DIETHYL O-(2-(ETHYLTHIO)ETHYL) PHOSPHOROTHIOATE

O,O-DIETHYL 2-ETHYLMERCAPTOETHYL THIOPHOSPHATE

O,O-DIETHYL (O AND S)-2-(ETHYLTHIO)ETHYL PHOSPHOROTHIOATE MIXTURE

PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-[2-(ETHYLTHIO)ETHYL] ESTER, MIXT. WITH O,O-DIETHYL S-[2-(ETHYLTHIO)ETHYL] PHOSPHOROTHIOATE

PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(2-(ETHYLTHIO)ETHYL) ESTER, MIXED WITH O,O-DIETHYL S-(2-(ETHYLTHIO)ETHYL) ESTER 7:3)

SYSTOX

Legislative or regulatory action

Legislative or regulation action

Product Name		Demeton (O and S)
C.A.S. number		8065-48-3
Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	The substance is banned for use. Extremely toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHN	17 Jun 1971	Demeton (O and S) has been banned for production , sale and use as a pesticide. No remaining uses allowed. Demeton (O and S) is highly toxic. Its use will produce severely harmful effects to human health. (Reference: (CHNRSU) Regulation on Safe Use of Pesticides, No. 4, , ,)
CHN	5 Jun 1982	The following uses of demeton are prohibited: 1) on vegetables, tea, fruit trees and herbs; 2) against insects harmful to health of humans and animals; 3) for rat control except when formulated as a rodenticide. These measures were taken because demeton is a highly toxic substance and its use is harmful to human health. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), No.4, , ,)
KWT	1 Jan 1985	Banned for use as a pesticide. No remaining uses allowed. Action was taken because better and safer alternative is available. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SUN		Pesticide currently banned for production and use. (Reference: (KGTXP) General Toxicology of Pesticides, , , 1981)
SUN		Prohibited for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , ,)
THA	2 May 1995	All use categories have been banned. Very low ADI and risky to users. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 62, , 1984

Product Name		Demeton-O-Methyl
C.A.S. number		867-27-6
Scientific and common names, and synonyms		BETA-ETHYLMERCAPTOETHYL DIMETHYL THIONOPHOSPHATE DEMETON-O-METHYL DEMETON-O-METILE (ITALIAN) ETHANOL 2-(ETHYLTHIO)-, O-ESTER WITH O,O-DIMETHYL PHOSPHOROTHIOATE METHYL-DEMETON-O METHYLSYSTOX O-(2-(ETHYLTHIO)ETHYL) O,O-DIMETHYL PHOSPHOROTHIOATE O,O-DIMETHYL-O-(2-AETHYTHIO-AETHYL MONOTHIOPHOSPHAT (GERMAN) O,O-DIMETIL-O-(2-ETILTIO-ETIL)-MONOTIOFOSFATO (ITALIAN) O-METHYLDOMETON O-O-DIMETHYL 2-ETHYLMERCAPTOETHYL THIOPHOSPHATE, THIONO ISOMER O-O-DIMETHYL O-2-(ETHYLTHIO)ETHYL MIOPHOSPHOROTHIOATE O-O-DIMETHYL O-ETHYLMERCAPTOETHYL THIOPHOSPAHTE O,O-DIMETHYL-O-(2-ETHYL(-THIO-ETHYL)-MONOTHIOFOSFAAT (DUTCH) PHOSPHOROTHIOIC ACID, O-[2-(ETHYLTHIO)ETHYL] O,O-DIMETHYL ESTER THIOPHOSPHATE DE O,O-DIMETHYLE ET DE O-2-ETHYLTHIO-ETHYLE (FRENCH) 2-(ETHYLTHIO)ETHYL DIMETHYL PHOSPHOROTHIONATE

Legislative or regulation action

Product Name **Demeton-O-Methyl**

C.A.S. number **867-27-6**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
JPN	Jun 1956	Designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. The use designated by Cabinet Order is limited to exterminating insects which are noxious to such plants as citrus fruits or ornamental plants or their bulbs.
KOR	1 Feb 1981	Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited to rice plant. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Demeton-S-Methyl**

C.A.S. number **8022-00-2**

Scientific and common names, and synonyms

METHYLMERCAPTOPHOS

METHYLDOMETON

PHOSPHOROTHIOIC ACID, S-(2-(ETHYLTHIO)ETHYL) O,O-DIMETHYL ESTER

S-2-(ETHYLTHIO)ETHYL-O,O-DIMETHYL PHOSPHOROTHIODATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
HUN	1979	The product was withdrawn. It was found to be replaceable by more efficient and less toxic chemicals. (Reference: (HUNODW) Official Document of Withdrawal, , , 1979)
SUN		Prohibited for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

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FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 39, 1993

FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 287, 1993

Product Name **Di(phenylmercuric)dodecenyl succinate**

C.A.S. number **27236-65-3**

Scientific and common names, and synonyms

MERCURY, DIPHENYL[.MU.-]([TETRAPROPENYL)BUTANEDIOATO(2-)-O:O']DI-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	1 Jul 1990	The substance was voluntarily withdrawn by the registrant in July 1990 with several restrictions applying for the distribution, sale, and use of existing stocks. No remaining uses allowed. Studies showed mercury vapor exposure to pose risk to the nervous system and the kidneys, and at high levels to the respiratory, cardiovascular, and gastrointestinal systems. Exposure by children and applicators posed a particular concern. Mercury also bioaccumulates in aquatic environments.

Legislative or regulation action

Product Name **Di(phenylmercuric)dodecenyl succinate**

C.A.S. number **27236-65-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Dialifos**

C.A.S. number **10311-84-9**

Scientific and common names, and synonyms

DIALIPHOS

DIALIPHOR

O,O-DIETHYL S-(2-CHLORO-1-PHTHALIMIDOETHYL) PHOSPHORODITHIOATE

O,O-DIETHYL ESTER, S-ESTER WITH N-(2-CHLORO-1-MERCAPTOETHYL) PHTHALIMI DE PHOSPHORODITHIOIC ACID

O,O-DIETHYL S-(2-CHLORO-1-PHTHALIMIDOETHYL) PHOSPHORODITHIOATE

PHOSPHORODITHIOIC ACID, S-[2-CHLORO-1-(1,3-DIHYDRO-1,3-DIOXO-2H-ISOINDOL-2-YL)ETHYL] O,O-DIETHYL ESTER

S-(2-CHLORO-1-PHTHALIMIDOETHYL) O,O-DIETHYL PHOSPHORODITHIOATE

S-(2-CHLORO-1-PHTHALIMIDOETHYL) O,O-DIETHYL PHOSPHORODITHIOATE

S-(2-CHLORO-1-(1,3-DIHYDRO-1,3-DIOXO-2H-ISOINDOL-2-YL)ETHYL) O,O- DIETHYL ESTER PHOSPHORODITHIOIC ACID

S-(2-CHLORO-1-(1,3-DIHYDRO-1,3-DIOXO-2H-ISOINDOL-2-YL)ETHYL) O,O- DIETHYL ESTER

O,-DIETHYL ESTER, S-ESTER WITH N-(2-CHLORO-1-MERCAPTOETHYL) PHTHALIMI DE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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KOR **9 Aug 1991** Banned for production, import, use and sale of both dialifos and preparations containing it. Action taken due to high toxicity.

(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

MYS Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides.

(Reference: (MYSPA) Pesticides Act, , , 1974)

PAN **Sep 1987** Import and use prohibited for agriculture.

(Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)

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Product Name **Diallate**

C.A.S. number **2303-16-4**

Scientific and common names, and synonyms

BIS(1-METHYLETHYL)CARBAMOTHIOIC ACID, S-(2,3-DICHLORO-2-PROPENYL)ESTER

CARBAMOTHIOIC ACID, BIS(1-METHYLETHYL)-, S-(2,3-DICHLORO-2-PROPENYL) ESTER

CARBAMIC ACID, DIISOPROPYLTHIO-, S-(2,3-DICHLOROALLYL)ESTER

DICHLOROALLYL DIISOPROPYLTHIOCARBAMATE

S-2,3-DICHLOROALLYL DIISOPROPYLTHIOCARBAMATE

Legislative or regulation action

Product Name **Diallate**

C.A.S. number **2303-16-4**

Scientific and common names, and synonyms

2,3-DICHLOROALLYL N,N-DIISOPROPYLTHIOCARBAMATE
2,3-DICHLORO-2-PROPENE-1-THIO,DIISOPROPYLCARBAMATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		Registration must include the following provisions on product labels: 1. Restricted use pesticide: for retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the applicator's certification. 2. Protective clothing required. (Reference: (FEREAC) Federal Register, 47, 27109, 1982)

Bibliographical references

IARC MONOGRAPH, 12, 69, 1976
IARC MONOGRAPH, 30, 235, 1983

Product Name **Diazinon**

C.A.S. number **333-41-5**

Scientific and common names, and synonyms

PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-[6-METHYL-2-(1-METHYLETHYL)-4-PYRIMIDINYL] ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Jul 1997	The authorizations for the products containing diazinon as an active substance have been withdrawn from the market 31 December 1996 and a further use has been banned from 01 July 1997. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Diazinon is assessed as a risk to cause groundwater pollution, to be persistent in soil and to poison aquatic organisms, wild birds and mammals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 Jun 1991	Registration withdrawn of 34%WP because of its high acute toxicity. Action taken because of high acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Dichlobenil**

C.A.S. number **1194-65-6**

Scientific and common names, and synonyms

BENZONITRILE, 2,6-DICHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Jul 1997	Authorizations for the products containing dichlobenil as an active substance have been withdrawn from the market 31 December 1996 and a further use has been banned from 01 July 1997. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Dichlobenil is assessed as a risk to cause groundwater pollution. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	1 Jan 2001	Dichlobenil is banned. No uses remain after 31.12.2000. Not enough data to evaluate health effects.

Legislative or regulation action

Product Name **Dichlobenil**

C.A.S. number **1194-65-6**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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(Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Dichlofenthion**

C.A.S. number **97-17-6**

Scientific and common names, and synonyms

BROMEX
DICHLOFENTION
DICHLOROFENTHION
DIETHYL 2,4-DICHLOROPHENYL PHOSPHOROTHIONATE
ECP
ENT 17470
HEXA-NEMA
MOBILAWN
NEMACIDE VC-13
NEMACIDE
O,O-DIAETHYL-O-2,4-DICHLORPHENYL-THIONOPHOSPHAT (GERMAN)
O,O-DIETHYL O-(2,4-DICHLOROPHENYL) PHOSPHOROTHIOATE
O,O-DIETHYL O-2,4-DICHLOROPHENYL THIOPHOSPHATE
O,O-DIETHYL-O-(2,4-DICHLOROPHENYL)-MONOTHIOFOSFAAT (DUTCH)
O,O-DIETHYL-O-(2,4-DICHLOROPHENYL)-MONOTHIOFOSFATO (ITALIAN)
O-2,4-DICHLOROPHENYL O,O-DIETHYL PHOSPHOROTHIOATE
O,O-DIAETHYL-O-2,4-DICHLOROPHENYL-MONOTHIOFOSPHAT (GERMAN)
PHENOL 2,4-DICHLORO-, O-ESTER WITH O,O-DIETHYL PHOSPHOROTHIOATE
THIOPHOSPHATE DE O-2,4-DICHLOROPHENYLE ET DE O,O-DIETHYLE (FRENCH)
TRI-VIC 13
VC13 NEMACIDE
V-C 1-13
V-C-13
2,4-DICHLORO-PHENYL DIETHYL PHOSPHOROTHIONATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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SUN Dichlofenthion is not approved for use as a pesticide due to long-term neurotoxic effect.
(Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Product Name **Dichlorvos**

C.A.S. number **62-73-7**

Scientific and common names, and synonyms

PHOSPHORIC ACID, 2,2-DICHLOROETHENYL DIMETHYL ESTER

Legislative or regulatory action

Legislative or regulation action

Product Name		Dichlorvos
C.A.S. number		62-73-7
Country	Effective Date	Description of action taken Grounds for decision
ANG		The control action applies to the product Vapona 24 EC. Banned for use. Vapona 24 EC is banned for use because its content of the active ingredient is less than required. It has, therefore, been withdrawn from commercialization. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK	1 Aug 1998	All authorizations for products containing dichlorvos as an active substance have been withdrawn from the market 31 December 1997 and a further use has been banned from 01 August 1998. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Dichlorvos is assessed to be carcinogenic in category 3 (cars., 3 cat., 3) and the formulated products are highly acute toxic (T+ and T classified respectively). The products are therefore assessed to be harmful to health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIJ	1 Jan 1986	Banned for all use. No remaining uses are allowed. Potential health hazard. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 Feb 1981	Classified as a "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited to rice plant. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1993	Severely restricted. Use only till the flowering stage of plants. Import of this chemical was stopped from June 1994. Action was taken for health reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1991	Voluntarily withdrawn. This substance was restricted due to its mutagenic properties. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name		Dicloran
C.A.S. number		99-30-9
Scientific and common names, and synonyms		BENZENAMINE, 2,6-DICHLORO-4-NITRO-
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. Carcinogenic potential (the pesticide can cause leukemia and liver (cancer?) in experimental animals). Furthermore the substance is suspected to be mutagenic. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

Product Name		Dicofol
C.A.S. number		115-32-2
Scientific and common names, and synonyms		BENZENEMETHANOL, 4-CHLORO-.ALPHA.-(4-CHLOROPHENYL)-.ALPHA.-(TRICHLOROMETHYL)- BENZHYDROL, 4,4'-DICHLORO-ALPHA-(TRICHLOROMETHYL)- DI-(P-CHLOROPHENYL)TRICHLOROMETHYLCARBINOL 1,1-BIS(P-CHLOROPHENYL)-2,2,2-TRICHLOROETHANOL 1,1-BIS(4-CHLOROPHENYL)-2,2,2-TRICHLOROETHANOL 2,2,2-TRICHLORO-1,1-BIS(4-(CHLOROPHENYL)ETHANOL

Legislative or regulation action

Product Name **Dicofol**

C.A.S. number **115-32-2**

Scientific and common names, and synonyms

4-CHLORO-ALPHA-(4-CHLOROPHENYL)-ALPHA-(TRICHLOROMETHYL)BENZENEMETHANOL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	30 Sep 1991	It is prohibited to place on the market and use all plant protection products with dicofol containing less than 78% of p,p'-dicofol or more than 1g/kg of DDT and DDT related compounds. The use of plant protection products containing dicofol which do not comply with certain purity criteria are likely to give rise to harmful effects on human and animal health as well as a highly unfavourable influence on the environment. Directive 90/533/EEC of 15.10.90. (Reference: (OJEC) Official Journal of the European Communities, L296/63, , 27 Oct 1990)
BLZ	17 Sep 1988	The substance is banned for use. Bioaccumulation and persistence in the soil. Potentially hazardous to the environment. Environmental pollutant. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHE	1972	Use of this substance is prohibited in products for public use (substances intended for private and commercial use) and in commercial products (substances intended for use in trade and industry) except uses permitted by the competent Federal Agricultural Research Institute. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, , 1985)
DEU	29 Mar 1991	The control action applies to dicofol with a content of less than 780 g/kg p,p'-dicofol or more than 1 g/kg DDT or DDT compounds. Totally banned for use as plant protection product. Impurities of DDT and DDT-relatives cannot be tolerated at a higher degree than 1g/kg DDT or DDT compounds; compliance with EEC regulations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 Apr 1989	DDT-relatives in technical is restricted to less than 0.1% because of its potential carcinogenicity. Risk of carcinogenic effect on humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
NLD	22 Oct 1995	Dicofol is prohibited for sale, stock, store and use. No uses remain. Persistent and highly bioaccumulating. Effects on reproduction (eg shell thinning) of birds. (Reference: (NETMAF) Decree of the Ministry of Agriculture and Fisheries, Ministerial order, , , 1995)
NOR	31 Dec 1992	Dicofol is banned for use as a pesticide. No remaining uses allowed. Action taken because of possible carcinogenic effects and high persistence. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SLO	13 Jun 1997	Dicofol can only be used in substances or preparations that contain more than 78% p,p'-dicofol or less than 1 g/kg DDT or similar substances. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1991	The substance was withdrawn from the market. The withdrawal was due to the substance's persistence and bioaccumulation. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Dicofol**

C.A.S. number **115-32-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)

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 FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 40, 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 305, 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 74, 1994
 FAO PLANT PRODUCTION & PROTECTION PAPER, 131/1, 369, 1994

Product Name **Dicrotophos**

C.A.S. number **141-66-2**

Scientific and common names, and synonyms

BIDRIN
 CIS-2-DIMETHYLCARBAMOYL-1-METHYLVINYL DIMETHYLPHOSPHATE
 CROTONAMIDE, 3-HYDROXY-N,N-DIMETHYL-, DIMETHYL PHOSPHATE, (E)
 CROTONAMIDE, 3-HYDROXY-N,N-DIMETHYL-, DIMETHYL PHOSPHATE, CIS
 CROTONAMIDE, 3-HYDROXY-N,N-DIMETHYL-, CIS-DIMETHYL PHOSPHATE
 DIMETHYL ESTER, ESTER WITH 3-HYDROXY-N,N-DIMETHYLCROTONAMIDE, (E)-PHOSPHORIC ACID
 DIMETHYL 2-DIMETHYL CARBAMOYL-1-METHYL VINYL PHOSPHATE
 DIMETHYL ESTER WITH (E)-3-HYDROXY-N,N-DIMETHYLCROTONAMIDE PHOSPHORIC ACID
 DIMETHYL PHOSPHATE ESTER WITH 3-HYDROXY-N,N-DIMETHYL-CIS-CROTONAMIDE
 DIMETHYL 2-DIMETHYLCARBAMOYL-1-METHYLVINYL PHOSPHATE
 DIMETHYL PHOSPHATE OF 3-HYDROXY-N,N-DIMETHYL-CIS-CROTONAMIDE
 O,O-DIMETHYL-O-(1,4-DIMETHYL-3-OXO-4-AZA-PENT-1-ENYL)FOSFAAT (NLD)
 O,O-DIMETHYL-O-(1,4-DIMETHYL-3-OXO-4-AZA-PENT-1-ENYL)PHOSPHATE
 O,O-DIMETHYL-O-(2-DIMETHYL-CARBAMOYL-1-METHYL-VINYL) PHOSPHAT (DEU)
 O,O-DIMETHYL-O-(N,N-DIMETHYLCARBAMOYL-1-METHYLVINYL) PHOSPHATE
 PHOSPHATE DE DIMETHYLE ET DE 2-DIMETHYLCARBAMOYL 1-METHYL VINYLE (FRA)
 PHOSPHORIC ACID, DIMETHYL ESTER, ESTER WITH CIS-3-HYDROXY-N,N-DIMETHYLCROTONAMIDE
 PHOSPHORIC ACID, 3-(DIMETHYLAMINO)-1-METHYL-3-OXO-1-PROPENYL DIMETHYL ESTER, (E)-
 TRANS-BIDRIN
 3-(DIMETHOXYPHOSPHINYLOXY)-N,N-DIMETHYL-CIS-CROTONAMIDE
 3-HYDROXYDIMETHYL CROTONAMIDE DIMETHYL PHOSPHATE
 3-HYDROXY-, N,N-DIMETHYL-CIS-CROTONAMIDE DIMETHYL PHOSPHATE
 3-(DIMETHYLAMINO)-1-METHYL-3-OXO-1-PROPENYL DIMETHYL PHOSPHATE

Legislative or regulation action

Product Name **Dicrotophos**

C.A.S. number **141-66-2**

Scientific and common names, and synonyms

3-(DIMETHYLAMINO)-1-METHYL-3-OXO-1-PROPENYL DIMETHYL ESTER, (E)-PHOSPHORIC ACID

3-(DIMETHOXYPHOSPHINYLOXY)-N,N-DIMETHYLISOCROTONAMIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	The substance is banned for use. No justified use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	2 Aug 1975	Registration refused. Action taken in view of its relatively more toxicity and less efficacy as compared to monocrotophos and being toxic to birds and fish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JOR	01 Jan 1981	The chemical is banned. It is prohibited to place on the market or use plant protection products containing Dicrotophos. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
PAK	1 Jan 1990	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Dicrotophos is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986

Product Name **Dieldrin ***

C.A.S. number **60-57-1**

Scientific and common names, and synonyms

DIELDRINE (FRA)

ENDO,EXO-1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4,4A,5,6,7,8,8A- OCTAHYDRO-1,4:5,8-DIMETHANONAPHTHALENE

ENDO EXO-1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4,4A,5,6,7,8,8A- OCTAHYDRO-,8-DIMETHANONAPHTHALENE
EXO-DIELDRIN

HEXACHLOROEOXYOCTAHYDRO-ENDO,EXO-DIMETHANONAPHTHALENE

1,4:5,8-DIMETHANONAPHTHALENE 1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4,6, 7,8,8A-OCTAHYDRO ENDO- EXO-
1,4:5,8-DIMETHANONAPHTHALENE 1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4,4A, 5,6,7,8,8A-OCTAHYDRO ENDO-, EXO-

2,7:3,6-DIMETHANONAPHTH[2,3-B]OXIRENE, 3,4,5,6,9,9-HEXACHLORO-1A,2,2A,3,6,6A,7,7A-OCTAHYDRO-, (1A.ALPHA.,2.BETA.,2A.ALPHA.,3.BETA.,6.BETA.,6A.ALPHA.,7

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1981	It is prohibited to use or place on the market all plant protection production products containing dieldrin as an active ingredient. No remaining uses allowed. Dieldrin is persistent in the environment. It is likely to bioaccumulate and produce food-chain effects on terrestrial and aquatic organisms. Dieldrin has been classified by the EC as a category

Legislative or regulation action

Product Name		Dieldrin *
C.A.S. number		60-57-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1988	3 carcinogen (possibly carcinogenic to humans). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
		Member States shall ensure that plant protection products containing this active substance alone or in combination with other active substances listed may neither be placed on the market nor used. OJEC L33,36,1979; OJEC L91,35,1983; OJEC L154,48,1985 (as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L273, 40, 1987)
ANG		The control action applies to Dieldrin 18% EC. Banned for use. No remaining uses allowed. The substance is banned for health and toxicological reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ARG	21 Feb 1968	Prohibited for use as tucuricide (glow-worm killer). (Reference: (ADECS) Argentinian Legislation, Decreto, 647, , ,)
ARG	30 Apr 1968	Prohibited for use as an external parasiticide in cattle and swine. (Reference: (ADECA) Argentinian Legislation, Decreto, 2143, , , 1968)
ARG	27 Mar 1969	Prohibited for use in treatment of natural and artificial meadows and in treatment of cattle, sheep, goats, swine and horses; in human food products of animal and plant origin. (Reference: (ALEYP) Argentinian Legislation, Ley, 18073, , , 1969)
ARM	1985	Dieldrine: banned as an agricultural chemical. Dieldrin in the environment and in the human body has been subjected to control actions due to its high toxicity to humans and many animals. Persistent. Highly toxic to fish, crustaceans, birds and other animal species. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUS	21 Dec 1987	Importation of the chemical is prohibited unless specifically approved by the Government (21 December 1987). All uses including control of pests in households, timber, fruit trees, sugar-cane, turf, grapevines, tobacco and termite control have been discontinued. (Dates vary from State to State). No remaining uses allowed. The persistence of the chemical makes it environmentally unacceptable. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , 1986)
AUT	20 Feb 1992	All uses banned. High acute toxicity, its high persistence in the environment, its bioaccumulation in the food chain and its human tissues; Dieldrin has shown a carcinogenic potential in some experimental animals. It is highly toxic to fish, crustaceans and many bird and animal species. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , , 1992)
BGR		Banned for use in agriculture.
BLZ	28 Dec 1985	The substance is banned for use. Environmental pollution and suspected carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
BRA	01 Jan 2002	The chemical is severely restricted due to the high toxicity to man and many animals, besides its persistence in the environment. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CAN		Most uses phased out between 1970 and 1977 due to persistence and bioaccumulation of residues. Now registered only for termite pest control.
CDR	1 Oct 1992	Banned. No remaining uses allowed. (Strictement interdit). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHE	1 Sep 1986	Totally banned chemical: Manufacture, supply, import and use of the substance and of

Legislative or regulation action

Product Name		Dieldrin *
C.A.S. number		60-57-1
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
		products which contain the substance is prohibited. Dieldrin is highly residual in environment and organism. Its use will produce severely harmful effects to human health and ecological environment. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
CHL	5 Jan 1983	Application of the product to natural or artificial meals used directly or in concentrated form as animal feed is prohibited. Its use is prohibited on seeds, grain etc. This measure was taken to protect public health and the environment. (Reference: (MINAC) Ministry of Agriculture, Crops and Livestock Div. Decision No., 4, , 1985)
CHN	1985	Dieldrin is banned for use as a pesticide. It has never been produced and used as a pesticide. No remaining uses are allowed. Dieldrin is highly residual in environment and organism. Its use will produce severely harmful effects to human health and ecological environment. (Reference: (CHNMA) Ministry of Agriculture, (85) MA-(A) N, , 1985)
COL	12 Apr 1988	The substance is banned for use in agriculture. (Prohibicion de su uso en agricultura.) Action taken because of high toxicity and persistence in soil. (Alta toxicidad y persistencia en el suelo.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide (La sustancia esta prohibida para su uso, produccion e importacion como plaguicida). Highly toxic to humans and animals, persistent in the environment, accumulates in the food chain and in human tissues (Por su elevada toxicidad para el ser humano y los animales, su persistencial en el medio ambiente su acumulacion en la cadena alimentraria y en el tejido humano). (Reference: (CUBMSP) Ministro de Salud Publica, Resolucion No, , 1990)
CYP	18 Feb 1988	Banned for all use as a pesticide. No remaining uses allowed. Helath risks and environmental hazard due to its high acute toxicity, possible oncogenicity, as well as its persistence and bioaccumulation of residues. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1988)
DEU	1 Jun 1974	Totally banned for use as plant protection product. Persistent organochlorine compound; accumulation in soil and food chain; unacceptable residues in/on foodstuffs; excession of the ADI value. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DEU	1 Jan 1978	It is prohibited to apply solutions of 99% purity or more against parasites on horse, cattle, swine, goat and sheep. It is prohibited to apply against parasites on poultry and to apply to the udder of lactating horses, cows, sheep and goats at concentrations exceeding the maximum residue limits (MRLs) set for milk and milk products. (Reference: (BGBL) Bundesgesetzblatt, IS.1136, , 1981)
DMA		Severely restricted pesticide. (Reference: (DMAPC) Pesticide Control Board, , , 1986)
DNK		Banned in accordance with EEC-Directive 79/117.
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
FIJ	1 Jan 1985	Banned for all uses. Environmental and toxicological concerns. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	20 Apr 1972	Total ban to use as pesticide. The control action is based on information regarding the

Legislative or regulation action

Product Name	Dieldrin *	
C.A.S. number	60-57-1	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		substance's detrimental environmental effects, e.g. bioaccumulation, and evidence of risk to human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GAM	17 Feb 1997	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	30 Mar 1989	All remaining approvals revoked (i.e. food storage practice). Reasons for the control action: as part of the UK's policy to phase out persistent organochlorine pesticides as suitable alternatives become available. (Reference: (NAFEP) Notice of Approval issued under Part III of the Food and Environment Protection Act), (III), , 1985)
HUN	3 Mar 1970	Banned pesticide. Banned for all agricultural use. No remaining uses allowed. High toxicity, persistence in the environment, bioaccumulation. (Reference: (HUNODW) Official Document of Withdrawal, , , 1966)
IND		Pesticides containing dieldrin are under restricted use by the Directorate of Plant Protection, quarantine and storage.
IRN	1982	Dieldrin is totally banned. Highly toxic to humans. Highly persistent in the environment and ecosystems. (Reference: (IRNPSB) Pesticides Supervision Board (Ministry of Agriculture), , ,)
ISR	1975	Prohibited for use (including use as bait), sale, storage and formulation due to problems of bioaccumulation and the presence of residues in food.
JPN	2 Oct 1981	Designated as a "first class specified chemical substance". Without authorization from the Government its manufacture and import are prohibited. Uses other than those specified by Cabinet Order are prohibited. It is prohibited to import specified products containing the substance. These prohibitions are due to the substance's hazardous properties in terms of persistence, bioaccumulative characteristics and chronic toxicity. (Reference: (JPNCO) Japanese Cabinet Order, , , 14 Aug 1979)
KAZ		Banned for all uses as highly toxic, poisonous substance; pronounced dermal absorption. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KEN	Feb 1987	Restricted to termite control and banding of coffee trees for ant crops. Action taken because of health hazards. (Reference: (KENPC) Decision of the Pest Control Products Board PCPB/CONF/1, , , 02 Feb 1987)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it. Permitted as additive in industrial products. Action taken due to persistence of residue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1975	Banned for use as a pesticide. No remaining uses allowed. Belongs to organochlorine group. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KYR	27 Jul 2001	The chemical is banned. The substance is banned by an order of the Ministry of Health of the ex-USSR and by the Ordinance of the Government of the Kyrgyz Republic. All uses are banned. (Reference: (KYROD) , No. 376, , 27 June 2001) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply.

Legislative or regulation action

Product Name	Dieldrin *	
C.A.S. number	60-57-1	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (LIEAG) Administration Gouvernementale, , , 1987)
LKA	1 Jan 1980	Dieldrin is a severely restricted pesticide. All agricultural uses prohibited prior to 1980. Product currently registered only for non-agricultural purpose. Minor uses still allowed are: subterranean treatment for control of termites and applications for timber treatment. Based on control actions reported elsewhere of long persistence of residues in soils and crops.
		(Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1980)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Interdit en agriculture depuis 1984.) No remaining uses allowed. (Toute utilisation dudit pesticide est interdite.) Very high toxicity, persistence in the environment and bioaccumulation of residues in the food chain. (Toxicité très élevée, persistance dans l'environnement et bioaccumulation des résidus dans la chaîne alimentaire.)
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MEX	1982	Prohibited agricultural pesticide. Reasons for the control action: protection of health and the environment (highly toxic pesticide, LD50: 41-100mg/kg).
		(Reference: (MEXMP) Manual de Plaguicidas Autorizados para, , ,)
MUS	1970	Restricted use under the Pesticide Control Act 1970.
MYS		Registration for termite control only in non food crop areas. Substance is highly persistent in the environment and tends to accumulate in the food chain.
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides.
		(Reference: (MYSPA) Pesticides Act, , , 1974)
NGR	8 Jul 1999	The chemical dieldrin is prohibited. The reason for the control action is its prohibition in several countries. Rapidly transforms in the environment and in humans. Increasingly toxic for humans and animals. Persistence in the environment and bioaccumulation in the food chain. No uses are allowed. (Dieldrin: Le produit chimique est interdit. Par cause de l'interdiction et de sa stricte réglementation par plusieurs pays. Par sa transformation rapide dans l'environnement et dans le corps humain., Par sa toxicité très élevée pour l'homme et les animaux. Par sa persistance dans l'environnement et sa bioaccumulation dans la chaîne alimentaire. Plus d'utilisation au Niger.)
		(Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
NLD	1 Jan 1981	It is prohibited to sell, stock, store or use all pesticides containing dieldrin as an active ingredient (most uses have been discontinued long before 1981). The prohibition was based on the fact that dieldrin: a) accumulates in the food chain; b) is highly persistent in the environment. This decision was enforced by Directive 79/117 of the European Communities published in OJEC L33/39(1979).
NOR	1 Oct 1970	Dieldrin is banned for use as a pesticide. No remaining uses allowed. Action was taken because of environmental impact - persistence in nature - danger for impact on ecosystems.
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1 Dec 1990	Withdrawal of all remaining products, registrations cancelled. No uses allowed. Human health (acute toxicity) and environmental persistence.
		(Reference: (NZLPBM) Pesticides Board Minutes, , , 1990)

Legislative or regulation action

Product Name	Dieldrin *	
C.A.S. number	60-57-1	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
PAK	1 Jan 1992	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
PHL	15 Dec 1989	The substance is banned for use since 1989. Voluntary withdrawal of product registration by the company in 1986. No remaining uses allowed. Action taken for safety, health and environmental reasons due to the chemicals persistence and bio-accumulation. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PRT	1 Jan 1974	Pesticides based on this product have been banned on account of their toxicological/environmental effect. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SLO	22 Feb 1991	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN	Aug 1988	Dieldrin is prohibited for use as a pesticide because it is highly toxic and readily absorbed through the skin. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
SWE	27 Mar 1969	All uses as a pesticide have been banned because of high acute toxicity and environmental impact. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 27 Mar 1969)
TGO	1977	Restricted for use against termites outside food producing culture zones. It is a toxic product with residual and cumulative effect. Therefore it is dangerous for human health and the environment. (Reference: (MINAR) Ministère de l'Aménagement Rural, , ,)
THA	2 May 1995	All use categories have been banned. Persistence in the environment. Bioaccumulation of residues in food chain and human tissues. Highly toxic to fish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
TUR		Banned for sale and/or use due to health risks and environmental impact.
USA	1 May 1987	The substance is banned for use. In June 1972, EPA cancelled all registrations of products containing dieldrin except for termite control, nursery dipping of roots and tops of non-food plants and moth-proofing of woolen textile and carpets. Hearings beginning in 1974, as well as voluntary cancellations, resulted in the cancellation of all products containing dieldrin except for termite control. In 1983, EPA requested additional toxicology and exposure data to perform a complete risk assessment of termiticide uses. In May 1987, the sole manufacturer requested voluntary cancellations of the termiticide use. No remaining uses allowed. Dieldrin has caused liver tumors in mice and may pose a significant health risk of chronic liver effects to occupants of treated buildings. Dieldrin is also extremely toxic to aquatic organisms and birds. Dieldrin is persistent and bioaccumulates and may have the potential to contaminate surface water.

Legislative or regulation action

Product Name		Dieldrin *
C.A.S. number		60-57-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
VEN	1983	(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,) The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)
YUG	1982	Dieldrin is banned from any use whatsoever because of its exceptional persistence in the environment.
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FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 22, 1993		
FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 93, 1993		
Product Name		Dienochlor
C.A.S. number		2227-17-0
Scientific and common names, and synonyms		
BI-2,4-CYCLOPENTADIEN-1-YL, 1,1',2,2',3,3',4,4',5,5'-DECACHLORO-BIS(PENTACHLOROCYCLOPENTADIENYL)		
BIS(PENTACHLORO-2,4-CYCLOPENTADIENYL-1-YL)		
BI-2,4-CYCLOPENTADIEN-1-YL, DECACHLORO-DECACHLOROBIS-2,4-CYCLOPENTADIENYL-1-YL		
1,1',2,2',3,3',4,4',5,5'-DECACHLOROBIS-2,4-CYCLOPENTADIENYL-1-YL		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
AUT	1 Jan 1993	All uses banned. High acute human toxicity by inhalative reabsorption and persistence in the environment. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and

Legislative or regulation action

Product Name **Dienochlor**

C.A.S. number **2227-17-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)

Product Name **Diethylene glycol monobutyl ether acetate**

C.A.S. number **124-17-4**

Scientific and common names, and synonyms

ETHANOL, 2-(2-BUTOXYETHOXY)-, ACETATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	Pesticides for household and public health use containing this chemical have been banned for importation, exportation, manufacture and handling. Possible effects of the chemical on human beings or animals are considered to be too dangerous to justify its use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Diethylstilbestrol**

C.A.S. number **56-53-1**

Scientific and common names, and synonyms

ALPHA,ALPHA'-DIETHYL-(E)-4,4'-STILBENEDIOL
DIETHYLSTILBOESTROL
PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS-, (E)-
STILBOESTROL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
PHL		This hormonal compound, used to promote growth in livestock and poultry, has been prohibited for use for this purpose. The production of DES premix is also prohibited. This action was taken since it has been definitely established that DES residues are found in the livers of slaughtered animals fed or implanted with DES and the compound is a known carcinogen. (Reference: (PHADO) Administrative Order, 194, , 1973)

Bibliographical references

IARC MONOGRAPH, 6, 55, 1974
IARC MONOGRAPH, 21, 173, 1979
IARC MONOGRAPH, SUPPL.4, 184, 1982

Product Name **Difenzoquat methyl sulfate**

C.A.S. number **43222-48-6**

Scientific and common names, and synonyms

AVENGE

Legislative or regulation action

Product Name **Difenzoquat methyl sulfate**

C.A.S. number **43222-48-6**

Scientific and common names, and synonyms

AC 84777

FINAVEN

MATAVEN

YEH-YAN-KU

1,2-DIMETHYL-3,5-DIPHENYL-1-H-PYRAZOOM METHYL SULFATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN		This product is prohibited for use as a pesticide because it is highly toxic and cumulative. (Reference: (OSUMH) Order of the USSR Ministry of Health, 123-5/232-23, , 25 Feb 1982)

Product Name **Diflubenzuron**

C.A.S. number **35367-38-5**

Scientific and common names, and synonyms

BENZAMIDE, N-[[[4-CHLOROPHENYL)AMINO]CARBONYL]-2,6-DIFLUORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ		Severely restricted. Use in cotton only. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Dikushuang**

C.A.S. number **26907-37-9**

Scientific and common names, and synonyms

METHANEDIAMINE, N,N'-BIS(1,3,4-THIADIAZOL-2-YL)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHN	1 Sep 1986	Dikushuang has been banned for registration, production, sale and use as a pesticide. No remaining use allowed. Dikushuang can lead to teratogenesis in animal toxicological testing and to dermatitis and poisoning in productive workers. Its use will produce severely harmful effects to human health. (Reference: (CHNBPR) Bulletin of Pesticide Registration, , ,)

Product Name **Dimefox**

C.A.S. number **115-26-4**

Scientific and common names, and synonyms

PHOSPHORODIAMIDIC FLUORIDE, TETRAMETHYL-

PHOSPHORODIAMIDIC FLUORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name **Dimefox**

C.A.S. number **115-26-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	The substance is banned for use. Extremely toxic, use not warranted. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JOR	29 Oct 1980	The chemical is banned. It is prohibited to place on the market or use plant protection products containing Dimefox. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
SUN		Dimefox is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Extremely hazardous and risk to workers in formulation plant and during application by spraying because of very high acute toxicity. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Dimetan**

C.A.S. number **122-15-6**

Scientific and common names, and synonyms

CARBAMIC ACID, DIMETHYL-, 5,5-DIMETHYL-3-OXO-1-CYCLOHEXEN-1-YL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	Banned since 01.01.88 in all applications where food contact is possible. Voluntarily withdrawn by the manufacturer since October 1991. All uses are banned as from 20.02.92. Poison by ingestion (oral-rat LD50: 120 mg/kg). Many carbamates have carcinogenic, teratogenic and mutagenic properties. The N-alkyl-carbamates can react with nitrite to form N-nitroso compounds. Though no specific data are available for this substance, we refer to the general problems caused by carbamates in developing countries (in Third World Countries poisoning are mainly caused by organophosphate and carbamates, especially since the replacement of organochlorine pesticides). The reason of the withdrawal (Ciba Geigy) seems only to be of commercial interest (outdated pesticide). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Dimethoate**

C.A.S. number **60-51-5**

Scientific and common names, and synonyms

ACETIC ACID, O,O-DIMETHYLDITHIOPHOSPHORYL-,N-MONOMETHYLAMIDE SALT

DIMETHOAT (NLD)

DIMETHOAT (NLD)

DITHIOPHOSPHATE DE O,O-DIMETHYLE ET DE S-(N-METHYLCARBAMOYL-METHYLE) (FRA)

N-MONOMETHYLAMIDE OF O,O-DIMETHYLDITHIOPHOSPHORYLACETIC ACID

O,O-DIMETHYL S-(N-METHYLCARBAMOYLMETHYL)DITHIOPHOSPHATE

O,O-DIMETHYL ESTER PHOSPHORODITHIOIC ACID S-ESTER WITH 2-MERCAPTO-N- METHYLACETAMIDE

O,O-DIMETHYL METHYLCARBAMOYLMETHYL PHOSPHORODITHIOATE

O,O-DIMETHYL S-(2-(METHYLAMINO)-2-OXOETHYL)PHOSPHORODITHIOATE

Legislative or regulation action

Product Name **Dimethoate**

C.A.S. number **60-51-5**

Scientific and common names, and synonyms

O,O-DIMETHYL S-(N-METHYLCARBAMOYLMETHYL)PHOSPHORODITHIOATE
 O,O-DIMETHYL S-(N-METHYLCARBAMYL METHYL) THIOTHIONOPHOSPHATE
 O,O-DIMETHYL S-(N-MONOMETHYL)-CARBAMYL METHYL DITHIOPHOSPHATE
 O,O-DIMETHYL-S-(N-METHYL-CARBAMOYL)-METHYL-DITHIOFOSFAAT (NLD)
 O,O-DIMETHYL-S-(N-MONOMETHYL)CARBAMYL-METHYL-DITHIOPHOSPHORSAEUREESTER (DEU)
 O,O-DIMETHYLDITHIOPHOSPHORYLACETIC ACID, N-MONOMETHYLAMIDE SALT
 O,O-DIMETHYL METHYLCARBAMOYLMETHYL PHOSPHORODITHIOATE
 PHOSPHORODITHIOIC ACID, O,O-DIMETHYL S-[2-(METHYLAMINO)-2-OXOETHYL]ESTER
 PHOSPHORODITHIOIC ACID, O,O-DIMETHYL ESTER, S-ESTER WITH 2-MERCAPTO-N- METHYLACETAMIDE
 S-METHYLCARBAMOYLMETHYL O,O-DIMETHYL PHOSPHORODITHIOATE
 (O,O-DIMETHYL-S-(N-METHYL-CARBAMOYL-METHYL)-DITHIOPHOSPHAT) (DEU)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	Severely restricted. Emulsifiable concentrate formulation only. Suspected oncogenicity and mutagenicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CYP	Nov 1982	Registration of dust formulations withdrawn by the Pest Control Products Board due to possible health risks. This decision was based on that of EPA of the USA.
KOR	25 Feb 1981	Due to high toxicity to honey bee, the use of this product is prohibited during the blooming periods. Preharvest intervals were established for the safe use of this product. High toxicity to honey bee. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it. Permitted in agricultural chemicals. Action taken due to risks of mutagenic and carcinogenic effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	May 1982	Dimethoate is an organophosphate insecticide and acaricide which is registered for use on a wide variety of crops: grains, fruits and nuts, vegetables, and ornamentals. The Environmental Protection Agency has determined that the use of dimethoate poses risks of mutagenic, reproductive and fetotoxic effects, and that the risk of oncogenic effects warrants further study. On January 19,1981 EPA cancelled the dimethoate registrations for dust formulations and has continued to unconditionally deny all applications for that type of registration. For all other uses of dimethoate, special clothing and equipment for applicators is now mandatory. (Reference: (FEREAC) Federal Register, 46, 5334, 1981)

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Legislative or regulation action

Product Name **Dimethoate**

C.A.S. number **60-51-5**

FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 77, 1994
FAO PLANT PRODUCTION & PROTECTION PAPER, 131/1, 383, 1994

Product Name **Dinocap**

C.A.S. number **39300-45-3**

Scientific and common names, and synonyms

2-BUTENOIC ACID, 2(OR 4)-ISOOCTYL-4,6(OR 2,6)-DINITROPHENYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	16 Oct 1990	Temporary suspension of import, sale and use of products for agricultural use based on this active ingredient. Temporary suspension of registration of products containing this active ingredient. (Suspende temporariamente la importación, comercialización y uso de productos de aplicación agrícola a base de este principio activo. Suspende temporariamente la inscripción de los productos con este principio activo.) Protection of human health and environment. Risk of teratogenicity in mice and rats. (Protección de la salud humana y medio ambiente; riesgos debidos a efectos teratogénicos en ratas y ratones.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1990	Banned for use as a pesticide. No remaining uses allowed. This substance was suspended due to its teratogenicity in mice and rabbits. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Dinoseb (amine)**

C.A.S. number **6365-83-9**

Scientific and common names, and synonyms

BUTOPHEN
CHEMOX SELECTIVE
DOW SELECTIVE
DNBP AMMONIUM SALT
PHENOL, 2-SEC-BUTYL-4,6-DINITRO-, AMINE DERIV.
SINOX W
SELECTIVE
2-SEC-BUTYL-4,6-DINITROPHENOL AMMONIUM SALT
2-(1-METHYL-N-PROPYL) 4,6-DINITROPHENOLAMMONIUM SALT
4,6-DINITRO-O-SEC-BUTYLPHENOL AMMONIUM SALT
4,6-DINITRO-2-SEC-BUTYLPHENOL AMMONIUM SALT
4,6-DINITRO-2-SEC-BUTYLPHENOLATE AMMONY (CZECH)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
GBR	22 Jan 1988	Approval for all pesticidal uses in agriculture and horticulture have been revoked due to evidence of teratogenic and possible carcinogenic effects in mammalian species. (Reference: (NAFEP) Notice of Approval issued under Part III of the Food and Environment Protection Act), , , 1985)

Product Name **Dinoseb ***

C.A.S. number **88-85-7**

Legislative or regulation action

Product Name **Dinoseb ***

C.A.S. number **88-85-7**

Scientific and common names, and synonyms

6-(1-METIL-PROPI)-2,4-DINITRO-FENOLO (ITA)
 6-(1-METHYL-PROPYL)-2,4-DINITROFENOL (NLD)
 DNBP
 DINOSEBE (FRA)
 DINITROBUTYLPHENOL
 DINITROBUTILFENOL
 PHENOL, 2-SEC-BUTYL-4,6-DINITRO
 PHENOL 2-(1-METHYLPROPYL)-4,6-DINITRO
 PHENOL, 2-(1-METHYLPROPYL)-4,6-DINITRO-
 PHENOL 2-SEC-BUTYL-4,6-DINITRO
 2,4-DINITRO-6-SEC-BUTYLPHENOL
 2-(1-METHYLPROPYL)-4,6-DINITROPHENOL
 2-SEC-BUTYL-4,6-DINITRO PHENOL
 2,4-DINITRO-6-(1-METHYL-PROPYL) PHENOL (FRA)
 4,6-DINITRO-2-(1-METHYL-N-PROPYL)PHENOL
 4,6-DINITRO-2-SEC-BUTYLPHENOL (CSK)
 4,6-DINITRO-O-SEC-BUTYLPHENOL
 4,6-DINITRO-2-SEC-BUTYLPHENOL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1990	The placing on the market and the use of all plant protection products containing dinoseb, its acetate or its salts, as an active ingredient is prohibited. The use of dinoseb, its acetate and salts in plant protection products is likely to give rise to harmful effects in human and animal health as well as unreasonable adverse influence on the environment. Dinoseb has been classified by the EC as category 2 and category 3 reproductive toxin (should be regarded as if it impairs fertility in humans; substance which causes concern for humans owing to possible developmental toxic effects). Directive 90/533/EEC of 15.10.90. (Reference: (OJEC) Official Journal of the European Communities, L296/63, , 27 Oct 1990)
ARM	1986	Dinoseb is banned for use as an agricultural chemical (pesticide). Dinoseb is suspected of causing birth defects for women of child-bearing age. Highly toxic to birds, mammals and invertebrates. Both acute and reproductive effects. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUS	1 Apr 1989	All uses cancelled. No remaining uses allowed. The control action is based on health concerns: teratogenic (rabbit), carcinogenic (mice). (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, , , 1986)
AUT	20 Feb 1992	The control action applies to dinoseb, its salts and esters. All uses banned. High acute toxicity. Furthermore they have been found in animal studies to result in high risks of birth defects and male sterility. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BLZ	14 Jul 1990	The substance is banned for use. Suspected carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
BRA	01 Jan 2002	The chemical is severely restricted due to high toxicity to man, birds, fish and other organisms. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)

Legislative or regulation action

Product Name	Dinoseb *	
C.A.S. number	88-85-7	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
CAN	30 Mar 1994	Severely restricted as from 14.2.1990 - early cane control for raspberries in British Colombia and weed control in beans and peas in British Colombia and Atlantic provinces. Was used for potato top killer. Other suspended uses include: weed control in potatoes, pre-harvest desiccation in forage legumes grown for seed and non-selective weed control in industrial areas. Banned as from 01.11.90. Use for early cane control for raspberries discontinued 30.03.94. Use is still allowed for weed control in beans and peas in British Columbia and the Atlantic provinces where weather and weed spectra are the critical factors dictating its use. Significant health risks for applicators in handling dinoseb products. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHN	1 May 1994	Severely restricted for registration, production, sale and use as a pesticide. Highly toxic, lead to acute and delayed poisoning. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
COL	14 Apr 1987	The importation, manufacture and sale of agricultural pesticides containing the active ingredient dinoseb is banned. Reasons for the control action: banned at the request of the Ministry of Health because of its potential effects on human reproduction. (Reference: (RNCOL) Resolution, 930, , 14 Apr 1987)
CYP	12 Dec 1987	Banned for all use as a pesticide due to the risk associated with birth defects, male sterility and high acute toxicity. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 12 Dec 1987)
DEU	29 Mar 1991	Totally banned for use as plant protection product. Teratogenic effects in animal experiments; compliance with EEC regulations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK	Sep 1984	Registration withdrawn from September 1, 1984.
ECU	1985	Registration is prohibited because it causes environmental pollution, produces toxic effects and has been banned in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
FIN	30 Sep 1987	Total ban for use as a pesticide. Reasons for banning was the risk associated with birth defects, male sterility and high acute toxicity. (Reference: (FINPB) Decision of the Pesticide Board, , , 06 Feb 1987)
GAM	17 Feb 1997	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	22 Jan 1988	Approval for all pesticidal uses in agriculture and horticulture have been revoked due to evidence of teratogenic and possible carcinogenic effects in mammalian species. (Reference: (NAFEP) Notice of Approval issued under Part III of the Food and Environment Protection Act), , , 1985)
HUN	30 Jun 1988	Banned pesticide. Banned for all agricultural use. No remaining uses allowed. Risk of birth defects in pregnant women, male sterility. High acute toxicity. (Reference: (HUNODW) Official Document of Withdrawal, , , 1987)
IRN	12 May 1998	The chemical is banned. Prohibited for plant protection use. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
KAZ	23 Mar 1986	Banned for all uses as highly toxic substance with pronounced dermal absorption. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1980	Banned for use as a pesticide. No remaining uses allowed. Banned by EPA. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name	Dinoseb *	
C.A.S. number	88-85-7	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
KYR	27 Jul 2001	The chemical is banned. The substance is banned by an order of the Ministry of Health of the ex-USSR and by the Ordinance of the Government of the Kyrgyz Republic. All uses are banned. (Reference: (KYROD) , No. 376, , 27 June 2001) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
NLD	1 Jan 1990	It is prohibited to sell, stock, store or use all pesticides containing dinoseb as active ingredient. Reasons for the control action: a) teratogenic; b) effects on fertility; c) persistent in the environment; and d) leaching into groundwater. (Reference: (NLDRC) Letter of the Registration Committee, , , 30 Oct 1988)
NOR	1 Jan 1982	Dinoseb is banned for use as a pesticide. No remaining uses allowed. The action was taken as the substance had some unwanted toxicological properties, and as it was not strictly needed anymore, it was banned. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1 May 1988	Voluntary withdrawal of all products, registrations cancelled. No uses allowed. Human health reasons (acute toxicity, teratogenicity). (Reference: (NZLPBM) Pesticides Board Minutes, , , 1988)
PAK		Prohibited. Never registered in Pakistan. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
PHL		Not applicable. No registered uses. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SLO	13 Jun 1997	Banned for use in agriculture. These chemicals were banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Dinoseb is not approved for use as a pesticide because it is highly toxic and easily absorbed through the skin. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
SWE	1 Oct 1971	Banned because of its high acute toxicity. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 31 Dec 1966)
THA	2 May 1995	All use categories have been banned. High risks of birth defects in test animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	8 Jun 1988	The substance is banned for use(includes parent chemical as well as four salts). In October 1986, the sale, distribution and use of all pesticides containing dinoseb or dinoseb salts were immediately suspended by emergency order. The registrations were finally cancelled 08.06.88. Sale and use of existing stock were permitted for certain uses during 1988/89. EPA has after this consolidated and incinerated the majority of the stocks. No remaining uses allowed. The suspension and cancellation of dinoseb pesticides were based primarily on evidence that dinoseb exposure poses a risk of birth defects, male sterility, cataracts, damage to the immune system, and acute toxicity to agricultural workers. Dinoseb is acutely toxic to humans and poses a health risk to mixers, loaders, and applicators, as well as to persons entering treated fields or exposed

Legislative or regulation action

Product Name	Dinoseb *	
C.A.S. number	88-85-7	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		through spray drift. Several fatalities have been attributed to dinoseb poisoning. Dinoseb has been found to be acutely toxic to mammals, birds, and certain aquatic animals, and has been found to pose a threat to the continued existence of more than 30 endangered species. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name	Dinoseb-acetate	
C.A.S. number	2813-95-8	
Scientific and common names, and synonyms		
6-SEC-BUTYL-2,4-DINITROPHENYLACETATE		
ARETIT (THE PHENOL)		
ACETIC ACID, (2,4-DINITRO-6-SEC-BUTYLPHENYL) ESTER		
ACETIC ACID, (4,6-DINITRO-2-S-BUTYLPHENYL) ESTER		
ARETIT		
BETA-(2-HYDROXY-3,5-DINITROPHENYL)BUTANE ACETATE		
HOE 2904		
IVOSIT		
O-ACETYL-2-SEC-BUTYL-4,6-DINITROPHENOL		
PHENOL, 2-(1-METHYLPROPYL)-4,6-DINITRO-, ACETATE (ESTER)		
PHENOL 2-1-METHYLPROPYL)-4,6-DINITRO-, ACETATE (ESTER) (9CI)		
PHENOL 2-SEC-BUTYL-4,6-DINITRO-, ACETATE (ESTER) (8CI)		
PHENOTAN		
2,4-DINITRO-6-S-BUTYLFENYLESER KYSELINY OCTOVE (CZECH)		
2-SEC-BUTYL-4,6-DINITROPHENYLACETATE		
2-(1-METHYLPROPYL)-4,6-DINITROPHENYL ACETATE		
4,6-DINITRO-2-S-BUTYLPHENYL ACETATE		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1990	The placing on the market and the use of all plant protection products containing dinoseb, its acetate or its salts as an active ingredient are prohibited. The use of dinoseb, its acetate and its salts in plant protection products is likely to give rise to harmful effects on human and animal health as well as unreasonable adverse influence on the environment. Dinoseb has been classified by the EC as category 2 and category 3 reproductive toxin (should be regarded as if it impairs fertility in humans; substance which causes concern for humans owing to possible developmental toxic effects). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CYP	12 Dec 1987	Banned for all use as a pesticide due to the risk associated with birth defects, male sterility and high acute toxicity. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 12 Dec 1987)
DEU	29 Mar 1991	Totally banned for use as plant protection product. Teratogenic effects in animal experiments; compliance with EEC regulations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	30 Sep 1987	Total ban for use as a pesticide. Reasons for banning was the risk associated with birth defects, male sterility and high acute toxicity.

Legislative or regulation action

Product Name		Dinoseb-acetate
C.A.S. number		2813-95-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (FINPB) Decision of the Pesticide Board, , , 06 Feb 1987)
GBR	22 Jan 1988	Approval for all pesticidal uses in agriculture and horticulture have been revoked due to evidence of teratogenic and possible carcinogenic effects in mammalian species. (Reference: (NAFEP) Notice of Approval issued under Part III of the Food and Environment Protection Act), , , 1985)
HUN	30 Jun 1988	Banned pesticide. Banned for all agricultural use. No remaining uses allowed. Risk of birth defects in pregnant women, male sterility, high acute toxicity. (Reference: (HUNODW) Official Document of Withdrawal, , , 1987)
Product Name		Dinoterb
C.A.S. number		1420-07-1
Scientific and common names, and synonyms		
PHENOL, 2-(1,1-DIMETHYLETHYL)-4,6-DINITRO-		
PHENOL, O-T-BUTYL-4,6-DINITRO-		
2-TERT-BUTYL-4,6-DINITROPHENOL		
2-TERT-BUTYL-4,6-DINITROPHENOL (IUPAC)		
2-(1,1-DIMETHYLETHYL)-4,6-DINITROPHENOL		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	06 Oct 1998	The chemical is banned. It is prohibited to place on the market or use plant protection products containing dinoterb. Dinoterb is not included as an active ingredient in Annex I to Directive 91/414/EEC. The authorizations for plant protection products containing dinoterb were withdrawn within a period of 6 months from the Commission Decision 98/269/EC. From the date of the decision, no authorization for plant protection products containing dinoterb will be granted or renewed. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
AUT	20 Feb 1992	The control action applies to dinoterb, its salts and esters. All uses banned. High human toxicity and suspected teratogenic properties. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BLZ		Dinoterb is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
GBR	22 Jan 1988	Approval for all pesticidal uses in agriculture and horticulture have been revoked due to evidence of teratogenic and possible carcinogenic effects in mammalian species. (Reference: (NAFEP) Notice of Approval issued under Part III of the Food and Environment Protection Act), , , 1985)
HUN	1979	The product was withdrawn. It was found to be replaceable by more efficient and less toxic chemicals. (Reference: (HUNODW) Official Document of Withdrawal, , , 1979)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Extremely hazardous and risk to workers in formulation plant and during application by spraying because of very high acute toxicity.

Legislative or regulation action

Product Name		Dinoterb
C.A.S. number		1420-07-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
Product Name		Dinoterb acetate
C.A.S. number		3204-27-1
Scientific and common names, and synonyms		
PHENOL, 2-(1,1-DIMETHYLETHYL)-4,6-DINITRO-, ACETATE (ESTER)		
PHENOL, O-T-BUTYL-4,6-DINITRO-, ACETAE (ESTER)		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	Dinoterb acetate is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
Product Name		Dioxacarb
C.A.S. number		6988-21-2
Scientific and common names, and synonyms		
CIBA 8353		
C-8353		
DU PONT INSECTICIDE 1519		
DU PONT 1519		
DIAMIDE		
ENT 27,389		
ELOCRON		
ELECRO 50		
FAMID		
NSC 190981		
O-(1,3-DIOXOLAN-2-YL)PHENYL METHYLCARBAMATE		
2-(1,3-DIOXOLANE-2-YL)PHENYL N-METHYLCARBAMATE		
2-(1,3-DIOXOLAN-2-YL)PHENYL N-METHYLCARBAMAT (GERMAN)		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	Dioxacarb is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
Product Name		Diquat
C.A.S. number		2764-72-9
Scientific and common names, and synonyms		
DIPYRIDO[1,2-A:2',1'-C]PYRAZINEDIIUM, 6,7-DIHYDRO-		

Legislative or regulation action

Product Name **Diquat**
C.A.S. number **2764-72-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	29 Mar 1991	Severely restricted for use as plant protection product. Use still allowed as a desiccant in potato, for acceleration of ripening in oil seed rape, field beans and fodder peas as well as desiccant in clover and lucerne for producing seed. Close similarity to paraquat (chemically as well as with regard to its behaviour in the environment: accumulation in soil). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Diquat dibromide**
C.A.S. number **85-00-7**

Scientific and common names, and synonyms

DIPYRIDO[1,2-A:2',1'-C]PYRAZINEDIIUM, 6,7-DIHYDRO-, DIBROMIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Aug 1998	All authorizations for products containing diquat as an active substance have been withdrawn from the market 31 December 1997 and a further use has been banned from 01 August 1998. No use are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Diquat is assessed to be unacceptable persistent in soil and toxic to the aquatic environment and to wild birds and mammals. The product is therefore assessed to be harmful to the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jun 1994	Banned for use as a pesticide. No remaining uses allowed. The action was taken for environmental and health reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Disodium arsenate**
C.A.S. number **7778-43-0**

Scientific and common names, and synonyms

ARSENIC ACID (H₃ASO₄), DISODIUM SALT

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	26 Jul 1989	The substance is severely restricted for use. On June 30, 1988 EPA announced its final decision to cancel most uses of sodium arsenate. The decision was contested by four registrants (enabling their products to remain on the market). Treatment of wood against fungus decay and wood boring insects is still allowed. Remaining use is minor. Exposure to sodium arsenate has been linked to carcinogenic, mutagenic, and acutely toxic effects. Sodium arsenate is also moderately toxic to birds and aquatic invertebrate species, and is slightly toxic to fish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Disodium methylarsonate (DSMA)**
C.A.S. number **144-21-8**

Scientific and common names, and synonyms

Legislative or regulation action

Product Name	Disodium methylarsonate (DSMA)		
C.A.S. number	144-21-8		
Scientific and common names, and synonyms	ARSONIC ACID, METHYL-, DISODIUM SALT		
Legislative or regulatory action			
Country	Effective Date	Description of action taken Grounds for decision	
BLZ	14 Jul 1990	Severely restricted. Use only in cotton. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)	

Product Name	Disulfoton	
C.A.S. number	298-04-4	
Scientific and common names, and synonyms	<div>DITHIODEMETON</div> <div>DITHIOPHOSPHATE DE O,O-DIETHYL ET DE S-(2-ETHYLTHIO-ETHYLE) (FRA)</div> <div>DITHIOSYSTOX</div> <div>DITHIODEMETON</div> <div>DI-SYSTON</div> <div>ETHYL THIOMETON</div> <div>ETHYLTHIOMETON B</div> <div>O,O-DIETHYL-S-(2-(ETHYLTHIO)ETHYL) DITHIOPHOSPHATE</div> <div>O,O-DIAETHYL-S-(2-AETHYLTHIO-AETHYL)-DITHIOPHOSPHAT (DEU)</div> <div>O,O-DIETHYL 2-ETHYLTHIOETHYL PHOSPHORODITHIOATE</div> <div>O,O-DIETHYL S-(2-(ETHYLTHIO)ETHYL) ESTER PHOSPHORODITHIOIC ACID</div> <div>O,O-DIETHYL S-(2-(ETHYLTHIO)ETHYL) DITHIOPHOSPHATE</div> <div>O,O-DIETHYL S-(2-ETHYLTHIOETHYL) PHOSPHORODITHIOATE</div> <div>O,O-DIETHYL S-(2-ETHYLTHIOETHYL)THIOTHIONOPHOSPHATE</div> <div>O,O-DIETHYL S-2-(ETHYLTHIO)ETHYL ESTER PHOSPHORODITHIOIC ACID THIODEMETON</div> <div>O,O-DIETHYL S-2-ETHYLTHIOETHYL PHOSPHOROTHIOATE</div> <div>O,O-DIETHYL-S-(2-(ETHYLTHIO)ETHYL) ESTER PHOSPHORODITHIOIC ACID DITHIODEMETON</div> <div>O,O-DIETHYL-S-(2-(ETHYLTHIO)ETHYL) PHOSPHORODITHIOATE</div> <div>O,O-DIETHYL-S-(2-ETHYLMERCAPTOETHYL) DITHIOPHOSPHATE</div> <div>O,O-DIETHYL-S-(2-ETHYLTHIO-ETHYL)-DITHIOFOSFAAT (NLD)</div> <div>O,O-DIETHYL-S-(2-ETHYLTHIOETHYL) PHOSPHORODITHIOATE</div> <div>O,O-DIETHYL-S-(2-ETHYLTHIOETHYL)THIOTHIONOPHOSPHATE</div> <div>O,O-DIETHYL-S-2-(ETHYLTHIO) ETHYL PHOSPHORODITHIOATE</div> <div>O,O-ETHYL S-2(ETHYLTHIO)ETHYL PHOSPHORODITHIOATE</div> <div>O,O-DIETHYL S-2-(ETHYLTHIO)ETHYL ESTER PHOSPHORODITHIOIC ACID</div> <div>PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-(ETHYLTHIO)RTHYL ESTER</div> <div>PHOSPHORODITHIONIC ACID, S-2-(ETHYLTHIO)ETHYL-O,O-DIETHYL ESTER</div> <div>PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[2-(ETHYLTHIO)ETHYL] ESTER</div> <div>S-2-(ETHYLTHIO)ETHYL O,O-DIETHYL ESTER OF PHOSPHORODITHIOIC ACID</div> <div>THIODEMETON</div>	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
BLZ		Disulfoton is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to

Legislative or regulation action

Product Name **Disulfoton**

C.A.S. number **298-04-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
HUN	1979	The product was withdrawn. It was found to be replaceable by more efficient and less toxic chemicals. (Reference: (HUNODW) Official Document of Withdrawal, , , 1979)
IND	2 Aug 1975	Registration refused. Action taken as substance is highly toxic and hazardous and particularly when phorate granules with encapsulation to make it safe is being registered. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	25 Feb 1981	The use of this product is strictly prohibited to paddy field. Pre-harvest interval was established for the safe use of this product. Health risk and environmental impact. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it in excess of 5%. Action taken due to high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MUS	1970	Restricted use under the Pesticide Control Act 1970.
PAK	1 Jan 1992	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Disulfoton is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Extremely hazardous and risk to workers in formulation plant and during application by spraying because of very high acute toxicity. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

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Product Name **Diuron**

C.A.S. number **330-54-1**

Scientific and common names, and synonyms

AF 101
 CEKIURON
 CRISURON
 DIATER
 DURAN
 DREXEL DIURON 4L
 DMU
 DIURON (ACGIH,DOT)
 DIUROL

Legislative or regulation action

Product Name **Diuron**

C.A.S. number **330-54-1**

Scientific and common names, and synonyms

DIUREX
DYNEX
DICHLORFENIDIM
DREXEL
DI-ON
DCMU
DAITER
DAILON
DIREX 4L
DIURON 4L
FARMCO DIURON
HERBATOX
HW 920
KARMEX
KARMEX DIURON HERBICIDE
KARMEX DW
MARMER
N'-(3,4-DICHLOROPHENYL)-N,N-DIMETHYLUREA
NA 2767 (DOT)
SUP'R FLO
TELVAR
TELVAR DIURON WEED KILLER
UREA, N'-(3,4-DICHLOROPHENYL)-N,N-DIMETHYL-
UROX D
USAF P-7
USAF XR-42
UNIDRON
VONDURON
1,1-DIETHYL-3-(3,4-DICHLOROPHENYL)UREA
1-(3,4-DICHLOROPHENYL)-3,3-DIMETHYLUREE (FRENCH)
3-(3,4-DICHLORO-FENYL)-1,1-DIMETHYL-UREA (ITALIAN)
3-(3,4-DICHLOROPHENYL)-1,1-DIMETHYLUREA
3-(3,4-DICHLOROPHENOL)-1,1-DIMETHYLUREA
3-(3,4-DICHLOR-PHENYL)-1,1-DIMETHYL-HARNSTOFF (GERMAN)
3-(3,4-DICHLORO-FENYL)-1,1-DIMETHYLUREUM (DUTCH)

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
ANG	19 Aug 1990	Banned for use. No remaining uses allowed. The product Karmex is banned for use for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN	Jan 1988	Diuron is prohibited for use as a pesticide because it is carcinogenic and persistent. (Reference: (OSUMH) Order of the USSR Ministry of Health, 123-9/317-23, , 08 May 1987)
SWE	1 Jan 1993	Voluntarily withdrawn from use in agriculture. Approval for use as antifouling agent denied. Substance is classified as carcinogenic.

Legislative or regulation action

Product Name	Diuron	
C.A.S. number	330-54-1	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)		
Product Name	DNOC	
C.A.S. number	534-52-1	
Scientific and common names, and synonyms		
DINITROMETHYL CYCLOHEXYLTRIENOL		
DINITROL		
DINITRO-O-CRESOL		
PHENOL, 2-METHYL-4,6-DINITRO-		
2-METHYL-4,6-DINITROPHENOL (CAS)		
2,4-DINITRO-O-CRESOL		
2,4-DINITRO-6-METHYLPHENOL		
3,5-DINITRO-O-CRESOL		
4,6-DINITRO-O-CRESOL (IUPAC)		
4,6-DINITRO-O-CRESOL		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	16 Aug 1999	The chemical is banned. It is prohibited to place on the market or use plant protection products containing DNOC. DNOC is not included as an active ingredient in Annex I to Directive 91/414/EEC. The authorizations for plant protection products containing DNOC were withdrawn within a period of 6 months from the date of notification of the Commission Decision 1999/164/EC. From the date of the notification, no authorization for plant protection products containing DNOC will be granted or renewed. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
BLZ	28 Dec 1985	DNOC is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
CYP	30 Apr 2000	4,6 - dinitro-o-cresol is banned for use as a pesticide. No uses remain. In human beings and animals DNOC acts as a powerful cumulative metabolic poison, with irreversible effects on basic organs. There is a danger of chronic poisoning with repeated uptake. Easily absorbed through skin and inhalation. DNOC is toxic to fish, birds and beneficial insects and mites, snails and earthworms. Persistent in soil and water. (Reference: (CYPPAB) Pesticide Authorization Board, , , 17 May 1999)
GBR	31 Dec 1989	All agricultural uses revoked under Control of Pesticides Regulations. Action taken due to evidence of teratogenicity in related compounds. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PER	9 Oct 2000	DNOC is banned. No uses remain. Extremely toxic to humans. Symptoms of acute toxicity include profuse sweating, thirst, fatigue, lethargy, headache, nausea, loss of appetite, collapse, coma and yellowish-green pigmentation of the conjunctiva. Effects on the cardiovascular system, the gastrointestinal system and the central nervous system have been observed in workers exposed to this chemical. Exposure to high levels of DNOC for short periods can cause convulsions, loss of consciousness and death. The ingestion of DNOC over lengthy periods can cause cataracts and skin rash. Slightly toxic to fish and bees. Highly phytotoxic.

Legislative or regulation action

Product Name **DNOC**
C.A.S. number **534-52-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SLO	13 Jun 1997	(Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,) Banned for use in agriculture. This chemical was banned from the use due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		DNOC is severely restricted for use as a pesticide and herbicidal use is prohibited because it is highly toxic and highly cumulative, with embryotoxic and gonadotoxic properties. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)
SWE	31 Dec 1966	Banned because of its high acute toxicity. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 31 Dec 1966)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Extremely hazardous and risk to workers in formulation plant and during application by spraying because of very high acute toxicity. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

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WHO FOOD ADD., 26.65, , 1965
 WHO FOOD ADD., 27.65, , 1965

Product Name **Drazoxolon**
C.A.S. number **5707-69-7**

Scientific and common names, and synonyms

3-METHYL-4,5-ISOXAZOLEDIONE-4-((2-CHLOROPHENYL)HYDRAZONE)
 4-(2-CHLOROPHENYLHYDRAZONE)-3-METHYL-5-ISOXAZOLONE)
 4,5-ISOXAZOLEDIONE, 3-METHYL-, 4-((O-CHLOROPHENYL)HYDRAZONE)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
HUN	1979	The product was withdrawn. It was found to be replaceable by more efficient and less toxic chemicals. (Reference: (HUNODW) Official Document of Withdrawal, , , 1979)

Product Name **Endosulfan**
C.A.S. number **115-29-7**

Scientific and common names, and synonyms

5-NORBORNENE-2,3-DIMETHANOL, 1,4,5,6,7,7-HEXACHLORO-, CYCLIC SULFITE
 6,9-METHANO-2,4,3-BENZODIOXATHIEPIN, 6,7,8,9,10,10-HEXACHLORO-1,5,5A,6,9,9A-HEXAHYDRO-, 3-OXIDE
 6,7,8,9,10,10-HEXACHLORO-1,5,5A,6,9,9A-HEXAHYDRO-6,9-METHANO-2,4,3- BENZODIOXATHIEPIN-3-OXIDE
 6,7,8,9,10,10-HEXACHLORO-1,5,5A,6,9,9A-HEXAHYDRO-6,9-METHANO-2,4,3
 ALPHA,BETA-1,2,3,4,7,7-HEXACHLOROBICYCLO(2.2.1)-2-HEPTENE-5,6- BISOXYMETHYLENE SULFITE
 ALPHA,BETA-1,2,3,4,7,7-HEXACHLOROBICYCLO(2,21)-2-HEPTENE-5,6-F ISOXYMETHYLENE
 DIOXATHIEPIN-3-OXIDE

Legislative or regulation action

Product Name **Endosulfan**

C.A.S. number **115-29-7**

Scientific and common names, and synonyms

HEXACHLOROHEXAHYDROMETHANO 2,4,3-BENZODIOXATHIEPIN-3-OXIDE
 SULFUROUS ACID CYCLIC ESTER WITH 1,4,5,6,7,7-HEXACHLORO-5-NORBORNENE-2, 3-DIMETHANOL
 1,4,5,6,7,7-HEXACHLORO-5-NORBORNENE-2,3-DIMETHANOL CYCLIC SULPITE
 1,3,4,5,7,7-HEXACHLORO-5-NORBORNENE-2,3-DIMETHANOL
 1,2,3,4,7,7-HEXACHLOROBICYCLO(2.2.1)HEPTEN-5 6-BIOXYMETHYLENE SULFITE
 1,2,3,4,7,7-HEXACHLOROBICYCLO(2,2,1)HEPTEN-5 6-BIOXYMETHYLENE SULFITE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1995	Endosulfan is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
CAN		Registered for commercial use only. "Commercial" refers to use by operators engaged in commercial pest control (i.e. not consumer use in and around home).
CAN		Registered for commercial use only. "Commercial" refers to use by operators engaged in commercial pest control, not consumer use in and around home. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DMA		Severely restricted pesticide. (Reference: (DMAPC) Pesticide Control Board, , , 1986)
DNK		Considered to be a severely restricted pesticide by authorities. Approved for very specific uses.
FIN	1 Mar 1984	Use as a pesticide severely restricted. The chemical can be sold only to professionals who have a special permission given by the authorities. It may be used on gooseberry- and currant-bushes until one week after the flowering, on strawberry plants after the harvest and in nurseries for garden plants. No other uses are allowed. High risk to human health and the environment, e.g. bioaccumulation. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
HUN		May be used only in agriculture where its proper application is ensured by the presence of trained staff and protective equipment.
JOR	01 Jan 1994	The chemical is banned. It is prohibited to place on the market or use plant protection products containing Endosulfan. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
KOR	25 Feb 1981	Classified as an "highly hazardous" and "restricted use" pesticide. Due to high toxicity to fish and shellfish, the use in rice paddy is strictly prohibited. Pre-harvest intervals were established for the safe use of this product. Action taken because of high acute toxicity and high toxicity to fish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it. Permitted in agricultural chemicals. Action taken due to fish toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jun 1993	Severely restricted. Remaining use allowed is in granules as soil insecticides. Remaining use constitutes a minor part of previously allowed or possible uses. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	27 Nov 1989	Endosulfan is banned. No uses remaining. Harmful to environment. (Reference: (NETMAF) Decree of the Ministry of Agriculture and Fisheries, Ministerial order, , , 1989)

Legislative or regulation action

Product Name **Endosulfan**

C.A.S. number **115-29-7**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jan 1999	Endosulfan is banned. No remaining uses. Endosulfan has a low LD50 and is thus characterised as toxic. Endosulfan has high persistence in soil, is extremely toxic to fish and toxic to bees. Some cases of intoxication among workers. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
PHL		Prohibited for use near aquatic ecosystems.
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)
YUG	1972	Its use in agriculture is severely restricted so that it may not be used on tobacco, forage plants, nor on areas where the danger exists of contaminating water or poisoning animals. The restriction was imposed because endosulfan proved harmful to human health and to useful organisms and also because it does not disintegrate readily in the soil, in plants and animals, and it noxiously affects the biocenosis.

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Product Name **Endothal-sodium**

C.A.S. number **129-67-9**

Scientific and common names, and synonyms

7-OXABICYCLO(2.2.1)HEPTANE-2,3-DICARBOXYLIC ACID, DISODIUM SALT

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NZL		Voluntarily withdrawn from the market.
SUN		Endothal-sodium is not approved for use as a pesticide due to its high toxicity. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Legislative or regulation action

Product Name	Endothal-sodium	
C.A.S. number	129-67-9	
Product Name	Endothion	
C.A.S. number	2778-04-3	
Scientific and common names, and synonyms	<div>5-METHOXY-2-(DIMETHOXYPHOSPHINYLTHIOMETHYL)PYRONE-4</div> <div>AC-18,737</div> <div>ENDOCID</div> <div>ENDOCIDE</div> <div>ENT 24,653</div> <div>EXOTHION</div> <div>NIA-5767</div> <div>NIAGRARA 5767</div> <div>O,O-DIMETHYL S-(5-METHOXYPYRONYL-2-METHYL) THIOSPHATE</div> <div>O,O-DIMETHYL S-(5-METHOXY-PYRON-2-YL)METHYL)-THIOLPHOSPHAT (GERMAN)</div> <div>O,O-DIMETHYL S-(5-METHOXY-4-OXO-4H-PYRAN-2-YL)PHOSPHOROTHIOATE</div> <div>PHOSPHATE 100</div> <div>PHOSPHOPYRON</div> <div>PHOSPHOPYRONE</div> <div>S-((5-METHOXY-4H-PYRON-2-YL)-METHYL)-O,O-DIMETHYL-MONOTHIOFOSFAAT (DUTCH)</div> <div>S-((5-METHOXY-4H-PYRON-2-YL)-METHYL)-O,O-DIMETHYL-MONOTHIOFOSPHAT (GERMAN)</div> <div>S-((5-METOSI-4H-PIRON-2-IL)-METIL)-O,O-DIMETIL-MONOTIOFOSFATO (ITALIAN)</div> <div>S-(5-METHOXY-4-PYRON-2-YLMETHYL) DIMETHYL PHOSPHOROTHIOATE</div> <div>S-5-METHODXY-4-OXOPYRAN-2-YLMETHYL DIMETHYL PHOSPHOROTHIOATE</div> <div>THIOPHOSPHATE DE O,O-DIMETHYLE ET DE S-((5-METHODXY-4-PYRONLY)-METHYLE) (FRENCH)</div>	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SUN		Endothion is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
Product Name	Endrin	
C.A.S. number	72-20-8	
Scientific and common names, and synonyms	<div>ENDO,ENDO-1,2,3,4,10,10-HEXACHLOR-6,7-EPOXY-1,4,4A,5,6,7,8,8A- OCTAHYDRO-1,4:5,8-DIMETHANONAPHTHALENE</div> <div>ENDRINE (FRA)</div> <div>HEXACHLOROEOXYOCTAHYDRO-ENDO,ENDO-DIMETHANONAPHTHALENE</div> <div>1,4:5,8-DIMETHANONAPHTHALENE, 1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4, 4A,5,6,7,8,8A-OCTAHYDRO-, ENDO,ENDO-</div> <div>2,7:3,6-DIMETHANONAPHTH[2,3-B]OXIRENE, 3,4,5,6,9,9-HEXACHLORO-1A,2,2A,3,6,6A,7,7A-OCTAHYDRO-, (1A.ALPHA.,2.BETA.,2A.BETA.,3.ALPHA.,6.ALPHA.,6A.BETA.,7</div>	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1988	Member States shall ensure that plant protection products containing this active substance alone or in combination with other active substances listed may neither be placed on the market nor used, except as an acaricide on cyclamen. OJEC L33,36,1979;

Legislative or regulation action

Product Name		Endrin
C.A.S. number		72-20-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1991	OJEC L91,35,1983; OJEC L154,48,1985 (as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L273, 40, , 1987)
		It is prohibited to use or place on the market all plant protection products containing endrin as an active ingredient. No remaining uses allowed. Endrin is persistent in the environment. It is likely to bioaccumulate and produce food-chain effects on terrestrial and aquatic organisms. Endrin is highly toxic to humans and animals. High risk to birds through secondary poisoning. Directive 90/335/EEC of 07.06.90. (Reference: (OJEC) Official Journal of the European Communities, L162/37, , 28 June 1990)
ANG	17 Aug 1990	The control action applies to the product Agrine 19,2% CPE. Agrine was withdrawn from the gamma of products commercialized by Agnan. This control action was adopted worldwide for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ANG		Endrin is banned for use. Use of Endrin was cancelled because of the pesticide's effects on health and the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ARG	16 Oct 1990	Import, production, formulation, sale and use of products for agricultural use containing this active ingredient are banned. The National Register of Plant Protection will cancel the registrations of formulated products for agricultural use containing this active ingredient. (Prohíbe la importación, fabricación, fraccionamiento, comercialización y uso de productos de aplicación agrícolas formulados a base de este principio activo. El Registro Nacional de Terapéutica Vegetal procederá a cancelar las inscripciones de todos los productos de uso agrícola formulados a base de este principio activo.) Protection of human health and environment. Reduction of residues in agricultural products for human consumption. (Protección de la salud humana y el medio ambiente. Reducción de efectos residuales en productos agrícolas para el consumo humano.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUS	21 Dec 1987	Importation of the chemical is prohibited unless specifically approved by the Government (21 December 1987). All uses on cotton, tobacco, fruit trees and vegetable crops have been cancelled (dates vary from State to State). No remaining uses allowed. The persistence of the chemical makes it environmentally unacceptable. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , 1986)
AUT	20 Feb 1992	All uses banned. High acute toxicity, persistence in the environment and its teratogenic potential (effects on spermatogenesis fertility and embryo). (Reference: (AUTFLG) Federal Law Gazette, No. 97, , , 1992)
BEL	1963	Authorizations for use withdrawn on account of toxicity to man.
BGR		Banned for use in agriculture.
BLZ	28 Dec 1985	Endrin is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, , 1985)
CAN	1971	Most food uses were phased out due to toxicity.
CHE	1 Sep 1986	Totally banned chemical: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited. Long persistence, bioaccumulation. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
CHL	5 Jan 1983	Application of the product to natural or artificial meals used directly or in concentrated form as animal feed is prohibited. Its use is prohibited on seeds, grain etc. This measure

Legislative or regulation action

Product Name		Endrin
C.A.S. number		72-20-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		was taken to protect public health and the environment. (Reference: (MINAC) Ministry of Agriculture, Crops and Livestock Div. Decision No., 4, , 1985)
CHN		Banned for registration, sale and use as a pesticide. The chemical has never been produced and used as a pesticide . Highly persistent. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
COL	27 Jan 1986	The importation, manufacture and sale of pesticides for agricultural use incorporating endrin as an active ingredient are prohibited throughout the national territory due to the high risk to human health and to the environment. (Reference: (ICA) Resolution of the Colombian Agricultural and Livestock Institute, No. 1849, , 25 Sep 1985)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide (La sustancia esta prohibida para su use, produccion e importacion como plaguicida). The pesticide is highly toxic and poses potential risks to humans and animals when contacts their skin. Was proven to have a teratogenic and carcinogenic effects in various species of mammals. (Este plaguicida presenta una alta toxicidad con su piel. Se han comprobado efectos teratogenicos y carcinogenicos en diferentes especies de mamiferos). (Reference: (CUBMSP) Ministro de Salud Publica, Resolucion No., , 1990)
CYP	8 Dec 1980	Banned for all use as a pesticide. No remaining uses allowed. Health risks and environmental hazard due to its high acute toxicity, it is suspected to cause teratogenic effects in humans and its persistence and bioaccumulation of residues. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1980)
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
DNK		Restricted in accordance with EEC-Directive 79/117. No registration in Denmark.
ECU		Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
FIN	1979	Withdrawn from the market by the manufacturers at the recommendation of the authorities, citing incidents of poisoning and other health risks related to its use. Restricted since 1970. Use was allowed only with permission from Plant Protection Agency. (Reference: (FDPPA) Decision of the Plant Protection Agency, , , 1979)
GBR	1 Oct 1984	Use as an acaricide in agriculture and horticulture withdrawn (1984) because of its high acute toxicity to man and wildlife and its persistence in the environment (potential to accumulate in birds, fish and other animals). (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 1749, , 1983)
IND	25 May 1990	Banned. Action taken due to toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1975	Prohibited for use (including use as bait), sale, storage and formulation due to the risk of toxicological danger to humans and the environment, bioaccumulation and the danger of contamination of food and water supplies.
JOR	01 Jan 1981	The chemical is banned. It is prohibited to place on the market or use plant protection products containing Endrin. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
JPN	2 Oct 1981	Designated as a "first class specified chemical substance". Without authorization from

Legislative or regulation action

Product Name	Endrin	
C.A.S. number	72-20-8	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		the Government its manufacture and import are prohibited. Uses other than those specified by Cabinet Order are prohibited. It is prohibited to import specified products containing the substance. These prohibitions are due to the substance's hazardous properties in terms of persistence, bioaccumulative characteristics and chronic toxicity. (Reference: (JPNCO) Japanese Cabinet Order, , , 14 Aug 1979)
KEN	Feb 1987	Total ban of the pesticide. Action taken because of health hazards. (Reference: (KENPC) Decision of the Pest Control Products Board PCPB/CONF/1, , , 02 Feb 1987)
KOR	9 Aug 1991	Banned for production, import, use, and sale of endrin and preparations containing it. Permitted as additive in industrial products. Action taken due to persistence of residue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
LKA	1 Jan 1970	Endrin is banned for use as a pesticide. No remaining uses allowed. Control action taken due to high toxicity to humans and reduction of non-target organisms and long persistence of residues. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1984)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Interdit en agriculture depuis 1984.) No remaining uses allowed. (Toute utilisation dudit pesticide est interdite.) High toxicity, persistence in the environment and bioaccumulation of residues in the food chain. (Toxicité élevé, persistance dans l'environnement et bioaccumulation des résidus dans la chaîne alimentaire.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MUS	1970	Restricted use under the Pesticide Control Act 1970.
NLD	1 Jan 1981	It is prohibited to sell, stock, store or use all pesticides containing endrin as active ingredient, except: 1) as an acaricide on cyclamen; 2) treatment against arvicola terrestris I. in orchards without subcultivation. Pesticides containing endrin are prohibited because endrin accumulates in the food chain and is highly persistent in the environment. This decision was enforced by Directive 79/117 of the European Communities published in OJEC L33/39,8.2.1979.
NOR	1 Jan 1966	Endrin is banned for use as a pesticide. No remaining uses allowed. Action taken for toxicological reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1 Oct 1976	Withdrawal of all remaining products, registrations cancelled. No uses allowed. Human health (acute toxicity) and environmental persistence. (Reference: (NZLACB) Agricultural Chemicals Board Minutes, , , 1976)
PAK	15 Oct 1985	The government has cancelled the registration of endrin due to toxicological reasons.
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PER	12 Sep 1991	Endrin is banned. No uses remaining. May cause depression of the immune response. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
PHL		Banned for use and/or sale.
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources.

Legislative or regulation action

Product Name		Endrin
C.A.S. number		72-20-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (MINHS) Ministry of Health, , , 1983)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN	Aug 1988	Endrin is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
SWE	20 Sep 1966	Banned because of its high acute toxicity and environmental impact. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 20 Sep 1966)
TGO	1977	No longer used for any culture. Efficient but very toxic. Was accepted as an insecticide for cotton culture. Is illegally used on other plants in particular market-garden produce; pollution of water courses caused poisoning of fishes. Accidental and premeditated intoxications are frequent with this product. (Reference: (MINAR) Ministère de l'Aménagement Rural, , ,)
THA	2 May 1995	All use categories have been banned. Persistence in the environment. Highly toxic to mammals and fishes. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
TUR		Banned for sale and/or use due to health risks and environmental impact.
USA	1 Jan 1984	The substance has been voluntarily withdrawn by the registrant. After an intensive evaluation of pesticide products containing endrin, EPA cancelled in 1979 a number of major uses of the compound but allowed use on cotton to continue provided significant new restrictions were followed (new label directions, protective clothing). Because of several fish/bird poisoning incidents associated with use of endrin, EPA scheduled a review of remaining uses in 1983. In 1984, the sole manufacturer of the technical ingredient voluntarily cancelled its remaining products. No remaining uses allowed. The use of the pesticide endrin has been found to cause significant population reductions of non-target organisms and poses a risk of developmental toxicity and carcinogenicity to humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	Aug 1985	Voluntary cancellation by the registrant. Endrin will not be manufactured in USA for export to other countries. Endrin is persistent, bioaccumulative and highly toxic to wild-life and is suspected to cause teratogenic effects in humans. (US Department of State, Washington, D.C., USA, 29 December 1984).
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)
YUG	1972	Its use in agriculture is severely restricted so that it can be used only to combat voles in orchards or enclosed areas, but only in periods of abeyant vegetation. On areas treated with it, growing root and tuberous vegetables is prohibited for a period of three years. In addition, domestic animals are forbidden access to such areas for 6 months. The restriction was imposed because endrin is harmful to human health and to useful

Legislative or regulation action

Product Name **Endrin**

C.A.S. number **72-20-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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organisms and because it is persistent in soils and is not readily metabolized in plants and animals. Moreover it adversely affects the biocenosis.

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IPCS HEALTH AND SAFETY GUIDE, 60, , 1991
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Product Name **EPN**

C.A.S. number **2104-64-5**

Scientific and common names, and synonyms

BENZENE PHOSPHONIC ACID, THIONO-, ETHYL-P-NITROPHENYL ESTER
ETHOXY-4-NITROPHENOXYOPHENYLPHOSPHINE SULFIDE
ETHYL P-NITROPHENYL BENZENETHIONOPHOSPHONATE
ETHYL P-NITROPHENYL BENZENETHIOPHOSPHATE
ETHYL P-NITROPHENYL BENZENETHIOPHOSPHONATE
ETHYL P-NITROPHENYL THIONOBENZENE PHOSPHATE
ETHYL P-NITROPHENYL THIONOBENZENE PHOSPHONATE
O-ETHYL O-P-NITROPHENYL PHENYLPHOSPHONOTHIOATE
O-AETHYL-O-(4-NITRO-PHENYL)-PHENYL-MONOTHIOPHOSPHONAT (DEU)
O-ETHYL O-(4-NITROPHENYL)PHENYLPHOSPHONOTHIOATE
O-ETHYL O-P-NITROPHENYL PHENYLPHOSPHOROTHIOATE
O-ETHYL PHENYL P-NITROPHENYL THIOPHOSPHONATE
O-ETHYL-O-((4-NITRO-FENYL)-FENYL)-MONOTHIOPHOSFONAT (NLD)
O-ETIL-O-((4-NITRO-FENIL)-FENIL)-MONOTHIOPHOSFONATO (ITA)
O-ETHYL O-(4-NITROPHENYL)BENZEUETHIONOPHOSPHONATE
PHOSPHONOTHIOIC ACID, PHENYL-, O-ETHYL O-(4-NITROPHENYL) ESTER
PHENOL, P-NITRO-, O-ESTER WITH O-ETHYL PHENYL PHOSPHONOTHIOATE
PHENYLPHOSPHONOTHIOATE O-ETHYL-O-P-NITROPHENYL
PHENYLTHIOPHOSPHONATE DE O-ETHYLE ET O-4-NITROPHENYLE (FRA)
PHOSPHONOTHIOIC ACID, PHENYL-, O-ETHYL O-(P-NITROPHENYL) ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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IDN Never been registered. It was suspected to cause adverse effect to human health and other living things.

(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

IND **1 Oct 1973** Registration refused. Action taken in view of its toxicity to human beings and animals.

(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **EPN**

C.A.S. number **2104-64-5**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	25 Feb 1981	Classified as an "highly hazardous" and "restricted use" pesticide. Due to high toxicity to honey bee, the use of this product is prohibited during the blooming periods. The use of this product is strictly prohibited to rice plant. Pre-harvest intervals were established for the safe use of this product. High acute toxicity and high toxicity to honey bee. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
NZL		Voluntarily withdrawn from the market.
PHL		Banned for use and/or sale as a pesticide.
USA	23 Dec 1987	The substance has been voluntarily withdrawn by the registrant. Based on concerns about risks to applicators and non-target species, EPA decided to conduct a special analysis of risks and benefits of EPN in 1987. Following this decision, all registrants of technical and formulated EPN products (except one) voluntarily cancelled their registrations. When the remaining formulator failed to supply data required for continued registrations, EPA terminated the special analysis of EPN on December 23, 1987. No remaining uses allowed. EPN has been shown to produce delayed neurotoxic effects in animal studies. These health effects are of concern to mixers/loaders, applicators, and field workers. Also, dietary exposure to EPN through the consumption of treated foods is a concern as were the risks of reduced local/ regional populations of organisms such as honeybees; and, risks of acute toxicity to aquatic organisms. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA		Cancellations of all registrations of EPN-containing products for use as mosquito larvicides. 2. Cancellation of registrations and denial of future applications for registration of products for use on cotton, soybeans, corn, pecans and other food crops unless registrants modify the conditions of registration as specified by EPA. Product labels must include the phrase: "protective clothing required." (Reference: (FEREAC) Federal Register, 48(31.8), 39494, 1983)

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IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986

Product Name **Epoxiconazole**

C.A.S. number **106325-08-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jan 2000	Epoxiconazole has no remaining uses allowed. It has induced cancer and effects on reproduction in animals tests and there is therefore a high risk for this to happen to humans. High persistence in soil. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **EPTC**

C.A.S. number **759-94-4**

Legislative or regulation action

Product Name **EPTC**

C.A.S. number **759-94-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jan 1999	EPTC is severely restricted. Withdrawn by importer. Still allowed to be used for beans, but product was withdrawn when prohibited from use on potatoes due to small market size. High mobility. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Erionite**

C.A.S. number **66733-21-9**

Scientific and common names, and synonyms

ERIONITE (CAKNA(AL2SI7O18)2.14H2O)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jul 1991	Banned. Erionite is carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Ethiofencarb**

C.A.S. number **29973-13-5**

Scientific and common names, and synonyms

PHENOL, 2-[(ETHYLTHIO)METHYL]-, METHYLCARBAMATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1993	Voluntarily withdrawn. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Ethofenprox**

C.A.S. number **80844-07-1**

Scientific and common names, and synonyms

BENZENE, 1-[[2-(4-ETHOXYPHENYL)-2-METHYLPROPOXY]METHYL]-3-PHENOXY-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 May 1990	Restricted for use near fish farm, waterways and lake because of its high fish toxicity. High toxicity to fish and shellfish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Ethoprophos**

C.A.S. number **13194-48-4**

Scientific and common names, and synonyms

ETHOPROPHOS

Legislative or regulation action

Product Name **Ethoprosfos**

C.A.S. number **13194-48-4**

Scientific and common names, and synonyms

MOCAP

O-ETHYL,S,S-DIPROPYLPHOSPHORODITHOATE

O-ETHYL S,S-DIPROPYL PHOSPHORODITHOATE

O-ETHYL S,S-DIPROPYL ESTER PHOSPHORODITHIOIC ACID

O-ETHYL S,S-DIPROPYL DITHIOPHOSPHATE

PHOSPHORODITHIOIC ACID, O-ETHYL S,S-DIPROPYL ESTER

PROPHOS(ESTER)

PHOSPHORODITHIOIC ACID, O-ETHYL S,S-DIPROPYL ESTER

S,S-DIPROPYL O-ETHYL PHOSPHORODITHOATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	Approved for use only as a soil nematicide and insecticide. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
KOR	25 Feb 1981	Due to high toxicity to fish and shellfish, the use of this product is prohibited in neighboring fish farm of waterways. Pre-harvest intervals were established for the safe use of this product. High toxicity to fish and shellfish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
PHL		Considered too hazardous for general use. Restricted to institutional use on banana plantations only.

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FAO PLANT PRODUCTION & PROTECTION PAPER, 86/2, 85, 1987

Product Name **Ethyl hydrosulfide**

C.A.S. number **75-08-1**

Scientific and common names, and synonyms

ETHANETHIOL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	Products, which inhibit human functional system transiently in order to protect oneself or attack the others, containing this chemical have been banned for importation, exportation, manufacture and handling. A high risk to human health as a powerful counter irritant which may be abused when used in spray form. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Ethylen Chlorohydrin**

C.A.S. number **107-07-3**

Legislative or regulation action

Product Name **Ethylen Chlorohydrin**

C.A.S. number **107-07-3**

Scientific and common names, and synonyms
ETHANOL, 2-CHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. High human toxicity, its suspected mutagenic properties and reproductive potential (fetotoxicity, specific developmental abnormalities). 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

Product Name **Ethylene dibromide (EDB) ***

C.A.S. number **106-93-4**

Scientific and common names, and synonyms
AETHYLENBROMID (DEU)
ALPHA,BETA-DIBROMOETHANE
BROMURO DIETILE (ITA)
DIBROMURO DE ETILENO (MEX)
DIBROMURE D'ETHYLENE (FRA)
DIBROMURO DE GLICOL
DWUBROMOETAN (POL)
DIBROMOETHANE
ETHYLENE BROMIDE
ETHANE, 1,2-DIBROMO-
GLYCOL BROMIDE
GLYCOL DIBROMIDE
SYM-DIBROMOETHANE
1,2-DIBROMAETHAN (DEU)
1,2-DIBROOMETHAAN (NLD)
1,2-DIBROMOETHANE (USA)
1,2-DIBROMOETHANE
1,2-DIBROMOETANO (ITA)
1,2-DIBROMETHANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1988	Member States shall ensure that plant protection products containing this active substance alone or in combination with other active substances listed may neither be placed on the market nor used. (Council Directive 79/117/EEC - OJEC L33,36,1979 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L273, 40, 1987)
@EC	1 Jan 1988	The placing on the market and the use of plant protection products containing 1,2-dibromoethane is prohibited. Industrial uses are still allowed. The use of 1,2-dibromoethane as a plant protection product, in particular to fumigate plants and soil, is likely to give rise to harmful effects on human and animal health as well as unreasonable adverse influence on the environment. The chemical has been classified by the EC as a category 2 carcinogen (probably carcinogenic to humans). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ARG	16 Oct 1990	Import, production, formulation, sale and use of products for agricultural use containing

Legislative or regulation action

Product Name		Ethylene dibromide (EDB) *
C.A.S. number		106-93-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		this active ingredient are banned. The National Register of Plant Protection will cancel the registrations of formulated products for agricultural use containing this active ingredient. (Prohíbe la importación, fabricación, fraccionamiento, comercialización y uso de productos de aplicación agrícolas formulados a base de este principio activo. El Registro Nacional de Terapeutica Vegetal procedera a cancelar las inscripciones de todos los productos de uso agrícola formulados a base de este principio activo.) Protection of human health and environment. Risk of possible carcinogenicity. (Protección de la salud humana y el medio ambiente. Riegos por posibles efectos cancerígenos.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUS	22 Dec 1977	Total ban on use of Ethylene dibromide. All registrations for use cancelled. Prohibited due to compromise of human health. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUT	20 Feb 1992	All uses banned. Mutagenic and reproductive potential (effects on spermatogenesis and fertility, fetotoxicity) and carcinogenic effects in experimental animals. The substance is suspected to be a potential human carcinogen. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BLZ		EDB is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
BRA	01 Jan 2002	The chemical is severely restricted to protect users, non-target species and the environment. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CAN	1 Jan 1984	Suspended/banned. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHL	7 Feb 1985	Use prohibited for fumigation of fruit and vegetables in order to protect the public health and environment. (Reference: (MINSC) Ministerio de Salud Decree No., 107, , 1985)
CHN		EDB has been banned for registration, production, import, sale and use as a pesticide. All existing EDB must be destroyed. No remaining uses are allowed. EDB has never been produced, imported and used as a pesticide. EDB is highly mutagenic and carcinogenic. Its use will produce severely harmful effects to human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
COL	5 Jun 1985	The import, production and sale of all pesticide formulations for agricultural use containing ethylene dibromide as the active ingredient are prohibited. Use within the country represents a high risk to the health of the community. The product was prohibited at the request of the Ministry of Health, taking into consideration its potential risk of producing effects of sterility and cancer, based on a bibliographic review carried out by the Environmental Protection Agency of the United States. (Reference: (RNCOL) Resolution, 1158, , 05 June 1985)
CYP	12 Mar 1987	Total ban as a pesticide. Reasons for the control action: Banning was due to the high risks to human health (sterility, cancer) associated with its use by farmers. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 20 Oct 1987)
DEU	1 Sep 1988	Totally banned for use as plant protection product. Carcinogenic effect in animal experiments; compliance with EEC regulations.

Legislative or regulation action

Product Name		Ethylene dibromide (EDB) *
C.A.S. number		106-93-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
FIJ		Restricted to use for export quarantine fumigation (fruit fly) by professional trained operators. Banned for local use. Limited use for fumigation of fruit fly host commodities for export to only those countries that require this particular treatment. Followed recommendations by EPA. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GAM	17 May 1994	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	Jan 1985	Use of EDB in combination with other liquid fumigants to disinfest cereal grains in food storage practice withdrawn (1981). Withdrawal of use as a spot fumigant in food storage practice except for use by professional operators. Withdrawal of all fumigant uses in food storage practice because EDB has been shown to be a potential carcinogen. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 1700, , 1982)
KEN	22 Apr 1985	Total ban as a pesticide. Banning was due to the heavy risks associated with the pesticide, especially to small-scale farmers and risk of contracting cancer. (Reference: (KENPC) Decision of the Pest Control Products Board PCPB/CONF/1, , , 1985)
KOR	9 Aug 1991	Banned for production, import, use and sale of both this substance and preparations containing it is excess of 50%. Action taken due to carcinogenic effect. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1980	Banned for use as a pesticide. No remaining uses allowed. Action was taken for health reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KYR	27 Jul 2001	The chemical is banned. The substance is banned by an order of the Ministry of Health of the ex-USSR and by the Ordinance of the Government of the Kyrgyz Republic. All uses are banned. (Reference: (KYROD) , No. 376, , 27 June 2001) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
LKA		EDB was not available even prior to legislation. Registration will not be permitted. The control action is based on reports on oncogenicity and reproductive effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1984	Under the provisions of the Toxic Substances Act, this product is available to commercial users only and must be labelled as a dangerous poison. Under the provisions of the Pesticides Regulations (1983) the use of this product is restricted to government quarantine fumigation stations.
PAK	1 Jan 1989	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PHL	15 Dec 1989	The substance is banned for use. No remaining uses allowed. Action taken for safety health and environmental reasons, it has been shown to migrate in soil and is widespread contaminant of groundwater and it poses severe hazards to workers because it can penetrate human skin, rubber, plastic and many types of protective clothing and is highly carcinogenic by inhalation and ingestion.

Legislative or regulation action

Product Name Ethylene dibromide (EDB) *

C.A.S. number 106-93-4

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PRT	1 Jan 1988	Banned. No remaining uses allowed. Action taken because of human health considerations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the National Board of Occupational Safety and Health. Substance proved to be a human carcinogen or to have carcinogenic effects in experimental animals (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	All use categories have been banned. Probably carcinogenic to humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	6 Feb 1993	The substance is banned for use as a pesticide. Following an intensive evaluation of the effects of exposure to the compound in 1977 (concerns of carcinogenic risk), EPA emergency suspended the pre-plant soil fumigation of this compound in Sept. 1983. Following review of residues on treated grains, EPA also emergency suspended registrations for use as fumigant on stored grain and grain milling machinery in Febr. 1984. Remaining pesticidal uses were cancelled in February 1993. No remaining uses allowed. EPA found EDB to pose a significant risk of carcinogenic, mutagenic and adverse reproductive effects in the human population. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

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Product Name Ethylene dichloride

C.A.S. number 107-06-2

Scientific and common names, and synonyms

BROCID
 DUTCH LIQUID
 ETHANE, 1,2-DICHLORO-
 1,2-DICHLOROETHANE

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jun 1988	Member States shall ensure that plant protection products containing this active substance alone or in combination with other active substances listed may neither be placed on the market nor used. (Council Directive 79/117/EEC - OJEC L33,36,1979 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L273, 40, 1987)
@EC	1 Jun 1989	The placing on the market and the use of plant protection products containing 1,2

Legislative or regulation action

Product Name		Ethylene dichloride
C.A.S. number		107-06-2
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		dichloroethane is prohibited. No remaining uses allowed. The use of 1,2 dichloroethane as a plant protection product, in particular to fumigate plants and soil, is likely to give rise to harmful effects on human and animal health as well as unreasonable adverse influence on the environment. 1,2 dichloroethane has been classified by the EC as a category 2 carcinogen (probably carcinogenic to humans). Directive 87/181/EEC of 09.03.87. (Reference: (OJEC) Official Journal of the European Communities, L71/33, , 14 Mar 1987)
AUT	20 Feb 1992	All uses banned. Carcinogenic and mutagenic properties. The substance has a potential for reproductive effects in males and central nervous system effects. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BLZ		Ethylene dichloride is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
BRA	11 Jan 1990	The chemical is severely restricted due to high toxicity to man, birds, fish and other organisms. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
DEU	1 Sep 1988	Totally banned for use as plant protection product. Carcinogenic effect in animal experiments; compliance with EEC regulations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR	1 Jun 1989	All agricultural uses revoked under the Control of Pesticides Regulations. Action taken due to evidence of carcinogenicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN	Aug 1988	Ethylene dichloride is prohibited for use as a pesticide because it is highly toxic and volatile. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)
THA	2 May 1995	Ethylene dichloride was totally banned as a pesticide for export, import, production or possession. Allowed use: industrial as a raw material in manufacture of vinyl chlorided. Possible carcinogen; toxic to humans. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
Bibliographical references		
IARC MONOGRAPH, 20, 429, 1979		
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984		
FAO PLANT PRODUCTION & PROTECTION PAPER, 72/1, , 1985		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 62, , 1986		

Product Name **Ethylene oxide ***

C.A.S. number **75-21-8**

Scientific and common names, and synonyms

ALPHA,BETA-OXIDOETHANE
 AETHYLENOXID (DEU)
 ANPROLENE
 DIHYDROOXIRENE
 DIMETHYLENE OXIDE
 ETO
 E.O.
 EPOXYETHANE (FRA)
 ETHENE OXIDE
 ETHYLEENOXIDE (NLD)
 ETILENE (OSSIDO DI) (ITA)
 ETYLENU TLENEK (POL)
 ETHYLENE (OXYDE D') (FRA)
 NCI-C50088
 OXIRANE
 OXACYCLOPROPANE
 OXANE
 OXIDOETHANE
 OXIRAAN (NLD)
 OXIRAN
 OXIRANE
 OXIRENE, DIHYDRO
 1,2-EPOXYAETHAN (DEU)
 1,2-EPOXYETHANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1991	It is prohibited to use or place on the market all plant protection products containing ethylene oxide as an active ingredient. Pesticidal use for control of wool and fur pests and industrial uses are still allowed. Control of wool and fur pests is not covered by the plant protection legislation. The use of ethylene oxide for the fumigation of plants or plant products in storage leaves residues in foodstuffs which may give rise to harmful effects on human and animal health. Ethylene oxide has been classified by the EC as a category 2 carcinogen (probably carcinogenic to humans). Ethylene oxide has also been classified by the EC as a category 2 mutagen (probably mutagenic to humans). Directive 89/367/EEC.
AUT	20 Feb 1992	All uses banned. Carcinogenic and mutagenic properties. (Reference: (AUTFLG) Federal Law Gazette, , , 1992)
BLZ	28 Dec 1985	Ethylene oxide is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
BRA	04 Jan 2002	The chemical is severely restricted due to high toxicity to man, fish and other organisms. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CHN	1 Jan 1985	Ethylene oxide has been banned for registration, production and use as a pesticide. It has never been produced and used as a pesticide. Ethylene Oxide has been restricted for use in fumigating of empty storehouse, container and cabin only Ethylene oxide is

Legislative or regulation action

Product Name Ethylene oxide *

C.A.S. number 75-21-8

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		highly toxic. Its use will produce severely harmful effects to human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DEU	1 Feb 1981	Totally banned for use as plant protection product. Highly toxic to warm blooded animals and man; suspected of having teratogenic effects; toxicologically critical residues in stored products (reaction with ingredients). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR	31 Oct 1990	All uses revoked under the Control of Pesticides Regulations. No remaining uses allowed. Action taken due to evidence of carcinogenicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	05 Oct 2001	The chemical is severely restricted. All formulations for agricultural use are prohibited, except those for sterilization considered appropriate by the General Direction of Public Health. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2,3, 4,5,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1991	Banned for use as a pesticide. No remaining uses allowed. This substance was suspended due to its carcinogenic properties. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

WHO PESTICIDE RESIDUES SERIES, 1, , 1972
WHO TECHNICAL REPORT SERIES, 502, , 1972
IARC MONOGRAPH, 11, 157, 1976
IARC MONOGRAPH, SUPPL.4, 126, 1982
IARC MONOGRAPH, 36, 189, 1985
IPCS ENVIRONMENTAL HEALTH CRITERIA, 55, , 1985
IPCS HEALTH AND SAFETY GUIDE, 16, , 1988
IARC MONOGRAPH, 60, 73, 1994

Product Name Ethylenebisdithiocarbamic acid

C.A.S. number 111-54-6

Scientific and common names, and synonyms

EBDC

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		Cancellation of registration and denial of future applications for registrations of all EBDC products unless registrants modify the conditions of registration to amend product labels as follows: 1. add a wildlife warning for use of mancozeb on commercially grown wild rice: "This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes." 2. add a requirement that personnel involved in mixing and loading wear protective clothing. 3. indicate preharvest intervals of non-commercial (homeowner)

Legislative or regulation action

Product Name		Ethylenebisdithiocarbamic acid
C.A.S. number		111-54-6
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		products. Applies to ethylenebisdithiocarbamates. (Reference: (FEREAC) Federal Register, 47, 47669, 1982)
Product Name		Ethylformate
C.A.S. number		109-94-4
Scientific and common names, and synonyms		
AREGINAL		
AETHYLFORMIAT (DEU)		
ETILE (FORMIATO DI) (ITA)		
ETHYLFORMIAAT (NLD)		
ETHYLE (FORMIATE D') (FRA)		
ETHYL METHANOATE		
ETHYL FORMIC ESTER		
ETHYL FORMATE		
ETHYL ESTER FORMIC ACID		
FORMIC ETHER		
MROWCZAN ETYLU (POL)		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
NZL		Not considered for registration as a pesticide.
PHL		Prohibited for use except by certified fumigators. Adequate time for aeration is required after treatment before treated commodities are processed into food or feed.
Product Name		Ethylmercury chloride
C.A.S. number		107-27-7
Scientific and common names, and synonyms		
MERCURY, CHLOROETHYL-		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
CHN	17 Jun 1971	The import and production of ethylmercury chloride for agricultural use is prohibited. Ethylmercury chloride is highly toxic and persistent. Its use would represent a severe risk to the health of the community. It has therefore been banned by the Ministry of Public Health. (Reference: (CHNPR) Ministry of Public Health, No.1-(A), , 17 June 1971)
KAZ		Granosan used for presowing treatment of seeds of crops as well as of flax and castor-oil plant. The norm allowed is 1-2 kg/ton. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Fenarimol
C.A.S. number		60168-88-9

Legislative or regulation action

Product Name **Fenarimol**

C.A.S. number **60168-88-9**

Scientific and common names, and synonyms

5-PYRIMIDINEMETHANOL, .ALPHA.-(2-CHLOROPHENYL)-.ALPHA.-(4-CHLOROPHENYL)-
ALPHA-(2-CHLOROPHENYL)-ALPHA-(4-CHLOROPHENYL)-5-PPYRIMIDINEMETHANOL
BLOC
EL 222
RUBIGAN
(2-CHLOROPHENYL)-ALPHA-(4-CHLOROPHENYL)-5-PYRIMIDINEMETHANOL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Aug 1998	The authorizations for products containing fenarimol as an active substance have been withdrawn from the market 31 December 1997 and a further use has been banned from 01 August 1998. No use are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Fenarimol is assessed to be harmful to the unborn child (rep., cat 3), harmful to the male fertility (rep., cat 3) and unacceptably persistent in soil. Products containing fenarimol as an active ingredient are therefore assessed to be harmful to health and to the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		This product is prohibited for use as a pesticide because it is persistent and gonadotoxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)

Product Name **Fenazaflor**

C.A.S. number **14255-88-0**

Scientific and common names, and synonyms

5,6-DICHLORO-2-TRIFLUOROMETHYLBENZIMIDAZOLE-1-CARBOXYLATE
5,6-DICHLORO-1-PHENOXYCARBONYL-2-TRIFLUOROMETHYLBENZIMIDAZOLE
1-BENZIMIDAZOLECARBOXYLIC ACID, 5,6-DICHLORO-2-(TRIFLUOROMETHYL)-, PHENYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)

Product Name **Fenitrothion**

C.A.S. number **122-14-5**

Scientific and common names, and synonyms

PHOSPHOROTHIOIC ACID, O,O-DIMETHYL O-(3-METHYL-4-NITROPHENYL) ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	31 Dec 1998	Severely restricted. Use discontinued in all parts of Canada except New Brunswick. Adverse effects on the aquatic environment, migratory songbirds and bees. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Fenpropathrin**

C.A.S. number **39515-41-8**

Scientific and common names, and synonyms

ALPHA-CYANO-3-PHENOXYBENZYL 2,2,3,3- TETRAMETHYLCYCLOPROPANECARBOXYLLATE
CYCLOPROPANECARBOXYLIC ACID, 2,2,3,3-TETRAMETHYL-, CYANO(3-PHENOXYPHENYL)METHYL ESTER
2,2,3,3-TETRAMETHYL-, CYANO(3-PHENOXYPHENYL)METHYL ESTER CYCLOPROPANECARBOXYLIC ACID

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	15 Apr 1985	Due to high toxicity to fish, shellfish, honey bee and silkworm, the use of this product is prohibited in neighboring fish farm, waterways and mulberry farm during the blooming periods. Pre-harvest intervals were established for the safe use of this product. High toxicity to fish, shellfish, honey bee and silkworm. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
Bibliographical references		
FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 67, 1993		
FAO PLANT PRODUCTION & PROTECTION PAPER, 124, 463, 1993		

Product Name **Fenson**

C.A.S. number **80-38-6**

Scientific and common names, and synonyms

BENZENESULFONIC ACID, 4-CHLOROPHENYL ESTER
BENZENESULFONIC ACID, P-CHLOROPHENYL ESTER
BENZENESULFONIC ACID, 4-CHLOROPHENYL ESTER
P-CHLOROPHENYL BENZENESULFONATE
4-CHLOROPHENYL BENZENESULFONATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KWT	1 Jan 1975	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)

Product Name **Fensulfothion**

C.A.S. number **115-90-2**

Scientific and common names, and synonyms

O,O-DIETHYL O-4-METHYLSULFINYL PHENYL PHOSPHOROTHIOATE
PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-[4-(METHYLSULFINYL)PHENYL] ESTER
PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(P-(METHYLSULFINYL)PHENYL) ESTER

Legislative or regulatory action

Legislative or regulation action

Product Name		Fensulfothion
C.A.S. number		115-90-2
Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	Fensulfothion is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
MUS	1970	Restricted use under the Pesticide Control Act 1970.
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Fensulfothion is acutely toxic and extreme caution is necessary for handling of contaminated articles during mixing, loading and application. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
Bibliographical references		
FAO PLANT PRODUCTION & PROTECTION PAPER, 56, , 1983		
FAO PLANT PRODUCTION & PROTECTION PAPER, 61, , 1983		

Product Name		Fenthion
C.A.S. number		55-38-9
Scientific and common names, and synonyms		
PHOSPHOROTHIOIC ACID, O,O-DIMETHYL O-[3-METHYL-4-(METHYLTHIO)PHENYL] ESTER		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
ANG	19 Aug 1990	The control action applies to the product Baytex 50 EC and Baytex 40 WP. Banned for use. No remaining uses allowed. Banned for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name		Fentin acetate
C.A.S. number		900-95-8
Scientific and common names, and synonyms		
ACETATE DE TRIPEHNYL-ETAIN (IUPAC), (ACETYLOXY) TRIPHENYLSTANNANE (CAS), FENTINE (AFNOR) STANNANE, (ACETYLOXY)TRIPHENYL-		
Legislative or regulatory action		

Country	Effective Date	Description of action taken Grounds for decision
@EC	20 Dec 2002	It is prohibited to place on the market or use plant protection products containing Fentin Acetate. The authorization for plant protection products containing Fentin Acetate had to be withdrawn within a period of six months from the date of adoption of the Commission Decision 2002/478/EC. EU Member States may grant a period of grace for disposal, storage, placing on the market and use of existing stocks, no longer than 18 months from the date of adoption of Commission Decision 2002/478/EC of 20/06/2002 (i.e. until 20/12/2003). Some irritant effects reported in manufacturing plant personnel, pesticide operators and bystanders. Final regulatory action was taken with regard to the fate and behaviour of the substance in the environment and its possible impact on non-target organisms. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
IND		Registration refused. Action taken because of lack of residue information on the items of

Legislative or regulation action

Product Name **Fentin acetate**

C.A.S. number **900-95-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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food and feed of heavy metals.
(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Fentin hydroxide**

C.A.S. number **76-87-9**

Scientific and common names, and synonyms

FINTINE HYDROXIDE (FRA)
FINTIN IDROSSIDO (ITA)
FINTIN HYDROXYDE (NLD)
FINTIN HYDROXID (DEU)
HYDROXYTRIPHENYL TIN
HYDROXYTRIPHENYLSTANNANE
HYDROXYDE DE TRIPHENYL-ETAIN (FRA)
IDROSSIDO DI STAONO TRIFENILE (ITA)
STANNANE, HYDROXYTRIPHENYL-
TRIPHENYL TIN HYDROXIDE (TRIPHENYL TIN (IV) HYDROXIDE) (IUPAC)
TRIPHENYL TIN OXIDE
TRIPHENYL TIN HYDROXIDE
TRIPHENYL-ZINNHYDROXID (DEU)
TRIFENYL-TINHYDROXYDE (NLD)
TIN, HYDROXYTRIPHENYL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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@EC	20 Dec 2002	It is prohibited to place on the market or use plant protection products containing Fentin Hydroxide. The authorizations for plant protection products containing Fentin Hydroxide had to be withdrawn within a period of six months from the date of adoption of Commission Decision 2002/479/EC. EU Member States may grant a period of grace for disposal, storage, placing on the market and use of existing stocks, no longer than 18 months from the date of adoption of Commission Decision 2002/479/EC of 20/06/2002 (i.e. until 20/12/2003). Some irritant effects reported in manufacturing plant personnel, pesticide operators and bystanders. Final regulatory action was taken with regard to the fate and behaviour of the substance in the environment and its possible impact on non-target organisms. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
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IND	16 Oct 1975	Registration refused. Action taken because of lack of residue information on the items of food and feed of heavy metals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
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Bibliographical references

WHO PESTICIDE RESIDUES SERIES, 2, , 1973
WHO TECHNICAL REPORT SERIES, 525, , 1973
FAO PLANT PRODUCTION & PROTECTION PAPER, 78, 187, 1986
FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART1), 337, 1992
FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 72, 1993
FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 107, 1994

Legislative or regulation action

Product Name **Fluazifop-p-butyl**

C.A.S. number **79241-46-6**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jan 1999	Fluazifop-P-butyl is banned. No remaining uses allowed. It has been shown in animal studies that it causes effects on reproduction and that it is a teratogen. Potential to cause same effects in humans. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Flucythrinate**

C.A.S. number **70124-77-5**

Scientific and common names, and synonyms

BENZENEACETIC ACID, 4-(DIFLUOROMETHOXY)-.ALPHA.-(1-METHYLETHYL)-, CYANO(3-PHENOXYPHENYL)METHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jan 1987	Flucythrinate is banned for use as a pesticide. The substance has never been used in the country. The action was taken because of high persistence and toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Fluometil**

C.A.S. number **4301-50-2**

Scientific and common names, and synonyms

[1,1'-BIPHENYL]-4-ACETIC ACID, 2-FLUOROETHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	The substance is banned for use. Superseded compound. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Fluorobenside**

C.A.S. number **405-30-1**

Scientific and common names, and synonyms

SULFIDE, P-CHLOROBENZYL P-FLUOROPHENYL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)

Product Name **Fluoroacetamide ***

C.A.S. number **640-19-7**

Legislative or regulation action

Product Name **Fluoroacetamide ***

C.A.S. number **640-19-7**

Scientific and common names, and synonyms

ACETAMIDE, 2-FLUORO-

ACETAMIDE, 2-FLUORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BRA	04 Jan 2002	The chemical is severely restricted due to the high toxicity to man and other animals and the possibility of water/soil contamination. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CHN	5 Jun 1982	Use of agricultural products and of raticides containing fluoroacetamide is prohibited. Reasons for the control action: These measures were taken upon the request of the Ministry of Health, because fluoroacetamide has high toxic effects on human health. (Reference: (CHNRE) Ministry of Public Health, (82)A-, No.4,)
CYP	1 Nov 1991	Withdrawn by the manufacturer. No remaining uses allowed. Health risks and environmental hazard due to its high acute toxicity to mammals, birds and other non-target species. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1991)
GAM	12 Feb 1997	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
ISR	1967	Use and sale banned without a permit. (Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 2224, 89, 1967)
JPN	Jun 1956	Designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. The use designated by Cabinet Order is limited to exterminating insects which are noxious to such plants as citrus fruits or ornamental plants or their bulbs.
KOR	9 Aug 1991	Banned for production, import, use and sale of both this substance and preparations containing it. Action taken due to high oral toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1975	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MEX	1982	Prohibited agricultural pesticide. Reasons for the control action: protection of health and the environment (because of its high toxicity). (Reference: (MEXMP) Manual de Plaguicidas Autorizados para, , ,)
PAK		Prohibited. Never registered in Pakistan. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Sodium fluoroacetamide: import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
PHL	14 Oct 1981	The substance is banned for use. No remaining uses allowed. The substance is very toxic to mammals, highly toxic by ingestion and by skin absorption. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name		Fluoroacetamide *
C.A.S. number		640-19-7
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	Fluoroacetamide is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
THA	24 Dec 1985	The import, production and sale of products for household and public health use containing this chemical as an active ingredient are prohibited due to their extreme toxicity to warm-blooded animals. Other countries have adopted the regulatory principle that no person shall sell or possess these chemicals. (Reference: (RTSCM) Report of Toxic Substances Committee Meeting, 15, BE.2528, 24 Dec 1985)
USA	Nov 1979	Labelling amended for use only inside of sewers against the Norway and roof rat. It must be used by or under the direct supervision of a certified applicator, due to the acute oral toxicity of the compound.
Product Name		Fluoroacetic acid
C.A.S. number		144-49-0
Scientific and common names, and synonyms		
ACETIC ACID, FLUORO-		
ACETIC ACID, FLUORO		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. High acute toxicity to man and to other mammals and birds. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
DEU	1 Apr 1986	Fluoroacetic acid and its derivatives are prohibited for use as plant protectants. (Reference: (BGBl) Bundesgesetzblatt, IS.363, , 1986)
JPN	Oct 1955	Designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. No use has been designated by Cabinet Order.
PAN	Sep 1987	Fluoroacetic acid and derivatives: import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SLO	13 Jun 1997	Fluoroacetic acid and its salts are banned for use in agriculture. These chemicals were banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Fluorosilicic Acid
C.A.S. number		16961-83-4
Scientific and common names, and synonyms		
SILICATE(2-), HEXAFLUORO-, DIHYDROGEN		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision

Legislative or regulation action

Product Name		Fluorosilicic Acid
C.A.S. number		16961-83-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	The control action applies to hexafluorosilicic acid and its salts. All uses banned. Hexafluorosilicic acid and its salts are banned because of the high human toxicity of hexafluorosilicates. (Reference: (AUTFLG) Federal Law Gazette, No. 97/1992, , 1992)
Product Name		Flusilazol
C.A.S. number		85509-19-9
Scientific and common names, and synonyms		
1H-1,2,4-TRIAZOLE, 1-[[BIS(4-FLUOROPHENYL)METHYLSILYL]METHYL]-		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
LCA	1 Jan 1987	Banned for use as a pesticide. Registration was cancelled. No remaining use allowed. Fluzilazol was withdrawn based on a national review for the protection of human health. (Reference: (LCAPCA) Pesticides Control Act, , , 1975)
Product Name		Flutriafol
C.A.S. number		76674-21-0
Scientific and common names, and synonyms		
IMPACT(PESTICIDE)		
PP 450-5		
PP 450		
R 152450		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	Flutriafol is not approved for use as a pesticide because it is persistent and carcinogenic. (Withdrawn from official State testing in 1987). (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
Product Name		FMC 67825
C.A.S. number		95465-99-9
Scientific and common names, and synonyms		
PHOSPHORODITHIOIC ACID, O-ETHYL-, S,S-BIS (1-METHYLPROPYL)ESTER		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	Severely restricted. Only soil applied use allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Folpet**

C.A.S. number **133-07-3**

Scientific and common names, and synonyms

FTALAN
 N-(TRICHLOROMETILTIO)FTALIMIDA
 N-(TRICHLOROMETHYLTHIO)PHTHALIMIDE
 N-((TRICHLOROMETHYL)THIO)PHTHALIMIDE
 ORTHOPHALTAN
 PHTHALTAN
 PHTHALIMIDE, N-((TRICHLOROMETHYL)THIO)
 THIOPHAL
 1H-ISOINDOLE-1,3(2H)-DIONE, 2-((TRICHLOROMETHYL)THIO)-
 1H-ISOINDOLE-1,3(2H)-DIONE, 2-((TRICHLOROMETHYL)THIO)
 2-((TRICHLOROMETHYL)THIO)-1H-ISOINDOLE-1,3(2H)-DIONE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS	2 Jan 1977	All uses on fruits and vegetables cancelled. No remaining uses allowed. Carcinogenic (mice), gastrointestinal tract adenocarcinomas and live mutagenicity findings with related compound captan. (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, 36, , 1977)
FIN	1972	The Plant Protection Agency has not renewed the license for this product based on evidence of its toxicity.
KOR	25 Feb 1981	Pre-harvest intervals were established for the safe use of this product. Health risk and environmental impact. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS	12 Aug 1988	Folpet is banned. No uses remaining. Folpet may cause skin sentization, mutagenic and carcinogenic effects in man. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
SWE	1 Jan 1988	The substance is severely restricted. Formulations containing folpet were reassigned to Class 1 - May only be used professionally by someone holding a special permit. Use only allowed against fungi on apples, pears and ornamentals. On apples and pears not later than 42 days before harvest. Quantities sold in Sweden have been more than halved since the control action was issued. The substance is carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

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 FAO PLANT PRODUCTION & PROTECTION PAPER, 133, 127, 1995

Product Name **Fomesafen**

C.A.S. number **72178-02-0**

Scientific and common names, and synonyms
FLEX

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	Fomesafen is not approved for use as a pesticide because it is carcinogenic and teratogenic. (Withdrawn from official State testing in 1987). (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Product Name **Fonofos**

C.A.S. number **944-22-9**

Scientific and common names, and synonyms
O-ETHYL S-PHENYL (RS)-ETHYLPHOSPHONODITHIOATE
PHOSPHONODITHIOIC ACID, ETHYL-, O-ETHYL S-PHENYL ESTER
PHOSPHONODITHIOIC ACID, ETHYL-, O-ETHYL S-PHENYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	Severely restricted. Soil applied only. Extreme toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
COL	8 Jan 1992	The substance is banned for import and use in the country. (Prohibida la importacion y el uso en el pais.) No remaining uses allowed. The substance was never registered for sale in Colombia but was imported for application on flowers in greenhouses. (Ninguno. No tuvo jamas licencia de venta en Colombia y era importado por los floricultores para aplicar en invernadero.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	23 Apr 1982	Only one application is allowed as a soil insecticide. Pre-harvest interval was established for the safe use of this product. Health risk and environmental impact. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SUN	Aug 1988	Fonofos is not approved for use as a pesticide because it is highly toxic.
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Extremely hazardous and risk to workers in formulation plant and during application by spraying because of very high acute toxicity. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Formaldehyde**

C.A.S. number **50-00-0**

Legislative or regulation action

Product Name **Formaldehyde**

C.A.S. number **50-00-0**

Scientific and common names, and synonyms

ALDEHYDE FORMIQUE

FORMALDEHYDE

FORMALINA

METHANALE

METANAL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

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IPCS HEALTH AND SAFETY GUIDE, 57, , 1991

IARC MONOGRAPH, 62, 217, 1995

Product Name **Fuberidazole**

C.A.S. number **3878-19-1**

Scientific and common names, and synonyms

1H-BENZIMIDAZOLE, 2-(2-FURANYL)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KWT	1 Jan 1980	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Fumiron**

C.A.S. number **70551-62-1**

Scientific and common names, and synonyms

MERCURY, ϕ N-(4-METHYLPHENYL)BENZENESULFAMIDATO-N)PHENYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHN		Fumiron has been banned for use as a pesticide. It has never been produced and used as a pesticide. The substance is highly toxic and persistent. Its use will produce severely harmful effects to human health. (Reference: (CHNRSU) Regulation on Safe Use of Pesticides, (71) SC No. 2, , ,)

Product Name **Fumiron (with mercury)**

Legislative or regulatory action

Legislative or regulation action

Product Name		Fumiron (with mercury)
Country	Effective Date	Description of action taken Grounds for decision
CHN	17 Jun 1971	The import and production of preparations of fumiron with mercury for agricultural use is prohibited. Preparations of fumiron with mercury are highly toxic and persistent. Their use would represent a severe risk to the health of the community. They have therefore been banned by the Ministry of Public Health. (Reference: (CHNPR) Ministry of Public Health, No.1-(A), , 17 June 1971)
Product Name		Granosan M (1)
C.A.S. number		517-16-8
Scientific and common names, and synonyms		COMPOUND-1452-F CERESAN M-DB CERESAN M-2X CERESAN M ETHYLMERCURY P-TOLUENESULFONANILIDE ETHYLMERCURY P-TOLUENE SULFONAMIDE EMTS MERCURY,(ETHYL(N-PHENYL-P-TOLUENESULFONAMIDO)- MERCURY, ETHYL(N-PHENYL-P-TOLUENESULFONAMIDATO)- N-ETHYLMERCURI-N-PHENYL-P-TOLUENESULFONAMIDE N-(ETHYLMERCURI)-P-TOLUENESULPHONANILIDE N-(ETHYLMERCURI)-P-TOLUENESULFONANILIDE P-TOLUENESULFONANILIDE, N-(ETHYLMERCURI)- P-TOLUENESULFONAMIDE, N-(ETHYLMERCURI)-N-PHENYL-+ (N-PHENYL-P-TOLUENESULFONAMIDO)ETHYLMERCURY
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	Granosan M is prohibited for use as a pesticide because it is highly cumulative (applies to granosan M, to mercur-genkan - a mixture of granosan M, lindane and hexachlorobenzene and to mercurbenzol - a mixture of granosan M and hexachlorobenzene). (Reference: (OSUMH) Order of the USSR Ministry of Health, 123-5/699-23, , 09 Nov 1981)
Product Name		Granosan M (2)
C.A.S. number		2235-25-8
Scientific and common names, and synonyms		MERCURATE(2-), ETHYL[PHOSPHATO(3-)-O]-, DIHYDROGEN
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
KAZ	9 Nov 1981	Banned as highly toxic and highly accumulative substance. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Guazatine**

C.A.S. number **13516-27-3**

Scientific and common names, and synonyms

GUANIDINE, N,N''-(IMINODI-8,1-OCTANEDIYL)BIS-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHN	3 Dec 1990	Iminoctodine triacetate (guazatine) has been banned for registration, production, sale and use as a pesticide. No remaining uses allowed. The substance is highly toxic and can lead to chronic effects. Its use will produce severely harmful effects to human health. (Reference: (CHNBPR) Bulletin of Pesticide Registration, , ,)

Product Name **Guazatine triacetate**

C.A.S. number **57520-17-9**

Scientific and common names, and synonyms

9-AZA-1,17-DIGUANIDINO HEPTADECANE TRIACETATE

GUANIDINE, 1,1'-(IMIMOBIS(OCTAMETHYLENE)) DI-, TRIACETATE

GUANOLTINETRIACETATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Aug 1998	All authorizations for products containing guazatine as an active substance have been withdrawn from the market 31 December 1997 and a further use has been banned from 1 August 1998. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorizations are today given for other purposes. Guazatine is assessed to be toxic to wild mammals and birds when applied as treatment for seed grains. The products are assessed to be seriously damaging to the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN	Aug 1988	Guazatine triacetate is not approved for use as a pesticide because of its persistence and its carcinogenic and reproductive effects. (Reference: (OSUMH) Order of the USSR Ministry of Health, 123-12, 1309..23, 23 Oct 1986)

Product Name **Haloxypop-(2-ethoxyethyl)**

C.A.S. number **87237-48-7**

Scientific and common names, and synonyms

PROPANOIC ACID, 2-(4-((3-CHLORO-5-(TRIFLUOROMETHYL)-2-PYRIDINYL)OXY)PHENOXY)-, 2-ETHOXYETHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jan 1988	Haloxypopetoxyethyl is banned for use as a pesticide. The substance has never been used in the country. Action taken because of carcinogenic effect in animal experiments. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **HCH-mixed isomers ***

C.A.S. number **608-73-1**

Scientific and common names, and synonyms

BENZENEHEXACHLORIDE, MIXED ISOMERS

Legislative or regulation action

Product Name HCH-mixed isomers *

C.A.S. number 608-73-1

Scientific and common names, and synonyms

CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-

CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (MIXED ISOMERS)

TECHNICAL HCH (APPROX. 64% ALPHA, 10% BETA, 13% GAMMA, 9% DELTA, 1% EPSILON ISOMERS)

1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE (MIXTURE OF ISOMERS)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1981	It is prohibited to use or place on the market all plant protection products with HCH containing less than 99% of the gamma isomer. HCH containing less than 99% of the isomer is persistent in the environment. It is likely to bioaccumulate and produce food-chain effect on terrestrial and aquatic organisms. HCH containing less than 99% of the gamma isomer is classified by the EC as a category 3 carcinogen (possibly carcinogenic to humans). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
@EC	1 Jan 1988	Member States shall ensure that plant protection products containing this active substance alone or in combination with other active substances listed may neither be placed on the market nor used. OJEC L33,36,1979; OJEC L91,35,1983; OJEC L154,48,1985 (as last amended by the reference given). (Applies to HCH containing less than 99.0% of the gamma isomer).
ARG	2 Oct 1980	Prohibition of manufacturing, importation, formulation, commerce and use. (Applies to all isomers except gamma-HCH). (Reference: (ALEYA) Argentinian Legislation, Ley, 22289, , , 1980)
AUS	21 Dec 1987	Importation of BHC (or HCH (mixed isomers)) is prohibited unless specifically approved by the Government (21 December 1987). All agricultural uses were cancelled (dates vary from State to State). The persistence of the chemical makes it environmentally unacceptable. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , 1986)
AUT	20 Feb 1992	The control action applies to HCH containing less than 99.5% gamma isomers. Banned since 01.01.88 in all applications where food contact is possible. All uses banned as of 20.02.92. High persistence in the environment, its bioaccumulation in the food chain and in human tissues. Carcinogenic effects were detected in animal studies. There is evidence that HCH-isomers act as a tumor promoter previously initiated by other chemicals. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , , 1992)
BGR		Banned for use in agriculture.
BLZ	28 Dec 1985	Severely restricted. Use still allowed as prescription medical formulation of less than 1% a.i. Environmental pollutant. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
BRA	08 Jan 1998	The chemical is severely restricted due to toxicity and persistence. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CAN	1971	All uses were discontinued due to persistence and bioaccumulation of residues (last remaining product use discontinued in 1976).
CHE	1 Sep 1986	Totally banned chemical: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited (applies to all isomers of 1,2,3,4,5,6-hexachlorocyclohexane). Gamma-hexachlorocyclohexane (lindane) in seed dressings for agricultural purposes and in pharmaceutical products is still allowed. Long persistence, bioaccumulation. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)

Legislative or regulation action

Product Name		HCH-mixed isomers *
C.A.S. number		608-73-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
CHN	3 Mar 1984	HCH (mixed isomers) has been banned for production and use as pesticide. No remaining uses are allowed. HCH (mixed isomers) is highly residual in environment and organism. Its use will produce severely harmful effects to human health and ecological environment. (Reference: (CHNRSU) Regulation on Safe Use of Pesticides, , ,)
COL	6 Dec 1974	Prohibition of use and sale of organochlorine-containing insecticides in the cultivation of tobacco, either singly or in combination. This restriction is based on standards set by countries importing these agricultural products. (Reference: (RNCOL) Resolution, 447, , 06 Dec 1974)
COL	12 May 1978	Prohibition of use and sale of organochlorine-containing insecticides in the cultivation of coffee. (Reference: (RNCOL) Resolution, 209, , 12 May 1978)
CYP	8 Dec 1980	Banned for all use as a pesticide. Registration of pesticides containing this active ingredient have been withdrawn by the Pest Control Products Board. No remaining uses allowed. Use of the substance may pose a health and environmental hazard due to persistence and accumulation of residues in the fatty tissue of humans and animals. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1980)
DEU	1 Jun 1977	Totally banned for use as plant protection product. Non tolerable level of persistent and toxicologically critical isomers; unacceptable residues in/on foodstuffs; water-endangering properties (highly intensive smell and taste). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
DNK		Banned in accordance with EEC-Directive 79/117.
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
HUN	11 Apr 1966	Banned pesticide. Banned for all agricultural use. No remaining uses allowed. Hama-HCH (lindane) is allowed for use. Onocogenicity, persistence and bioaccumulation. (Reference: (HUNOJN) Official Journal, 18, 300-302, 1967)
IRN	1980	HCH (mixed isomers) is totally banned. High dermal and oral toxicity. Persistent and bioaccumulative in fatty tissue. Toxic to fish and bees. (Reference: (IRNPSB) Pesticides Supervision Board (Ministry of Agriculture), , ,)
JPN	1971	Banned for use and/or sale as a pesticide.
KAZ	21 Mar 1986	Banned for all uses. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KEN	22 Apr 1985	Only lindane may be used because of risks associated with toxicity and wide usage. (Reference: (KENPC) Decision of the Pest Control Products Board PCPB/CONF/1, , , 1985)
KOR	9 Aug 1991	Banned for production, import, use and sale of both this substance and preparations containing it in excess of 1.5%. Action taken due to persistence of residue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KYR	27 Jul 2001	The chemical is banned. The substance is banned by an order of the Ministry of Health of the ex-USSR and by the Ordinance of the Government of the Kyrgyz Republic.

Legislative or regulation action

Product Name		HCH-mixed isomers *
C.A.S. number		608-73-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (KYROD) , No. 376, , 27 June 2001) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
LIY	1 Jan 1991	Benzene hexachloride is banned. No remaining uses allowed. Control action is based on the information received from FAO. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LKA	9 Oct 1987	All agricultural uses of mixed isomers of BHC (HCH) are banned. No remaining uses allowed. Decision based on cancellations in other countries. Scientific information on the persistence of non-gamma isomers and consequent health risk, and adverse environmental effects. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, 29.5, , 1987)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Interdit en agriculture depuis 1984.) All uses banned, except in public hygiene. (Toute utilisation dudit pesticide est interdite à l'exception de l'hygiène publique.) Persistence in the environment et bioaccumulation of residues in the food chain. (Persistance dans l'environnement et bioaccumulation des résidus dans la chaîne alimentaire.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MEX	14 Aug 1988	Agricultural use restricted to cotton and maize. Reasons for the control action: high toxicity, (LD50:76-200mg/kg). (Reference: (MEXRI) Registro Interno en la Dirección General de Sanidad y Protección Agropecuaria y Forestal SARH, , ,)
NLD	1 Jan 1981	It is prohibited to sell, stock, store or use all pesticides containing HCH (less than 99% of the gamma isomer) as an active ingredient because of the persistence of the isomers other than the gamma isomer and their high bioconcentration factor which leads to bioaccumulation in the food chain. For these reasons, registration was discontinued by the responsible authorities in 1979. This decision also implements EEC Directive 79/117 of 21 December 1978.
NZL	1 Jun 1962	Voluntary withdrawal of all products, registrations cancelled. No uses allowed. Human health (acute toxicity) and environmental persistence. (Reference: (NZLACB) Agricultural Chemicals Board Minutes, , , 1962)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
PHL	15 Dec 1989	The substance is banned for use. No remaining uses allowed. Action taken to avoid environmental and health problems arising from residues and impurities. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PRT	1 Jan 1974	Pesticides based on this product have been banned on account of their toxicological/environmental effect. (Reference: (PORTP) Comissão de Toxicologia dos Pesticidas, , , 21 Feb 1973)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)

Legislative or regulation action

Product Name HCH-mixed isomers *

C.A.S. number 608-73-1

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SLO	22 Feb 1991	Banned for use in agriculture. It can be used only in pure form. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	All use categories have been banned. Long residue on crops. Persistence in environment. Bioaccumulation of residues in food and chain and human tissue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
TUR		For reasons of health risks and environmental impact, these products have been severely restricted and are currently used only for the control of eurygaster integriceps, grasshopper and aelia rostrata.
USA	1 Oct 1976	The substance has been voluntarily withdrawn by the registrants. The major domestic manufacturer of BHC(or HCH) requested voluntary cancellation of its registration becoming effective from 18.11.76. This ended the sale, distribution and manufacture of technical products containing the compound. EPA has cancelled the use, sale and manufacture of non-reformulated BHC products containing non-gamma isomer in the US. The control action does not apply to lindane, which is a BHC product containing gamma isomer. No remaining uses allowed. Numerous laboratory studies have demonstrated that BHC produces tumors in animals and causes adverse liver effects. Human exposure to BHC(HCH) may also produce reproductive and fetotoxic effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
YUG	1972	HCH preparation was banned from circulation and use in agriculture. The ban was imposed because of its high persistence and noxious effect on human health and the environment. In 1982, HCH was prohibited for any use whatsoever.

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Product Name Heptachlor *

C.A.S. number 76-44-8

Scientific and common names, and synonyms

DICYCLOPENTADIENE, 3,4,5,6,7,8,8A-HEPTACHLORO
DICHLOPENTADIENE, 2,4,5,6,7,8,8A-HEPTACHLORO
EPTACHLORO (ITA)
HEPTACHLORE (FRA)
HEPTACHLOOR (NLD)
1,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,8,8A-TETRAHYDRO-4,7-MYTHYLENE INDENE
1(3A),4,5,6,7,8,8-HEPTACHLORO-3A(1)-METHANOINDENE
1,4,5,6,7,10,10-HEPTACHLORO-4,7,8,9-TETRAHYDRO-4,7-METHYLENEINDENE
1,4,5,6,7,10,10-HEPTACHLORO-4,7,8,9-TETRAHYDRO-4,7-ENDO-METHYLENEINDENE
1,4,5,6,7,8,8-EPTACHLORO-3A,4,7,7A-TETRAIDRO-4,7-ENDO-METANO-INDENE (ITA)
1,4,5,6,7,8,8-HEPTACHLOOR-3A,4,7,7A-TETRAHYDRO-4,7-ENDO-METHANO-INDEEN (NLD)
1,4,5,6,7,8,8-HEPTACHLOR-3A,4,7,7A-TETRAHYDRO-4,7-ENDO-METHANO-INDEN (DEU)
1,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO-4,7-METHANOINDENE
1,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO-4,7-MYTHYLENEIN DENE

Legislative or regulation action

Product Name **Heptachlor ***

C.A.S. number **76-44-8**

Scientific and common names, and synonyms

1(3A),4,5,6,7,8-HEPTACHLORO-3A(1),4,7,7A-TETRAHYDRO-4,7-METHANOINDENE
 1,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO-4,7-ENDO-METHANOINDENE
 3A,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO-4,7-METHANO INDENE
 3A,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO-4,7-METHANOINDENEO
 3-CHLOROCHLORDANE
 4,7-METHANO-1H-INDENE, 1,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO-
 4,7-METHANOINDENE, 1,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1988	Member States shall ensure that plant protection products containing this active substance alone or in combination with other active substances listed may neither be placed on the market nor used. OJEC L33,36,1979; OJEC L91,35,1983; OJEC L154,48,1985 (as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L273, 40, 1987)
ARG	16 Oct 1990	Treatment of soil used for growing edible tubers is banned. Production, sale and use of liquid formulations for agricultural use are banned. The National Register of Plant Protection will cancel the registrations of liquid formulations of this active ingredient. Severely restricted for use. (Prohibición en tratamientos de suelos para cultivos de tubérculos comestibles. Prohibe la fabricación, comercialización y uso de aplicación agrícola en sus formulaciones líquidas. El Registro Nacional de Terapéutica Vegetal cancela las inscripciones de las formulaciones líquidas de este principio activo. Restricción regurosa de uso.) Protection of human health and environment. Reduction of residues in horticultural cultures. (Protección de la salud humana y el medio ambiente. Reducción de residuos en cultivos hortícolas.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ARM	1987	Heptachlor is prohibited for use as a pesticide. Very highly toxic to both warm water and cold-water fish species as well as birds. Persistent. Hazardous to human health. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUS	21 Dec 1987	Importation of the chemical is prohibited unless specifically approved by the Government (21 December 1987). Uses in lucerne, legumes, maize cereals, turf and bananas discontinued. (Dates vary from State to State). Use is still allowed in protection of buildings against subterranean termite attack and control of funnel ants in sugar-cane north of Tully, Qld. The persistence of the chemical makes it environmentally unacceptable. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , 1985)
AUT	20 Feb 1992	Voluntarily withdrawn by manufacturers since June 1989. All uses banned as of 20.02.92. High acute toxicity, its persistence in the environment and its bioaccumulation in the food chain and in fatty tissues. Beyond this heptachlor has been shown to be carcinogenic in test animals. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BEL		Use prohibited according to Directive 79/117/EEC.
BGR		Used for treatment of seeds only.
BLZ	28 Dec 1985	Heptachlor is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
BRA	08 Jan 1998	The chemical is severely restricted. Use as wood preservative allowed under conditions established by Federal Body of Environment and Health.

Legislative or regulation action

Product Name	Heptachlor *	
C.A.S. number	76-44-8	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
CAN	31 Dec 1985	(Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,) Most uses for this product were phased out in 1970. All uses, with the exception of one, were discontinued in 1976. Last product registration was discontinued by the registrant. Persistence and bioaccumulation of residues. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHE	1 Sep 1986	Totally banned chemical: Manufacture, supply, import and use of the substances and of products which contain the substances is prohibited (Applies to heptachlor and heptachlorepoxide). Long lasting persistence, bioaccumulation. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
CHL	5 Jan 1983	Application of the product to natural or artificial meals used directly or in concentrated form as animal feed is prohibited. Its use is prohibited on seeds, grain etc. This measure was taken to protect public health and the environment. (Reference: (MINAC) Ministry of Agriculture, Crops and Livestock Div. Decision No., 4, , 1985)
CHN		Heptachlor is banned for use as a pesticide. It has never been produced and used as a pesticide. No remaining uses allowed. Heptachlor is highly residual in environment and organism. Its use will produce severely harmful effects to human health and ecological environment. (Reference: (CHNMA) Ministry of Agriculture, , ,)
COL	28 Mar 1988	The substance is banned for use in agriculture. (Prohibicion de su uso en agricultura.) Treatment of wood still allowed. (Tratamiento de maderas.) Action taken because of high toxicity and persistence in soil. (Alta toxicidad y persistencia en el suelo.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide (La sustancia esta prohibida para su use, produccion e importation como plaguicida). Banned because it presents high persistence and accumulation in human and animal tissues, provokes an increase in liver tumours in various species of animals (Por presentar una alta persistencia y acumulacion en el tejido humano y animal, y porque provoca un incremento de tumores en el higado en diferentes especies de animales). (Reference: (CUBMSP) Ministro de Salud Publica, , , 1990)
CYP	8 Dec 1980	Banned as a pesticide. No remaining usages allowed. Health risks and environmental hazard due to its persistence and bioaccumulation of residues, cancerogenic effects in experimental animals and high toxicity to non-target organisms (birds). (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1980)
DEU	1 Jan 1978	It is prohibited to apply solutions of 99% purity or more against parasites on horse, cattle, swine, goat and sheep. It is prohibited to apply against parasites on poultry and to apply to the udder of lactating horses, cows, sheep and goats at concentrations exceeding the maximum residue limits (MRLs) set for milk and milk products. (Reference: (BGBL) Bundesgesetzblatt, IS.1136, , 1981)
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
DMA		Severely restricted pesticide. (Reference: (DMAPC) Pesticide Control Board, , , 1986)
DNK		Banned in accordance with EEC-Directive 79/117.
ECU		Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries.

Legislative or regulation action

Product Name	Heptachlor *	
C.A.S. number	76-44-8	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
GAM	17 Feb 1997	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	1 Jan 1981	All uses as an agricultural insecticide revoked. No remaining uses allowed. The substance is an environmental hazard (persistant organochlorine). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IDN		Never registered. Request for registration not been granted. Prohibited for all uses. No remaining use allowed. Persistence, long life residues in humans, soil, water, sediment etc. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1958	Approved for use only in the treatment of soil, due to problems of environmental persistence.
JPN	17 Sep 1986	Designated as a "first class specified chemical substance". Without authorization from the Government its manufacture and import are prohibited. Uses other than those specified by Cabinet Order are prohibited. It is prohibited to import specified products containing the substance. These prohibitions are due to the substance's hazardous properties in terms of persistence, bioaccumulative characteristics and chronic toxicity. (Reference: (JPNCO) Japanese Cabinet Order, , , 14 Aug 1979)
KAZ	21 Mar 1986	Banned for all uses as highly toxic persistent carcinogenic substance. The substance is highly accumulative, has shown dermal absorption effects. On 21.3.1986 the substance was included in the List of pesticides banned for use in agriculture, Kiev, 1986. Approved by the USSR Chief Sanitary Physician. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KEN	Feb 1987	Total ban of the pesticide. Action taken because of health hazards. (Reference: (KENPC) Decision of the Pest Control Products Board PCPB/CONF/1, , , 02 Feb 1987)
KOR	11 Jun 1986	Sale and use prohibited within the country except for production of industrial goods. The substance is harmful to human and to the environment (potentially dangerous as a carcinogen and mutagen). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
LKA	27 Jan 1988	Heptachlor is banned for use as a pesticide. Restricted use for termite control was permitted until July 1986. Deregistered on 27.1.88. No remaining uses allowed. Based on regulatory actions due to peotential oncogenicity in humans and hazardous to the environment due to properties of long persistence and bioaccumulation in food chains. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1988)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Toute utilisation dudit pesticide est interdite.) No remaining uses allowed. (Toute utilisation dudit pesticide est interdite.) High toxicity, persistence in the environment and bioaccumulation of residues in the food chain. (Toxicité très élevé, persistance dans l'environnement et bioaccumulation dans la chaine alimentaire.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MEX	5 Jun 1988	Agricultural use restricted to maize and sorghum. Reasons for the control action: high toxicity, (LD50:74-188mg/kg).

Legislative or regulation action

Product Name		Heptachlor *
C.A.S. number		76-44-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (MEXRI) Registro Interno en la Dirección General de Sanidad y Protección Agropecuaria y Forestal SARH, , ,)
MYS	1 Aug 1990	Registration was withdrawn. This means that products containing heptachlor cannot be imported, manufactured or sold locally. Small quantities may be imported through Import Permit for research and educational purposes such as for use as analytical standards and other laboratory purposes. The substance is highly persistent in the environment and tends to accumulate in the food chain. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	1 Jan 1981	It is prohibited to sell, stock, store or use all pesticides containing heptachlor as active ingredient. This decision was taken because heptachlor: a) is persistent in the environment; b) accumulates in the food chain; c) has a high acute toxicity. Decision taken by the ministers responsible for the authorization of pesticides in the Netherlands, 1977. This decision was enforced by Directive 79/117 of the European Communities published in OJEC L33/39,8.2.1979.
NZL	1 Sep 1971	Withdrawal of all remaining products, registrations cancelled. No uses allowed. Environmental persistence. (Reference: (NZLACB) Agricultural Chemicals Board Minutes, , , 1971)
PAK		Permitted for use against soil and wood termites. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PHL	15 Dec 1989	The substance is banned for use. No remaining uses allowed. Like most organochlorides, they are very stable in the environment where persistence and bio-accumulation were observed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PRT	1 Jan 1974	Pesticides based on this product have been banned on account of their toxicological/environmental effect. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SLO	22 Feb 1991	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Heptachlor is prohibited for use as a pesticide because it is highly toxic, carcinogenic and persistent. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)
THA	2 May 1995	All use categories have been banned. Substance is: 1) possibly carcinogenic to humans; 2) persistent in the environment; 3) bioaccumulation of residue in food chain and human tissues. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
TUR		Banned for sale and/or use due to health risks and environmental impact.
USA	Mar 1978	The Environmental Protection Agency has cancelled all uses except the following: 1) subsurface ground insertion for termite control (clarified by FEREAC 40,30522, to apply to the use of emulsifiable or oil concentrate formulations for controlling subterranean termites on structural sites such as buildings, houses, barns, and sheds, using current control practices); 2) dipping of roots or tops of non-food plants. Heptachlor has been deemed to present an unreasonable risk to humans by virtue of its toxicity to non-target organisms, such as birds, findings of an increased incidence of liver cancer in mice

Legislative or regulation action

Product Name Heptachlor *

C.A.S. number 76-44-8

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	5 Apr 1988	<p>exposed to the compound, and its environmental contamination and persistence in mammalian tissues. The EPA has cited the availability of alternative and safer pesticides. (Reference: (FEREAC) Federal Register, 43, 12372, 1978)</p> <p>The substance is severely restricted for use. EPA cancelled in March 1978 all uses of heptachlor except termite control. In Oct. 1987 EPA accepted the voluntary cancellation of heptachlor termiticide treatment products, coming into effect from 05.04.88. The only remaining use in the US is the control of fire ants in power transformers. Remaining use is a minor portion of those which were previously approved. Animal studies have shown heptachlor and chlordane to cause an increase in liver tumors and embryo, and EPA considers the compounds to be probable human carcinogens. Residues in fish, birds and mammals may adversely affect the reproductive systems of these organisms. Heptachlor is persistent in the environment, accumulates in animal tissues and bioaccumulates up the food chain.</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
VEN	1983	<p>The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health.</p> <p>(Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)</p>
YUG	1972	<p>Heptachlor preparations were banned from circulation and use in agriculture. The ban was imposed because of its high persistence and noxious effect on human health and the environment.</p>

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 IARC MONOGRAPH, 20, 129, 1979
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 WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 38, , 1984
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 FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 117, 1994
 FAO PLANT PRODUCTION & PROTECTION PAPER, 131/1, 685, 1994

Product Name Heptachlor epoxide

C.A.S. number 1024-57-3

Scientific and common names, and synonyms

1,4,5,6,7,8,8-HEPTACHLORO-2,3-EPOXY-2,3,3A,4,7,7A-HEXAHYDRO-4,7- METHANOIDENE

Legislative or regulation action

Product Name **Heptachlor epoxide**

C.A.S. number **1024-57-3**

Scientific and common names, and synonyms

2,5-METHANO-2H-INDENO[1,2-B]OXIRENE, 2,3,4,5,6,7,7-HEPTACHLORO-1A,1B,5,5A,6,6A-HEXAHYDRO-, (1A.ALPHA.,1B.BETA.,2.ALPHA.,5.ALPHA.,5A.BETA.,6.BETA.,6A.A

2,3,4,5,6,7,7-HEPTACHLORO-1A,1B,5,5A,6,6A-HEXAHYDRO-2,5-METHANO-2-H- INDENO(1,2-3)OXIRENE

4,7-METHANOINDAN, 1,4,5,6,7,8-HEPTACHLORO-2,3-EPOXY-3A,4,7,7A- TETRAHYDRO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. High acute toxicity, resistance in the environment and bioaccumulation in the food chain and in human tissues (Heptachlor epoxide is often found in fat, blood, organs and milk). Heptachlor epoxide is reported to cause carcinogenic effects in experimental animals. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
CHE	1 Sep 1986	The manufacture, supply, import and use of the substance and of products which contain the substance shall be prohibited. Reasons for the control action: long persistency, bioaccumulation. (Reference: (CHEOS) Ordonnance sur les Substances Dangereuses pour l'Environnement (OSUBST), , , 09 June 1986)
DEU	1 Jan 1978	It is prohibited to apply solutions of 99% purity or more against parasites on horse, cattle, swine, goat and sheep. It is prohibited to apply against parasites on poultry and to apply to the udder of lactating horses, cows, sheep and goats at concentrations exceeding the maximum residue limits (MRLs) set for milk and milk products. (Reference: (BGBL) Bundesgesetzblatt, IS.1136, , 1981)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)

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IARC MONOGRAPH, 20, 129, 1979

IARC MONOGRAPH, SUPPL.4, 80, 1982

WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984

Product Name **Hexachlorobenzene ***

C.A.S. number **118-74-1**

Scientific and common names, and synonyms

BENZENE, HEXACHLORO-

BENZENE HEXACHLORO

HCB

PHENYL PERCHLORYL

PERCHLOROBENZENE

PENTACHLOROPHENYLE, CHLORURE DE

PENTACHLOROPHENYL CHLORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1981	It is prohibited to use or place on the market all plant protection products containing hexachlorobenzene. No remaining uses allowed. Hexachlorobenzene is persistent in the environment. It is likely to bioaccumulate and produce food-chain effect on terrestrial and aquatic organisms. The EC has classified hexachlorobenzene as a category 2

Legislative or regulation action

Product Name		Hexachlorobenzene *
C.A.S. number		118-74-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		carcinogen (probably carcinogenic to humans). Directive 79/117/EEC of 21.12.78. (Reference: (OJEC) Official Journal of the European Communities, L33/36, , 08 Feb 1979)
@EC	1 Jan 1988	Member States shall ensure that plant protection products containing this active substance alone or in combination with other active substances listed may be neither placed on the market nor used. (OJEC L33,36,1979; OJEC L91,35,1983; OJEC L154,48,1985 - as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L273, 40, 1987)
ARG	19 Mar 1963	Prohibited for use as scabicide in sheep in certain parts of the province of Buenos Aires. (Reference: (ARESA) Argentinian Legislation, Resolución, 21, , 1963)
ARG	30 Apr 1968	Prohibited as external parasiticide. (Reference: (ADECA) Argentinian Legislation, Decreto, 2143, , 1968)
ARG	1 Jun 1972	Prohibited for use as an antiweevil agent on seeds and their products intended for human and animal consumption. (Reference: (ADISS) Argentinian Legislation, Disposición, 47, , 1972)
AUS	21 Dec 1987	Importation of the chemical is prohibited unless specifically approved by the Government (21 December 1987). All uses discontinued (Dates vary from State to State). No remaining uses allowed. The persistence of the chemical makes it environmentally unacceptable. (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, 39, , 1985)
AUT	20 Feb 1992	Voluntarily withdrawn by manufacturer since June 1988. All uses are banned as of 20.02.92. High persistence in the environment, its bioaccumulation in the food chain and in human tissues. There is evidence that hexachlorobenzene causes carcinogenic effects in experimental animals. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BEL		Use prohibited according to Directive 79/117/EEC.
BRA	01 Jan 1998	The chemical is severely restricted due to its toxicity and persistence. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CHE	1 Sep 1986	Totally banned chemical: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited. Long persistence, bioaccumulation. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
DEU	1 Jun 1977	Totally banned for use as plant protection product. Persistent organochlorine compound; accumulation in food chain; toxicology not yet sufficiently studied. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK		Banned in accordance with EEC-Directive 79/117.
GAM	17 Feb 1997	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	1975	Withdrawal of use in agriculture and horticulture (the only registered use in the UK as a pesticide was as a dry seed dressing). This persistent organochlorine, which accumulates in animal and bird tissues, was withdrawn for environmental rather than human safety reasons. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for

Legislative or regulation action

Product Name	Hexachlorobenzene *	
C.A.S. number	118-74-1	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
		safe use in the UK, 1637, , 1981)
HUN	1978	Hexachlorobenzene is banned for all agricultural use. No remaining uses. The increasing level of HCB in human adipose and other tissues and its slowly metabolism rate was a potential risk to the population. Bioaccumulative. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
IDN		The chemical has never been registered. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JPN	14 Aug 1979	Designated as a "first class specified chemical substance". Without authorization from the Government its manufacture and import are prohibited. Uses other than those specified by Cabinet Order are prohibited. It is prohibited to import specified products containing the substance. These prohibitions are due to the substance's hazardous properties in terms of persistence, bioaccumulative characteristics and chronic toxicity. (Reference: (JPNCO) Japanese Cabinet Order, , , 14 Aug 1979)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Interdit en agriculture depuis 1984.) No remaining uses allowed. (Toute utilisation dudit pesticide est interdite.) Persistence in the environment. (Persistance dans l'environnement.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	1973	It is prohibited to sell, stock, store or use all pesticides containing HCB as active ingredient. Pesticides containing HCB are prohibited because HCB: a) is very persistent in the environment; b) bioaccumulates in the food chain. Decision taken by the ministers responsible for the authorization of pesticides in the Netherlands, 1973. This decision was enforced by Directive 79/117 of the European Communities published in OJEC L33/39 8.2.1979.
NZL	1 Jan 1972	Withdrawal of all remaining products, registrations cancelled. No uses allowed. Environmental persistence. (Reference: (NZLACB) Agricultural Chemicals Board Minutes, , , 1971)
PAK	1 Jan 1995	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
SLO	22 Feb 1991	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Hexachlorobenzene is prohibited for use as a pesticide because it is highly cumulative (applies to mercur-genkan - a mixture of granosan M, lindane and hexachlorobenzene and to mercur-benzol - a mixture of granosan M, and hexachlorobenzene). (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)
SWE	12 Dec 1980	Withdrawn from the market after mutual discussions between the Product Control Board

Legislative or regulation action

Product Name		Hexachlorobenzene *
C.A.S. number		118-74-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
TUR		and the importers because of its carcinogenic effects on experimental animals, and persistence. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 12 Dec 1980)
USA	1 Jul 1984	Banned for sale and/or use due to health risks and environmental impact. The substance has been voluntarily withdrawn by the registrant. EPA reviewed HCB for carcinogenic and other health effects resulting from dietary and dermal exposure, and as a result, the registrants voluntarily cancelled products containing HCB in June 1984. There are no registered pesticides that contain HCB as an active ingredient. However, HCB appears as a contaminant in five registered pesticides (chlorthalonil, PCNB, dacthal, picloram, and pentachloro-phenol) and is suspected in several others. Based on animal test data, EPA classified HCB as a probable human carcinogen in 1985. HCB is also extremely persistent in the environment. Residues have been found in aquatic and terrestrial species, including man. Particularly high levels have been found in certain fish species. There is also concern over the possibility for HCB to cause reproductive effects in wildlife exposed to frequent or continuous low levels of the compound. This concern is especially focused on carnivores and higher mammals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
YUG	1976	Use and marketing of all preparations containing HCB either as an active substance or as a contaminant were prohibited. The ban was imposed because of its marked persistence resulting in its accumulation in the ground and through it, in vegetables, in turn endangering human health.
Bibliographical references		
FAO PLANT PRODUCTION & PROTECTION PAPER, 15, , 1978		
FAO PLANT PRODUCTION & PROTECTION PAPER, 15 SUP., , 1978		
IARC MONOGRAPH, 20, 155, 1979		
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984		
FAO PLANT PRODUCTION & PROTECTION PAPER, 72/1, , 1985		
Product Name		Hexachlorobutadiene
C.A.S. number		87-68-3
Scientific and common names, and synonyms		
DOLEN-PUR		
GP-40-66:120		
HEXACHLOROBUTADIENE (ACGIH, DOT)		
HEXACHLOROBUTADIENE		
HEXACHLOR-1,3-BUTADIEN (CZECH)		
HCB D		
PERCHLOROBUTADIENE		
RCRA WASTE NUMBER U128		
UN 2279 (DOT)		
1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO-		
1,3-HEXACHLOROBUTADIENE		
1,1,2,3,4,4-HEXACHLORO-1,3-BUTADIENE		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision

Legislative or regulation action

Product Name **Hexachlorobutadiene**

C.A.S. number **87-68-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. Carcinogenic and mutagenic properties as well as fetotoxicity and negative effects on fertility. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
SUN	Aug 1988	Hexachlorobutadiene is severely restricted for use as a pesticide, because it is highly toxic, volatile, cumulative, readily absorbed through the skin, has embryotoxic properties and contaminates underground waters. It may be used on vines only for quarantine (not harvesting) purposes. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)

Bibliographical references

IPCS HEALTH AND SAFETY GUIDE, 84, , 1993
IPCS ENVIRONMENTAL HEALTH CRITERIA, 156, , 1994

Product Name **Hexahydrophthalic acid anhydride**

C.A.S. number **85-42-7**

Scientific and common names, and synonyms

1,3-ISOBENZOFURANDIONE, HEXAHYDRO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jul 1991	Severely restricted. The substance is sensibilizing. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Hexazinone**

C.A.S. number **51235-04-2**

Scientific and common names, and synonyms

1,3,5-TRIAZINE-2,4(1H,3H)-DIONE, 3-CYCLOHEXYL-6-(DIMETHYLAMINO)-1-METHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Jul 1995	All authorizations for products containing hexazinone as an active substance have been withdrawn from the market in 1995 and a further use of products containing hexazinone as an active ingredient has been banned from 1 July 1995. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Hexazinone and its pesticide-like degradation products are persistent in soil, with half-lives of the main degradation product above three months, and degradation rates for 90% of the substance of more than a year. In four of seven cases the half-life of the parent compound (hexazinone) is above three months. Hexazinone is mobile. In a Danish investigation, the substance was found in soil water in clayey soil in depths above 1 m and concentrations up to 43 µg/l. In laboratory tests (column tests) strong leaching was found (up to 87 %). Hexazinone is very toxic to algae, thus presenting risks of harmful effects on aquatic ecosystems by normal use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	1 Jan 1998	Hexazinone is banned. No remaining uses. Persistent under norwegian climatic conditions, high mobility in soil, extremely toxic to algae. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000,

Legislative or regulation action

Product Name Hexazinone

C.A.S. number 51235-04-2

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SLO	13 Jun 1997	6/2001, , ,) Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name Hostaquick

C.A.S. number 23560-59-0

Scientific and common names, and synonyms

PHOSPHORIC ACID, 7-CHLOROBICYCLO[3.2.0]HEPTA-2,6-DIEN-6-YL DIMETHYLESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 Jun 1991	Registration of heptenophos withdrawn because of its high acute toxicity. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name Hydrogen cyanide

C.A.S. number 74-90-8

Scientific and common names, and synonyms

HYDROCYANIC ACID

HYDROCYANIC ACID

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	1976	Use restricted to specially authorized users with adequate equipment for the application of the product and in possession of ware-houses exclusively reserved to stocking toxic products.
DEU	1 Jun 1974	Severely restricted for use as plant protection product. Use still allowed for fumigation: in mills, in storerooms, in stores and other rooms of food processing industry and in means and containers of transport against stored product pests; of dormant plants; in glasshouses. High acute toxicity to man; operators safety, guarantee for proper use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PHL		Prohibited for use except by certified fumigators. Adequate time for aeration is required after treatment before treated commodities are processed into food or feed.

Bibliographical references

WHO FOOD ADD., 26.65, , 1965

WHO FOOD ADD., 28.65, , 1965

Product Name Imazalil

C.A.S. number 35554-44-0

Legislative or regulatory action

Legislative or regulation action

Product Name		Imazalil
C.A.S. number		35554-44-0
Country	Effective Date	Description of action taken Grounds for decision
NOR	1994	Imazalil is severely restricted. May still be used for seed treatment. Persistent in soil and highly mobile in soil. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
Product Name		Imazapyr
C.A.S. number		81334-34-1
Scientific and common names, and synonyms		2-(4-ISOPROPYL-4-METHYL-5-OXO-2-IMIDAZOLIN-2-YL)NICOTINIC ACID
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
NOR	31 Dec 2002	The chemical is banned. It is prohibited to import, sell and use imazapyr as a pesticide. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
Product Name		Imidazole-2-thiol
C.A.S. number		872-35-5
Scientific and common names, and synonyms		IMIDAZOLE, 2-MERCAPTO USAF EL-57
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Jan 1983	It is prohibited to apply thiourazils, thioimidazoles and thiohydantoins in any way to soliped, cattle, swine, goat, sheep, rabbit, poultry and winged and furred game. Foodstuffs derived from animals which are treated despite this regulation may not be marketed. (Reference: (BGBL) Bundesgesetzblatt, IS.1135, , 1981)
Product Name		Iodofenphos
C.A.S. number		18181-70-9
Scientific and common names, and synonyms		PHOSPHOROTHIOIC ACID, O-(2,5-DICHLORO-4-IODOPHENYL) O,O-DIMETHYL ESTER
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
AUS	1 Aug 1987	All uses cancelled. No remaining use allowed. Inadequate toxicology, no replacements for invalidated IBT studies. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , Feb 1986)
Product Name		Iprodione
C.A.S. number		36734-19-7

Legislative or regulation action

Product Name **Iprodione**

C.A.S. number **36734-19-7**

Scientific and common names, and synonyms

1-IMIDAZOLIDINECARBOXAMIDE, 3-(3,5-DICHLOROPHENYL)-N-(1-METHYLETHYL)-2,4-DIOXO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Aug 1998	All authorizations for products containing iprodione as an active substance have been withdrawn from the market 31 December 1997 and a further use has been prohibited from 01 August 1998. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Iprodion is assessed to be carcinogenic in category 3 (carc.,cat.,3) and harmful to the reproduction (rep.,cat.3) and the products are therefore assessed to be seriously damaging to health. Two of the products are furthermore assessed to be toxic and harmful to reproduction of wild birds and mammals and are therefore seriously damaging to the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Isobenzan**

C.A.S. number **297-78-9**

Scientific and common names, and synonyms

OCTACHLORO-HEXAHYDRO-METHANOISOBENZOFURAN

4,7-METHANOISOBENZOFURAN, 1,3,4,5,6,7,8,8-OCTACHLORO-1,3,3A,4,7,7A-HEXAHYDRO-

4,7-METHANOISOBENZOFURAN, 1,3,4,5,6,7,8,8-OCTACHLORO-1,3,3A,4,7,7A- HEXAHYDRO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. High acute toxicity, persistence in the environment and suspected carcinogenic effects. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
CHE	1 Sep 1986	Isobenzan or Telodrin is a totally banned chemical : Manufacture, supply, import, and use of the substance and of products which contain the substance is prohibited. Long persistence, bioaccumulation. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
COL	Dec 1974	Prohibition of use and sale of organochlorine-containing insecticides in the cultivation of tobacco, either singly or in combination. This restriction is based on standards set by countries importing these agricultural products. (Reference: (RNCOL) Resolution, 447, , 06 Dec 1974)
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBl) Bundesgesetzblatt, IS.363, , 1986)
IDN		Never been registered. Prohibited for all purposes. Prohibited, never been registered. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it. Action taken due to high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1975	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Isobenzan**

C.A.S. number **297-78-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Interdit en agriculture depuis 1984.) No remaining uses allowed.(Toute utilisation dudit pesticide est interdite.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1 Sep 1965	Voluntary withdrawal of all products, registrations cancelled. No uses allowed. Environmental persistence. (Reference: (NZLACB) Agricultural Chemicals Board Minutes, , , 1965)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 129, , 1991
IPCS HEALTH AND SAFETY GUIDE, 61, , 1991

Product Name **Isobornyl thiocyanatoacetate**

C.A.S. number **115-31-1**

Scientific and common names, and synonyms

ACETIC ACID, THIOCYANATO-, 1,7,7-TRIMETHYLBICYCLO[2.2.1]HEPT-2-YL ESTER, EXO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	Banned since 01.01.88 in all applications where food contact is possible. All uses banned as of 20.02.92. Oral rabbit LD50: 630 mg/kg; very irritating to eyes, mucous membranes and skin; can react vigorously with oxidizing materials. When heated to decomposition or on contacts with acid or acid fumes thiocyanates emit highly toxic fumes. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

Product Name **Isodrin**

C.A.S. number **465-73-6**

Scientific and common names, and synonyms

1,4:5,8-DIMETHANONAPHTHALENE, 1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A-HEXAHYDRO-,
1,4:5,8-DIMETHANONAPHTHALENE, 1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A- HEXAHYDRO-, ENDO, ENDO-
1,4:5,8-DIMETHANONAPHTHALENE, 1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A- HEXAHYDRO-, ENDO, ENDO-
1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A-HEXAHYDRO-1,4,5,8-ENDO, ENDO- DIMETHANONAPHTHALENE
1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A-HEXAHYDRO-, ENDO, ENDO-1,4:5,8- DIMETHANONAPHTHALENE

Legislative or regulation action

Product Name **Isodrin**

C.A.S. number **465-73-6**

Scientific and common names, and synonyms

1,2,3,4,10,10-HEXACHLORO-1,4,4A,5,8,8A-HEXAHYDRO-, ENDO, ENDO- 1,4:5,8 DIMETHANONAPHTHALENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. High acute human toxicity and persistence in the environment. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
CHN		Isodrin has been banned for registration, production, sale and use as a pesticide. No remaining uses are allowed. The chemical has never been produced, imported and used as a pesticide. Isodrin is highly residual in environment and organism. Its use will produce severely harmful effects to human health and ecological environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
NZL		Not considered for registration as a pesticide.
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SUN	Aug 1988	Isodrin is not approved for use as a pesticide due to its high toxicity. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Product Name **Kadethrin**

C.A.S. number **58769-20-3**

Scientific and common names, and synonyms

CYCLOPROPANECARBOXYLIC ACID, 3-(DIHYDRO-2-OXO-3(2H)-THIEN-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)

Product Name **Kasugamycin**

C.A.S. number **6980-13-8**

Scientific and common names, and synonyms

3H-IMIDAZO[4,5-B]PYRIDINE, 7-CHLORO-3-BETA-D-RIBOFURANOSYL-

Legislative or regulatory action

Legislative or regulation action

Product Name			Kasugamycin
C.A.S. number			6980-13-8
Country	Effective Date	Description of action taken Grounds for decision	
BLZ	14 Jul 1990	Severely restricted. Use allowed for control of rice blast only. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)	

Product Name			Kelevan
C.A.S. number			4234-79-1
Scientific and common names, and synonyms			
1,3,4-METHENO-1H-CYCLOBUTA[CD]PENTALENE-2-PENTANOIC ACID, 1,1A,3,3A,4,5,5A,5B,6-DECACHLOROOCCTAHYDRO-2-HYDROXY-, GAMMA-OXO-, ETHYL ESTER			
1,3,4-METHENO-1H-CYCLOBUTA(C,D)-PENTALENE-2-LEVULINIC ACID, 1,1A,3,3A,4,5,5A,5B,6-DECACHLOROOCCTAHYDRO-2-HYDROXY-, ETHYL ESTER			

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	Banned since 01.01.88 in all applications where food contact is possible. Voluntarily withdrawn by manufacturer since June 1989. All uses banned as of 20.02.92. Kelevan metabolite chlordecone has shown carcinogenic effects in experimental animals (liver tumors) and persistent properties in the environment. Kelevan metabolite chlordecone has shown carcinogenic effects in experimental animals (liver tumors) and persistent properties in the environment. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PRT		This product may not be marketed in Portugal on account of its environmental/toxicological effect. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , ,)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SUN	Aug 1988	Kelevan is prohibited for use as a pesticide because it is a carcinogen. (Reference: (OSUMH) Order of the USSR Ministry of Health, 04-5/95-5, , 13 May 1985)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 66, , 1986
IPCS HEALTH AND SAFETY GUIDE, 2, , 1987

Product Name	Lead and lead compounds		
C.A.S. number	7439-92-1		
Scientific and common names, and synonyms	LEAD		
	LEAD (GENERIC)		
Legislative or regulatory action			
Country	Effective Date	Description of action taken Grounds for decision	
AUT	20 Feb 1992	The control action applies to lead compounds. All uses banned. High persistence in the	

Legislative or regulation action

Product Name		Lead and lead compounds
C.A.S. number		7439-92-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		environment and bioaccumulation in the food chain. Contamination of water and accumulation in plants occur. Kidney, blood and nervous system effects. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BEL	1970	Lead compounds were prohibited for use in agriculture already before 1970.
DEU	Apr 1986	Lead compounds are prohibited for use as plant protectants. (Reference: (BGBl) Bundesgesetzblatt, IS.363, , 1986)
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. Applies to lead compounds. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
KWT	1 Jan 1980	Lead and lead compounds are banned for use as a pesticide. No remaining uses allowed. The action was taken for environmental and health reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1983	Under the provisions of the Toxic Substances Act, alkyl lead compounds are available to commercial users only and labelled "deadly poison". Inorganic lead compounds are labelled "poison". Pesticides containing lead have been withdrawn voluntarily.
PAN	Sep 1987	Lead compounds: import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
YUG	1972	Lead was banned from circulation and use in agriculture owing to its toxicity and accumulation in human and animal organisms.
Bibliographical references		
IARC MONOGRAPH, 1, 40, 1972		
IARC MONOGRAPH, 2, 150, 1973		
IARC MONOGRAPH, 2, 52, 1973		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 3, , 1977		
WHO FOOD ADD., 13, 38, 1978		
IARC MONOGRAPH, 23, 205, 1980		
IARC MONOGRAPH, 23, 325, 1980		
IARC MONOGRAPH, 23, 39, 1980		
IARC MONOGRAPH, SUPPL.4, 149, 1982		
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984		
WHO FOOD ADD., 21, 223, 1987		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 85, , 1989		
Product Name		Lead arsenate (Pb₃(AsO₄)₂)
C.A.S. number		10102-48-4
Scientific and common names, and synonyms		LEAD ARSENATE
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
KOR	9 Aug 1991	Banned for production, import, use, and sale of both lead arsenate and preparations containing it. Action taken due to persistence of residue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Lead arsenate (PbHAsO₄)**

C.A.S. number **7784-40-9**

Scientific and common names, and synonyms

ARSENIC ACID (H₃AsO₄), LEAD(2+) SALT (1:1)

ARSENIC ACID LEAD(2+) SALT(1:1)

ARSENATE OF LEAD

ACID LEAD ARSENATE

DIBASIC LEAD ARSENATE

LEAD ARSENATE, SOLID (USA)

LEAD ARSENATE (STANDARD)

LEAD ACID ARSENAK

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	16 Oct 1990	Import, production, formulation, sale and use of products for agricultural use containing this active ingredient are banned. The National Register of Plant Protection will cancel the registrations of formulated products for agricultural use containing this active ingredient. (Prohíbe la importación, fabricación, fraccionamiento, comercialización y uso de productos de aplicación agrícolas formulados a base de este principio activo. El Registro Nacional de Terapeutica Vegetal procederá a cancelar las inscripciones de todos los productos de uso agrícola formulados a base de este principio activo.) Protection of human health and environment. Toxicological risks. (Protección de la salud humana y el medio ambiente; riesgos toxicológicos.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUS	1 Dec 1983	Withdrawn by industry. Carcinogenic, acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	1 Oct 1973	Registration refused. Action taken due to its extremely toxic and hazardous nature and availability of safer and effective substitutes. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JPN	Dec 1978	Lead arsenate was designated as an 'agricultural chemical persistent in crops' under the Agricultural Chemical Regulation Law in May 1971: it was subject to restrictions concerning the application method. All the registrations for the products were voluntarily invalidated by the manufacturer in December 1978.
KOR	11 Jun 1986	Sale and use prohibited within the country. Reasons for the control action: protection of health (it is highly toxic and potentially carcinogenic for humans) and the environment. (applies to lead arsenate and its formulations). (Reference: (KROTS) Ordinance Relating to a Toxic Substance, , , 1986)
PRT	1 Jan 1974	Banned. Action taken because of human health considerations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SLO	22 Feb 1991	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	Pesticides for household and public health use containing lead arsenate have been banned for importation, exportation, manufacture and handling. Lead arsenate has been found to be oncogenic and mutagenic, and acutely toxic to humans, moderately toxic to birds and aquatic invertebrate species, and slightly toxic to fish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	30 Jun 1988	The substance has been voluntarily withdrawn by the registrant for use as a plant growth regulator on grapefruit in 1987. On June 30, 1988 EPA announced cancellation of all existing non-wood registrations. No remaining uses allowed. Lead arsenate has been found to be oncogenic and mutagenic, and acutely toxic to humans, moderately toxic to birds and aquatic invertebrate species, and slightly toxic to fish.

Legislative or regulation action

Product Name		Lead arsenate (PbHAsO₄)
C.A.S. number		7784-40-9
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)		
Product Name		Lead arsenite
C.A.S. number		10031-13-7
Scientific and common names, and synonyms		LEAD(II) ARSENITE
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
YUG	1982	Prohibited for any use whatsoever.
Product Name		Leptophos
C.A.S. number		21609-90-5
Scientific and common names, and synonyms		O-(4-BROMO-2,5-DICHLOROPHENYL) O-METHYL PHENYLPHOSPHONOTHIOATE O-(2,5-DICHLORO-4-BROMOPHENYL)O-METHYL PHENYLTHIOPHOSPHONATE O-(2,5-DICHLORO-4-BROMOPHENYL)O-METHYL PHENYLTHIOPHOSPHATE PHOSPHONOTHIOIC ACID, PHENYL-, O-(4-BROMO-2,5-DICHLOROPHENYL) O-METHYL ESTER PHOSVEL PHOSPHONOTHIOIC ACID, PHENYL-, O-(4-BROMO-2,5-DICHLOROPHENYL) O-METHYL ESTER
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. Observed neurotoxicity to animals and humans (especially to persons with heavy occupational exposure). (Reference: (AUTFLG) Federal Law Gazette, No. 97/1992, , 1992)
BGR		Leptophos is classified as a neurotoxic compound, banned for use.
CAN	1977	Registration of this product has been cancelled. Neurotoxic to test animals and in humans.
COL	5 Jul 1977	Registration cancelled at the request of the Ministry of Health, which cited the compound's neurotoxic effects on animals and cases of neurologic changes in workers exposed during production of the compound. (Reference: (RNCOL) Resolution, 1042, , 05 July 1977)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide. This pesticide is highly toxic and, according to international documents, there is evidence of its delayed neurotoxicity in human beings, as well as of its potential carcinogenicity. (Reference: (CUBMSP) Ministro de Salud Publica, No. 268, , 28 Dec 1990)
CYP	9 Jul 1987	Banned as a pesticide since July 1987. Voluntarily withdrawn from the market since 1980. No remaining use allowed. Neurotoxic effects on animals and health risk. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 09 July 1987)
DNK		Currently not approved and future approval is not intended. Not formulated or manufactured in the country.

Legislative or regulation action

Product Name		Leptophos
C.A.S. number		21609-90-5
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
ECU		Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
GTM	Oct 1977	Registration cancelled by ministerial order.
IDN	1 Apr 1976	No longer permitted to register. No remaining use allowed. Substance may induce adverse effects to human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	23 Mar 1976	Registration refused. Action taken: 1) since sufficient data is not available on residues and its side effects on non-targeted organisms in the environment; b) in view of the controversial report on delayed neurotoxicity of the chemical and toxic effects on workers employed in manufacturing companies and death of buffaloes in Egypt due to its toxic effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it. Action taken due to hazardous effects to foetus. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1908	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LKA	27 Jan 1980	Leptophos is banned for use as a pesticide. Withdrawn from market prior to 1980. Banned from use as a pesticide from 1988/01/27. Base on neurotoxicity reported abroad and evidence of livestock death after aerial treatment of rice fields to contain pest (Bph) epidemic in 1973, the product was withdrawn by the importer. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, (30), , 27 Jan 1988)
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
NZL	1 Oct 1976	Voluntary withdrawal of all products, registrations cancelled. No uses allowed. Human health reasons (neurotoxicity). (Reference: (NZLACB) Agricultural Chemicals Board Minutes, , , Oct 1976)
PAK	1 Jan 1979	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PHL		Banned for use and/or sale.
SLO	22 Feb 1991	Banned for use in agriculture. This chemical was banned from the use due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN	Aug 1988	Leptophos is not approved for use as a pesticide due to long-term neurotoxic effect. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
THA	2 May 1995	All use categories have been banned. Neurotoxic effects on test animals and health

Legislative or regulation action

Product Name **Leptophos**

C.A.S. number **21609-90-5**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
TUR		risks. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,) Banned for sale and/or use due to health risks and environmental impact.
USA	1 Jan 1976	The substance is banned for use. Leptophos has never registered as a pesticide by EPA, although it has been used under controlled experimental conditions in the U.S. and has been sold abroad. In May 1974, EPA established tolerances for leptophos and its metabolites on lettuce and tomatoes. In May 1975, EPA proposed to revoke the tolerances on the basis of information linking exposure to leptophos to delayed neurotoxicity in hens. In January 1976, leptophos manufactures voluntarily discontinued production. Based on available information, EPA repealed leptophos tolerances. No remaining uses allowed. Animal studies linked exposure to leptophos to delayed neurotoxic effects; death in water buffalo and other animals; depression of blood and brain cholinesterases; and acute cholinergic distress syndrome. Leptophos bioaccumulates in biological tissues and, thus, poses a hazard to humans through the food chain. Human studies have shown an indication of acute cholinergic distress syndrome and the onset of processes leading to delayed neurotoxicity. Other studies have shown neurological effects in workers involved in the manufacturing, packaging, and application of leptophos. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
YUG	1980	The marketing and use of leptophos in agriculture was prohibited because of its retarded neurotoxic effects on humans coming into contact with this substance. In 1982, leptophos was prohibited for any use whatsoever.

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IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986

Product Name **Linuron**

C.A.S. number **330-55-2**

Scientific and common names, and synonyms

AFALON
AFALON INURON
APHALON
CEPHALON
DU PONT 326
DUPONT HERBICIDE 326
GARNITAN
HOE 2810
HERBICIDE 326
LOROX
LOREX
LINURON (HERBICIDE)
LINUREX
LINOROX
LINEX 4L
LOROX LINURON WEED KILLER
METHOXYDIURON
N-(3,4-DICHLOROPHENYL)-N'-METHYL-N'-METHOXYUREA

Legislative or regulation action

Product Name **Linuron**

C.A.S. number **330-55-2**

Scientific and common names, and synonyms

N'-(3,4-DICHLOROPHENYL)-N-METHOXY-N-METHYLUREA
 PREMALIN
 SCARCLEX
 SINURON
 SARCLEX
 UREA, N'-(3,4-DICHLOROPHENYL)-N-METHOXY-N-METHYL-
 1-(3,4-DICHLOROPHENYL)-3-METHOXY-3-METHYLUREE (FRENCH)
 1-METHOXY-1-METHYL-3(3,4-DICHLOROPHENYL)UREA
 3-(4,5-DICHLOROPHENYL)-1-METHOXY-1-METHYLHARNSTOFF (GERMAN)
 3-(3,4-DICHLOROPHENYL)-1-METHOXYMETHYLUREA
 3-(3,4-DICHLOROPHENYL)-1-METHOXY-1-METHYLUREA
 3-(3,4-DICHLORO-FENIL)-1-METOSI-1-METIL-UREA (ITALIAN)
 3-(3,4-DICHLOR-PHENYL)-1-METHOXY-1-METHYL-HARNSTOFF (GERMAN)
 3-(3,4-DICHLOR-FENYL)-1-METHOXY-1-METHYLUREUM (DUTCH)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	01 Jan 2004	The chemical is banned. It is prohibited to import, sell and use linuron as a pesticide. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
SUN		Linuron is prohibited for use as a pesticide because it is carcinogenic (confirmed in humans). (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)
SWE	1 Jan 1990	Severely restricted. Decision by the National Chemicals Inspectorate. Substance is classified as carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Magnesium phosphide**

C.A.S. number **12057-74-8**

Scientific and common names, and synonyms

MAGNESIUM PHOSPHIDE (MG3P2)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	Severely restricted. Use still allowed for fumigation of grain bins. Extreme toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Malathion**

C.A.S. number **121-75-5**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
LKA		Use restricted for malaria control.

Legislative or regulation action

Product Name **Malathion**

C.A.S. number **121-75-5**

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986

Product Name **Maleic anhydride**

C.A.S. number **108-31-6**

Scientific and common names, and synonyms

2,5-FURANDIONE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SLO	13 Jun 1997	Maleic anhydride and its salts are banned for use in agriculture. Preparations containing choline, potassium and sodium salts of maleic hydrazine containing over 1mg/kg of free hydrazine expressed on the basis of acid equivalent can be used. These chemicals were banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Maleic hydrazide**

C.A.S. number **123-33-1**

Scientific and common names, and synonyms

3,6-PYRIDAZINEDIONE, 1,2-DIHYDRO-

3,6-PYRIDAZINEDIONE, 1,2-DIHYDRO

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1991	The placing on the market and the use of the following plant protection products is prohibited: products containing (a) maleic hydrazide and its salts, other than ist choline, potassium and sodium salts, and (b) choline, potassium and sodium slats of maleic hydrazide containing more than 1mg/kg of free hydrazine expressed on the basis of the acid equivalent. The uses of compounds mentioned in the control action on the section (a) and those of section (b) not meeting certain purity criteria are likely to give rise to harmful effects on human and animal health as well as a highly unfavourable influecne on the environment. The compounds mentioned may release hydrazine (CAS No. 302-01-2) in considerable amounts during shelf-life. Hydrazine has been classified by the EC as a category 2 carcinogen (probably carcinogenic to humans). Directive 90/533/EEC of 15.10.90. (Reference: (OJEC) Official Journal of the European Communities, L296/63, , 27 Oct 1990)
AUT	20 Feb 1992	Banned since 01.01.88 in all applications where food contact is possible. All uses banned as of 20.02.92. High mobility in soils and potential for contamination of water. The herbicide is suspected to have a carcinogenic potential. Its residue in food is highly toxic, causing negative effects on central nervous system and liver damage. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
DEU	29 Mar 1991	Totally banned for use as plant protection product. Purity criteria (with regard to free hydrazine); compliance with EEC regulations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK	1 Jul 1997	The authorization for the product containing maleic hydrazide as an active substance has been withdrawn from the market 31 December 1996 and a further use has been banned from 01 July 1997. No uses are allowed. For other categories than agriculture a written

Legislative or regulation action

Product Name **Maleic hydrazide**

C.A.S. number **123-33-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		authorization has to be obtained. No authorization are today given for other purposes. Maleic hydrazide is assessed as a risk to cause groundwater pollution. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GTM		Import of this substance or its potassium salt, in any product, is not allowed in concentrations exceeding 15 parts per million. Maleic hydrazide is a potential carcinogen.
KOR	1 Apr 1989	Hydrazine content of technical is restricted to less than 15 ppm because of its potential carcinogenicity. Risk of carcinogenic effect on humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	Nov 1981	In relation to maleic hydrazide and its diethanolamine salts (DEA-HM), no registrant has provided the additional studies the Environmental Protection Agency requested. Therefore, the November 1981 suspension of all DEA-MH products remains in effect. DEA-MH products are no longer permitted to be used or sold in the U.S., but the suspension in no way prohibits or restricts the export of DEA-MH products from the U.S.

Bibliographical references

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FAO PLANT PRODUCTION & PROTECTION PAPER, 62, , 1984

Product Name **Mancozeb**

C.A.S. number **8018-01-7**

Scientific and common names, and synonyms

MANGANESE, [[1,2-ETHANEDIYLBIS(CARBAMODITHIOATO)](2-)-, MIXT. WITH[[1,2-ETHANEDIYLBIS(CARBAMODITHIOATO)](2-)]ZINC

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 Jan 1990	ETU (ethylene thiourea) content of technical is restricted to less than 0.5% because of its potential carcinogenicity. Risk of carcinogenic effect on humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIY	1 Jan 1991	Mancozeb is banned. No remaining uses allowed. Control action is based on the information received from FAO. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1991	The substance is restricted. Formulations containing mancozeb were reassigned to Class 1 - May only be used professionally by someone holding a special permit. Use is allowed only against fungi on potatoes and onions. The last day of treatment in potato cultures is 1 August for table potatoes and 15 August for potatoes intended for industrial processing. The postharvest interval is 30 days. Use on edible parts is prohibited. Mancozeb is a genotoxic and carcinogenic EBDC compound, containing or creating ETU, a carcinogenic degradation product. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Maneb**

C.A.S. number **12427-38-2**

Scientific and common names, and synonyms

CARBAMIC ACID, ETHYLENEBIS(DITHIO)-, MANGANESE SALT

CARBAMODITHIOIC ACID, 1,2-ETHANEDIYLBIS-, MANGANESE(2+) SALT (1:1)

ETHYLENEBIS(DITHIOCARBAMIC ACID), MANGANESE SALT

Legislative or regulation action

Product Name **Maneb**

C.A.S. number **12427-38-2**

Scientific and common names, and synonyms

ETHYLENEBIS(DITHIOCARBAMIC ACID) MANGANOUS SALT
 ETHYLENEBISDITHIOCARBAMATE MANGANESE
 ETHYLENEBIS(DITHIOCARBAMATO), MANGANESE
 MANGANESE (II) ETHYLENE DI(DITHIOCARBAMATE)
 MANGAN (II)-(N,N'-AETHYLEN-BIS(DITHIOCARBAMATE)) (DEU)
 MANGAAN (II)-(N,N'-ETHYLEEN-BIS(DITHIOCARBAMAAT)) (NLD)
 MANGANOUS ETHYLENEBIS(DITHIOCARBAMATE)
 MANGANESE, [[1,2-ETHANEDIYLBIS(CARBAMODITHIOATO)](2-)]-
 MANGANESE ETHYLENE-1,2-BISDITHIOCARBAMATE
 N,N'-ETILEN-BIS(DITHIOCARBAMMATO) DI MANGANESE (ITA)
 N,N'-ETHYLENE BIS(DITHIOCARBAMATE MANGANEUX) (FRA)
 RHODIANEBE
 (ETHYLENEBIS(DITHIOCARBAMATO))-MANGANESE
 ((1,2-ETHANEDIYLBIS(CARBAMODITHIOATO))(2-))-MANGANESE
 1,2-ETHYLENEDIYLBIS(CARBAMODITHIOATO)MANGANESE
 1,2-ETHANEDIYLBISMANEB, MANGANESE (2+) SALT (1:1)
 1,2-ETHANEDIYLBISCARBAMODITHIOIC ACID, MANGANESE(2+) SALT (1:1)
 1,2-ETHANEDIYLBISCARBAMODITHIOIC ACID, MANGANESE COMPLEX
 1,2-ETHANEDIYLBIS(CARBAMODITHIOATO)(2-)-MANGANESE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 Apr 1989	Registration withdrawn because of its potential carcinogenicity. Risk of carcinogenic effect on humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Maneb is prohibited for use as a pesticide because it is mutagenic, teratogenic and carcinogenic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
SWE	1 Jan 1991	The substance is restricted for use as a pesticide. Formulations containing maneb were reassigned to Class 1 - May only be used professionally by someone holding a special permit. Use is allowed only against fungi on potatoes and onions (Cepa varieties). The last day of treatment in potato cultures is 1 August for table potatoes and 15 August for potatoes intended for industrial processing. The postharvest interval is 30 days. Use on edible parts is prohibited. Maneb is an EDBC compound containing or creating ETU, a carcinogenic degradation product. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

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 FAO PLANT PRODUCTION & PROTECTION PAPER, 124, 701, 1993

Product Name **MCPA**

C.A.S. number **94-74-6**

Scientific and common names, and synonyms

ACETIC ACID, (4-CHLORO-2-METHYLPHENOXY)-

Legislative or regulation action

Product Name **MCPA**

C.A.S. number **94-74-6**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Jul 1997	Authorization for the products containing MCPA as an active substance have been withdrawn from the market 31 December 1996 and a further use has been severely restricted from 01 July 1997. Only uses on specific grass fields are allowed (5-10% of former use). For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. MCPA is assessed as a risk to cause groundwater pollution. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **MCPA-thioethyl (phenothiol)**

C.A.S. number **25319-90-8**

Scientific and common names, and synonyms

S-ETHYL 4-CHLORO-O-TOLYOXYTHIOACETATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	09 May 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Possibly carcinogenic to humans. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **MCPB**

C.A.S. number **94-81-5**

Scientific and common names, and synonyms

4-(4-CHLORO-O-TOLYOXY)BUTYRIC ACID

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	09 May 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. MCPB is possibly carcinogenic to humans. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Mecarbam**

C.A.S. number **2595-54-2**

Scientific and common names, and synonyms

7-OXA-5-THIA-2-AZA-6-PHOSPHANONANOIC ACID, 6-ETHOXY-2-METHYL-3-OXO-, ETHYL ESTER, 6-SULFIDE

AFOS

DITHIOPHOSPHATE DE O,O-DIETHYLE ET DE S-N-METHYL N-CARBOETHOXY CARBAMOYLMETHYLE (FRENCH)

MURUTOX

MARFOTOKS

MC 474

MS 1053

Legislative or regulation action

Product Name **Mecarbam**

C.A.S. number **2595-54-2**

Scientific and common names, and synonyms

MS 1143
MURATOX
MURFOTOX
MUROTOX
MURPHOTOX
N-ETHOXYCARBONYL-N-METHYLCARBAMOYLETHYL O,O-DIETHYL PHOSPHORODITHIOATE
O,O-DIAETHYL-S-(3-METHYL-2,4-DIOXO-5-OXA-3-AZA-HEPTYL)-DITHIOPHOSPHAT (GERMAN)
O,O-DIETHYL S-(N-ETHOXYCARBONYL-N-METHYLCARBAMOYLMETHYL) PHOSPHORODITHIOATE
O,O-DIETHYL S-(N-ETHOXYCARBONYL-N-METHYLCARBAMOYLMETHYL) PHOSPHOROTHIOLATHIONATE
O,O-DIETHYL S-(N-METHYL-N-CARBOETHOXYCARBAMOYLMETHYL) DITHIOPHOSPHATE
O,O-DIETHYL-(3-METHYL-2,4-DIOXO-5-OXA-3-AZA-HEPTYL)-DITHIOFOSFAAT (DUTCH)
O,O-DIETIL-S-(N-ETOSSI-CARBONIL-N-METIL-CARBAMOIL-METIL)-DITIOFOSFATO (IALIAN)
PENNSALT TD-72
PESTAN
S-((ETHOXYCARBONYL)METHYLCARBAMOYL)METHYL O,O-DIETHYL PHOSPHORODITHIOATE
S-(N-ETHOXYCARBONYL-N-METHYLCARBAMOYLMETHYL)-DIETHYL PHOSPHORODITHIOATE
(ETHOXYCARBONYL)METHYLCARBAMOYL)METHYL O,O-DIETHYL PHOSPHORODITHIOATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	The substance is banned for use. Discontinued. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 Apr 1982	Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited to rice plant. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Mecarbam is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Product Name **Mecoprop**

C.A.S. number **7085-19-0**

Scientific and common names, and synonyms

PROPIONIC ACID, 2-((4-CHLORO-O-TOLYL)OXY)-, (+-)-
(RS)-2-(4-CHLORO-O-TOLYOXY) PROPIONIC ACID

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Jul 1997	Authorizations for products containing mecoprop (mechlorprop in Denmark) as an active substance have been withdrawn from the market 31 December 1996 and a further use has been severely restricted from 1 July 1997. Only uses on specific grass fields are allowed (5-10% of former use). For other categories than agriculture a written authorization has to be obtained. No authorizations are today given for other purposes. Mecoprop is assessed as a risk to cause groundwater pollution. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	09 May 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory

Legislative or regulation action

Product Name		Mecoprop
C.A.S. number		7085-19-0
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		action. Possibly carcinogenic to humans. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
Product Name		Mecoprop, sodium salt
C.A.S. number		19095-88-6
Scientific and common names, and synonyms		
PROPIONIC ACID, 2-((4-CHLORO-O-TOLYL)OXY)-, SODIUM SALT		
2-(2-METHYL-4-CHLOROPHENOXY)PROPIONIC ACID, SODIUM SALT		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jun 1982	Withdrawal of the registration of pesticide formulations which contain phenoxy acids as active ingredients and are in the form of powder. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 27 May 1980)
Product Name		Mecoprop-p
C.A.S. number		16484-77-8
Scientific and common names, and synonyms		
PROPIONIC ACID, 2-((4-CHLORO-O-TOLYL)OXY)-, (+)-		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Jul 1997	Authorizations for products containing mecoprop-p (mechlorprop-p in Denmark) as an active substance have been withdrawn from the market 31 December 1996 and a further use has been severely restricted from 1 July 1997. Only uses on specific grass fields are allowed (5-10% of former use). For other categories than agriculture a written authorization has to be obtained. No authorizations are today given for other purposes. Mecoprop-p is assessed as a risk to cause groundwater pollution. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Medinoterb acetate
C.A.S. number		2487-01-6
Scientific and common names, and synonyms		
ACETIC ACID, BROMO-, ETHYL ESTER		
PHENOL, 6-(1,1-DIMETHYLETHYL)-3-METHYL-2,4-DINITRO-, ACETATE (ESTER)		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
BLZ	23 Dec 1985	Medinoterb acetate is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)

Legislative or regulation action

Product Name **Medinoterb acetate**

C.A.S. number **2487-01-6**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Product Name **Melipax**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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COL	Dec 1974	Prohibition of use and sale of organochlorine-containing insecticides in the cultivation of tobacco, either singly or in combination. This restriction is based on standards set by countries importing these agricultural products. (Reference: (RNCOL) Resolution, 447, , 06 Dec 1974)
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Product Name **Menazon**

C.A.S. number **78-57-9**

Scientific and common names, and synonyms

AZIDITHION

PHOSPHORODITHIOIC ACID, S-((4,6-DIAMINO-S-TRIAZIN-2-YL)METHYL)O,O- DIMETHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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HUN	1979	The product was withdrawn. It was found to be replaceable by more efficient and less toxic chemicals. (Reference: (HUNODW) Official Document of Withdrawal, , , 1979)
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Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986

Product Name **Mephosfolan**

C.A.S. number **950-10-7**

Scientific and common names, and synonyms

CYTROLANE

DIETHYL 4-METHYL-1,3-DITHIOLAN-2-YLIDENE PHOSPHORAMIDATE

PHOSPHORAMIDIC ACID, (4-METHYL-1,3-DITHIOLAN-2-YLIDENE)-, DIETHYL ESTER

PHOSPHONODITHIO-, CYCLIC PROPYLENE P,P-DIETHYL ESTER IMIDOCARBONIC ACID

(DIETHOXYPHOSPHINYL)DITHIOIMIDOCARBONIC ACID CYCLIC PROPYLENE ESTER

(4-METHYL-1,3-DITHIOLAN-2-YLIDENE)-, DIETHYL ESTER PHOSPHORAMIDIC ACID

1,2-PROPANEDITHIOL,CYCLIC ESTER WITH P,P-DIETHYL PHOSPHONODITHIOIMIDOCARBONATE

1,2-PROPANEDITHIOL, CYCLIC ESTER WITH P,P-DIETHYL PHOSPHONODITHIOIMIDOCARBONATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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IND	16 Oct 1975	Registration refused. Action taken due to its toxic nature. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
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Legislative or regulation action

Product Name **Mephosfolan**

C.A.S. number **950-10-7**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Extremely hazardous to workers during formulation and application by spraying because of very high acute toxicity. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Mepiquat chloride**

C.A.S. number **24307-26-4**

Scientific and common names, and synonyms

PIPERIDINIUM, 1,1-DIMETHYL-, CHLORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	14 Jul 1990	Severely restricted. For use as a defoliant only in cotton. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	1 Jan 1998	Mepiquat chloride is banned. No remaining uses. Banned because of the substance's low degradability in water. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Mercuric chloride**

C.A.S. number **7487-94-7**

Scientific and common names, and synonyms

BICHLORURE DE MERCURE (FRA)
BICHLORIDE OF MERCURY
CHLORID RTUTNATY(CSK)
CHLORURE MERCURIQUE(FRA)
CORROSIVE MERCURY CHLORIDE
DICHLOROMERCURY
MERCURY BICHLORIDE
MERCURIC BICHLORIDE
MERCURY (II) CHLORIDE
MERCURY CHLORIDE (HGCL2)
MERCURY CHLORIDE (HGCL2)
MERCURY DICHLORIDE
MERCURY PERCHLORIDE
MERCURIC CHLORIDE, SOLID (USA)
PERCHLORIDE OF MERCURY
QUECKSILBER CHLORID (DEU)
SUBLIMAT (CSK)

Legislative or regulatory action

Legislative or regulation action

Product Name		Mercuric chloride
C.A.S. number		7487-94-7
Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	Mercuric chloride is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
GBR	1 Jan 1981	Home garden use of mercuric chloride withdrawn (1967). Fungicidal uses of mercury chloride in agriculture, horticulture and forestry withdrawn (1 January 1981). All uses withdrawn because of the high (acute and chronic) mammalian toxicity of mercury chloride. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 241, , 1967)
USA	17 Nov 1993	The substance is banned for use. In March 1972 all remaining registrations of mercury products were cancelled and registrations for all alkyl mercury pesticides and all other mercury products used on rice, in laundry fabrics, in marine anti-fouling paint were suspended including the various uses of mercuric chloride. As a result of a public hearing in 1974 and further studies, all uses were cancelled except fungicide use to control winter turf diseases and use on freshly cut lumber, with certain restrictions. The last remaining uses were canceled in November 1993. No remaining uses allowed. Mercury-based pesticides contaminate the environment when they are converted to alkyl mercury in aquatic environments through methylation. Alkyl mercury is highly toxic and can accumulate in the brain and cause damage to the nervous system. Mercury bioaccumulates and contaminates fish and aquatic life. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name		Mercuric oxide
C.A.S. number		21908-53-2
Scientific and common names, and synonyms		MERCURY OXIDE (HGO) MERCURY (II) OXIDE
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	23 Jun 1989	It is prohibited to use or place on the market all plant protection products containing mercuric oxide as an active ingredient. In addition, mercuric oxide may not be used as substance and constituent of preparations intended for the following biocide uses: a) to prevent the fouling by micro-organisms, plants or animals of: the hulls of boats; cages, floats nets and other appliances or equipment used for fish or shellfish farming; any totally or partly submerged appliances or equipment; b) in the preservation of wood; c) in the impregnation of heavy-duty industrial textiles and yarn intended for their manufacture; d) in the treatment of industrial waters, irrespective of their use. Mercury oxide is persistent in the environment. It is likely to bioaccumulate and produce food-chain effects on terrestrial and aquatic organisms. (Directive 89/677/EEC of 21.12.89) (Reference: (OJEC) Official Journal of the European Communities, L398/19, , 30 Dec 1989)
GBR	1 Jan 1981	1) Permitted only as a canker paint on apple and pear trees, after harvest and before bud burst to control cankers caused by <i>nectria galligena</i> (agricultural and horticultural use). 2) Permitted only as a ready-to-use fungicidal paint containing not more than 5% w/w on apple and pear trees after harvest and before bud burst in home gardens. Use as a canker paint on apple and pear trees restricted to after harvest and before bud burst to avoid accumulation of mercury in harvested fruit. This permitted use of mercury oxide will be withdrawn when an equally effective non-mercurial alternative pesticide is available. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for

Legislative or regulation action

Product Name **Mercuric oxide**

C.A.S. number **21908-53-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SLO	13 Jun 1997	safe use in the UK, 1471-72, , 1980) Banned for use in agriculture. These chemicals were banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Mercurous chloride**

C.A.S. number **7546-30-7**

Scientific and common names, and synonyms

MERCURY CHLORIDE (HGCL)

MERCURY (I) CHLORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1988	Member States shall ensure that plant protection products containing mercurous chloride (calomel) alone or in combination with other active substances listed may neither be placed on the market nor used except a) against plasmodiophora on brassicae b) for the treatment of onion seeds and plants against sclerotium. (OJEC L33,36,1979; OJEC L91,35,1983; OJEC L154,48, 1985- as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L273, 40, 1987)
GBR	Jan 1986	The use of technical mercurous chloride containing up to 100ppm of mercuric chloride is acceptable in formulations. Permitted as 1) a dry dressing on onion seed or as a dip or a drench for shallots and transplanted onions at planting time to control white rot (sclerotium) 2) a dust applied to the soil before or shortly after setting out, as a dip, or as a drench, for brassica transplants to control club root(plasmodiophora). Permitted for home garden use as outlined in 1) and 2) above as a formulated preparation. All other uses have been withdrawn in accordance with Council Directive 79/117/EEC. The remaining uses will be withdrawn when suitable non-mercurial alternatives are available. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 1828-29, , 1984)

Product Name **Mercurous chloride (Calomel)**

C.A.S. number **10112-91-1**

Scientific and common names, and synonyms

MERCURY CHLORIDE [HG2CL2]

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Mar 1992	It is prohibited to use or place on the market all plant protection products containing mercurous chloride as an active ingredient. In addition, mercurous chloride may not be used as substance and constituent of preparations intended for the following biocide use: a) to prevent the fouling by micro-organisms, plants or animals of: the hulls of boats; cages, floats, nets and other appliances or equipment used for fish or shellfish farming; any totally or partly submerged appliances or equipment; b) in the preservation of wood; c) in the impregnation of heavy-duty industrial textiles and yarn intended for their manufacture; d) in the treatment of industrial waters, irrespective of their use. Mercurous

Legislative or regulation action

Product Name		Mercurous chloride (Calomel)
C.A.S. number		10112-91-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SLO	13 Jun 1997	chloride is persistent in the environment. It is likely to bioaccumulate and produce food-chain effects on terrestrial and aquatic organisms. (Directive 91/188/EEC of 19.3.91) (Reference: (OJEC) Official Journal of the European Communities, L92/42, , 13 Apr 1991) Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	17 Nov 1993	The substance is banned. In March 1972 all remaining registrations of mercury products were cancelled and registrations for all alkyl mercury pesticides and all other mercury products used on rice seed, in laundry fabrics, in marine anti-fouling paint and mercurous chloride use on turf were suspended. As a result of a public hearing in 1974 and further studies, all uses were cancelled except for some of them. All remaining uses were cancelled in November 1993. Mercury based pesticides contaminate the environment when they are converted to alkyl mercury in aquatic environment through methylation. Alkyl mercury is highly toxic and can accumulate in the brain and cause damage to the nervous system. Mercury also bioaccumulates in aquatic environments. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Mercury and mercury compounds *
C.A.S. number		7439-97-6
Scientific and common names, and synonyms		MERCURY
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Mar 1992	It is prohibited to use or place on the market all plant protection products containing inorganic or organic (alkyl, alkoxyalkyl and aryl mercury compounds) as an active ingredient. In addition, mercury compounds may not be used as substances and constituents of preparations intended for the following biocide uses: a) to prevent the fouling by micro-organisms, plants or animals of: the hulls of boats, cages, floats, nets and other appliances or equipment used for fish or shellfish farming; any totally or partly submerged appliances or equipment; b) in the preservation of wood; c) in the impregnation of heavy-duty industrial textiles and yarn intended for their manufacture; d) in the treatment of industrial waters, irrespective of their use. The specific compounds considered as inorganic or organic compounds are defined in a list available from the DNA. Metallic mercury is, however, neither subject to control actions in the plant protection use area nor in the biocide use area. A great number of mercury compounds are still allowed for industrial purposes. Inorganic and organic (alkyl, alkoxyalkyl and aryl) mercury compounds are persistent in the environment. They are likely to bioaccumulate and produce food-chain effects on terrestrial and aquatic organisms. In addition, organic mercury compounds (alkyl, alkoxyalkyl and aryl mercury compounds) were mainly used as seed treatments and especially alkyl mercury compounds are highly volatile, these compounds pose a high risk to the operator during seed treatment if this process is done in small scale and more or less manually, which is the usual case in small farms. The high volatility poses further a high risk to health when the seed is spread. Plant protection use: Directive 79/11/EEC (OJ L33/36 of 28.02.79) as amended by Directive 91/188/EEC. (Reference: (OJEC) Official Journal of the European Communities, L92/42, , 13 Apr 1991)
AUT	1 Jan 1993	The control action applies to the following mercury compounds. Chloroethyl mercury (CAS 107-27-7), Ethyliodo mercury (CAS 2440-42-8) and (Acetato-0)phenyl mercury (CAS 62-38-4). All uses banned. High toxicity, effects on the central nervous system,

Legislative or regulation action

Product Name		Mercury and mercury compounds *
C.A.S. number		7439-97-6
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		high persistence in the environment and bioaccumulation in the food chain and in fatty tissues. Contamination of water and accumulation in plants occur. Some mercury compounds have a high risk of occupational poisoning by mercury vapor (methyl-compounds, metallic mercury). (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
CHE	1 Sep 1986	Severely restricted chemical. The following uses are prohibited: a) Supply by manufacturers of products and articles containing mercury; b) Import of products and articles containing mercury as commercial goods; c) Use of elementary mercury, mercury compounds and products containing mercury. The prohibition does not apply to the supply by manufacturers of the import as commercial goods of: pharmaceutical products; seed dressing; sealing agents for trees; antiques. If there is no replacement amount product that does not contain mercury and provided that no more than the minimum amount of mercury necessary for the intended use is employed, the prohibition does not apply to the supply by manufacturers nor the import as commercial goods of: measuring, control or laboratory instruments; bulbs and light tubes; artists' colours for restoration; products for dental fillings; auxiliary substances for manufacturing processes. Special provisions apply for batteries. Bioaccumulation of organic derivatives, neurotoxicity. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.2, , 09 June 1986)
COL	14 Nov 1974	Mercuric fungicides are banned for use in agriculture. (Fungicidas mercuriales: Prohibido su uso en la agricultura.) No remaining uses allowed. (Ninguno.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CUB	21 Dec 1990	The control action applies to all inorganic mercury compounds. The substances are banned for use, production and import as pesticides (Todos los compuestos inorganicos del mercurio estan prohibidos para su uso, produccion e importacion como plaguicidas). These substances present a high and proven persistence in the environment and a chronic toxicity to man (Estas sustancias presentan elevada y comprobada persistencia en el ambiente y toxicidad cronica para el hombre). (Reference: (CUBMSP) Ministro de Salud Publica, , , 1990)
CYP	15 Apr 1982	The control action applies to all mercury pesticides. No remaining uses allowed. Risk associated with human health and environmental hazard due to their high acute toxicity and chronic toxicity to mammals, birds and other non-target species, the accumulation of mercury in treated crops and their persistence in the environment. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1982)
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
DEU	1 Feb 1981	The control action applies to inorganic mercury compounds, alkyl mercury compounds, alkoxyalkyl mercury compounds. Totally banned for use as plant protection product. Risk to the operator (especially alkyl mercury compounds) and the environment (impact on surface water, hazards to birds); compliance with EEC regulations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DEU	1 Apr 1986	Mercury compounds are prohibited for use as plant protectants. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
DNK		Restricted in accordance with EEC-Directive 79/117.
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. Applies to mercury compounds. (Reference: (ACMIN) Acuerdo Ministerial No., No.0242, , 1985)

Legislative or regulation action

Product Name	Mercury and mercury compounds *	
C.A.S. number	7439-97-6	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
FIN	31 Dec 1991	The control action applies to mercury compounds. Total ban to manufacture, import and use as a pesticide. High risk to human health and the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	30 Sep 1992	The control action applies to alcylic mercury compounds. Use as a pesticide restricted as from 01.01.1969. Total ban to import or use as a pesticide as from 30.09.1992. High risk to human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GAM	17 Feb 1997	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	1 Jan 1986	Withdrawal of use of arylmercury (such as phenylmercuric and tolylmercuric compounds) foliage sprays as fungicides in agriculture and horticulture. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 1826, , 1984)
GBR	1 Jan 1992	May not be used as substances/constituents of preparations intended for anti-foulant paints, preservation of wood, impregnation of heavy duty textiles and treatment of industrial waters. Control introduced under the 8th Amendment, Directive 89/677/EEC of the European Community Marketing and Use Directive 76/769/EEC. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
HUN	30 Nov 1990	Organic mercury compounds are banned for all agricultural uses. Industrial use is not subject to the decision but no industrial use have been registered sof far in Hungary. (applies to ethylmercury chloride (Granosan), phenyl mercury pyrocatechyn-sodium (falisan), 2-methoxy-ethylmercury silicate (Higonit, Nitrosil) and 2-methoxyethylmercury chloride (Merklorate, Ceresan Universal, Radosan)). Environmental pollution. (Reference: (HUNODW) Official Document of Withdrawal, , , 1990)
IDN		Inorganic and organic mercury fungicides never registered. Prohibited for all agricultural use. No remaining use allowed. Inorganic and organic mercury fungicides are extremely poisonous to humans and animals. Some inorganic mercury fungicides are phytotoxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1975	Mercury compounds are banned for use as a pesticide. No remaining uses allowed. The action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
LKA	30 Jun 1987	The control action applies to mercurial biocides. Mercurial biocides are severely restriced pesticides. All mercury based agro-pesticides. Mercuric oxide, pheny mercury acetate. Ethoxy ethyl mercury hydroxide are baned for use (seed dressings, panel dressings for trees, etc). Industrial uses as in can preservative for paints have been withdrawn. Control actions based on the reports of health and environmental aspects. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1987)
LUX	Jun 1977	Alkyl mercury compunds (methyl mercury and ethyl mercury) are prohibited for use in agriculture.
MEX	1982	Prohibited agricultural pesticide. Reasons for the control action: protection of health and the environment (because of its high toxicity, LD50: 100mg/kg). (Reference: (MEXMP) Manual de Plaguicidas Autorizados para, , ,)
NLD	1 Jan 1981	It is prohibited to sell, stock, store or use all pesticides containing mercury as an active ingredient except: alkyl mercury compounds for dipping of seed potatoes. Prohibition

Legislative or regulation action

Product Name		Mercury and mercury compounds *
C.A.S. number		7439-97-6
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		based on the fact that inorganic mercury compounds are slowly transformed into organic mercury compounds in the environment. These organic mercury compounds are easily bioaccumulated and biomagnified in the food chain; the fact that mercury compounds after chronic low-level exposure may cause neurological defects in humans. Legislative action by the Netherlands' government was enforced by Directive 79/117 of the European Communities published in OJEC L33/39 of 8 February 1979.
NOR	1966	Alkyl mercury compounds are prohibited for use in agriculture.
NZL	1983	Mercury-containing pesticides have been voluntarily withdrawn from the market.
PAN	Sep 1987	Mercury compounds: import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
PHL	14 Aug 1983	Mercuric fungicides are banned for use. No remaining uses allowed. Action taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
POL		Mercury compounds: use discontinued because of toxicity and for the protection of the environment. (Reference: (POLIP) Instytut Przemysłu Organicznego, , , 1987)
PRT	22 Jul 1970	Pesticides based on alkyl mercury compounds are banned on account of their toxicological/environmental effect. (Reference: (PORHW) Secretario de Estado da Saude e Assistencia, , , 22 July 1970)
SLO	13 Jun 1997	Inorganic mercury compounds, alkyl mercury compounds and alkoxyalkyl and aryl mercury compounds are banned for use in agriculture. These chemicals were banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	28 Feb 1966	Alkyl mercury compounds are banned for use as a pesticide. No remaining uses allowed. Suspended because of their high toxicity and environmental impact. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	13 Aug 1979	The use of methoxyethyl mercury acetate is severely restricted. It can be used as seed dressing only after special training, and if need or use has been proven. Grounds for restriction are its toxicity and environmental impact. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 13 Aug 1979)
TGO		Mercury and organomercury compounds. Generally formulated as powders to be used as such or as wettable powders for coating. 1980 : mercury compounds are no more used as fungicides for treatment of aerial parts of plants. 1983 : use of mercury compounds as seed disinfectants is reduced except for cotton seed. Considering the well-known noxiousness of these compounds they are less used. (Reference: (MINAR) Ministère de l'Aménagement Rural, , ,)
THA	2 May 1995	All use categories have been banned. The substance is: 1) toxic to aquatic organisms; 2) persistent and residues accumulate in environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	Aug 1976	The Environmental Protection Agency has cancelled all uses except the following: as a fungicide in the treatment of textiles and fabrics intended for continuous outdoor use; as a fungicide to control brown mold on freshly-sawn lumber; as a fungicide treatment to

Legislative or regulation action

Product Name **Mercury and mercury compounds ***

C.A.S. number **7439-97-6**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		control Dutch Elm disease; as an in-can preservative in water-based paints and coatings used for exterior application; as a fungicide to control "winter turf diseases" such as sclerotinia boreales, and gray and pink snow mold subject to the following: "the use of these products shall be prohibited within 25 feet of any water body where fish are taken for human consumption". (Reference: (FEREAC) Federal Register, 41, 16497, 1976)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 1, , 1976
WHO FOOD ADD., 13, 43, 1978
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
WHO FOOD ADD., 24, 295, 1989
IPCS ENVIRONMENTAL HEALTH CRITERIA, 101, , 1990
IPCS ENVIRONMENTAL HEALTH CRITERIA, 118, , 1991
IARC MONOGRAPH, 58, 239, 1993

Product Name **Metaldehyde**

C.A.S. number **108-62-3**

Scientific and common names, and synonyms

1,3,5,7-TETROXOCANE, 2,4,6,8-TETRAMETHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KWT	1 Jun 1993	Severely restricted. Only allowed to be used under strict supervision of trained personnel. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Metazachlor**

C.A.S. number **67129-08-2**

Scientific and common names, and synonyms

ACETAMIDE, 2-CHLORO-N-(2,6-DIMETHYLPHENYL)-N-(1H-PYRAZOL-1-YLMETHYL)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jan 1992	Banned. Risk of water pollution. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Metham sodium**

C.A.S. number **137-42-8**

Scientific and common names, and synonyms

CARBAMODITHIOIC ACID, METHYL-, MONOSODIUM SALT

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name		Metham sodium
C.A.S. number		137-42-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	Restricted for use as a soil fumigant. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
DEU	1 May 1986	Use prohibited in protected water areas (with certain exceptions) and in natural parks and reserves. (Reference: (BGBL) Bundesgesetzblatt, IS.363, 1986)
Product Name		Methamidofos *
C.A.S. number		10265-92-6
Scientific and common names, and synonyms		
O,S-DIMETHYL PHOSPHORAMIDOTHIOATE		
PHOSPHORAMIDOTHIOIC ACID, O,S-DIMETHYL ESTER		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
BRA	21 Jun 2002	The chemical is severely restricted. Agricultural use allowed under conditions set by Federal Body of Environment, Agriculture and Health. (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
CHN	5 Jun 1982	It is prohibited to use methamidofos on fruit trees, vegetables, tea, herbs, tobacco, coffee and pepper. Methamidofos is a highly restricted persistent pesticide. Its use is harmful to human health and is therefore severely restricted. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), No4,)
IDN	1 Jul 1985	No longer permitted to register. No remaining use allowed. The substance induces harmful effects to human being and environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 Apr 1984	Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited to rice plant. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1980	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIY		Methamidophos is banned. No remaining uses allowed. Control action is based on the information received from FAO. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LKA	1 May 1995	The substance is severely restricted. Not allowed to import, formulate or repack for retail sale. Action was taken due to increased incidences of suicidal attempts and high risk of occupational exposure under local socio-economic and climatic conditions. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	01 Jan 2002	The chemical is severely restricted. All formulations > 600 gr/l concentration of active ingredient are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 2,3, 4,6,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)

Legislative or regulation action

Product Name **Methamidofos ***

C.A.S. number **10265-92-6**

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 72/2, , 1985
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 99, 35, 1989
 FAO PLANT PRODUCTION & PROTECTION PAPER, 100, 217, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 102, 44, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 245, 1990
 IPCS HEALTH AND SAFETY GUIDE, 79, , 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 126, 1994
 FAO PLANT PRODUCTION & PROTECTION PAPER, 131/2, 815, 1994

Product Name **Methanearsonic acid**

C.A.S. number **124-58-3**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
PRT		This product may not be marketed in Portugal on account of its environmental/toxicological effect. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , ,)

Bibliographical references

IPCS HEALTH AND SAFETY GUIDE, 69, , 1992

Product Name **Methazole**

C.A.S. number **20354-26-1**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
AUS	31 Mar 1996	Methazole banned for all uses. Registrations for use cancelled. Prohibition due to adverse effects on human health. New toxicological data revealed dose-related increases in the incidences of cataracts or lenticular opacities in rats' offspring. It was determined that exposure to methazole posed an undue human health risk. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Methidathion**

C.A.S. number **950-37-8**

Scientific and common names, and synonyms

O,O-DIMETHYL-S-(2-METHOXY-1,3,4-THIAZOL-5(4H)-ONYL-(4)-METHYL) PHOSPHORODITHIOATE
 O,O-DIMETHYL ESTER, S-ESTER WITH 4-(MERCAPTOMETHYL)-2-METHOXY-DELTA-2- 1,3,4-THIAZOLIN-5-ONE
 PHOSPHORODITHIOIC ACID
 O,O-DIMETHYL ESTER, S-ESTER WITH 4-(MERCAPTOMETHYL)-2-METHOXY-DELTA.2
 O,O-DIMETHYL S-(5-METHOXY-1,3,4-THIAZOLINYL-3-METHYL) DITHIOPHOSPHATE
 O,O-DIMETHYL-S-((2-METHOXY-1,3,4-THIAZOL-5(4H)-ONYL-(4)-METHYL) PHOSPHORODITHIOATE
 O,O-DIMETHYL-S-(2-METHOXY-1,3,4-THIAZOL-5-(4H)-ONYL-(4)-METHYL)- DITHIOPHOSPHAT (DEU)
 O,O-DIMETIL-S-((2-METOSSI-1,3,4-(4H)-TIADIAZOL-5-ON-4-IL)-METIL)- DITIFOSFATO (ITA)
 O,O-DIMETHYL-S-((2-METHOXY-1,3,4(4H)-THIODIAZOL-5-ON-4-YL)-METHYL)- DITHIOFOSFAAT (NLD)
 PHOSPHORODITHIOIC ACID, S-[(5-METHOXY-2-EXO-1,3,4-THIAZOL-3(2H)-YL)METHYL] O,O-DIMETHYL ESTER
 PHOSPHORODITHIOIC ACID
 S-((5-METHOXY-2-EXO-1,3,4-THIAZOL-3(2H)-YL)METHYL) O,O-DIMETHYL ESTER PHOSPHORODITHIOIC ACID

Legislative or regulation action

Product Name **Methidathion**

C.A.S. number **950-37-8**

Scientific and common names, and synonyms

S-((5-METHOXY-2-OXO-1,3,4-THIAZOL-3(2H)-YL)METHYL) O,O-DIMETHYL PHOSPHORODITHIOATE
 S-(2,3-DIHYDRO-5-METHOXY-2-OXO-1,3,4-THIAZOL-3-METHYL) DIMETHYL PHOSPHOROTHIOLOTHIONATE
 (O,O-DIMETHYL)-S-(-2-METHOXY-DELTA(SUP 2)-1,3,4-THIAZOLIN-5-ON-4- YLMETHYL)DITHIOPHOSPHATE
 (O,O-DIMETHYL)-S-(2-METHOXY-DELTA(SUP 2)-1,3,4-THIAZOLIN-5-ON-4- YLME,HYL)DITHIOPHOSPHATE
 4-THIAZOLIN-5-ONE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 Feb 1981	Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PHL		Considered too hazardous for general use. Restricted to institutional use on banana plantations only.
SUN		Methidathion is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 20, , 1979
 FAO PLANT PRODUCTION & PROTECTION PAPER, 20 SUP., , 1979
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 53, 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 459, 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 132, 1994

Product Name **Methiocarb**

C.A.S. number **2032-65-7**

Scientific and common names, and synonyms

PHENOL, 3,5-DIMETHYL-4-(METHYLTHIO)-, METHYLCARBAMATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KWT	1 Jan 1985	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Methomyl**

C.A.S. number **16752-77-5**

Scientific and common names, and synonyms

ETHANIMIDOTHIOIC ACID, N-[[[(METHYLAMINO)CARBONYL]OXY]-, METHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 Apr 1984	Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited to rice plant. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Methomyl**

C.A.S. number **16752-77-5**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	20 Apr 1984	Classified as "highly hazardous " and "restricted use" pesticide. Due to high toxicity to fish, shellfish and silkworm, the use of this product is prohibited in neighboring fish farm, waterways and mulberry farm. The use of this product is strictly prohibited to rice plant. Pre-harvest intervals were established for the safe use of this product. High toxicity to fish, shellfish and silkworm. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jun 1994	Banned for use as a pesticide. No remaining uses allowed. Action was taken for health reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 63, , 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 78, 237, 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 78/2, 97, 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 84, 32, 1987
 FAO PLANT PRODUCTION & PROTECTION PAPER, 86/1, 101, 1987
 FAO PLANT PRODUCTION & PROTECTION PAPER, 92, 28, 1988
 FAO PLANT PRODUCTION & PROTECTION PAPER, 99, 36, 1989
 FAO PLANT PRODUCTION & PROTECTION PAPER, 100, 219, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 100/2, 157, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 102, 46, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 277, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 111, 76, 1991
 FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART1), 475, 1992
 IPCS HEALTH AND SAFETY GUIDE, 97, , 1995
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 178, , 1996

Product Name **Methoxychlor**

C.A.S. number **72-43-5**

Scientific and common names, and synonyms

BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-METHOXY-ETHANE, 1,1,1-TRICHLORO-2,2-BIS(P-METHOXYPHENYL)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	19 Mar 1963	Prohibited for use as scabicide in sheep in certain parts of the province of Buenos Aires. (Reference: (ARESA) Argentinian Legislation, Resolución, 21, , 1963)
ARG	30 Apr 1968	Prohibited for use as external parasiticide in cattle and swine. (Reference: (ADECA) Argentinian Legislation, Decreto, 2143, , 1968)
ARG	01 May 1968	Prohibited for use in dips for cattle and swine, in slaughterhouses and in processing of meat. (Reference: (ARESA) Argentinian Legislation, Resolución, 361, , 1968)

Legislative or regulation action

Product Name **Methoxychlor**

C.A.S. number **72-43-5**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	1 Jun 1972	Prohibited for use as an antiweevil agent on seeds and their products intended for human and animal consumption. (Reference: (ADISS) Argentinian Legislation, Disposición, 47, , 1972)
AUS	21 Dec 1987	Importation of the chemical is prohibited unless specifically approved by the Government (21 December 1987). All uses including use on cattle and control of household pests now discontinued (Dates vary from State to State). No remaining uses allowed. The use of this chemical is considered to be environmentally unacceptable. Concerns about toxic effect on female rat reproductive systems and weak estrogenic effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
BLZ	28 Dec 1985	Methoxychlor is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
CHE	1 Sep 1986	Totally banned chemical: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited. Long persistence, bioaccumulation. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
DEU	1 Jan 1978	It is prohibited to apply solutions of 99% purity or more against parasites on horse, cattle, swine, goat and sheep. It is prohibited to apply against parasites on poultry and to apply to the udder of lactating horses, cows, sheep and goats at concentrations exceeding the maximum residue limits (MRLs) set for milk and milk products. (Reference: (BGBL) Bundesgesetzblatt, IS.1136, , 1981)
IDN		Substance has never been registered. No data is available. Not enough available data. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1980	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)

Bibliographical references

IARC MONOGRAPH, 5, 193, 1974
IARC MONOGRAPH, 20, 259, 1979
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984

Legislative or regulation action

Product Name **Methoxyethyl mercury acetate**

C.A.S. number **151-38-2**

Scientific and common names, and synonyms

MERCURY, (ACETATO-O)(2-METHOXYETHYL)-

MERCURY, (ACETATO)(2-METHOXYETHYL)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
GBR		Only permitted as cereal seed treatment in static and mobile seed treating machines (seed treated with an organomercury compound should not be used for human or animal consumption, even after washing or diluting with untreated seed). Use restricted to cereal seed treatment carried out in static and mobile seed treating machines to reduce operator hazard. This use will be withdrawn when a suitable non-mercurial treatment becomes available. (See also Council Directive 79/117 EEC (Prohibition Directive)) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jul 1988	The substance is banned for use as a pesticide. It was severely restricted in 1979 for use only as a seed dressing and only after special training and if need of use had been proven. Last remaining use as a seed dressing was suspended in 1988. No remaining uses allowed. Action taken due to the substance's high chronic toxicity and persistence in the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 1, , 1976

Product Name **Methyl mercury**

C.A.S. number **22967-92-6**

Scientific and common names, and synonyms

MERCURY(1+), METHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
GBR	1 Jan 1971	Withdrawal of the use of methyl mercury as a liquid seed dressing. Uses withdrawn on environmental grounds (ability to accumulate in the food chain). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Methylhexahydrophthalic anhydride**

C.A.S. number **25550-51-0**

Scientific and common names, and synonyms

1,3-ISOBENZOFURANDIONE, HEXAHYDROMETHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jul 1991	Severely restricted. The substance is sensibilizing. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Methyltetrahydrophthalic anhydride**

C.A.S. number **26590-20-5**

Scientific and common names, and synonyms

PHTHALIC ANHYDRIDE, METHYLTETRAHYDRO-

Legislative or regulation action

Product Name **Methyltetrahydrophthalic anhydride**

C.A.S. number **26590-20-5**

Scientific and common names, and synonyms

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jul 1991	Methyltetrahydrophthalic anhydride is severely restricted. The substance is sensibilizing. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Metoxuron**

C.A.S. number **19937-59-8**

Scientific and common names, and synonyms

UREA, N'-(3-CHLORO-4-METHOXYPHENYL)-N,N-DIMETHYL-

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1990	Banned for use as a pesticide. No remaining uses allowed. Substance is a suspected carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Mevinphos**

C.A.S. number **7786-34-7**

Scientific and common names, and synonyms

ALPHA-2-CARBOMETHOXY-1-METHYLVINYL DIMETHYL PHOSPHATE
 APAVINPHOS
 CMDP
 COMPOUND 2046
 CROTONIC ACID, 3-HYDROXY-, METHYL ESTER, DIMETHYL PHOSPHATE
 DIMETHYL (1-METHOXYCARBOXYPROPEN-2-YL)PHOSPHATE
 DIMETHYL 2-METHOXYCARBONYL-1-METHYLVINYL PHOSPHATE
 DIMETHYL METHOXYCARBONYLPROPENYL PHOSPHATE
 DIMETHYL-1-CARBOMETHOXY-1-PROPEN-2-YL PHOSPHATE
 DURAPHOS
 ENT 22,374
 FOSDRIN
 GESTID
 GESFID
 MENINPHOS
 MENIPHOS
 MENITE
 METHYL 3-(DIMETHYLOXYPHOSPHINYLOXY)CROTONATE
 MEVINFOS (DUTCH)
 MEVINPHOS (ACGIH, DOT)
 MEVINPHOS MIXTURE, WET (DOT)
 MELVINPHOS MIXTURE, DRY (DOT)
 NA 2783 (DOT)
 O,O-DIMETHYL O-(1-CARBOMETHOXY-1-PROPEN-2-YL) PHOSPHATE

Legislative or regulation action

Product Name **Mevinphos**

C.A.S. number **7786-34-7**

Scientific and common names, and synonyms

O,O-DIMETHYL-O-(2-CARBOMETHYL-O-(2-CARBOMETHOXY-1-METHYLVINYL) PHOSPHATE
O,O-DIMETHYL-O-2-METHOXYCARBONYL-1-METHYL-VINYL-PHOSPHAT (GERMAN)
OS 2046
O,O-DIMETHYL O-(1-METHYL-2-CARBOXYVINYL) PHOSPHATE
PHOSDRIN
PHOSPHORIC ACID, DIEMTHYL ESTER, ESTER WITH METHYL 3-HYDROXYCROTONATE
PHOSPHORIC ACID, (1-METHOXYCARBOXYPROPEN-2-YL) DIMETHYL ESTER
PHOSPHENE (FRENCH)
PD 5
PHOSFENE
PHOSPHATE DE DIMETHYLE ET DE 2-METHOXYCARBONYL-1 METHYLVINYLE (FRENCH)
(2-METHOXYCARBONYL-1-METHYL-VINYL)-DIMETHYL-FOSFAAT (DUTCH)
(2-METHOXYCARBONYL-1-METHYL-VINYL)-DIMETHYL-PHOSPHAT (GERMAN)
(2-METOSSICARBONIL-1-METHIL-VINYL)-DIMETIL-FOSFATO (ITALIAN)
1-METHOXYCARBONYL-1-PROPEN-2-YL DIMETHYL PHOSPHATE
2-METHOXYCARBONYL-1-METHYLVINYL DIMETHYL PHOSPHATE
2-BUTENOIC ACID, 3-[(DIMETHOXYPHOSPHINYL)OXY]-, METHYL ESTER (9CI)
2-CARBOMETHOXY-1-METHYLVINYL DIMETHYL PHOSPHATE
2-CARBOMETHOXY-1-PROPEN-2-YL DIMETHYL PHOSPHATE
2-METHODOXYCARBONYL-1-METHYLVINYL DIMETHYL PHOSPHATE
2-BUTENOIC ACID, 3-[(DIMETHOXYPHOSPHINYL)OXY]-, METHYL ESTER
3-[(DIMETHOXYPHOSPHINYL)OXY]-, METHYL ESTER 2-BUTENOIC ACID
3-[(DIMETHOXYPHOSPHINYL)OXY]-2-BUTENOIC ACID METHYL ESTER
3-HYDROXY-, METHYL ESTER, DIMETHYL PHOSPHATE CROTONIC ACID
3-HYDROXYCROTONIC ACID METHYL ESTER DIMETHYL PHOSPHATE
3-[(DIMETHOXYPHOSPHINYL)-, METHYL ESTER 2-BUTENOIC ACID

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	Mevinphos is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
IDN		Never been registered. Prohibited for all purposes. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	1 Oct 1973	Registration refused. Action taken in view of its toxicity to human beings and animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	1983	Re-classified from very toxic to extremely toxic. Allowed to be sold to and used by authorized persons only.
PAK	1 Jan 1992	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)
THA	09 May 2000	The chemical is banned. Banned for import, production, having in possession and use as an agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Very high acute toxicity, extremely hazardous and risk to workers in

Legislative or regulation action

Product Name		Mevinphos
C.A.S. number		7786-34-7
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
USA	1 Jul 1994	<p>formulation plant and during application by spraying. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)</p> <p>On July 1 1994, EPA canceled all pesticide registrations that included mevinphos as an active ingredient, effective immediately. The action was based upon a request received from the registrant, AMVAC Chemical Corporation, to voluntarily cancel all registrations of pesticides containing mevinphos, as well as EPA's determination that continued use of mevinphos would pose an unreasonable adverse effect on the environment. EPA has weighed the risks associated with mevinphos (primarily acute poisonings of agricultural workers) and the benefits, and has concluded that the risks outweigh the benefits. No remaining uses allowed. EPA has determined that the risks of exposure to mevinphos for agricultural workers are unacceptable. EPA's concern was primarily based on over 600 mevinphos- associated poisoning incidents reported during the past decade. Mevinphos is in EPA Toxicity Category I, which includes the most acutely toxic pesticides, and is one of the most acutely toxic pesticides available in the US market today. Based on animal toxicity studies, less than one teaspoon of mevinphos spilled on the skin could be lethal to an adult. Mevinphos is even more toxic by the oral route: 10 or less drops could be lethal if swallowed. Exposure to mevinphos can depress the enzyme cholinesterase. Cholinesterase depression reduces the body's ability to function properly because nerve junctions (synapses) are over-stimulated. As a result, persons exposed to mevinphos may experience headaches, nausea, vomiting, weakness, diarrhea, blurred vision, excessive perspiration and salivation, aching muscles, and dizziness. Severe cases may result in convulsions, loss of consciousness, pulmonary edema, and muscle paralysis, which can lead to death by asphyxiation. A significant portion of those poisoned may experience long-term effects including persistent neurological problems, such as recurring headaches, visual disturbances, persistent weakness, confusion, short-term memory loss, depression and difficulty concentrating. EPA has come concerns about potential acute dietary risk associated with mevinphos; however, at this time the Agency has not completed this part of its analysis. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
Bibliographical references		
WHO PESTICIDE RESIDUES SERIES, 2, , 1973		
WHO TECHNICAL REPORT SERIES, 525, , 1973		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986		
Product Name		Mexacarbate
C.A.S. number		315-18-4
Scientific and common names, and synonyms		<p>CARBAMIC ACID, METHYL-, 4-DIMETHYLAMINO-3,5-XYLYL ESTER</p> <p>PHENOL, 4-(DIMETHYLAMINO)-3,5-DIMETHYL-, METHYLCARBAMATE (ESTER)</p>
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	<p>The substance is banned for use. Extremely toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
Bibliographical references		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 63, , 1986		

Product Name **Mirex**

C.A.S. number **2385-85-5**

Scientific and common names, and synonyms

CYCLOPENTADIENE,HEXACHLORO-,DIMER
 CROTONAMIDE, 3-HYDROXY-N-METHYL-, DIMETHYLPHOSPHATE, (E)
 CROTONAMIDE, 3-HYDROXY-N-METHYL-DIMETHYLPHOSPHATE, CIS
 DODECACHLOROOCCTAHYDRO-1,3,4-METHENO-2H-CYCLOBUTA(C,D)PENTLENE
 DODECACHLOROPENTACYCLO(3,3,2,0(SUP2,6),0(SUP 2,6),0(SUP 3,9)0(SUP 7, 10))DECANE
 DODECACHLOROPENTACYCLODECANE
 DECANE,PERCHLOROPENTACYCLO
 HEXACHLOROCYCLOPENTADIENE DIMER
 PERCHLORO PENTACYCLODECANE
 PERCHLORODIHOMOCUBANE
 PERCHLOROPENTACYCLO(5.2.1.0(SUP 2,6),0(SUP 3,9).0(SUP 5,8)DECANE
 1,3,4-METHENO-1H-CYCLOBUTA[CD]PENTALENE, 1,1A,2,2,3,3A,4,5,5,5A,5B,6-DODECACHLOROOCCTAHYDRO-
 1,1A,2,2,3,3A,4,5,5,5A,5B,6-DODECACHLOROOCCTAHYDRO-1,3,4-METHENO-1H- CYCLOBUTA(CD)PENTALENE
 1,3-CYCLOPENTADIENE, 1,2,3,4,5,5-HEXACHLORO-, DIMER
 1,3,4-METHENO-1H-CYCLOBUTA(CD)PENTALENE,DODECACHLOROOCCTAHYDRO
 1,3,4-METHENO-1H-CYCLOBUTA(CD)PENTALENE,1,1A,2,2,3,3A,4,5,5,5A,5B,6- DODECACHLOROOCCTAHYDRO

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	Severely restricted. For control of leaf cutting ants and by localized application in ant-bait formulations only. Bioaccumulation and persistence in the soil. Potential hazard to the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK		Currently not approved and future approval is not intended. Not formulated or manufactured in the country.
ECU	1985	Registration is prohibited because it causes environmental pollution, produces toxic effects and has been banned in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
KWT	1 Jan 1980	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MEX	1982	Prohibited agricultural pesticide. Reasons for the control action: protection of health and the environment (because it accumulates in food and has a carcinogenic effect in humans). (Reference: (MEXMP) Manual de Plaguicidas Autorizados para, , ,)
NZL	1 Dec 1990	Withdrawal of all remaining products, registrations cancelled. No uses allowed. Environmental reasons. (Reference: (NZLPBM) Pesticides Board Minutes, , , 1988)
THA	2 May 1995	Pesticides for household and public health use containing mirex have been banned for importation, exportation, manufacture and handling. Mirex is considered to be a probable human carcinogen. It can cross the placenta and enter the fetus. Hence, its possible effects are considered to be too dangerous to justify its use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1977	All registered products containing mirex were effectively cancelled on December 1, 1977 by the Environmental Protection Agency. All existing stocks of mirex within the continental U.S. were not to be sold, distributed or used after June 30, 1978. (Reference: (FEREAC) Federal Register, 41, 56694, 1976)
USA	1 Jun 1978	The substance has been voluntarily withdrawn by the registrant. In March 1971, EPA

Legislative or regulation action

Product Name	Mirex
C.A.S. number	2385-85-5
Legislative or regulatory action	
Country	Effective Date
Description of action taken	Grounds for decision
	<p>proposed to cancel the registration of products containing mirex. Rather than accept the cancellation, one of the registrants requested that the matter be referred to a Scientific Advisory Committee, which advised that registration of mirex products be continued with labelling restrictions to minimize environmental contamination. In 1973, EPA announced its intention to hold hearings on the use of mirex. When a negotiated settlement could not be reached, the sole registrant transferred its registrations to the Mississippi Auth. for the Control of Fire Ants in 1976. The registrations were then phased out by June 1978. No remaining uses allowed. Mirex is considered to be a probable human carcinogen, it can cross the placenta and enter the fetus, and was found in one out of five human tissue samples from areas of frequent use, and in mothers' milk in the southern portion of the US. It is also acutely toxic to aquatic life, particularly juvenile shrimp and crabs and its toxic persistence can lead to biomagnification in the food chain.</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
VEN	1983
	<p>The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health.</p> <p>(Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)</p>
Bibliographical references	
IARC MONOGRAPH, 5, 203, 1974	
IARC MONOGRAPH, 20, 283, 1979	
IPCS ENVIRONMENTAL HEALTH CRITERIA, 44, , 1984	
IPCS HEALTH AND SAFETY GUIDE, 39, , 1990	
Product Name	Monocrotophos *
C.A.S. number	6923-22-4
Scientific and common names, and synonyms	
APADRIN	
AZODRIN	
AZODRIN INSECTICIDE	
BILOBORN	
BILOBRAN	
CIBA 1414	
CROTONAMIDE, 3-HYDROXY-N-METHYL-, DIMETHYLPHOSPHATE, CLS-	
CROTONAMIDE, 3-HYDROXY-N-METHYL-, DIMETHYLPHOSPHATE, (E)-	
CRISODIN	
C 1414	
CLS-1-METHYL-2-METHYL CARBAMOYL VINYL PHOSPHATE	
CRISODRIN	
DIMETHYL 1-METHYL-2-(METHYLCARBAMOYL)VINYL PHOSPHATE, CLS	
DIMETHYL PHOSPHATE ESTER OF 3-HYDROXY-N-METHYL-CLS-CROTONAMIDE	
DIMETHYL PHOSPHATE ESTER WITH (E)-3-HYDROXY-N-METHYLCROTONAMIDE	

Legislative or regulation action

Product Name **Monocrotophos ***

C.A.S. number **6923-22-4**

Scientific and common names, and synonyms

DIMETHYL PHOSPHATE OF 3-HYDROXY-N-METHYL-CLS-CROTONAMINE
 DIMETHYL (E)-1-METHYL-2-(METHYLCARBAMOYL)VINYL PHOSPHATE (IUPAC)
 ENT 27,129
 HAZODRIN
 MONOCROTOPHOS (ACGIH)
 MONOKROTOFOSZ (HUNGARIAN)
 MONOCIL 40
 MONOCRON
 NUVACRON
 O,O-DIMETHYL-O-(1-METHYL-2-N-METHYL-CARBAMOYL)-VINYL-PHOSPHAT (GERMAN)
 O,O-DIMETHYL-O-(2-N-METHYLCARBAMOYL-1-METHYL)-VINYL-PHOSPHAT (GERMAN)
 O,O-DIMETHYL-O-(2-N-METHYLCARBAMOYL-1-METHYL-VINYL) PHOSPHATE
 O,O-DIMETHYL-O-(2-N-METHYLCARBAMOYL-1-METHYL-VINYL)-FOSFAAT (DUTCH)
 O,O-DIMETIL-O-(2-N-METILCARBAMOIL-1-METIL-VINIL)-FOSFATO (ITALIAN)
 PHOSPHORIC ACID, DIMETHYL 1-METHYL-3-(METHYLAMINO)-3-OXO-1-PROPENYL ESTER, (E)-
 PLANTDRIN
 PHOSPHORIC ACID, DIMETHYL ESTER, ESTER WITH CLS-3-HYDROXY-N- METHYLCROTONAMIDE
 PHOSPHATE DE DIMETHYLE ET DE 2-METHYLCARBAMOYL 1-METHYL VINYLE (FRENCH)
 PHOSPHORIC ACID, DIMETHYL 1-METHYL-3-(METHYLAMINO)-3-OXO-1-PROPENYLESTER, (E)-
 PILLARDRIN
 SD 9129
 SHELL SD 9129
 SUSVIN
 ULVAIR
 (E)-DIMETHYL 1-METHYL-3-(METHYLAMINO)-3-OXO-1-PROPENYL PHOSPHATE
 3-HYDROXY-N-METHYLCROTONAMIDE DIMETHYL PHOSPHATE
 3-HYDROXY-N-METHYL-CLS-CROTONAMIDE DIMETHYL PHOSPHATE
 3-(DIMETHOXYPHOSPHINYLOXY)N-METHYL-CLS-CROTONAMIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS	9 Dec 1999	All use of the soluble concentrate Monocrotophos is now prohibited. Restriction based on concerns for human health and environment. Monocrotophos posed a high level of occupational exposure risk. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
BRA	04 Jan 2002	The chemical is severely restricted. Agricultural use allowed under conditions established by Federal Body of Environment, Agriculture and Health. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CHN	5 Jun 1982	The following uses of monocrotophos are prohibited: 1) On vegetables, tea, fruit trees and herbs; 2) Against insects harmful to health of humans and animals; 3) For rat control except when formulated as a rodenticide. These measures were taken because monocrotophos is a highly toxic substance and its use is harmful to human health. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), No4,)
HUN	1996	Monocrotophos is banned for all agricultural use. No uses remain. Highly toxic to humans, high risk to workers. Risk to fish, aquatic organisms, birds and bees.

Legislative or regulation action

Product Name		Monocrotophos *
C.A.S. number		6923-22-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
KOR	1 Feb 1981	Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited to rice plant. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jun 1994	Banned for use as a pesticide. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIY		Monocrotophos is banned. No remaining uses allowed. Control action is based on the information received from FAO. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LKA	1 May 1995	Monocrotophos is severely restricted. Not allowed to import, formulate or repack for retail sale. A limited quantity is allowed only to be used on coconut insect pest through a purchase permit scheme carried out by the coconut Development Officers in the respective areas. Action was taken due to increased incidence of suicidal attempts and high risk of occupational exposure under local socio-economic and climatic conditions. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS		Registration for use only on coconut and oil palm by means of trunk injection. The substance is highly toxic and hazardous for use under local conditions. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	01 Jan 2002	The chemical is severely restricted. All formulations > 600 gr/l concentration of active ingredient are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
SUN		Monocrotophos is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
USA	30 Jul 1989	The substance has been voluntarily withdrawn by the registrant, effective July 30, 1989. This represented the deadline for the manufacture, sale and distribution of the product by the registrant. No remaining uses allowed. EPA's concerns with respect to monocrotophos primarily involved effects of exposure to non-target species, notably birds. Monocrotophos is very highly toxic to birds exposed on an acute oral and subacute dietary basis. Monocrotophos was determined to be the cause of mortality or was strongly implicated in a large number of bird kill incidents affecting a wide variety of avian species. Monocrotophos posed serious risks to birds even when application was performed in a manner consistent with label directions. Monocrotophos is also highly toxic to freshwater invertebrates. The chemical is an organophosphate and is determined to be a potent cholinesterase inhibitor. Therefore, applicators and workers are potentially at risk for acutely toxic effects. In laboratory studies on rats and rabbits, monocrotophos was found to induce maternal toxicity and developmentally toxic effects (runting), but no major teratological abnormalities, at low doses. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 111, 78, 1991
 FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART1), 487, 1992
 FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART2), 287, 1992
 FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 100, 1993
 IPCS HEALTH AND SAFETY GUIDE, 80, , 1993

Legislative or regulation action

Product Name	Monocrotophos *	
C.A.S. number	6923-22-4	
	FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 134, 1994 FAO PLANT PRODUCTION & PROTECTION PAPER, 131/2, 863, 1994 FAO PLANT PRODUCTION & PROTECTION PAPER, 133, 156, 1995	

Product Name	Monolinuron	
C.A.S. number	1746-81-2	
Scientific and common names, and synonyms	ARRESIN AREZINE AREZIN ARESIN AFESIN HOE 2747 N-(4-CHLOROPHENYL)-N'-METHOXY-N-METHYLUREA PREMALIN UREA, N'(4-CHLOROPHENYL)-N-METHOXY-N-METHYL- 3-(4-CHLORPHENYL)-1-METHOXY-1-METHYLHARNSTOFF (GERMAN) 3-(4-CHLOROPHENYL)-1-METHOXY-1-METHYLUREA	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
SUN	Jan 1988	Monolinuron is prohibited for use as a pesticide because it is carcinogenic. (Reference: (OSUMH) Order of the USSR Ministry of Health, 123-12, 204-(23), 26 Feb 1986)

Product Name	Monuron	
C.A.S. number	150-68-5	
Scientific and common names, and synonyms	CHLORFENIDIM N-(P-CHLOROPHENYL)-N',N'-DIMETHYLUREA N,N-DIMETHYL-N'-(4-CHLOROPHENYL)UREA N'-(4-CHLOROPHENYL)-N,N-DIMETHYLUREA UREA, N'-(4-CHLOROPHENYL)-N,N-DIMETHYL- UREA, 3-(P-CHLOROPHENYL)-1,1-DIMETHYL 1-(P-CHLOROPHENYL)-3,3-DIMETHYLUREA 1,1-DIMETHYL-3-(P-CHLOROPHENYL)UREA 3-(4-CHLOROPHENYL)-1,1-DIMETHYL UREA	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
SWE	31 Dec 1974	This substance has been withdrawn from the market after mutual discussions between National Products Control Board and the importers because of its mutagenic and carcinogenic effect on experimental animals. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 31 Dec 1974)
Bibliographical references		
IARC MONOGRAPH, 12, 167, 1976		

Product Name **Morfamquat**

C.A.S. number **4636-83-3**

Scientific and common names, and synonyms

MORPHOXONE
MORPHANQUAT DICHLORIDE
MORFOXONE
PYRIDINIUM, 1,1'-BIS(3,5-DIMETHYLMORPHOLINOCARBONYLMETHYL)-4,4'-DI-, DICHLORIDE
PYRIDINIUM, 1,1'-BIS(3,5-DIMETHYLMORPHOLINOCARBONYLMETHYL)-4,4'-DI, DICHLORIDE
1,1'-BIS(3,5-DIMETHYLMORPHOLINOCARBONYLMETHYL)-4,4'-BIPYRIDILIUM DICHLORIDE
1,1'-BIS(2-(3,5-DIMETHYL-4-MORPHOLINYL)-2-OXOETHYL)-4,4'-BIPYRIDINIUM DICHLORIDE
4,4'-BIPYRIDINIUM, 1,1'-BIS[2-(3,5-DIMETHYL-4-MORPHOLINYL)-2-OXOETHYL]-, DICHLORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. The substance has shown to be seriously toxic to the liver and kidney in animal studies. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
DEU	1 Apr 1986	Prohibited for use as a plant protectant. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)

Product Name **Mustard Oil**

C.A.S. number **57-06-7**

Scientific and common names, and synonyms

1-PROPENE, 3-ISOTHIOCYANATO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	Mustard oil or allyl isothiocyanate has been banned since 01.01.88 in all application where food contact is possible. All uses banned as of 20.02.92. Beyond its high acute toxicity (oral-rat LD50: 112 mg/kg, poison by ingestion, skin contact, intravenous, subcutaneous and intraperitoneal routes), the substance is a suspected carcinogen and has caused experimental teratogenic and reproductive effects. Mutation data reported. It may cause dermatitis and is an eye irritant and allergen. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

Product Name **Niclosamide**

C.A.S. number **50-65-7**

Scientific and common names, and synonyms

BENZAMIDE, 5-CHLORO-N-(2-CHLORO-4-NITROPHENYL)-2-HYDROXY-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ANG	1 Aug 1990	Banned for use. No remaining uses allowed. The product Baymseid is banned for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Nicotine**

C.A.S. number **54-11-5**

Scientific and common names, and synonyms

L-3-(1-METHYL-2-PYRROLIDYL)PYRIDINE
PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-, (S)-
1-METHYL-2-(3-PYRROYL)PYRROLIDINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS	1 Apr 1976	Withdrawn by industry. No remaining uses allowed. The control action applies to nicotine sulphate. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DEU	1 Jan 1981	It is prohibited to be applied against parasites on lactating horses, cows, sheep and goats which are used for milk production. (Reference: (BGBL) Bundesgesetzblatt, IS.1136, , 1981)
HUN	1979	The product was withdrawn. It was found to be replaceable by more efficient and less toxic chemicals. (Reference: (HUNODW) Official Document of Withdrawal, , , 1979)
NZL	1 Sep 1975	Voluntary withdrawal of all products, registration cancelled. No uses allowed. (Applies to Nicotine Sulphate). Human health reasons (acute toxicity). (Reference: (NZLACB) Agricultural Chemicals Board Minutes, , , 1975)

Product Name **Nicotine sulphate**

C.A.S. number **65-30-5**

Scientific and common names, and synonyms

NICOTINE, SULFATE (2:1)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NZL		Voluntarily withdrawn from the market.
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SUN	Aug 1988	Nicotine sulfate is prohibited for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1978)

Product Name **Nitazin**

C.A.S. number **8070-76-6**

Scientific and common names, and synonyms

ATRAZINE-RAMROD MIX.
ATRAZINE-PROPACHLOR MIXTURE
ATRAZINE-PROPACHLOR MIXT.
ATRAZINE MIXTURE WITH PROPACHLOR
GESAPRIM-RAMROD MIXT.
NITAZINE
PROPACHLOR-ATRAZINE MIXT.
RAMROD-ATRAZINE MIXT.
RADAZIN SPECIAL

Legislative or regulation action

Product Name Nitazin
C.A.S. number 8070-76-6
Scientific and common names, and synonyms
 SATECID AT

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN		Nitazin is prohibited for use as a pesticide because both ingredients (ramrod and atrazine) are mutagenic. (Applies to nitazin - a mixture containing 54.8% ramrod and 15.2% atrazine). (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 31 Mar 1986)

Product Name Nitrodyrin
C.A.S. number 1929-82-4
Scientific and common names, and synonyms
 PYRIDINE, 2-CHLORO-6-(TRICHLOROMETHYL)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. Suspected mutagenic potential and its reproductive effects in experimental animals. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , , 1992)

Product Name Nitrofen
C.A.S. number 1836-75-5
Scientific and common names, and synonyms
 BENZENE, 2,4-DICHLORO-1-(4-NITROPHENOXY)-
 ETHER, 2,4-DICHLOROPHENYL P-NITROPHENYL
 NITROFENE (FRA)
 NITRO FAR
 2,4-DICHLOROPHENYL P-NITROPHENYL ETHER
 2,4-DICHLOROPHENYL 4-NITROPHENYL ETHER
 2,4-DICHLORO-4'-NITRODIPHENYL ETHER
 2,4-DICHLORO-1-(4-NITROPHENOXY)BENZENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1988	Member States shall ensure that plant protection products containing this active substance alone or in combination with other active substances listed may neither be placed on the market nor used. (Council Directive 79/117/EEC - OJEC L33,36,1979 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L273, 40, 1987)
@EC	1 Jan 1988	The placing on the market and the use of plant protection products containing nitrofen as an active ingredient is prohibited. No remaining uses are allowed. The use of nitrofen as a plant protection product, in particular as a herbicide, is likely to give rise to harmful effects on human and animal health. Nitrofen has been classified by the EC as a category 2 carcinogen (probably carcinogenic to humans) and as a category 2 reproductive toxin (may probably cause developmental toxicity to humans). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name		Nitrofen
C.A.S. number		1836-75-5
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	01 Jan 1988	It is prohibited to place on the market or use plant protection products containing nitrofen. The authorizations for plant protection products containing nitrofen had to be withdrawn from the 1st of January 1988 according to Council Directive 87/181/EEC of 9 March 1987. There is sufficient evidence to provide a strong presumption that human exposure to nitrofen may result in the development of cancer. Hazard to non-target organisms. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
AUS	1 Mar 1982	Withdrawn by industry. No uses allowed. Teratogenic in rats. Carcinogenic in mice. (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, , , 1979)
AUT	20 Feb 1992	All uses banned. Teratogenic and carcinogenic effects on experimental animals. Impurities are suspected to be mutagenic. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , , 1992)
CAN	1 Jan 1980	Discontinued by the registrant since 1980. Teratology concerns. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CYP	21 Oct 1981	Banned as a pesticide. Registration withdrawn by the Pest Control Products Board. No remaining uses allowed. Mutagenic, carcinogenic and teratogenic effects. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1981)
DEU	1 Sep 1988	Totally banned for use as plant protection product. Carcinogenic and teratogenic effects in animal experiments; health risk to the operator; compliance with EEC regulations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK		Withdrawn from the market and not manufactured in Denmark.
FIN	1980	Withdrawn from the market by the importer at the recommendation of the authorities. This recommendation was made on the basis of the mutagenic, carcinogenic and teratogenic hazards associated with use.
GBR	1981	Use as a herbicide in agriculture and horticulture withdrawn because of evidence of mutagenic, carcinogenic and teratogenic hazard. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 1615, , , 1981)
IND		Restricted for use under expert supervision.
ISR	1969	Certain restrictions apply for women employed in spraying operations involving the compound, due to its suspected teratogenicity.
JPN	Jun 1982	Voluntarily withdrawn by the manufacturers.
KOR	1 Apr 1982	Registration withdrawn because of its potential sterilization effect on humans. Risk of sterilization effect on humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	1 Dec 1982	It is prohibited to sell, stock, store or use all pesticides containing nitrofen as an active ingredient. Nitrofen was prohibited because it was shown to be carcinogenic in test animals. The ministers responsible for the authorization of pesticides in the Netherlands in 1982 decided not to extend the registration for herbicidal use and application of all pesticide formulations containing nitrofen as active ingredient. (Reference: (NLDDC) Ministerial Order Decree of the Ministry of Agriculture and Fisheries, , , 1982)
NOR	Jan 1980	Registration withdrawn due to carcinogenic effects in rats and mice in high dosages.
NZL	1 Oct 1987	Voluntary withdrawal of all products, registration cancelled. No uses allowed. Human health reasons (teratogenicity, potential carcinogen).

Legislative or regulation action

Product Name	Nitrofen	
C.A.S. number	1836-75-5	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (NZLPBM) Pesticides Board Minutes, , , 1987)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PHL		Banned for use and/or sale.
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN	Aug 1988	Nitrofen is prohibited for use as a pesticide because it is embryotoxic and teratogenic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)
SWE	9 Feb 1979	Banned because of its teratogenic and carcinogenic effects on experimental animals. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 09 Feb 1979)
THA	2 May 1995	All use categories have been banned. Very low ADI and very risky for users for application. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1980	The manufacturer has agreed with the Environmental Protection Agency to stop selling and to recall from its dealers, distributors and users all existing stocks. Evidence from a study supported by the company, as well as other studies, shows the weed killer causes birth defects, mutagenic damage and cancer in test animals. (Reference: (FEREAC) Federal Register, 49, 2151, 1984)
USA	1 Feb 1990	The substance was voluntarily withdrawn (marketing in the US was suspended) by the sole manufacturer in August 1980. In 1983, while EPA was conducting a special investigation into the risks and benefits of nitrofen, the registrant requested voluntary cancellation of all products, as well as revocation of all tolerances. The cancellation became effective in February 1990. No remaining uses allowed. Test on laboratory rats indicate that nitrofen is a liver carcinogen. It also may present an unacceptable teratogenic risk to applicators, field workers, and/or consumers. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Bibliographical references		
IARC MONOGRAPH, 30, 271, 1983 FAO PLANT PRODUCTION & PROTECTION PAPER, 56, , 1983 FAO PLANT PRODUCTION & PROTECTION PAPER, 61, , 1983		
Product Name	Octachlorodipropyl ether	
C.A.S. number	127-90-2	
Scientific and common names, and synonyms		
ETHER, BIS(2,3,3,3-TETRACHLOROPROPYL)		
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
BEL		No longer authorized because chronic toxicity data is insufficient.
Product Name	Omethoate	
C.A.S. number	1113-02-6	

Legislative or regulation action

Product Name **Omethoate**

C.A.S. number **1113-02-6**

Scientific and common names, and synonyms

DIMETOXON
 DIMETHOXON
 DIMETHOATE PO ISOLOGUE
 DIMETHOATE OXYGEN ANALOG
 DIMETHOATE OXON
 DIMETHOATE O-ANALOG
 O,O-DIMETHYL S-(2-(METHYLAMINO)-2-OXOETHYL) ESTER PHOSPHOROTHIOIC ACID
 O,O-DIMETHYL S-((METHYLCARBAMOYL)METHYL) PHOSPHOROTHIOATE
 O,O-DIMETHYL ESTER, S-ESTER WITH 2-MERCAPTO-N-METHYLACETAMIDE PHOSPHOR OTHIOIC ACID
 PHOSPHOROTHIOIC ACID, O,O-DIMETHYL S-[2-(METHYLAMINO)-2-OXOETHYL] ESTER
 PO-DIMETHOATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHN	5 Jun 1982	The following uses of omethoate are prohibited: 1) on vegetables, tea, fruit trees and herbs; 2) against insects harmful to health of humans and animals; 3) for rat control except when formulated as a rodenticide. These measures were taken because omethoate is a highly toxic substance and its use is harmful to human health. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), No4,)
KOR	25 Feb 1981	Classified as an "highly hazardous" and "restricted use" pesticide. Due to high toxicity to honey bee, the use of this product is prohibited during the blooming periods. The use of this product is strictly prohibited to rice plant. Pre-harvest intervals were established for the safe use of this product. High acute toxicity and high toxicity to honey bee. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)

Bibliographical references

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 FAO PLANT PRODUCTION & PROTECTION PAPER, 72/2, , 1985
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 78, , 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 78, 245, 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 84, 32, 1987
 FAO PLANT PRODUCTION & PROTECTION PAPER, 86/1, 105, 1987
 FAO PLANT PRODUCTION & PROTECTION PAPER, 92, 29, 1988
 FAO PLANT PRODUCTION & PROTECTION PAPER, 93/1, 137, 1988
 FAO PLANT PRODUCTION & PROTECTION PAPER, 102, 47, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 283, 1990

Product Name **Oxyfluorfen**

C.A.S. number **42874-03-3**

Scientific and common names, and synonyms

BENZENE, 2-CHLORO-1-(3-ETHOXY-4-NITROPHENOXY)-4-(TRIFLUOROMETHYL)-

Legislative or regulation action

Product Name **Oxyfluorfen**

C.A.S. number **42874-03-3**

Scientific and common names, and synonyms

ETHER, 2-CHLORO-ALPHA,ALPHA,ALPHA-TRIFLUORO-P-TOLYL-3-ETHOXY-4- NITROPHENYL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 Apr 1989	PCE (perchlorethylene) content of technical is restricted to less than 200ppm because of its potential carcinogenicity. Risk of carcinogenic effect on humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	Jul 1982	The perchloroethylene (PCE) contamination of oxyfluorfen products must not exceed 200 ppm for formulated product. PCE was found to be a liver carcinogen in concentrations exceeding 200 ppm in experimental mice. (Reference: (FEREAC) Federal Register, 49, 2151, 1984)

Product Name **Oxythioquinox**

C.A.S. number **2439-01-2**

Scientific and common names, and synonyms

6-METHYL-2-OXO-1,3-DITHIO(4,5-B)QUINOXALINE
6-METHYL-2,3-QUINOXALINEDITHIOL CYCLIC DITHIOCARBONATE
6-METHYL-2,3-QUINOXALINEDITHIOL CYCLIC CARBONATE
6-METHYL-1,3-DITHIOLO(4,5-B)QUINOXALIN-2-ONE
CHINOMETIONAT
CHINOMETHIONAT
CARBONIC ACID, DITHIO-, CYCLIC S,S-(6-METHYL-2,3-QUINOXALINEDIYL)ESTER
CARBONATO CICLICO DE 6-METIL-2,3-QUINOXALINDITIOL
DITIOCARBONATO CICLICO DE 6-METIL-2,3-QUINOXALINDITIOL
QUINOMETIONATO
QUINOMETHIONATE
1,3-DITHIOLO[4,5-B]QUINOXALIN-2-ONE, 6-METHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
IND	18 Jun 1976	Registration refused. Action taken due to lack of required data/information on bioefficacy and safety. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	25 Feb 1981	Due to high toxicity to honey bee, the use of this product is prohibited during the blooming periods. Pre-harvest intervals were established for the safe use of this product. High toxicity to honey bee. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

WHO TECHNICAL REPORT SERIES, 417, , 1969
WHO FOOD ADD., 69.35, , 1969
FAO PLANT PRODUCTION & PROTECTION PAPER, 62, , 1984

Product Name **Paraquat**

C.A.S. number **4685-14-7**

Scientific and common names, and synonyms

4,4'-BIPYRIDINIUM, 1,1'-DIMETHYL-

Legislative or regulation action

Product Name		Paraquat
C.A.S. number		4685-14-7
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
AUT	1 Jan 1993	All uses banned. The control action applies to all forms of paraquat, ie, parent cation and/or any possible formulation. Paraquat is banned because of its high acute toxicity, irreversible toxic effects (paraquat injures the lungs more than other organs - eg epithelial proliferation) and numerous fatal accidents. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
DEU	11 Aug 1993	Severely restricted for use as plant protection product. Use still allowed for treatment against: weeds and cover crops in maize before emergence and for treatment against weeds and cover crops in sugar beet before drilling, on the same area every fourth year; weeds in nursery seedbeds on the same area every fourth year at maximum; weeds in viticulture in the year of planting and up to the third year of stand. Extremely high persistence of paraquat in soil (estimated half life time approx. 17 years); limitation on areas of application - where alternative plant protection products are not available - was necessary to prevent accumulation of paraquat in soil; the action is based on a national review of scientific data. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	30 Aug 1986	The Pesticide Board decided 24.04.1985 that the import of pesticides containing pParaquat was to be banned immediately. The marketing of the pesticide already imported was allowed until 30.08.1986 but the labelling had to be changed within a month from the decision. Presently paraquat is totally banned for import, manufacture and use as a pesticide. Any other products containing paraquat as an active ingredient were and are not registered in Finland and thus the use and import of other formulations are not allowed. Paraquat is very toxic also in small doses and can cause death, because there is no effective method of nursing treatment available for cases of poisoning. Some of the symptoms may occur only some weeks after the exposure. In the decision it was also stated that the pesticide already in stock in Finland, at the time the decision was made, could be used, because there had not been any cases of occupational poisoning. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	9 Aug 1991	Banned for production, import, use and sale of both this substance and preparations containing it or its salt. Permitted in agricultural chemicals. Action taken due to high acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1985	The substance is banned for use. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. The need for paraquat is small in Slovenia, as well as its benefits. Slovenia has unfortunately one of the highest per capita suicide rates in Europe. The Commission on Poisons is concerned over the possible misuse of paraquat for suicides. Considering this and due to the fact that paraquat is a deadly toxic in small amounts and that there is no antidote, the Commission on Poisons passed an opinion that this chemical should be banned in Slovenia. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	31 Dec 1983	Banned for use as a pesticide. No remaining uses allowed. The substance is suspended because of its high acute toxicity, irreversible toxic effects and imminent risk of accidents. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
TGO	1 Jan 1991	Paraquat products must contain an emetic, a colorant and a stinking agent to be authorized. (Le paraquat doit contenir un émétique, un colorant, une substance puante.) Action taken because of high toxicity of product. (Toxicité élevée.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name	Paraquat(dichloride)
C.A.S. number	1910-42-5
Scientific and common names, and synonyms	BIPYRIDINIUM, 1,1'-DIMETHYL-4,4'-,DICHLORIDE N,N'-DIMETHYL-4,4'-DIPYRIDILIUM DICHLORIDE N,N'-DIMETHYL-4,4'-BIPYRIDILIUM DICHLORIDE N,N'-DIMETHYL-4,4'-BIPYRIDINIUM DICHLORIDE 1,1'-DIMETHYL-4,4'-DIPYRIDILIUM CHLORIDE 1,1'-DIMETHYL-4,4'-BIPYRIDINIUM DICHLORIDE 4,4'-BIPYRIDINIUM, 1,1'-DIMETHYL-, DICHLORIDE 4,4'-DIMETHYLDIPYRIDYL DICHLORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Jul 1995	<p>Paraquat is persistent in soil. In various studies, half-lives were assessed to be between 6 and 20 years. Paraquat is also very toxic to non-target organisms, and deaths have been documented among hare and rabbit which have eaten or walked on grass sprayed with paraquat. Calculations of risks demonstrate that even by normal use, paraquat is very dangerous for chaseable game.</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
FIN	30 Aug 1986	<p>Total ban for use as a pesticide due to the risk associated with high acute toxicity and wide use of the substance.</p> <p>(Reference: (FINPB) Decision of the Pesticide Board, , , 24 Apr 1985)</p>
HUN	30 Sep 1991	<p>Severely restricted for use as a pesticide. The only registered use, as liquid formulation, was cancelled. Registration of other formulations is under evaluation. No remaining uses are currently allowed. Accidental poisoning. The mortality rate was unacceptably high.</p> <p>(Reference: (HUNOJN) Official Journal, 2, 14, 1991)</p>
IDN	1 Feb 1990	<p>Severely restricted use under professional supervision. Paraquat dichloride is the only form of paraquat registered to the Minister of Agriculture and permitted for use. So far, no other forms of paraquat have ever been registered yet. Registration for new products containing paraquat dichloride is no longer accepted. Paraquat dichloride can only be used for certain estate crops by professional users possessing special permit from the Minister of Agriculture through the Pesticides Committee. The issuance of special permit is based upon recommendations given by the Provincial Representative Office of Ministry of Man Power and the Provincial Representative Office of Ministry of Health who have evaluated the users to be eligible for applying this chemical. May induce late symptoms to affected humans that is considered too late to cure.</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
ISR	1963	<p>Due to the compound's high acute mammalian toxicity, it is subject to special labeling requirements, and formulations are required to contain an emetic and a distinguishing color.</p>
KOR	30 Mar 1987	<p>Due to high acute mammalian toxicity, it is subject to special labelling requirement, and the formulations are required to contain an emetic, stenching agent and a distinguishing color. High acute mammalian toxicity.</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
NOR	1981	<p>The product has been voluntarily withdrawn from the market.</p>
NZL	1983	<p>Under the Toxic Substances Act, liquid preparations and solid preparations containing 5% or more of this product are restricted to commercial users and are labelled "dangerous poison". Other solid preparations are labelled "poison". Under the provisions of the Pesticides Regulations (1983) a "suitable" emetic and stenching agent must be added to this product.</p>
SUN	Aug 1988	<p>Paraquat dichloride is not approved for use as a pesticide because it is persistent,</p>

Legislative or regulation action

Product Name **Paraquat(dichloride)**

C.A.S. number **1910-42-5**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		causes fibrosis of the lungs and acute, lethal poisoning in humans. (Reference: (OSUMH) Order of the USSR Ministry of Health, 123-12, 1309..23, 23 Oct 1986)
SWE	31 Dec 1983	Banned because of its high acute toxicity and irreversible effects. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 31 Dec 1983)

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 IPCS ENVIRONMENTAL HEALTH CRITERIA, 39, , 1983
 FAO PLANT PRODUCTION & PROTECTION PAPER, 78/2, 117, 1986
 IPCS HEALTH AND SAFETY GUIDE, 51, , 1991

Product Name **Paraquat-bis (methyl sulfate)**

C.A.S. number **2074-50-2**

Scientific and common names, and synonyms

4,4'-BIPYRIDINIUM,1,1'-DIMETHYL-,BIS(METHYL SULFATE)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
HUN	1979	The product was withdrawn. It was found to be replaceable by more efficient and less toxic chemicals. (Reference: (HUNODW) Official Document of Withdrawal, , , 1979)

Product Name **Parathion ***

C.A.S. number **56-38-2**

Scientific and common names, and synonyms

DIETHYL 4-NITROPHENYL PHOSPHOROTHIONATE
 DIETHYL P-NITROPHENOL THIOPHOSPHATE
 DIETHYL P-NITROPHENYL PHOSPHOROTHIONATE
 DIETHYL P-NITROPHENYL THIONOPHOSPHATE
 DIETHYLPARATHION
 DNTP
 O,O-DIETHYL-O-(4-NITRO-FENIL)-MONOTIOFOSFATO (ITA)
 O,O-DIAETHYL-O-(4-NITRO-PHENYL)-MONOTHIOPHOSPHAT (DEU)
 O,O-DIETHYL O-(P-NITROPHENYL)PHOSPHOROTHIOATE
 O,O-DIETHYL O-(P-NITROPHENYL)THIONOPHOSPHATE
 O,O-DIETHYL O-4-NITROPHENYLTHIOPHOSPHATE
 O,O-DIETHYL-O-(4-NITRO-FENIL)-MONOTIOFOSFAAT (NLD)
 O,O-DIETHYL-O-(4-NITROPHENYL)PHOSPHOROTHIOATE
 O,O-DIETHYL-O-P-NITROFENYLESTERKYSSELIN THIOFOSFORECNE (CSK)
 O,O-DIETHYL O-4-NITROPHENYL PHOSPHOROTHIOATE
 O,O-DIETHYL O-4-NITROPHENYL PHOSPHOROTHIOATE (IUPAC), PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(4-NITROPHENYL) PHOSPHOROTHIOATE (cas)
 O,O-DIETHYL-O-P-NITROPHENYL THIOPHOSPHATE

Legislative or regulation action

Product Name **Parathion ***

C.A.S. number **56-38-2**

Scientific and common names, and synonyms

PHOSPHOROTHIOIC ACID O,O-DIETHYL O-(4-NITROPHENYL)ESTER
 PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(4-NITROPHENYL) ESTER
 P-NITRO-O-ESTER DE FENOL, CON FOSFOTIOATO DE O O-DIETILO
 PARATHION LIQUID (USA)
 PHOSPHOROTHIOIC ACID O,O-DIETHYL O-(P-NITROPHENYL)ESTER
 PHENOL, P-NITRO-, O-ESTER WITH O,O-DIETHYL PHOSPHOROTHIOATHE
 PHENOL P-NITRO- O-ESTER WITH O-DIETHYL PHOSPHOROTHIOATHE
 PARATION-ETILO
 PARATION LIQUIDO
 PARATHION-ETHYL
 THIOPHOSPHATE DE O,O-DIETHYLE ET DE O-(4-NITROPHENYLE) (FRA)
 THOPHOS
 TIOFHOS
 THIOPHOS

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	08 Jan 2002	It is prohibited to place on the market or use plant protection products containing parathion. The authorizations for plant protection products containing parathion had to be withdrawn within a period of six months from the date of adoption of Commission Decision 2001/520/EC. EU Member States may grant a period of grace for disposal, storage, placing on the market and use of existing stocks, no longer than 18 months from the date of adoption of Commission Decision 2001/520/EC of 9/07/2001 (i.e. until 8/01/03). Action was taken to protect operators applying plant protection products containing parathion. Final regulatory action was taken having regard to the fate and behaviour of the substance in the environment and its possible impact on non-target organisms. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
ANG		Parathion is banned for use. Parathion is banned because of its high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUS	11 Jun 1999	Parinthion was prohibited for all use as it is a cholinesterase inhibitor and the risk to workers was estimated to be unacceptable. Parathion is hazardous to sensitive freshwater macro-crustacea and bees. Spray drift from aerial application was identified as extremely hazardous to aquatic ecosystems and bees. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
BGR		Prohibited for use in agriculture.
BLZ	28 Dec 1985	The substance is banned for use. Extremely and acutely toxic; use not warranted. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
BRA	01 Apr 2002	The chemical is severely restricted. Use as wood preservative allowed under conditions set by Federal Body of Environment and Health. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CHN	5 Jun 1982	The following uses of parathion are prohibited: 1) on vegetables, tea, fruit trees and herbs; 2) against insects harmful to health of humans and animals; 3) for rat control except when formulated as a rodenticide. These measures were taken because parathion is a highly toxic substance and its use is harmful to human health. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), No4,)

Legislative or regulation action

Product Name		Parathion *
C.A.S. number		56-38-2
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
COL	30 Sep 1991	The substance is restricted for use. Only use on cotton is allowed. (Restringido su uso a algodón únicamente.) Aerial spraying on cotton still allowed. (Algodonero por via aerea.) Wrong utilization of the substance on tobacco, soya, potato and tomato cultures. (Mala utilizacion del producto en cultivos de tabaco, soya, papa y tomate.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK		Considered "severely restricted" by authorities, since approved uses are very specific.
ECU	1985	Registration is prohibited because it causes environmental pollution, produces toxic effects and has been banned in various countries. Applies to parathion diethyl. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
FIN	1976	Approved only in powder preparations for the control of harmful insects. (Reference: (FDMSA) Decision of the Ministry of Social Affairs and Health, , , 07 Sep 1976)
GBR	1 Apr 1982	Poisonous substance which, where they are non-medical poisons, are not to be sold except by a person lawfully conducting a retail pharmacy business or by a person whose name is entered in a local authority's list. (Reference: (GBRSI) Statutory Instruments, 217, 1, 1982)
HUN	1979	The product was withdrawn. It was found to be replaceable by more efficient and less toxic chemicals. (Reference: (HUNODW) Official Document of Withdrawal, , , 1979)
IDN		Prohibited for all uses. No remaining uses allowed. Extremely toxic to humans and warm blooded animals through inhalation, skin absorption and ingestion. Its toxicity is enhanced by metabolic oxidation to diethyl 4-nitrophenyl phosphate. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	31 Dec 1974	Banned. Action taken due to toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1971	Due to high acute mammalian toxicity, this compound is approved for use on the conditions that applicators obtain a special license for purchase and use and that sprayed areas must be at least 120 meters from the nearest inhabited or habitable building.
JPN	Jun 1971	Designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. No use has been designated by Cabinet Order.
KOR	25 Feb 1981	Classified as an "extremely hazardous" and "restricted use" pesticide. This product of emulsifiable concentrate type is available only to fruit trees. Preharvest intervals were established for the safe use of this product. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	11 Jun 1986	Sale and use prohibited within the country except for the production of agrochemicals. Action taken because the substance is harmful to human health and to the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1980	Banned for use as a pesticide. No remaining uses allowed. Health and environmental reasons. US-EPA-738-R-94-008
LKA	19 Nov 1984	Banned for use as a pesticide. No remaining uses allowed. Fatal and non fatal poisoning of farmers. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1984)
NOR	1983	Re-classified from very toxic to extremely toxic. Allowed to be sold to and used by authorized persons only.
NZL	1 Nov 1987	Voluntary withdrawal of all products, registrations cancelled. No uses allowed. Human

Legislative or regulation action

Product Name	Parathion *	
C.A.S. number	56-38-2	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
		health reasons (acute toxicity). (Reference: (NZLPBM) Pesticides Board Minutes, , , 1987)
PAN	01 Jan 2002	The chemical is severely restricted. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
PHL		Banned for use and/or sale.
PRT	1 Jan 1994	Banned. No remaining uses allowed. Action taken because of human health considerations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Parathion is prohibited for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 02 Feb 1972)
SWE	1 Jul 1971	Banned for use as a pesticide. No remaining uses allowed. The substance is suspended because of its high acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	All use categories have been banned. Extremely hazardous and very risky to users for application. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
TUR		Banned for sale and/or use due to health risks and environmental impact.
URT	1 Jan 1986	Total ban. Highly toxic chemicals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	10 May 1974	A lessee or owner may not permit farm fieldworkers, not wearing protective clothing, to enter a field treated with a pesticide containing this substance as an active ingredient for at least 48 hours after application. (Reference: (CFRUS) Code of Federal Regulations, 40(170), 116, 1981)
USA	4 Aug 1975	Certain uses of certain pesticide products containing the substance as an active ingredient are classified for restricted use. They are limited to use by or under the direct supervision of a certified applicator, and must be so labelled along with the words "restricted use pesticide" and a summary of the terms of restrictions. (Reference: (CFRUS) Code of Federal Regulations, 40(162.31), 55, 1981)
YUG		May not be used during efflorescence nor at times of prolonged drought.
Bibliographical references		
IARC MONOGRAPH, 30, 153, 1983		
FAO PLANT PRODUCTION & PROTECTION PAPER, 62, , 1984		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986		
FAO PLANT PRODUCTION & PROTECTION PAPER, 11, 80, 1991		
FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART1), 515, 1992		
IPCS HEALTH AND SAFETY GUIDE, 74, , 1992		
FAO PLANT PRODUCTION & PROTECTION PAPER, 133, 156, 1995		
Product Name	Parathion methyl *	
C.A.S. number	298-00-0	
Scientific and common names, and synonyms		
DIMETHYL PARATHION		
DIMETHYL P-NITROPHENYL MONOTHIOPHOSPHATE		

Product Name **Parathion methyl ***

C.A.S. number **298-00-0**

Scientific and common names, and synonyms

DIMETHYL P-NITROPHENYL THIOPHOSPHATE
 DIMETHYL-P-NITROPHENYL THIONOPHOSPHATE
 DIMETHYL-P-NITROPHENYL THIONPHOSPHATE
 DIMETILPARATION
 METHYL PARATHION
 METHYL PARATHION, LIQUID (USA)
 METHYLPARATION (CSK)
 O,O-DIMETHYL-O-(4-NITRO-PHENYL)-MONOTHIOPHOSPHAT (DEU)
 O,O-DIMETHYL O-(P-NITROPHENYL)THIONOPHOSPHATE
 O,O-DIMETHYL O-P-NITROFENYLESTER KYSELINY THIOPHOS (CSK)
 O,O-DYMETHYL O-4-NITROPHENYL PHOSPHOROTHIOATE
 O,O-DIMETHYL-O-(4-NITRO-FENYL)-MONOTHIOFOSFAAT (NLD)
 O,O-DIMETHYL-O-(4-NITROPHENYL)PHOSPHOROTHIOATE
 O,O-DIMETHYL-O-(P-NITROPHENYL)-THIONOPHOSPHAT (DEU)
 O,O-DIMETHYL-O-(P-NITROPHENYL)PHOSPHOROTHIOATE
 O,O-DIMETHYL O-P-NITROPHENYL THIOPHOSPHATE
 PHOSPHOROTHIOIC ACID, O,O-DIMETHYL O-(4-NITROPHENYL) ESTER
 PARATHION METHILICO (GTM)
 PARATHION-METILE (ITA)
 PARATION METILICO (MEX)
 PHENOL, P-NITRO-, O-ESTER WITH O,O-DIMETHYL PHOSPHOROTHIOATE
 PHOSPHOROTHIOIC ACID O,O-DIMETHYL O-(P-NITROPHENYL) ESTER
 P-NITROPHENYLDIMETHYL THIOPHOSPHATE
 P-NITROPHENYLDIMETHYLTHIONOPHOSPHATE
 THIOPHOSPHATE DE O,O-DIMETHYLE ET DE O-(4-NITROPHENYLE) (FRA)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	09 Sep 2003	The chemical is banned. It is prohibited to place on the market or use plant protection products containing parathion-methyl. (Commission Decision 2003/166/EC) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
BRA	08 Jan 1998	The chemical is severely restricted. Agricultural use under condition established by Federal Body of Environment, Agriculture and Health. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitay Surveillance Secretariat), , ,)
CDR	1 Jan 1993	Use restricted. (Usage limite.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHN	5 Jun 1982	The following uses of parathion-methyl are prohibited: 1) on vegetables, tea, fruit trees and herbs; 2) against insects harmful to health of humans and animals; 3) for rat control except when formulated as a rodenticide. These measures were taken because parathion-methyl is a highly toxic substance and its use is harmful to human health. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), No.4,)
COL	30 Sep 1991	The substance is restricted to use on cotton and rice only. (Restringido a cultivos de algodonero y arroz unicamente.) Use still allowed on cultures of cotton and rice. (Algodonero y arroz tecnificado.) Wrong use of the substance on cultures of tobacco, beans and soya. (Mala utilizacion del producto en los cultivos de tabaco, frijol y soya.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Parathion methyl ***

C.A.S. number **298-00-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ECU	1985	Registration is prohibited because it causes environmental pollution, produces toxic effects and has been banned in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
GAM	01 Jan 1995	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
HUN		May be used in agriculture only where its proper application is ensured by the presence of trained staff and protective equipment.
IDN		Prohibited for all uses. No remaining uses allowed. Extremely toxic to humans, mammalian and other animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JPN	Jun 1971	Designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. No use has been designated by Cabinet Order.
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it. Action taken due to high acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LKA	19 Nov 1984	Banned for use as a pesticide. No remaining uses allowed. Fatal and non fatal poisoning of farmers. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, 23, , 1984)
PAN	01 Jan 2002	The chemical is severely restricted. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 2,3, 4,6,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
URT	1 Jan 1986	Total ban Highly toxic chemicals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 30, 131, 1983
 FAO PLANT PRODUCTION & PROTECTION PAPER, 62, , 1984
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 11, 83, 1991
 FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART1), 573, 1992
 FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 70, 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 705, 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 135, 1994
 FAO PLANT PRODUCTION & PROTECTION PAPER, 131/2, 867, 1994
 FAO PLANT PRODUCTION & PROTECTION PAPER, 133, 162, 1995

Product Name **Pendimethalin**

C.A.S. number **40487-42-1**

Scientific and common names, and synonyms

BENZENAMINE, N-(1-ETHYLPROPYL)-3,4-DIMETHYL-2,6-DINITRO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name		Pendimethalin
C.A.S. number		40487-42-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1993	Severely restricted. Decision by the National Chemicals Inspectorate. Pendimethalin is persistent, has high aquatic toxicity and potential for bioaccumulation. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Pentachlorophenol *
C.A.S. number		87-86-5
Scientific and common names, and synonyms		
PHENOL, PENTACHLORO-		
PHENOL, PENTACHLORO		
PENTACHLOROFENOLO (ITA)		
PENTACHLORPHENOL (DEU)		
PENTACHLOROPHENATE		
PENTACHLOORFENOL (NLD)		
PCP		
2,3,4,5,6-PENTACHLOROFENOL		
2,3,4,5,6-PENTACHLOROPHENOL		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
ARM	1988	Pentachlorophenol is banned as a agricultural chemical - herbicide. Acute overexposure from wood treatment with PCP can adversely affect the liver, skin , blood, lungs and central nervous system. Highly toxic to fish, aquatic organisms, birds, and useful insects. Volatile and mobile in water causing extensive adverse effects to fish. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUT	6 Feb 1991	Pentachlorophenol and its salts are banned. Use is still allowed for scientific and analytical purposes. Pentachlorophenol and its salts are banned because of highly toxic impurities in commercial products (chlorinated dibenzo-p-dioxins(CDDs) and chlorinated dibenzofurans (CDFs) and formulation of highly toxic compounds at combustion. CDDs and CDFs have been shown carcinogenic effects in experimental animals. (Reference: (AUTFLG) Federal Law Gazette, 58, , 1991)
BRA	08 Jan 1998	The chemical is severely restricted due to its toxicity. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CHE	1 Sep 1988	Totally banned chemical: manufacture, supply, import and use of the substance and of products which contain the substance is prohibited. (applies to pentachlorophenol, its salts and pentachlorophenoxy compounds). Bioaccumulation, highly toxic impurities, formation of highly toxic substances on thermolysis. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
CHN	5 Jun 1982	Pentachlorophenol is severely restricted for production, sale and use as pesticide. Only use allowed is for wood conservation. Pentachlorophenol is highly toxic. Its use as a pesticide will produce severely harmful effects to human health. (Reference: (CHNRSU) Regulation on Safe Use of Pesticides, , ,)
DEU	1 May 1986	The control action applies to pentachlorophenol (CAS No. 87-86-5) and pentachlorobenzene (CAS No. 608-93-5). Totally banned for use as plant protection

Legislative or regulation action

Product Name		Pentachlorophenol *
C.A.S. number		87-86-5
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		product. Toxicological properties; impurities of polychlorinated dibenzo-p-dioxins, dibenzofuranes and hexachlorobenzene; persistence and tendency to accumulate. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK		Not registered as a pesticide. Classified as a toxic chemical and as such severely restricted.
ECU	1985	Registration and importation of the pesticide solely for industrial use. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
FIN	1985	Concentrated fungicide formulation voluntarily withdrawn from the market by the manufacturer.
GAM	17 Feb 1997	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
IDN	26 Jan 1980	Prohibited for all use. No remaining use allowed. Extremely toxic, may be fatal if swallowed or absorbed through skin, causes skin irritation, vapors will cause injury. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	17 May 1991	Banned. High toxicity to man, animals, aquatic organisms and presence of toxic impurities in commercial products. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it in excess of 1% or its salt. Its copper salt is permitted in agricultural chemicals. Action taken due to high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1975	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
NLD	10 Oct 1992	In the Netherlands a ban is in force for use as pesticide and a ban is in force for use as industrial chemical. High concentration of active substance, metabolites and contaminants in the environment. High toxicity for aquatic organisms. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	31 Dec 1991	All uses and products banned. In pesticides Board Minutes of 13 May 1992, agreement in principle to permit re-introduction in closed timber treatment systems at approved sites with specific conditions on disposal of waste. These conditions have not been met and therefore no products are registered, no use permitted and no imports allowed. Human health (acute toxicity) and environmental persistence. (Reference: (NZLPBM) Pesticides Board Minutes, , , 1990)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2,3, 4,6,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the

Legislative or regulation action

Product Name		Pentachlorophenol *
C.A.S. number		87-86-5
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
		Pentachlorophenol is prohibited for use as a pesticide because it is an irritant, readily absorbed through the skin and cases of workers being poisoned have been recorded. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
SWE	1 Jan 1978	Pentachlorophenol is banned for use as a pesticide. No remaining uses allowed. Suspended because of highly toxic impurities in commercial products and formation of highly toxic compounds at combustion. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	The action applies to pentachlorophenol and pentachlorophenat sodium. All use categories have been banned. Substance is very highly toxic to mammals and possibly carcinogenic to humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)
YUG		The technical product is imported and used for the formulation of a preparation containing 4% of pentachlorophenol and 1.5 or 2.4% of lindane. The preparations are exclusively used to treat timber logs at collection points in forests where wood is felled. The technical concentrate may not contain over 0.1 ppm of dioxin/TCDD.
Bibliographical references		
IARC MONOGRAPH, 20, 303, 1979		
IARC MONOGRAPH, SUPPL.4, 205, 1982		
IARC MONOGRAPH, SUPPL.4, 88, 1982		
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984		
IARC MONOGRAPH, 41, , 1986		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 71, , 1987		
IPCS HEALTH AND SAFETY GUIDE, 19, , 1989		
Product Name		Pentachlorophenoxyacetic acid
C.A.S. number		2877-14-7
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	The control action applies to pentachlorophenoxy acetic acid and its derivatives. All uses banned. Highly toxic impurities, high mobility in soils and therefore high potential for contamination of ground and drinking water. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

Product Name **Perthane**

C.A.S. number **72-56-0**

Scientific and common names, and synonyms

BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-ETHYL-
DIETHYL-DIPHENYL DICHLOROETHANE
DI(P-ETHYLPHENYL)DICHLOROETHANE
ETHYLAN
ETHANE, 2,2-BIS(P-ETHYLPHENYL)-1,1-DICHLORO-
P,P'-ETHYL DDD
1,1-DICHLORO-2,2-BIS(P-ETHYLPHENYLETHANE)
1,1-BIS(P-ETHYLPHENYL)-2,2-DICHLOROETHANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1 Sep 1986	Ethylan or Perthane is a totally banned chemical: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited. Long persistence, bioaccumulation. (Reference: (CHEOE) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)

Product Name **Phenarsazine chloride**

C.A.S. number **578-94-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		Voluntary cancellation, all uses. (Reference: (FEREAC) Federal Register, 42, 59776, 1977)

Product Name **Phenkaptan**

C.A.S. number **2275-14-1**

Scientific and common names, and synonyms

DITHIOPHOSPHATE DE O,O-DIETHYLE ET DE S(2,5-DICHLOROPHENYL) THIOMETHYLE (FRENCH)
ENT 25,585
FENKAPTON (DUTCH)
G 28029

Legislative or regulation action

Product Name **Phenkapton**

C.A.S. number **2275-14-1**

Scientific and common names, and synonyms

GEIGY 28029
 GEIGY G-28029
 METHANETHIOL, ((2,5-DICHLOROPHENYL)THIO)-,S-ESTER WITH O,O-DIETHYL PHOSPHORODITHIOATE
 NA 2783 (DOT)
 O,O-DIETHYL S-(2,5-DICHLOROPHENYLTHIOMETHYL) PHOSPHOROTHIOLOTHIONATE
 O,O-DIETHYL S-(2,5-DICHLOROPHENYLTHIOMETHYL) DITHIOPHOSPHATE
 O,O-DIETHYL S-(2,5-DICHLOROPHENYLTHIOMETHYL) PHOSPHORODITHIOATE
 O,O-DIETHYL-S-(2,5-DICHLOROPHENYLTHIOMETHYL) DITHIOPHOSPHORAN
 O,O-DIAETHYL-S((2,5-DICHLOR-PHENYL-THIO)-METHYL)-DITHIOPHOSPHAT (GERMAN)
 PHENATOL
 PHENCAPTON
 PHENCAPTON (DOT)
 PHENKAPTONE
 PHENUDIN
 PRZEDZIORKOFOS (POLISH)
 S-(2,5-DICHLOROPHENYLTHIOMETHYL) O,O-DIETHYL PHOSPHORODITHIOATE
 S-(2,5-DICHLOROPHENYLTHIOMETHYL) DIETHYL PHOSPHOROTHIOLOTHIONATE
 2,5-DICHLOROPHENYLTHIOMETHYL O,O-DIETHYL PHOSPHORODITHIOATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN		Phenkapton is prohibited for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1978)

Product Name **Phenyl mercuric oleate**

C.A.S. number **104-60-9**

Scientific and common names, and synonyms

MERCURY, (9-OCTADECENOATO-O)PHENYL-, (Z)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	1 Jul 1990	The substance was voluntarily withdrawn by the registrant in July 1990 with several restrictions applying for the distribution, sale, and use of existing stocks (labelling requirements). No remaining uses allowed. Exposure to mercury compounds can adversely affect the nervous system, kidneys, and at high levels of exposure the respiratory, cardiovascular, and gastrointestinal systems. EPA found the risks posed by exposure to mercury compounds to be of particular concern for children and applicators. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Phenylmercury acetate**

C.A.S. number **62-38-4**

Scientific and common names, and synonyms

ACETATE PHENYLMERCURIQUE (FRA)
 ACETATO DE FENILMERCURIO (II)
 ACETIC ACID PHENYLMERCURY DERIVATIVE

Legislative or regulation action

Product Name **Phenylmercury acetate**

C.A.S. number **62-38-4**

Scientific and common names, and synonyms

ACETOXYPHENYLMERCURY
 BENZENE,(ACETOXYMERCURI)
 FENYLRTUTNATY (CSK)
 FENYLMERCURIACETAT (CSK)
 MERCURY (II) ACETATE, PHENYL
 MERCURY (ACETATO-O)PHENYL
 MERCURY (ACETATO) PHENYL
 MERCURY, (ACETATO-O)PHENYL-
 MERCURY ACETOXYPHENYL
 MERCURYPHENYL ACETATE
 MERCURIPHENYL ACETATE
 PHENOMERCURIC ACETATE
 PHENYL MERCURIC ACETATE
 PHENYLMERCURIACETATE
 PMA
 (ACETATO)PHENYLMERCURY
 (ACETOXYMERCURI)BENZENE
 (ACETOXYMERCUR)BENZENE
 (ACETATO-O)PHENYL MERCURY

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	21 Dec 1971	Prohibited for use in cultivation, commerce, storage, and industrial processing of tobacco. (Reference: (ADISS) Argentinian Legislation, Disposición, 80, , 1971)
BGR		Used for treatment of seeds only.
BLZ	17 Sep 1988	The substance is banned for use. Mercury compound; environmental pollutant. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHN	17 Jun 1971	The import and production of phenylmercury acetate for agricultural use is prohibited. Phenylmercury acetate is highly toxic and persistent. Its use would represent a severe risk to the health of the community. It has therefore been banned by the Ministry of Public Health. (Reference: (CHNRE) Ministry of Public Health, No.1-(A), , 17 June 1971)
DNK		Restricted in accordance with EEC-Directive 79/117.
GBR	1 Jan 1981	Permitted for use as a liquid seed treatment on cereal and beet seed only. Uses of liquid seed dressings to treat other crops have been withdrawn because of the availability of suitable non-mercurial alternatives which are of much lower mammalian toxicity. The remaining uses will be withdrawn when possible (see also Directive 79/117/EEC). (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 1474, , 1980)
ISR	1974	Due to problems of environmental persistence, phenylmercury acetate is approved for use only after grafting (the ointment is applied only to the exposed parts of the graft of apple trees.).
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it. Action taken due to persistence of residue and toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	31 Dec 1992	Phenyl mercury acetate is banned for use as a pesticide. No remaining uses allowed. The action was taken because of toxicity for mammals, i.e. effects on CNS, and

Legislative or regulation action

Product Name **Phenylmercury acetate**

C.A.S. number **62-38-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NZL		problems arising from release of mercury to the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,) Voluntarily withdrawn as a pesticide.
POL		No longer used in agriculture and sanitary hygiene because of pollution and high toxicity. (Reference: (POLIP) Instytut Przemysłu Organicznego, , , 1987)
TUR		Banned for sale and/or use due to health risks and environmental impact.
USA	8 Oct 1993	The substance is banned for use. Use as algicides and slimicides in swimming pools and water cooling towers were cancelled in 1969, use on millet, rye, and sugarcane in Feb/March 1970, use as algicides, slimicides and for laundering purposes in August 1970, use on apples, cherries, peaches, sugarcane and strawberries in March 1971, and as of August 1978, all seed treatment uses were cancelled. By July 1991 both interior and exterior paint uses of PMA were cancelled. Remaining uses were cancelled in October 1993. No remaining uses allowed. Studies showed mercury vapor exposure to pose risks to the nervous system and the kidneys, and at high levels to the respiratory, cardiovascular, gastrointestinal systems. EPA found the use of mercury as a fungicide a particular risk to children and applicators. Mercury also bioaccumulates in aquatic environments. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

WHO TECHNICAL REPORT SERIES, 391, , 1968
WHO FOOD ADD., 68.30, , 1968

Product Name **Phenylmercury salicylate**

C.A.S. number **28086-13-7**

Scientific and common names, and synonyms

MERCURY, (2-HYDROXYBENZOATO-O1,O2)PHENYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
GBR	1 Jan 1972	Withdrawal of all fungicidal uses of phenylmercury salicylate in agriculture and horticulture (phenylmercury salicylate had previously been cleared for use as fungicidal aerosol for use on tomatoes and non-edible crops). Use withdrawn because of acute toxicity and risk of accumulation of mercury in treated crops. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Phorate**

C.A.S. number **298-02-2**

Scientific and common names, and synonyms

DITHIOPHOSPHATE DE O,O-DIETHYLE ET D'ETHYLTHIOMETHYLE (FRA)
METHANETHIOL (ETHYLTHIO)-, S-ESTER WITH O,O-DIETHYL PHOSPHORODITHIOATE
O,O-DIETHYL S-ETHYLTHIOMETHYL PHOSPHORODITHIOATE
O,O-DIETHYL-S-ETHYLTHIOMETHYL THIOTHIONOPHOSPHATE
O,O-DIETHYL-S-ETHYLTHIOMETHYL DITHIOPHOSPHONATE
O,O-DIETHYL-S-ETHYLMERCAPTOMETHYL DITHIOPHOSPHONATE
O,O-DIETHYL-S-(ETHYLTHIO-METHYL)-DITHIOFOSFAAT (NLD)

Legislative or regulation action

Product Name **Phorate**

C.A.S. number **298-02-2**

Scientific and common names, and synonyms

O,O-DIETHYL-S-(ETHYLTHIO)METHYL PHOSPHORODITHIOATE
O,O-DIAETHYL-S-(AETHYLTHIO-METHYL)-DITHIOPHOSPHAT (DEU)
O,O DIETHYL ETHYLTHIOMETHYL PHOSPHORODITHIOATE
PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[(ETHYLTHIO)METHYL] ESTER
PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-(ETHYLTHIO)METHYL ESTER
TIMET

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	Phorate is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
CHN	5 Jun 1982	The following uses of phorate are prohibited: 1) on vegetables, tea, fruit trees and herbs; 2) against insects harmful to health of humans and animals; 3) for rat control except when formulated as a rodenticide. Phorate emulsion is only permitted as a seed dressing and is strictly prohibited as a spraying agent. These measures were taken because phorate is a highly toxic substance and its use is harmful to human health. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), No.4,)
KWT	1 Jun 1993	Severely restricted. Remaining minor use is in granules, for soil treatment only. It is a minor part of previously allowed use. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SUN		Phorate is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Extremely hazardous and risk to workers in formulation plant and during application by spraying because of very high acute toxicity. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 62, , 1984
FAO PLANT PRODUCTION & PROTECTION PAPER, 72/2, , 1985
IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986
FAO PLANT PRODUCTION & PROTECTION PAPER, 102, 50, 1990
FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 315, 1990
FAO PLANT PRODUCTION & PROTECTION PAPER, 111, 84, 1991
FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART1), 585, 1992
FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 74, 1993
FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 751, 1993
FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 101, 1993

Legislative or regulation action

Product Name **Phorate****C.A.S. number** **298-02-2**FAO PLANT PRODUCTION & PROTECTION PAPER, 124, 743, 1993
FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 142, 1994**Product Name** **Phosacetim****C.A.S. number** **4104-14-7****Scientific and common names, and synonyms**O,O-BIS(P-CHLOROPHENYL)ACETIMIDOYLPHOSPHORAMIDOTHIOATE
O,O-BIS(A-CHLOROPHENYL)ACETIMIDOYLPHOSPHORAMIDOTHIOATE
PHOSPHORAMIDOTHIOIC ACID, (1-IMINOETHYL)-, O,O-BIS(4-CHLOROPHENYL) ESTER
PHOSPHORAMIDOTHIOIC ACID, ACETIMIDOYL-, O,O-BIS(P-CHLOROPHENYL) ESTER
PHOSPHORAMIDOTHIOIC ACID, ACETIMIDOYL-, O,O-BIS(A-CHLOROPHENYL) ESTER
PHOSAZETIM**Legislative or regulatory action**

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	The substance is banned for use. Extremely toxic; domestic uses not warranted. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PHL		Banned for use and/or sale.
SUN		Phosacetim is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Product Name **Phosmet****C.A.S. number** **732-11-6****Scientific and common names, and synonyms**APPA
DECEMTHION
DECEMTHION P-6
ENT 25,705
FTALOPHOS
IMIDAN
KEMOLATE
N-(MERCAPTOMETHYL)PHTHALIMIDE S-(O,O-DIMETHYL PHOSPHORODITHIOATE)
O,O-DIMETHYL S-PHTHALIMIDOMETHYL PHOSPHORODITHIOATE
O,O-DIMETHYL 5-(PHTHALIMIDOMETHYL)DITHIOPHOSPHATE
O,O-DIMETHYL S-(N-PHTHALIMIDOMETHYL) DITHIOPHOSPHATE
PHOSPHORODITHIOIC ACID, S-[(1,3-DIHYDRO-1,3-DIOXO-2H-ISOINDOL-2-YL)METHYL] O,O-DIMETHYL ESTER
PHOSPHORODITHIOIC ACID, S-[(1,3-DIHYDRO-1,3-DIOXO-ISOINDOL-2-YL)METHYL] O,O-DIMETHYL ESTER
PHTHALIMIDE, N-(MERCAPTOMETHYL)-, S-ESTER WITH O,O-DIEMTHLY PHOSPHORODITIOATE
PHTHALIMIDO O,O-DIEMTHYL PHOSPHORODITHIOATE
PHTHALIMIDOMETHYL O,O-DIEMTHYL PHOSPHORODITHIOATE
PHTHALOPHOS
PMP
PROLATE
PERCOLATE
R 150-4
SMIDAN**Legislative or regulation action**

Product Name **Phosmet**

C.A.S. number **732-11-6**

Scientific and common names, and synonyms

STAUFFER R 150-4

(O,O-DIMETHYL-PHTHALIMIDIOMETHYL-DITHIOPHOSPHATE)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 Feb 1981	Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited to rice plant. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Phosmet is severely restricted for use as a pesticide because it is teratogenic. Restricted to use on sugar beets and potatoes. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 92, 34, 1988

FAO PLANT PRODUCTION & PROTECTION PAPER, 93/1, 173, 1988

FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 154, 1994

Product Name **Phosphamidon ***

C.A.S. number **13171-21-6**

Scientific and common names, and synonyms

PHOSPHORIC ACID, 2-CHLORO-3-(DIETHYLAMINO)-1-METHYL-3-OXO-1-PROPENYL DIMETHYL ESTER

2-CHLORO-2-DIETHYLCARBAMOYL-1-METHYLVINYL DIMETHYL PHOSPHATE

2-CHLORO-2-DIETHYLCARBAMOYL-1-METHYLVINYL DIMETHYL PHOSPHATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	Phosphamidon is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
BRA	01 Apr 2002	The chemical is severely restricted. Trade and utilization conditions set by Federal Body of Environment, Agriculture and Health in order to protect human health. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CHN	5 Jun 1982	The following uses of phosphamidon are prohibited: 1) on vegetables, tea, fruit trees and herbs; 2) against insects harmful to health of humans and animals; 3) for rat control except when formulated as a rodenticide. These measures were taken because phosphamidon is a highly toxic substance and its use is harmful to human health. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), No4,)
JPN	Jun 1963	Designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. No use has been designated by Cabinet Order.
KOR	1 Feb 1981	Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited to rice plant. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jun 1993	Severely restricted for use as a pesticide. Remaining minor uses are as soil insecticide on trees only. Action was taken for health and environmental reasons.

Legislative or regulation action

Product Name **Phosphamidon ***

C.A.S. number **13171-21-6**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
LIY		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,) Phosphamidon is banned. No remaining uses allowed. Control action is based on the information received from FAO. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 2,3, 4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
THA	09 May 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Very high acute toxicity, extremely hazardous and risk to workers in formulation plant and during application by spraying. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986
FAO PLANT PRODUCTION & PROTECTION PAPER, 78/2, 169, 1986

Product Name **Phosphine**

C.A.S. number **7803-51-2**

Scientific and common names, and synonyms

PHOSPHINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	1976	Use restricted to specially authorized users with adequate equipment for the application of the product and in possession of ware-houses exclusively reserved to stocking toxic products.
DEU	1 Sep 1988	Severely restricted for use as plant protection product. Use still allowed for fumigation: in storerooms, silo bins, means and containers of transport and under gasproof tarpaulins against stored product pests; outside water catchment areas and spa protection areas: against the water vole (<i>Arvicola terrestris</i> L.), against the hamster (<i>Cricetus cricetus</i> L.) and the mole (<i>Talpa europea</i> L.), only with the consent of the authority in charge. Application is restricted to licensed personnel. High acute toxicity to man; high tendency to percolate into deeper soil layers; wildlife protection (protection of wildlife species). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	1946	The use of hydrogen phosphines as fumigants is allowed only for authorized users with the permission of the National Board of Health (Poison Decree 492/80).
PHL		The use of phosphine is prohibited except by certified fumigators. Adequate time for aeration is required after treatment before treated commodities are processed into food or feed.

Bibliographical references

WHO PESTICIDE RESIDUES SERIES, 1, , 1972
WHO TECHNICAL REPORT SERIES, 502, , 1972
IPCS ENVIRONMENTAL HEALTH CRITERIA, 73, , 1988
IPCS HEALTH AND SAFETY GUIDE, 28, , 1989

Legislative or regulation action

Product Name **Picloram**

C.A.S. number **1918-02-1**

Scientific and common names, and synonyms

PICOLINIC ACID, 4-AMINO-3,5,6-TRICHLORO-
2-PYRIDINECARBOXYLIC ACID, 4-AMINO-3,5,6-TRICHLORO-
3,5,6-TRICHLORO-4-AMINOPICOLINIC ACID
4-AMINO-3,5,6-TRICHLORO-2-PYRIDINECARBOXYLIC ACID
4-AMINO-3,5,6-TRICHLORO-2-PICOLINIC ACID

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	Restricted to bush control in crop areas except pastures. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
KOR	1 Jan 1990	Registration withdrawn because of its soil residue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	31 Dec 1984	This substance has been withdrawn from the market after mutual discussions between National Products Control Board and the importers because of its extremely persistent and has an environmental impact. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 31 Dec 1984)

Product Name **Polychlorinated biphenyls (PCBs) ***

C.A.S. number **1336-36-3**

Scientific and common names, and synonyms

POLYCHLORINATED BIPHENYLS (GENERIC)
PCBS
1,1'-BIPHENYL, CHLORO DERIVS.

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
USA	2 Jul 1979	The substance is severely restricted for use. Virtually all uses of PCBs are prohibited. The remaining uses are an extremely minor portion of those which were previously approved. The Toxic Substances Control Act bans the manufacture and import of PCBs after January 1, 1979, and any processing and distribution in commerce of PCBs after July 1, 1979, except in a totally enclosed manner. The ban applies to both use within the US and export from the US, except for certain equipment. (Implementation was postponed until after July 2, 1979) Use of waste oil containing any detectable concentration of PCBs as sealant, coating or dust control agent is prohibited. Prohibited uses include road oiling, general dust control, use as a pesticide or herbicide carrier and use as a rust preventive on pipes. EPA regulations exclude certain PCB products from the ban, generally those that have PCB concentrations of less than 50 ppm (excluded products listed in regulation). Non-totally enclosed PCB activities which are allowed are also listed. The remaining uses are an extremely minor portion of those which were previously allowed. The control action was based on a national review of scientific data. PCBs are toxic and persistent and have been shown to have oncogenic potential in animal studies. These chemicals also may cause reproductive effects, developmental toxicity, and oncogenicity in humans. Also, persons exposed to PCBs may develop chloracne. In the environment, PCBs are among the most stable chemicals known and decompose very slowly. They remain in the environment and are taken up and stored in

Legislative or regulation action

Product Name Polychlorinated biphenyls (PCBs) *

C.A.S. number 1336-36-3

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		the fatty tissues or organisms. Consequently, bioconcentration can occur within species, and biomagnification can occur through the transfer of PCBs up the food chain from phytoplankton to humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 7, 261, 1974
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 2, , 1976
 IARC MONOGRAPH, 18, 43, 1978
 IARC MONOGRAPH, SUPPL.4, 217, 1982
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 140, , 1992
 IPCS HEALTH AND SAFETY GUIDE, 68, , 1992

Product Name Polychlorinated triphenyls (PCTs) *

C.A.S. number 61788-33-8

Scientific and common names, and synonyms

TERPHENYL, CHLORINATED

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
USA		All use as an active or inactive ingredient is eliminated. (Reference: (PRNEN) Pesticide Registration Notice, 70-25(61), , 29 Oct 1970)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 2, , 1976
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 140, , 1992
 IPCS HEALTH AND SAFETY GUIDE, 68, , 1992

Product Name Potasan

C.A.S. number 299-45-6

Scientific and common names, and synonyms

7-HYDROXY-4-METHYLCOUMARIN, O,O-DIETHYL THIOPHOSPHORIC ACID ESTER
 7-HYDROXY-4-METHYLCOUMARIN, O-ESTER WITH O,O-DIETHYL PHOSPHOROTHIOATE
 BAYER E-838
 DIETHOXY THIOPHOSPHORIC ACID ESTER OF 7-HYDROXY-4-METHYL COUMARIN
 DIETHYL (4-METHYLBELLIFEXYL) THIONOPHOSPHATE
 DIETHYL METHYLCOUMARIN THIOPHOSPHATE
 E 838
 ENT 17,296
 FARBENFABRIKEN BAYER
 HYMECROMONE O,O-DIETHYL PHOSPHOROTHIOATE
 O,O-(4-METHYLBELLIFERONE) PHOSPHOROTHIOATE
 O,O-(4-METHYLCOUMARINYL-7) THIOPHOSPHATE

Legislative or regulation action

Product Name **Potasan**

C.A.S. number **299-45-6**

Scientific and common names, and synonyms

O,O-DIAETHYL-O-(4-METHYL-COUMARIN-7-YL)-MONOTHIOPHOSPHAT (GERMAN)
 O,O-DIETHYL O-(2-KETO-4-METHYL-7-ALPHA',BETA'-BENZO-ALPHA'-PYRANYL) THIOPHOSPHATE
 O,O-DIETHYL O-(4-METHYL-7-COUMARINYL) PHOSPHOROTHIOATE
 O,O-DIETHYL O-(4-METHYL-7-COUMARINYL) THIONOPHOSPHATE
 O,O-DIETHYL O-(4-METHYLBELLIFERONE) ESTER OF THIOSPHOSPHORIC ACID
 O,O-DIETHYL-O-(4-METHYL-7-KUMARINYL) ESTER KYSEUNY THIOSFOSFORESCNE (CZECH)
 O,O-DIETHYL-O-(4-METHYLCOUMARIN-7-YL)-MONOTHIOFOSFAAT (DUTCH)
 O,O-DIETHYL-O-4-METHYLCUMARINYL(7)TIOFOSFAT (CZECH)
 O,O-(4-DIETHYL-O-(4-METILCUMARIN-7-IL)-MONOTIOFOSFATO (ITALIAN)
 PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(4-METHYL-2-OXO-2H-1-BENZOPYRAN-7- YL) ESTER (9CL)
 PHOSPHOROTHIOIC ACID, O,O-DIETHYL ESTER, O-ESTER WITH 7-HYDROXY-4- METHYLCOUMARIN
 POTSAN-G-LIQUID
 THIOSPHOSPHATE DE O,O-DIETHYLE ET DE O-(4-METHYL-7-COUMARINYLE) (FRENCH)
 4-METHYL-7-HYDROXYCOUMARIN DIETHOXYTHIOPHOSPHATE
 4-METHYLBELLIFERONE-O,O-DIETHYL THIOSPHOSHATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	Potasan is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Product Name **Potassium arsenite**

C.A.S. number **10124-50-2**

Scientific and common names, and synonyms

ARSONIC ACID, POTASSIUM SALT
 ARSENIOS ACID
 POTASSIUM SALT

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
GBR	1961	Uses of potassium arsenite in agriculture and horticulture as a potato haulm destroyer and as a herbicide are withdrawn due to acute toxic hazard to livestock and wildlife. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 1266, , 1977)

Bibliographical references

IARC MONOGRAPH, 1, 41, 1972
 IARC MONOGRAPH, 2, 48, 1973
 IARC MONOGRAPH, 23, 39, 1980
 IARC MONOGRAPH, SUPPL.4, 50, 1982

Product Name **Potassium cyanate**

C.A.S. number **590-28-3**

Scientific and common names, and synonyms

CYANIC ACID, POTASSIUM SALT

Legislative or regulatory action

Legislative or regulation action

Product Name		Potassium cyanate
C.A.S. number		590-28-3
Country	Effective Date	Description of action taken Grounds for decision
ANG	19 Aug 1990	The product zyclon is banned for use. No remaining uses allowed. The product is banned for health and environmental reasons (toxicity). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Pretilachlor
C.A.S. number		51218-49-6
Scientific and common names, and synonyms		CG 113 N-PROPOXYETHYL-N-CHLOROACETYL-2,6-DIETHYLANILINE
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SUN		Pretilachlor is not approved for use as a pesticide due to its marked allergenic and irritant effect. (Reference: (OSUMH) Order of the USSR Ministry of Health, 123-5/280-23, , 21 Nov 1984)
Product Name		Prochloraz
C.A.S. number		67747-09-5
Scientific and common names, and synonyms		BTS 405-42-7877 BTS 405-42 N-PROPYL-N-(2-(2,4,6-TRICHLOROPHENOXY)ETHYL)-1H-IMIDAZOLE-1-CARBOXAMIDE SPORTAK PF SPORTAK 1H-IMIDAZOLE-1-CARBOXAMIDE, N-PROPYL-N-[2-(2,4,6-TRICHLOROPHENOXY)ETHYL]- 1-(N-PROPYL-N-(2-(2,4,6-(TRICHLOROPHENOXY)ETHYL)CARBAMOYL)IMIDAZOLE
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
BLZ		Severely restricted. For use in mangoes only. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 May 1990	Restricted for use near fish farm, waterways and lake because of its high fish toxicity. High toxicity to fish and shellfish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN	Aug 1988	Prochloraz is not approved for use as a pesticide because it is carcinogenic, embryotoxic, displays reproductive toxicity and affects the immune system. (Reference: (OSUMH) Order of the USSR Ministry of Health, 123-5/280-23, , 21 Nov 1984)
Bibliographical references		
FAO PLANT PRODUCTION & PROTECTION PAPER, 92, 35, 1988		
FAO PLANT PRODUCTION & PROTECTION PAPER, 93/1, 181, 1988		
FAO PLANT PRODUCTION & PROTECTION PAPER, 99, 38, 1989		
FAO PLANT PRODUCTION & PROTECTION PAPER, 100, 231, 1990		
FAO PLANT PRODUCTION & PROTECTION PAPER, 102, 52, 1990		

Legislative or regulation action

Product Name	Prochloraz	
C.A.S. number	67747-09-5	
	FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 323, 1990 FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 79, 1993 FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 765, 1993	
Product Name	Pronamide	
C.A.S. number	23950-58-5	
Scientific and common names, and synonyms	BENZAMIDE, 3,5-DICHLORO-N-(1,1-DIMETHYL-2-PROPYNYL)-N-(1,1- DIMETHYLPROPYNYL)-3,5-DICHLOROBENZAMIDE	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
USA	1979	Cancellation and denial of registration of hand-spray application for all uses except ornamental and nursery stock. Wettable powder products are for restricted use only under the direct supervision of certified applicators. The labelling must include general precautions. (Reference: (FEREAC) Federal Register, 44, 61640, 1979)
Product Name	Propachlor	
C.A.S. number	1918-16-7	
Scientific and common names, and synonyms	ACETAMIDE, 2-CHLORO-N-(1-METHYLETHYL)-N-PHENYL-	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Jul 1995	All authorizations for products containing propachlor as an active substance have been withdrawn from the market in 1995 and a further use has been prohibited from 01 July 1995. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Propachlor degradation products are persistent in soil environment and some of the main degradation products are highly mobile and thus present a risk of unacceptable pollution of groundwater. Moreover propachlor is very toxic to aquatic organisms. By normal use the applications applied for will result in high concentrations of propachlor and persistent degradation products in the soil, with extensive leaching. The degradation products are bound only loosely to the soil and may leach to groundwater in much higher concentrations than the drinking water (EC Directive 80/778/EEC on drinking water) limit values of 0.1 and 0.5 µg/l for individual substances and sum of all substances respectively. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name	Propaphos	
C.A.S. number	7292-16-2	
Scientific and common names, and synonyms	PHOSPHORIC ACID, 4-(METHYLTHIO)PHENYL DIPROPYL ESTER	
Legislative or regulatory action		

Legislative or regulation action

Product Name		Propaphos
C.A.S. number		7292-16-2
Country	Effective Date	Description of action taken Grounds for decision
KOR	1 May 1990	Registration withdrawn because of its acute toxicity. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Propargite
C.A.S. number		2312-35-8
Scientific and common names, and synonyms		SULFUROUS ACID, 2-[4-(1,1-DIMETHYLETHYL)PHENOXY]CYCLOHEXYL 2-PROPYNYL ESTER
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
PAK	1 Jan 1992	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Propham
C.A.S. number		122-42-9
Scientific and common names, and synonyms		BAN-HOE BEET-KLEEN CHEM-HOE ISOPROPYL-N-PHENYL-CARBAMAT (GERMAN) IFC IFK INPC IPC IPPC ISO.PPC ISOPROPYL CARBANILATE ISOPROPYL CARBANIUC ACID ESTER ISOPROPYL-N-FENYL-CARBAMAAT (DUTCH) ISOPROPYL-N-PHENYLCARBAMATE ISOPROPYL PHENYCARBAMATE ISOPROPYL-N-PHENYLURETHAN (GERMAN) N-PHENYL ISOPROPYL CARBAMATE N-PHENYLCARBAMATE D'ISOPROPYLE (FRENCH) N-PHENYLCARBAMIC ACID,ISOPROPYL ESTER O-ISOPROPYL N-PHENYL CARBAMATE ORTHO GRASS KILLER PHENYLCARBAMIC ACID, 1-METHYLETHYL ESTER PROPHAME PREMALOX PROFAM TRIHERBIDE-IPC TRIHERBIDE TUBERIT
Legislative or regulation action		

Product Name **Propham**

C.A.S. number **122-42-9**

Scientific and common names, and synonyms

TUBERITE

USAF D-9

Y 2

(ISOPROPIL-N-FENIL-CARBAMMATO (ITALIAN))

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	Propham is prohibited for use as a pesticide because it is carcinogenic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Product Name **Propineb**

C.A.S. number **12071-83-9**

Scientific and common names, and synonyms

ZINC, [[[1-METHYL-1,2-ETHANEDIYL)BIS(CARBAMODITHIOATO)](2-)]-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1992	Voluntarily withdrawn from the market. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Propoxycarbazon-sodium**

C.A.S. number **145026-81-9**

Scientific and common names, and synonyms

METHYL 2-(4,5-DIHYDRO-4-METHYL-5-OXO-3-PROPOXY-1H-1,2,4-TRIAZOL-1-
YL)CARBOXAMIDOSULFONYLBENZOATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	19 Jun 2001	The chemical is banned. It is prohibited to import, sell and use propoxycarbazon-sodium as a pesticide. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Protein**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Mar 1986	Protein products obtained from candida yeasts cultivated on n-alkanes are prohibited for use in feedings stuffs. (Reference: (OJEC) Official Journal of the European Communities, L217, 27, 1985)

Legislative or regulation action

Product Name **Prothoate**

C.A.S. number **2275-18-5**

Scientific and common names, and synonyms

O,O-DIETHYL S-ISOPROPYLCARCAMOLMETHYL PHOSPHORODITHIOATE
O,O-DIETHYLDITHIOPHOSPHORYLACETIC ACID,N-MONOIISOPROPYLAMIDE
O,O-DIETHYL S-(N-ISOPROPYLCARBAMOYLMETHYL) PHOSPHORODITHIOATE
O,O-DIETHYL S-(2-((1-METHYLETHYL)AMINO)-2-OXOETHYL) ESTER PHOSPHORODICHOIC ACID
O,O-DIETHYL ESTER, S-ESTER WITH N-ISOPROPYL-2-MERCAPTO-ACETAMIDE PHOSP HORODITHIOIC ACID
PROTHOAT
PHOSPHORODITHIOIC ACID, O,O-DIETHYL ESTER, S-ESTER WITH N-ISOPROPYL-2- MERCAPTOACETAMIDE
TRIMETHOATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Extremely hazardous and risk to workers in formulation plant and during application by spraying because of very high acute toxicity. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986

Product Name **PTAB**

C.A.S. number **23319-66-6**

Scientific and common names, and synonyms

AMMONIUM, TRIS(2-HYDROXYETHYL)(PHENYLMERCURIO)-, LACTATE
LACTIC ACID, ION(1), TRIS(2-HYDROXYETHYL)(PHENYLMERCURIO)AMMONIUM
LACTIC ACID, TRIS(2-HYDROXYETHYL)(PHENYLMERCURI)AMMONIUM DERIV.
MERCURY(1+), [2,2',2"-NITRILOTRIS[ETHANOL]-N,O,O',O"]PHENYL-, SALT WITH 2-HYDROXYPROPANOIC ACID (1:1)
MERCURY(1+), (2,2',2"-NITRILOTRIETHANOL)PHENYL-, LACTATE (SALT) (8CI)
PURATURF
PURATIZEDAT AGRICULTURAL SPRAY
PURATIZED N5E
PURATIZED AGRICULTURAL SPRAY
PURATIZED
PHENYLMERCURY TRIETHANOLAMINE LACTATE
PHENYLMERCURITRIETHANOLAMMONIUM LACTATE
PHENYLMERCURIC TRIETHANOLAMMONIUM LACTATE
TRIS(2-HYDROXYETHYL)PHENYLMERCURIAMMONIUM LACTATE

Legislative or regulatory action

Legislative or regulation action

Product Name		PTAB
C.A.S. number		23319-66-6
Country	Effective Date	Description of action taken Grounds for decision
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it. Action taken due to persistence and bioaccumulation of residue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Pyrazophos
C.A.S. number		13457-18-6
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	22 Sep 2000	Pyrazophos is banned. Use remains no longer than 18 months after date of notification of Commission Decision 2000/233/EC of 9.3.2000. Unacceptable risk to operators, workers and bystanders. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
Product Name		Pyrinuron
C.A.S. number		53558-25-1
Scientific and common names, and synonyms		
DLP787		
DLP-87		
N-3-PYRIDYLMETHYL-N'-P-NITROPHENYLUREA		
N-(4-NITROPHENYL)-N'-(3-PYRIDINYLMETHYL)UREA		
PYRIMINYL		
PYRIMINIL		
RH-787		
UREA, N-(4-NITROPHENYL)-N'-(3-PYRIDINYLMETHYL)-		
UREA, 1-NITROPHENYL-3-(3-PYRIDYLMETHYL)-		
VACOR		
1-(3-PYRIDYLMETHYL)-3(4-NITROPHENYL)UREA		
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
KOR	9 Aug 1991	Banned for production, import, use and sale of both this substance and preparations containing it. Action taken due to high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	31 Dec 1980	Banned because it causes diabetes mellitus in experimental animals. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 31 Dec 1980)
USA	2 Jul 1979	Vacor (Pyrinuron) was voluntarily withdrawn by the registrant. In June 1979, the manufacturer Vacor voluntarily withdrew all forms of rodenticide from the US market and also requested distributors in the US to return all Vacor products in their possession. No remaining uses allowed. Accidental exposure to Vacor can cause diabetes mellitus and loss of autonomic control of blood pressure in humans. There have been several documented cases of Vacor human poisoning incidents and incidents involving other non-target organisms, especially pets. EPA has also learned of seven deaths associated with the compound that occurred in South Korea in 1975. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Pyrinuron**

C.A.S. number **53558-25-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Product Name **Quinalphos**

C.A.S. number **13593-03-8**

Scientific and common names, and synonyms

PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-2-QUINOXALINYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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KOR	1 Feb 1981	Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited to rice plant. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
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Product Name **Quintozene**

C.A.S. number **82-68-8**

Scientific and common names, and synonyms

AVICOL
BATRILEX
BOTRILEX
BRASSICOL
BENZENE, PENTACHLORONITRO-
EARTHICIDE
FOMAC 2
FUNGICLOR
FOLOSAN
FARTOX
GC 3944-3-4
KOBU
KOBUTOL
KP 2
NCI-C00419
OLPISAN
PENTACHLORNITROBENZOL (GERMAN)
PENTACHLORONITROBENZENE
PENTAGEN
PKHNB
PCNB
QUINTOCENE
QUINTOZEN
RCRA WASTE NUMBER U185
SANICLOR 30
TERRACHLOR
TERRACLOR

Legislative or regulation action

Product Name **Quintozene**

C.A.S. number **82-68-8**

Scientific and common names, and synonyms

TERRAFUN

TILCAREX

TRI-PCNB

TRITISAN

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Oct 1991	The placing on the market and the use of all plant protection products containing quintozene containing more than 1g/kg of HCB or more than 10g/kg pentachlorobenzene is prohibited. The uses quintozene which do not comply with certain purity criteria are likely to give rise to harmful effects on human and animal health as well as a highly unfavourable influence on the environment. Directive 90/533/EEC of 15.10.90. (Reference: (OJEC) Official Journal of the European Communities, L296/63, , 27 Oct 1990)
@EC	27 Dec 2000	The chemical is banned. It is prohibited to place on the market or use plant protection products containing quintozene. Quintozen is not included as an active ingredient in Annex I to the Directive 91/414/EEC. The authorizations for plant protection products containing quintozene were withdrawn within a period of six months from the date of notification of the Commission Decision 2000/816/EC. From the date of notification, no authorization for plant protection products containing quintozene will be granted or renewed. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
AUT	20 Feb 1992	Voluntarily withdrawn by manufacturer since August 1988. All uses banned as of 20.02.1992. Carcinogenic and reproductive effects (effects on fetus or embryo, fertility, developmental abnormalities) in experimental animals. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BLZ	28 Dec 1985	PCNB is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
DEU	1 Sep 1988	Totally banned for use as plant protection product. Impurities of unacceptable amounts of HCB; residues problem at following crops. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	25 Jul 1989	Pentachloronitrobenzene is banned. Action taken owing to possible carcinogenic effect depending upon the level of hexachlorobenzene. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 Apr 1987	Registration withdrawn because of its crop residue. Crop residue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LKA	1 Jun 1990	Quintozene is banned for use as a pesticide. It was deregistered from 8.6.90. No remaining uses allowed. Deregistered on grounds of oncogenicity reported by EPA. Inability to obtain compliance of label restrictions (such as - Do not apply adjacent to portable water supplies, use respirators, gloves and complete body cover) under local socio-economic conditions. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1989)
SUN		Pentachloronitrobenzene is prohibited for use as a pesticide because it is persistent, highly cumulative and carcinogenic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)
USA		Modification of the terms and conditions of all registrations of PCNB-containing products to meet the following conditions: reduction of the hexachlorobenzene (HCB) level in

Legislative or regulation action

Product Name **Quintozene**

C.A.S. number **82-68-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		technical PCNB products to 0.1% or less because of risks associated with the oncogenic effects of HCB. Voluntary cancellation of the registrations of all dust base formulations except those used in planter box seed treatment. Amendment to the labels of granular formulations used in parks and on golf courses to include the following precautionary statement: "Do not apply directly adjacent to potable water supplies." Amendment to the labels of homeowner products to include precautionary statement. Amendment to the labels of professional applicator products to include protective clothing requirements. (Reference: (FEREAC) Federal Register, 47, 18177, 1982)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 15, , 1978
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 41, , 1984
 IPCS HEALTH AND SAFETY GUIDE, 23, , 1989
 FAO PLANT PRODUCTION & PROTECTION PAPER, 133, 173, 1995

Product Name **Quizalofop-ethyl**

C.A.S. number **76578-14-8**

Scientific and common names, and synonyms

PROPANOIC ACID, 2-[4-[(6-CHLORO-2-QUINOXALINYL)OXY]PHENOXY]-, ETHYLESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	16 Oct 1989	Quizalafopethyl is banned for use as a pesticide. The substance has never been used in the country. Action was taken because of increased incidence of tumors in liver in rats and mice and in ovaries in mice and adverse effects on testes in even low doses in chronic studies. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Resmethrin**

C.A.S. number **10453-86-8**

Scientific and common names, and synonyms

CYCLOPROPANECARBOXYLIC ACID, 2,2-DIMETHYL-3-(2-METHYL-1-PROPENYL)-[5-(PHENYLMETHYL)-3-FURANYL]METHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	14 Jul 1990	Severely restricted. Public health use only. Use in combination with more persistent pesticides. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Rovral TS**

C.A.S. number **58784-20-6**

Scientific and common names, and synonyms

IPRODIONE-CARBENDAZIM MIXTURE
 ROVRAL UTB
 ROVRAL TS FLOW

Legislative or regulation action

Product Name **Rovral TS**

C.A.S. number **58784-20-6**

Scientific and common names, and synonyms
ROP 17660B

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	Rovral TS is not approved for use as a pesticide because it contains iprodione, a potential teratogen and carbendazim, a potential carcinogen. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 26 Feb 1981)

Product Name **S-(2-(dimethylamino)ethyl pseudothiourea dihydrochloride**

C.A.S. number **16111-27-6**

Scientific and common names, and synonyms
PSEUDOURA, 2-(2-(DIMETHYLAMINO)ETHYL)-2-THIO, DIHYDROCHLORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jul 1991	S-(2-(dimethylamino)ethyl) isothiourinium dihydrochloride is severely restricted. The substance is sensibilizing. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Safrole**

C.A.S. number **94-59-7**

Scientific and common names, and synonyms
5-ALLYL-1,3-BENZODIOXOLE
5-(2-PROPENYL)-1,3-BENZODIOXOLE
ALLYLPYROCATECHOL METHYLENE ETHER
ALLYLCATECHOL METHYLENE ETHER
BENZENE, 4-ALLYL-1,2-(METHYLENEDIOXY)-
BENZENE, 1,2-METHYLENEDIOXY-4-ALLYL-
M-ALLYLPYROCATECHIN METHYLENE ETHER
1,3-BENZODIOXOLE, 5-(2-PROPENYL)-
1,ALLYL-3,4-METHYLENEDIOXYBENZENE
3,4-METHYLENEDIOXY-ALLYLBENZENE
4-ALLYLPYROCATECHOL FORMALDEHYDE ACETAL
4,ALLYL-1,2-METHYLENEDIOXYBENZENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	11 Jun 1977	The substance was voluntarily withdrawn by the registrant. On June 11, 1977 all registrants cancelled their product registrations. One company requested - and EPA agreed to - allow them to use their existing stocks for nine months after the date of cancellation. No remaining uses allowed. Safrole was shown to be carcinogenic in rats, mice, and dogs; carcinomas of the liver were observed in all three species after the oral administration. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Safrole**

C.A.S. number **94-59-7**

Bibliographical references

IARC MONOGRAPH, 1, 169, 1972
IARC MONOGRAPH, 10, 231, 1976

Product Name **Schradan**

C.A.S. number **152-16-9**

Scientific and common names, and synonyms

BIS(DIMETHYLAMINO)PHOSPHORIC ANHYDRIDE
BIS-N,N,N',N'-TETRAMETHYLPHOSPHORODIAMIDIC ANHYDRIDE
BIS(DIMETHYLAMINO)PHOSPHONOUS ANHYDRIDE
DIPHOSPHORAMIDE, OCTAMETHYL-
DIFOSFAMIDA DE OCTAMETILO
OCTAMETHYLPYROPHOSPHORAMIDE
OCTAMETHYL
OCTAMETHYL DIPHOSPHORAMIDE
OCTAMETHYL PYROPHOSPHORTETRAMIDE
OCTAMETHYL TETRAMIDO PYROPHOSPHATE
OCTAMETHYL-DIPHOSPHORSAEURE-TETRAMID (DEU)
OCTAMETHYLPYROPHOSPHORIC TETRA-AMIDE
OMPA
OTTOMETIL-PIROFOSFORAMMIDE (ITA)
OCTAMETHYL-DIFOSFORZUUR-TETRAMIDE (NLD)
PYROPHOSPHORIC ACID OCTAMETHYLTETRAAMIDE
PYROPHOSPHORTETRAMIDE
PYROPHOSPHORYLTETRAKISDIMETHYLAMIDE
SCHRADANE (FRA)
TETRAKISDIMETHYLAMINOPHOSPHONOUS ANHYDRIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	The substance is banned for use. Extremely toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JPN	Jun 1971	Designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. No use has been designated by Cabinet Order.
KWT	1 Jan 1980	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SUN		Pesticide currently banned for production and use. (Reference: (KGTXP) General Toxicology of Pesticides, , , 1981)
SUN		Schradan is prohibited for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1978)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Extremely hazardous and risk to workers in formulation plant and during

Legislative or regulation action

Product Name **Schradan**

C.A.S. number **152-16-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	1 May 1976	application by spraying because of very high acute toxicity. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,) OMPA(Schradan) is banned for use. In May 1976, EPA cancelled the registrations of all products containing OMPA. two registrants claimed they had already stopped manufacturing the product. No remaining uses allowed. Studies showed that hexamethylphosphoramide (HMPA), which appears as an inert ingredient in OMPA(Schradan), can cause nasal tumors (squamous cell carcinoma) in rats. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Scilliroside**

C.A.S. number **507-60-8**

Scientific and common names, and synonyms

SCILLIROSIDE; (3-BETA,6-BETA)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ		For use only as a rat bait. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)

Product Name **Selenium and selenium compounds**

C.A.S. number **7782-49-2**

Scientific and common names, and synonyms

SELENIUM

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Apr 1986	Selenium compounds are prohibited for use as plant protectants. (Reference: (BGBL) Bundesgesetzblatt, IS.363, , 1986)
GBR	1962	Uses of selenium compounds (such as selenium selenate) in agriculture, horticulture and home gardens were withdrawn on grounds of high acute toxic hazard to humans and livestock. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 11, , 1965)

Bibliographical references

IARC MONOGRAPH, 9, 245, 1975

WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984

IPCS ENVIRONMENTAL HEALTH CRITERIA, 58, , 1986

Product Name **Silvex**

C.A.S. number **93-72-1**

Scientific and common names, and synonyms

ALPHA-(2,4,5-TRICHLOROPHENOXY)PROPIONIC ACID

ACIDO 2-(2,4,5-TRICLORO-FENOSI)-PROPIONICO (ITA)

Legislative or regulation action

Product Name **Silvex**

C.A.S. number **93-72-1**

Scientific and common names, and synonyms

ACIDE 2-(2,4,5-TRICHLORO-PHENOXY) PROPIONIQUE (FRA)
FENOPROP
PROPANOIC ACID, 2-(2,4,5-TRICHLOROPHENOXY)-
PROPIONIC ACID, 2-(2,4,5-TRICHLOROPHENOXY)-
TRICHLOROPHENOXY PROPIONIC ACID
2-(2,4,5-TRICHLOROPHENOXY)PROPIONIC ACID
2-(2,4,5-TRICHLOR-PHENOXY)-PROPIONSAEURE (DEU)
2-(2,4,5-TRICHLOR-FENOXY)-PROPIONZUUR (NLD)
2,5,5-TP
2,4,5-TRICHLOROPHENOXY-ALPHA-PROPIONIC ACID
2,4,5-TP
2,4,5-TCPPA

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1 Sep 1987	Totally banned chemical: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited (Applies to 2,4,5-trichloropropionic acid and its salts together with 2,4,5-trichlorophenoxy propionyl compounds). Long persistence, highly toxic impurities, formation of highly toxic substances on thermolysis. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
COL	18 May 1979	The substance is banned for use. (Prohibido su uso en la agricultura.) No remaining uses allowed. (Ninguno.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CYP	22 Oct 1979	Fenoprop(or 2,4,5-TP) is banned for all use as pesticide. Registration has been withdrawn. No remaining uses allowed. Action taken due to its containment dioxin and the possible toxic effects of this substance. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1979)
KOR	1 Aug 1984	Registration withdrawn because of its potential teratogenicity. Risk of teratogenic effect on humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
NLD	1 Jan 1979	It is prohibited to sell, stock, store or use all pesticides containing silvex as an active ingredient because of the presence of 2,3,7,8-TCDD in silvex. 2,3,7,8-TCDD is a) very persistent in the environment; b) a substance with a high bioaccumulation potential; c) an extremely toxic chemical. Based on toxicological data the ministers responsible for the authorization of pesticides in the Netherlands decided in 1979 not to extend the registration for application and use of silvex. (Reference: (NLDDC) Ministerial Order Decree of the Ministry of Agriculture and Fisheries, , , 1979)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	09 May 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Possibly carcinogenic to humans.

Legislative or regulation action

Product Name **Silvex**

C.A.S. number **93-72-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	1 Jan 1985	(Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,) Fenoprop(Silvex)is banned for use. In March 1979, EPA suspended uses in forestry, rights-of-way, pasture, home, and garden, commercial/ornamental turf, and aquatic weed control and on ditch-banks. After a hearing in 1980 all products were cancelled by 1985. Similar to the disposal program for stocks of 2,4,5-T, EPA will begin disposal of fenoprop (silvex) stocks once an appropriate mechanism is identified and approved. No remaining uses allowed. The substance is related to 2,4,5-T and has been found to be contaminated with dioxin. Dioxin is associated with carcinogenic, mutagenic, and fetotoxic effects in laboratory animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 41, , 1986

Product Name **Simazine**

C.A.S. number **122-34-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jan 1998	Simazine is banned. No remaining uses allowed. High mobility, persistence in soil and water and extremely toxic to algae. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Sodium arsenate**

C.A.S. number **7631-89-2**

Scientific and common names, and synonyms

FATSCO ANT POISON
SWEENEY'S ANT-GO
SODIUM ORTHOARSENATE
SODIUM METAARSENATE
SODIUM ARSENATE (DOT)
UN 1685 (DOT)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN		Sodium arsenate is prohibited for use as a pesticide because it is carcinogenic and highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1978)

Product Name **Sodium cacodylate**

C.A.S. number **124-65-2**

Scientific and common names, and synonyms

ARSINE OXIDE, DIMETHYLHYDROXY-, SODIUM SALT

Legislative or regulation action

Product Name **Sodium cacodylate**

C.A.S. number **124-65-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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PRT		This product may not be marketed in Portugal on account of its environmental/toxicological effect (applies to mixtures of sodium cacodylate and cacodylic acid). (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , ,)
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Bibliographical references

IARC MONOGRAPH, 1, 41, 1972
IARC MONOGRAPH, 2, 48, 1973
IARC MONOGRAPH, 23, 39, 1980
IARC MONOGRAPH, SUPPL.4, 50, 1982

Product Name **Sodium chlorate**

C.A.S. number **7775-09-9**

Scientific and common names, and synonyms

CHLORIC ACID, SODIUM SALT

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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NOR	31 Dec 1992	Sodium chlorate is banned for use as a pesticide. No remaining uses allowed. Action taken because of mobility, water solubility and risk of pollution. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1990	Banned for use as a pesticide. No remaining uses. Action taken due to high mobility in soil. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	All use categories have been banned. Substance is a strong oxidant. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Sodium cyanide**

C.A.S. number **143-33-9**

Scientific and common names, and synonyms

SODIUM CYANIDE (NA(CN))

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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CYP	17 Jun 1981	Withdrawn by the manufacturer. Registration cancelled by the Pest Control Product Board. No remaining uses allowed. Health risks and hazards associated with its use, due to its high acute toxicity to mammals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SUN		Sodium cyanide is prohibited for use as a pesticide because it is highly toxic (applies to cyanplav (black cyanide) - a mixture of calcium cyanide and sodium cyanide. Acting substance - hydrogen cyanide).
USA	Dec 1975	Cancelled and suspended for use in mammalian predators by the Environmental Protection Agency except for the M-44 device for control of coyotes, foxes and wild dogs

Legislative or regulation action

Product Name **Sodium cyanide**

C.A.S. number **143-33-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		which was registered by EPA in 1975. Label should have instructions for predator use blocked out. (Reference: (FEREAC) Federal Register, 49, 4830, 1984)

Product Name **Sodium fluoride**

C.A.S. number **7681-49-4**

Scientific and common names, and synonyms

ALCOA SODIUM FLUORIDE
FLUORURE DE SODIUM (FRA)
FLUORIDE, SODIUM
FLUORID SODNY (CSK)
SODIUM FLUORIDE (NAF)
SODIUM MONOFLURIDE
SODIUM MONOFLUORIDE
SODIUM FLUORURE (FRA)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. High unselective toxicity (it is toxic to all forms of life) and slight solubility in water. Furthermore, the substance has shown carcinogenic and reproductive effects in experimental animals. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
DNK		Registered only as a wood preservative for a very specific use.
GBR	1966	Use of inorganic fluorides as food storage insecticides was withdrawn (professional and amateur uses) because of high acute toxic hazard to humans and because there were less toxic alternatives available. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 138, , 1966)
NZL		Not considered for registration as a pesticide.
THA	1 Oct 1986	All agricultural uses have been banned. Strong oxidising agent which can cause fire during storage. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Sodium fluoroacetate**

C.A.S. number **62-74-8**

Scientific and common names, and synonyms

ACETIC ACID, FLUORO-, SODIUM SALT
ACETIC ACID, FLUORO-, SODIUM SALT
ACETATE ACID FLUORO- SODIUM SALT
FLUOROACETIC ACID SODIUM SALT
NATRIUMFLUORACETAT(DEU)
NATRIUMFLUORACETAAT(NLD)
SODIUM MONOFLUOROACETATE

Legislative or regulation action

Product Name **Sodium fluoroacetate**

C.A.S. number **62-74-8**

Scientific and common names, and synonyms

SODIUM FLUOROACETATE DE (FRA)

SODIUM FLUOROACETATE(GBR)

SODIUM FLUOACETIC ACID

SODIUM FLUOACETATE

SODIO, FLUORACETATO DI (ITA)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	The substance is banned for use. Extremely and acutely toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
COL	May 1969	Prohibition of sale of pesticides with this ingredient. The Ministry of Health has cited serious health risks associated with its use. Export is permitted with the requirement of foreign notification regarding domestic restrictions on use. (Reference: (DCCOL) Decree, 843, 23, 26 May 1969)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide (La sustancia esta prohibida para su uso, produccion e importacion como plaguicida). Because of its high toxicity has caused an important number of cases of poisoning (Por su elevada toxicidad, provoca un elevado numero de accidents de envenenamiento). (Reference: (CUBMSP) Ministro de Salud Publica, Resolucion No, , 1990)
DEU	1985	Not registered as a pesticide. (Reference: (DFSK) Deutsche Forschungsgemeinschaft, 16, , 1985)
JPN	Oct 1955	Designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. The use designated by Cabinet Order is limited to exterminating field mice.
MEX	1982	Prohibited agricultural pesticide. Reasons for the control action: protection of health and the environment. (Reference: (MEXMP) Manual de Plaguicidas Autorizados para, , ,)
NZL	1983	Under the provisions of the Toxic Substances Act this product is available to commercial users only, and must be labelled as a deadly poison. Under the provisions of the Pesticides Regulations (1983) all operators must be licensed.
PHL		Banned for use and/or sale.
SLO	22 Feb 1991	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	All use categories have been banned. High acute toxicity to man and animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA		Special review completed and issued July 13, 1985. State registered uses for control of field rodents permitted to continue with certain label changes. Special precautions required so as to protect endangered species.

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 95, 37, 1989

Product Name **Sodium metaarsenite**

C.A.S. number **7784-46-5**

Scientific and common names, and synonyms

ARSENENOUS ACID, SODIUM SALT

Legislative or regulation action

Product Name **Sodium metaarsenite**

C.A.S. number **7784-46-5**

Scientific and common names, and synonyms

ARSENITE DE SODIUM (FRENCH)

ARSENIOUS ACID, SODIUM SALT

SODIUM METAARSENITE

SODIUM ARSENITE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
GBR	1961	Uses of sodium arsenite in agriculture and horticulture as a potato haulm destroyer and as a herbicide are withdrawn due to acute toxic hazard to livestock and wildlife. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 1267, , 1977)
NLD	11 Nov 1985	It is prohibited to sell, stock, store or use all pesticides containing sodium arsenite as an active ingredient. The use of sodium arsenite as a defoliant is prohibited because of the risk of leaching to ground- and surface water and the fact that it may be associated with the development of skin cancer and liver tumours in humans. The ministers responsible for the authorization of pesticides in the Netherlands decided in 1985 not to extend the registration for the application and use of sodium arsenite. (Reference: (NLDSB) Netherlands Staatsblad, 97, , 1976)
NLD	11 Nov 1985	The chemical is banned. It is prohibited to sell, stock, store or use sodium arsenite as a pesticide. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
THA	15 Mar 1981	Sodium arsenite is prohibited for importation (only means of distribution in the country). It causes plant growth deterioration and persists in the environment. It has been found to be teratogenic. Notification issued by the 1st Toxic Substance Committee Meeting/1981 under the Poisonous Article Act No.2 (1973). (Reference: (ONEBT) Office of the National Environment Board, , , 1981)
USA	13 Jan 1988	The substance is banned for use. In October 1978, EPA initiated an intensive evaluation of the wood preservative and non-wood preservative uses of inorganic arsenical compounds. In June 1988, EPA decided to cancel registrations of products containing sodium arsenite registered for non-wood preservative uses, except for use as a fungicide on grapes. This remaining use was voluntarily cancelled on January 13, with restrictions applying on the sale of existing stocks. No remaining uses allowed. Sodium arsenite, like all inorganic arsenical, has the following adverse effects of concern: mutagenicity, teratogenicity, fetotoxicity, acute toxicity, and human epidemiological studies have indicated that it may cause carcinogenic effects. Mutagenic assays have shown that sodium arsenite has the potential to cause chromosomal changes in humans. Its solubility and toxicity make it a hazard to water supplies. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Sodium methanearsonate**

C.A.S. number **2163-80-6**

Scientific and common names, and synonyms

ARSONIC ACID, METHYL-, MONOSODIUM SALT

METHANEARSONIC ACID, MONOSODIUM SALT

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name **Sodium methanearsonate**

C.A.S. number **2163-80-6**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	20 Dec 1971	Prohibited for use in cultivation, commerce and industrial processing of tobacco. (Reference: (ADISS) Argentinian Legislation, Disposición, 80, , 1971)
IDN	1 Sep 1976	No longer holds the permission. No remaining uses allowed. The substance gives hazardous effect to soil and water when applied successively. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Sodium silicofluoride**

C.A.S. number **16893-85-9**

Scientific and common names, and synonyms

SILICATE(2-), HEXAFLUORO-, DISODIUM

SILICATE(2-), HEXAFLUORO-, DISODIUM

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
GBR	1966	Use of inorganic fluorides as food storage insecticides was withdrawn (professional and amateur uses) because of high acute toxic hazard to humans and because there were less toxic alternatives available. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 138, , 1966)

Product Name **Stilbene**

C.A.S. number **588-59-0**

Scientific and common names, and synonyms

ALPHA,BETA-DIPHENYLETHYLENE

BIBENZYLIDINE

BIBENZYLIDENE

BIBENZAL

BENEZENE, 1,1'-(1,2-ETHENEDIYL)BIS- (9C1)

STILBEN (GERMAN)

1,2-DIPHENYLETHYLENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	7 Oct 1981	Marketing of stilbenes, stilbene derivatives, their salts and esters and thyrostatic substances for administering to animals of all species is prohibited. (Reference: (OJEC) Official Journal of the European Communities, L222, 32-33, 1981)

Product Name **Strobane**

C.A.S. number **8001-50-1**

Scientific and common names, and synonyms

COMPOUND 3961

DICHLORICIDE MOTHPROOFER

Legislative or regulation action

Product Name **Strobane**

C.A.S. number **8001-50-1**

Scientific and common names, and synonyms

DICHLORICIDE AEROSOL
ENT 19,442
INSECTICIDE 3960-X14
TERPENE POLYCHLORINATE
TERPENE POLYCHLORINATES
3960-X14

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1 Sep 1986	Polychloroterpenes or Strobane is a totally banned chemical: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited. Long persistence, bioaccumulation. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
DEU	1 Jun 1974	Totally banned for use as plant protection product. Persistent organochlorine compounds, close similarity to camphechlor (toxaphene). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SUN		Strobane is prohibited for use as a pesticide because it is carcinogenic, persistent and readily absorbed through the skin. (Applies to polychloropinene of variable composition where the cl-content is equal to or less than 66%). (Reference: (OSUMH) Order of the USSR Ministry of Health, 123-5/699-23, , 09 Nov 1981)
USA	2 Aug 1976	Strobane(polychloroterpenes) was banned for use. All registrations were cancelled, taking effect from August 2, 1976. No remaining uses allowed. Animal studies showed a significant increase in tumors. These studies indicated that use of terpene polychlorinate poses a carcinogenic hazard for humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 5, 219, 1974
IARC MONOGRAPH, 7, 72, 1987

Product Name **Strychnine and salts**

C.A.S. number **57-24-9**

Scientific and common names, and synonyms

STRYCHNIN (DEU)
STRYCHNIDIN-10-ONE
STRICNINA (ITA)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	1976	Classified as a "highly toxic poison". It may be manufactured, bought or sold only with a special license and is subject to certain packaging and labelling requirements.

Legislative or regulation action

Product Name **Strychnine and salts**

C.A.S. number **57-24-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	Severely restricted. For use by public health officials for approved purposes. Extreme toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHE	1972	Prohibited for use in the control of rodents. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, , ,)
IDN		The substance has never been registered, and is prohibited for all purposes. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1971	Use and sale banned without a permit. (Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 2224, 89, 1967)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it or its salts. Action taken due to acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1 Jan 1977	Withdrawal of all remaining products, registrations cancelled. No uses allowed. Human health reasons (acute toxicity). (Reference: (NZLABM) Agricultural Board Minutes, , , 1987)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PHL		Banned for use and/or sale in agriculture.
PRT	1 Jan 1974	Banned. The control action applies to strychnine salts. No remaining uses allowed. Action taken because of human health considerations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1984	The Environmental Protection Agency has cancelled strychnine uses for the control of prairie dogs, deer mice, meadow mice, chipmunks and marmots/woodchucks on rangeland/pastures and cropland. Also cancelled are uses for the control of all rodents and small mammals with the exception of ground squirrels, marmots/woodchucks, mammalian predators (around rock piles and outcrops), jackrabbits (around airports) and porcupines on non-agricultural sites. Label restrictions regarding the following uses will be made so that endangered species are protected: ground squirrels, jackrabbits, kangaroo rats, and cotton rats on rangeland/ pastures and cropland; ground squirrels, marmots/woodchucks, jackrabbits and porcupines on non-agricultural sites. A hearing has been initiated challenging the cancellation of strychnine for control of prairie dogs and voles. (Reference: (FEREAC) Federal Register, 48, 48522, 1983)

Product Name **Strychnine sulphate**

C.A.S. number **60-41-3**

Scientific and common names, and synonyms

STRYCHNIDIN-10-ONE, SULFATE (2:1)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	16 Oct 1990	Import, production, formulation, sale and use of products for agricultural use containing this active ingredient are banned. The National Register of Plant Protection will cancel the registrations of formulated products for agricultural use containing this active

Legislative or regulation action

Product Name **Strychnine sulphate**

C.A.S. number **60-41-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		ingredient. (Prohíbe la importación, fabricación, fraccionamiento, comercialización y uso de productos de aplicación agrícolas formulados a base de este principio activo. El Registro Nacional de Terapeutica Vegetal procederá a cancelar las inscripciones de todos los productos de uso agrícola formulados a base de este principio activo.) Protection of human health and environment. Carcinogenicity. (Protección de la salud humana y el medio ambiente. Por efectos carcinogénicos.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MEX	1982	Prohibited agricultural pesticide. Reasons for the control action: protection of health and the environment (because of its high toxicity, LD50: 5mg/kg). (Reference: (MEXMP) Manual de Plaguicidas Autorizados para, , ,)

Product Name **Sulfallate**

C.A.S. number **95-06-7**

Scientific and common names, and synonyms

CARBAMODITHIOIC ACID, DIETHYL-, 2-CHLORO-2-PROPENYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NZL	1 May 1987	Withdrawal of all remaining products, registrations cancelled. No uses allowed. Human health reasons (possible carcinogen). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Sulfosulfurone**

C.A.S. number **141776-32-1**

Scientific and common names, and synonyms

1-(4,6-DIMETHOXIPYRIMIDIN-2-YL)-3-(2-ETHYLSULFONYLIMIDAZO{1,2-A}PYRIMIDIN-3-YLSULFONYL)UREA

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	19 Jun 2001	The chemical is banned. It is prohibited to import, sell and use sulfosulfurone as a pesticide. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Sulfotep**

C.A.S. number **3689-24-5**

Scientific and common names, and synonyms

BIS-O,O-DIETHYLPHOSPHOROTHIONIC ANHYDRIDE

DITHIOPYROPHOSPHATE DE TETRAETHYLE (FRA)

DITHIOPHOS

ETHYL THIOPYROPHOSPHATE

O,O,O,O-TETRAETIL-DITIO-PIROFOSFATO (ITA)

O,O,O,O-TETRAETHYL-DITHIO-DIFOSFAAT (NLD)

Legislative or regulation action

Product Name **Sulfotep**

C.A.S. number **3689-24-5**

Scientific and common names, and synonyms

O,O,O,O-TETRAETHYL DITHIOPYROPHOSPHATE
 PYROPHOSPHORODITHIOIC ACID, TETRAETHYL ESTER
 PYROPHOSPHORODITHIOIC ACID, O,O,O,O-TETRAETHYL ESTER
 THIODIPHOSPHORIC ACID ((HO)2P(S))2O), TETRAETHYL ESTER
 THIOPYROPHOSPHORIC ACID, TETRAETHYL ESTER
 THIODIPHOSPHORIC ACID, TETRAETHYL ESTER
 TETRAETHYL DITHIOPYROPHOSPHATE
 TETRAETHYL DITHIONOPYROPHOSPHATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BGR		Classified as highly toxic, used only as a fumigant in greenhouses.
BLZ	28 Dec 1985	The substance is banned for use. Extremely toxic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHN	5 Jun 1982	The following uses of sulfotep are prohibited: 1) on vegetables, tea, fruit trees and herbs; 2) against insects harmful to health of humans and animals; 3) for rat control except when formulated as a rodenticide. These measures were taken because sulfotep is a highly toxic substance and its use is harmful to human health. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), No4,)
KWT	1 Jan 1980	The substance is banned for use as a pesticide. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SUN		Sulfotep is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
THA	24 Jun 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited. Extremely hazardous and risk to workers in formulation plant and during application by spraying because of very high acute toxicity. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986

Product Name **Sulprofos**

C.A.S. number **35400-43-2**

Scientific and common names, and synonyms

PHOSPHORODITHIOIC ACID, O-ETHYL O-(4-(METHYLTHIO)PHENYL) S-PROPYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
MYS		Under the Pesticides Act, products containing this active ingredient are not allowed for manufacture, sale or import (except for research or educational purposes, in which case they require an import permit and are subject to use with certain restrictions). The compound is considered to pose hazards under local conditions of use. Authorities cite

Legislative or regulation action

Product Name **Sulprofos**

C.A.S. number **35400-43-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
PAN	Sep 1987	other less toxic and currently registered alternative pesticides. (Reference: (MYSPA) Pesticides Act, , , 1974) Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986

Product Name **TCA, sodium**

C.A.S. number **650-51-1**

Scientific and common names, and synonyms

ANTIPERZ
ANTYPERZ
ACETIC ACID, TRICHLORO-, SODIUM SALT
ACP GRASS KILLER
DOW SODIUM TCA INHIBITED
GREEN CROSS COUCH GRASS KILLER
NATCA
NATRIUMTRICHLORACETAAT (DUTCH)
NATRIUMTRICHLORACETAT (GERMAN)
NATA
SODIUM TCA INHIBITED
SODIO(TRICLOROACETATO DI) (ITALIAN)
SODIUM TCA
SODIUM TRICHLOROACETATE
STCA
SODIUM (TRICHLORACETATE DE) (FRENCH)
TCA
TCA SODIUM
TRICHOESSIGSAURES NATRIUM (GERMAN)
TRICHLOROACETIC ACID SODIUM SALT
TRICHLOROCTAN SODNY (CZECH)
VARITOX
WEEDMASTER GRASS KILLER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NLD	1 Nov 1991	It is prohibited to sell, stock, store or use TCA as pesticide. Per 1 November 1991 the remaining use for the culture of grass seed was prohibited. Action taken due to leaching into the groundwater. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	01 Nov 1991	The chemical is banned. It is prohibited to sell, stock, store or use sodium trichloroacetate as a pesticide. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Legislative or regulation action

Product Name TCA, sodium

C.A.S. number 650-51-1

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1990	Banned for use as a pesticide. No remaining uses allowed. Action taken due to high mobility in soil. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name Tebuthiuron

C.A.S. number 34014-18-1

Scientific and common names, and synonyms

N-(5-1,1-DIMETHYLETHYL)-1,3,4-THIADIAZOL-2-YL)-N,N'-DIMETHYL-UREA
N-((5-1,1-DIMETHYLETHYL)-1,3,4-THIADIAZOL-2-YL)-N,N'-DIMETHYL-UREA
1-(5-TERT-BUTYL-1,3,4-THIADIAZOL-2-YL)-1,3-DIMETHYL-UREA
1-(5-TERT-BUTYL-1,3,4-THIADIAZOL-2-IL)-1,3-DIMETILUREA

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
MYS		Tebuthiuron is not registered in Malaysia under the Pesticides Act 1974. Non-registered pesticides cannot be imported, manufactured or sold. (Reference: (MYSPA) Pesticides Act, , , 1974)

Product Name Tecnazene

C.A.S. number 117-18-0

Scientific and common names, and synonyms

BENZENE, 1,2,4,5-TETRACHLORO-3-NITRO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	20 Nov 2000	The chemical is banned. It is prohibited to place on the market or use plant protection products containing tecnazene. Tecnazene is not included as an active ingredient in Annex I to Directive 91/414/EEC. The authorizations for plant protection products containing tecnazene were withdrawn within a period of six months from the Commission Decision 2000/725/EC. From the date of decision, no authorization for plant protection products containing tecnazene will be granted or renewed. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
AUT	20 Feb 1992	All uses banned. Mutagenic properties. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

Product Name Terbacil

C.A.S. number 5902-51-2

Scientific and common names, and synonyms

2,4(1H,3H)-PYRIMIDINEDIONE, 5-CHLORO-3-(1,1-DIMETHYLETHYL)-6-METHYL-

Legislative or regulatory action

Legislative or regulation action

Product Name		Terbacil
C.A.S. number		5902-51-2
Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1991	The substance is banned for use as a pesticide. No remaining uses allowed. Approval was denied due to potential for adverse environmental effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Tetrachlorvinphos
C.A.S. number		22248-79-9
Scientific and common names, and synonyms		PHOSPHORIC ACID, 2-CHLORO-1-(2,4,5-TRICHLOROPHENYL)ETHENYL DIMETHYLESTER, (Z)-
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
ANG	14 Sep 1990	The product Gardona 24% EC is banned for use. No remaining uses allowed. The product is banned for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Tetradifon
C.A.S. number		116-29-0
Scientific and common names, and synonyms		BENZENE, 1,2,4-TRICHLORO-5-[(4-CHLOROPHENYL)SULFONYL]- SULFONE, P-CHLOROPHENYL 2,4,5-TRICHLOROPHENYL 1,2,4-TRICHLORO-5-[(4-CHLOROPHENYL)SULFONYL]BENZENE 2,4,4'5-TETRACHLORODIPHENYL SULPHONE 4-CHLOROPHENYL 2,4,5-TRICHLOROPHENYLSULPHONE
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
KOR	25 Feb 1981	Due to high toxicity to honey bee, the use of this product is prohibited during the blooming periods. Pre-harvest intervals were established for the safe use of this product. Action taken because of high toxicity to honey bee. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
USA	18 Feb 1977	The substance has been voluntary withdrawn by the only registrant of pesticide products containing chloranil. The registrant informed EPA that it terminated sales and delivery of products containing chloranil years ago and had none in stock. The cancellation became effective 18.02.77. No remaining uses allowed. The substance was found to be oncogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Bibliographical references		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 67, , 1986		
IPCS HEALTH AND SAFETY GUIDE, 11, , 1987		
Product Name		Tetraethylpyrophosphate (TEPP)
C.A.S. number		107-49-3

Legislative or regulation action

Product Name **Tetraethylpyrophosphate (TEPP)**

C.A.S. number **107-49-3**

Scientific and common names, and synonyms

BIS-O,O-DIETHYLPHOSPHORIC ANHYDRIDE

DIPHOSPHORIC ACID, TETRAETHYL ESTER

ETHYL PYROPHOSPHATE

O,O,O,O-TETRAETIL-PIROFOSFATO (ITA)

O,O,O,O-TETRAETHYL-DIFOSFAAT (NLD)

O,O,O,O-TETRAETHYL-DIPHOSPHAT, BIS(O,O-DIAETHYLPHOSPHORSAEURE- ANHYDRID (DEU)

PYROPHOSPHATE DE TETRAETHYLE (FRA)

TEPP

TETRAETHYL PYROPHOSPHATE, LIQUID (USA)

TETRAETHYL PYROFOSFAAT (BEL)

TETRAETHYL DIPHOSPHATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. High acute toxicit (LD50 oral-rat: 500 ug/kg); human poison by ingestion and intramuscular routes; human systemic effects by ingestion, intramuscular, subcutaneous, and paranternal routes: parastesia, wakefulness, excitement, muscle contradiction, nausea or vomiting and other gastrointestinal changes. The action is similar to that of parathion; causing an irreversible inhibition of the cholinesterase. Small doses at frequent intervals are largely addictive. 97th Ordinance on Prohibition of Dangerous Substance in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
DMA		Severely restricted pesticide. (Reference: (DMAPC) Pesticide Control Board, , , 1986)
JPN	Jun 1971	Designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. No use has been designated by Cabinet Order.
KWT	1 Jan 1975	The substance is banned for use. No remaining uses are allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
SUN		TEPP is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
THA	2 May 1995	All use categories have been banned. Extremely hazardous and high risk to users for application. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986

Product Name **Tetrahydrophtalic anhydride**

C.A.S. number **85-43-8**

Scientific and common names, and synonyms

1,3-ISOBENZOFURANDIONE, 3A,4,7,7A-TETRAHYDRO-

Legislative or regulatory action

Legislative or regulation action

Product Name		Tetrahydrophthalic anhydride
C.A.S. number		85-43-8
Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jul 1991	Severely restricted. The substance is sensibilizing. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name		Tetrasul
C.A.S. number		2227-13-6
Scientific and common names, and synonyms		SULFIDE, P-CHLOROPHENYL 2,4,5-TRICHLOROPHENYL 1,2,4-TRICHLORO-5-((4-CHLOROPHENYL)THIO)BENZENE 4-CHLOROPHENYL 2,4,5-TRICHLOROPHENYLSULPHIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)

Product Name		Thallium and thallium compounds
C.A.S. number		7440-28-0
Scientific and common names, and synonyms		RAMOR THALLIUM

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1972	Thallium and its compounds are prohibited for use in the control of rodents. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, , ,)
DNK		Considered to be a severely restricted pesticide by authorities. Approved for very specific uses.
ISR		Approval has been withdrawn due to the large number of accidents with this compound, including attempts at suicide. The compound is highly toxic with no effective antidote or treatment for overexposure or poisoning.
NZL	1983	Under the Toxic Substances Act, thallium compounds are available to commercial users only and are labelled "dangerous poison".
PAN	Sep 1987	Import and use of thallium compounds is prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PHL		Banned for use and/or sale.
SLO	13 Jun 1997	Thallium compounds are banned for use in agriculture. These chemicals were banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	29 Oct 1968	Withdrawn from the market after discussions between the Product Control Board and the importers because of its high acute toxicity. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 29 Oct 1968)

Legislative or regulation action

Product Name **Thallium and thallium compounds**

C.A.S. number **7440-28-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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TUR		Withdrawn from use.
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Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 182, , 1996

Product Name **Thallium sulphate**

C.A.S. number **10031-59-1**

Scientific and common names, and synonyms

SULFURIC ACID THALLIUM SALT

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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BLZ		Thallium sulphate is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use.
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(Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)

DEU	8 Aug 1982	Restricted to use in closed rooms only. Since 1974 use of cereal baits was allowed in the way of covered (sheltered) deposition. Highly toxic to warm-blooded animals. The action was taken to avoid poisoning of domestic and wild animals and to reduce danger to the environment (species conservation, heavy metal pollution).
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(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

FIN	1976	Thallium sulphate has been withdrawn from the market at the recommendation of the authorities because of its high acute toxicity.
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KOR	11 Jun 1986	Sale and use prohibited within the country. Reasons for the control action: the substance is harmful to human health and to the environment. (applies to thallium sulfate and is formulations).
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(Reference: (KROTS) Ordinance Relating to a Toxic Substance, , , 1986)

MEX	1982	Thallium sulphate is prohibited as an agricultural pesticide. Reasons for the control action: protection of health and the environment (because of its high toxicity, LD50: 25mg/kg).
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(Reference: (MEXMP) Manual de Plaguicidas Autorizados para, , ,)

PRT	1974	Pesticides based on this product have been banned on account of their toxicological/environmental effect.
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(Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)

USA	1972	All products containing thallium sulfate cancelled and suspended by the Environmental Protection Agency.
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(Reference: (PRNEN) Pesticide Registration Notice, 72-3, , 09 Mar 1972)

Product Name **Thallium(I) Sulfate**

C.A.S. number **7446-18-6**

Scientific and common names, and synonyms

SULFURIC ACID, DITHALLIUM(1+) SALT

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name	Thallium(I) Sulfate	
C.A.S. number	7446-18-6	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	Banned since 01.01.88 in all applications where food contact is possible. All uses banned as of 20.02.1992. The control action applies to all thallium compounds. High acute and chronic toxicity. Thallium is a cumulative poison with very high persistence in the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
BLZ	28 Dec 1985	The substance is banned for use. Too toxic to justify use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide (La sustancia esta prohibida para su uso, produccion e importacion como plaguicida). Because of its high toxicity the substance has cause an important number of cases of poisoning (Por su alta toxicidad, provoca gran numero de accidentes de envenamiento). (Reference: (CUBMSP) Ministro de Salud Publica, , , 1990)
DEU	1 Jun 1974	Severely restricted for use as plant protection product. Use still allowed in closed rooms (since 1974 use of cereal baits was allowed only in the way of covered (sheltered) deposition). Highly toxic against warm blooded animals; avoidance of poisoning of domestic and wild animals; dangers to the environment (species protection, heavy metal contamination). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	9 Aug 1991	Banned for production, import, use and sale of both thallium sulfate and preparations containing it. Action taken due to high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1968	Voluntarily withdrawn from the market. No remaining uses. Withdrawn due to its high acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	Pesticides for household and public health use containing thallium sulfate have been banned for importation, exportation, manufacture and handling. Possible effects of thallium sulfate on human beings or animals are considered to be too dangerous to justify its use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1 Mar 1972	The substance is banned for use. In 1965, use of thallium products was restricted to control insect and rodent pests in the household only by government personnel trained in the proper use and management of such products. These limits were imposed in order to prevent accidental poisoning and injury to the public. Based on concerns which came to light at a later date, EPA cancelled the registrations of all products containing thallium sulfate in March 1972. No remaining uses allowed. Thallium sulfate is a slow acting cumulative poison that can affect humans and other non-target species. It is acutely toxic when ingested and is a hazard to individuals exposed dermally. The danger to humans is increased by the tendency of thallium to be stored in the body and to build up critical levels by continued exposure so that permanent damage to vital organs or death may occur. In addition, thallium sulfate is persistent and was associated with numerous kills involving non-target species. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name	Thiabendazole
C.A.S. number	148-79-8
Scientific and common names, and synonyms	1H-BENZIMIDAZOLE, 2-(4-THIAZOLYL)-
Legislative or regulatory action	

Legislative or regulation action

Product Name			Thiabendazole
C.A.S. number			148-79-8
Country	Effective Date	Description of action taken Grounds for decision	
DNK	1 Jul 1995	All authorizations for products containing thiabendazole as an active substance have been withdrawn from the market in 1995 and a further use has been banned for outdoor use from 01 July 1995. Thiabendazole is today severely restricted and only indoor use of products containing thiabendazole as an active substance have been authorized. Thiabendazol is persistent in soil, with a half-life of 18-24 months in favourable laboratory conditions. In field tests the degradation period for half dosage is in the order of two years. Further, thiabendazol is very toxic to aquatic organisms, and is likely to seriously affect the earthworm population. By the intended application, the major part of the substance applied will ultimately end up on and around the potatoes, thus causing high thiabendazol concentrations in the soil around the potatoes and eventually also on released pees and other residues of seed potato. This may seriously affect for instance earthworm, which will typically stay close to the potatotuber to find food. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)	
NOR	1 Jan 1999	Thiabendazole is severely restricted. Considered a risk to soil dwelling and aquatic organisms due to its high toxicity and persistency. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)	
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)	
Product Name			Thidiazuron
C.A.S. number			51707-55-2
Scientific and common names, and synonyms			UREA, N-PHENYL-N'-1,2,3-THIADIAZOL-5-YL-
Legislative or regulative action			
Country	Effective Date	Description of action taken Grounds for decision	
BLZ	14 Jul 1990	Severely restricted. Use only in cotton. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)	
Product Name			Thiodicarb
C.A.S. number			59669-26-0
Scientific and common names, and synonyms			ETHANIMIDOTHIOIC ACID, N,N'-[THIOBIS[(METHYLIMINO)CARBONYLOXY]]BIS-, DIMETHYL ESTER
Legislative or regulative action			
Country	Effective Date	Description of action taken Grounds for decision	
BLZ	14 Jul 1990	Severely restricted. For use only in cotton. High toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)	
Product Name			Thiometon
C.A.S. number			640-15-3
Scientific and common names, and synonyms			BAY 23129

Legislative or regulation action

Product Name **Thiometon**

C.A.S. number **640-15-3**

Scientific and common names, and synonyms

COMPOUND M-81
 DITHIOMETHON
 DITHIOMETON (FRENCH)
 DITHIOPHOSPHATE DE O,O-DIMETHYLE ET DE S-(2-ETHYLTHIO-ETHYLE) (FRENCH)
 EKATIN
 EKATIN AEROSOL
 EKATIN ULV
 EKATINE-25
 ETHANETHIOL, 2-(ETHYLTHIO)-, S-ESTER WITH O,O-DIMETHYL PHOSPHORODITHIOATE
 INTRATION
 INTRATHION
 LUXISTELM
 M 81
 O,O-DIMETHYL S-(2-(ETHYLTHIO)ETHYL) PHOSPHORODITHIOATE
 O,O-DIMETHYL-S-(2-AETHYLTHIO-AETHYL)-DITHIO PHOSPHAT (GERMAN)
 O,O-DIMETHYL-S-(2-ETHYLMERCAPTOETHYL) DITHIOPHOSPHATE
 O,O-DIMETHYL-S-(2-ETHYLTHIO-ETHYL)-DITHIOFOSFAAT (DUTCH)
 O,O-DIMETHYL-S-2-ETHYLMERILAPTOETHYLESTER KYSELINY DITHIOFOSFORECNE (CZECH)
 O,O-DIMETIL-S-(ETILTIO-ETIL)-DITIOFOSFATO (ITALIAN)
 PHOSPHORODITHIOIC ACID, O,O-DIMETHYL S-(2-ETHYLTHIO)ETHYL ESTER
 S-(2-(ETHYLTHIO)ETHYL) O,O-DIMETHYLPHOSPHORODITHIONATE
 S-(2-(ETHYLTHIO)ETHYL)DIMETHYL PHOSPHOROTHIOLOTHIONATE
 SAN 230
 THIAMETON
 2-ETHYLTHIOETHYL O,O-DIMETHYL PHOSPHORODITHIOATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN		Intrathion is prohibited for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1978)
SUN		Pesticide currently banned for production and use. (Reference: (KGTXP) General Toxicology of Pesticides, , , 1981)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986

Product Name **Thionyl chloride**

C.A.S. number **7719-09-7**

Scientific and common names, and synonyms

THIONYL CHLORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	Thionyl Chloride is classified in categories 4 of Hazardous Substances Act where the production, import, export, and having in the possession is banned. Illicit use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Thionyl chloride**

C.A.S. number **7719-09-7**

Product Name **Thiophanate-methyl**

C.A.S. number **23564-05-8**

Scientific and common names, and synonyms

CARBAMIC ACID, [1,2-PHENYLENEBIS(IMINOCARBONOTHIOYL)]BIS-, DIMETHYLESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Jul 1997	Authorizations for products containing thiophanate-methyl as an active substance have been withdrawn from the market 31 December 1996 and a further use has been banned from 01 July 1997. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Thiophanate-methyl is assessed unacceptable persistent in soil and toxic for earthworms. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	25 Jun 1987	The substance is severely restricted for use as a pesticide. It was prohibited for use in home gardens due to the chemical relationship with benomyl and carbendazim. The use of the substance was severely restricted in 1988. Formulations containing thiophanate-methyl were reassigned to Class 1 - May only be used professionally by someone holding a special permit. Use is allowed only against fungi on winter cereals and ornamentals (one treatment only per crop with thiophanate-methyl or carbendazim). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Thiouracil**

C.A.S. number **141-90-2**

Scientific and common names, and synonyms

6-THIOURACIL
6-HYDROXY-2-MERCAPTOPYRIMIDINE
ANTAGOTHYROL
ANTAGOTHYROID
DERACIL
NOBILEN
TIOURACYL (POLISH)
TU
2-TU
2-MERCAPTO-4(1H)-PYRIMIDINONE
2-MERCAPTO-4-HYDROXYPYRIMIDINE
2-MERCAPTO-4-PYRIMIDINOL
2-MERCAPTO-4-PYRIMIDONE
2-MERCAPTOPYRIMID-4-ONE
2-THIO-1,3-PYRIMIDIN-4-ONE
2-THIO-6-OXYPYRIMIDINE
2,3-DIHYDRO-2-THIOXO-4(1H)-PYRIMIDINONE
2-THIOURACIL
4-PYRIMIDINOL, 2-MERCAPTO-
4-HYDROXY-2(1H)-PYRIMIDINETHIONE

Legislative or regulatory action

Legislative or regulation action

Product Name		Thiouracil
C.A.S. number		141-90-2
Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Jan 1983	It is prohibited to apply thiourazils, thioimidazoles and thiohydantoins in any way to soliped, cattle, swine, goat, sheep, rabbit, poultry and winged and furred game. Foodstuffs derived from animals which are treated despite this regulation may not be marketed. (Reference: (BGBL) Bundesgesetzblatt, IS.1135, , 1981)

Bibliographical references

IARC MONOGRAPH, 7, 85, 1974

Product Name		Thiram
C.A.S. number		137-26-8
Scientific and common names, and synonyms		ALPHA,ALPHA'-DITHIOBIS(DIMETHYLTHIO)FORMAMIDE ACCELERATOR THIURAM ACETO TETD ARASAN ARASAN 42-S ARASAN 70 ARASAN 75 ARASAN-M ARASAN-SF ARASAN-SF-X AULES AATACK BID(DIMETHYLTHIOCARBAMOYL) DISULPHIDE BIS(DIMETHYLTHIOCARBAMOYL) DISULFIDE BIS(DIMETHYL-THIOCARBAMOYL)-DISULFID (GERMAN) BID(DIMETHYLTHIOCARBAMYL) DISULFIDE BIS((DIMETHYLAMINO)CARBONOTHIOYL) DISULPHIDE CHIPCO THIRAM 75 CYURAM DS DISOLFURO DI TETRAMETILTIOURAME (ITALIAN) DISULFURE DE TETRAMETHYLTHIOURAME (FRENCH) EKAGOM T8 FERNASAN A FORMAMIDE, 1,1'-DITHIOBIS(N,N-DIMETHYLTHIO- FLO PRO T SEED PROTECTANT FERNIDE FERNACOL FAUTIRAM FERNASAN FERMIDE HERMAL HERMAT TMT HERYL HEXATHIR KREGASAN

Legislative or regulation action

Product Name **Thiram****C.A.S. number** **137-26-8****Scientific and common names, and synonyms**

METHYL TUADS
METHYL THIURAMDISULFIDE
MERCURAM
METHYL THIRAM
NORMERSAN
N,N'-(DITHIODICARBONOTHIOYL)BIS(N-METHYLMETHANAMINE)
N,N,N',N'-TETRAMETHYLTHIURAM DISULFIDE
N,N-TETRAMETHYLTHIURAM DISULPHIDE
NA 2771 (DOT)
NOBECUTAN
NOMERSAN
POLYRAM ULTRA
POMARSOL
POMARSOL FORTE
POMASOL
PURALIN
PANORAM 75
ROYAL TMTD
RCRA WASTE NUMBER U244
REZIFILM
SPOTRETE-F
SADOPLON
SQ 1489
SPOTRETE
THILLATE
TETRAPOM
TETRASIPTON
TETRATHIURAM DISULFIDE
TETRATHIURAM DISULPHIDE
TETRAMETHYLTHIURUM DISULPHIDE
THIMER
THIOSAN
THIOTEX
THIOTOX
TETRAMETHYLTHIURUM DISULFIDE
THIRAM B
TETRAMETHYLENETHIURAM DISULPHIDE
THIRAMAD
THIRAM 75
TETRAMETHYLDIURANE SULPHITE
THIOPEROXYDICARBONIC DIAMIDE $\{[(H_2N)C(S)]_2S_2\}$, TETRAMETHYL-
TERAMETHYL THIURAM DISULFIDE
TERSAN
TERSAN 75
TETRAMETHYL THIURANE DISULPHIDE
TETRAMETHYLTHIORAMDISULFIDE (DUTCH)

Legislative or regulation action

Product Name **Thiram**

C.A.S. number **137-26-8**

Scientific and common names, and synonyms

TETRAMETHYL-THIRAM DISULFID (GERMAN)
 TETRAMETHYLTHIURAN DISULPHIDE
 TETRAMETHYLTHIOCARBAMOYLDISULPHIDE
 TETRAMETHYLTHIURAM
 TETRAMETHYLTHIURAM BISULFIDE
 TETRAMETHYLTHIURAM BISULPHIDE
 TETRAMETHYLTHIURAM DISULFIDE
 TETRAMETHYLTHIURAM DISULPHIDE
 TETRAMETHYL THIURANE DISULFIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Aug 1998	Authorizations for products containing thiram as an active substance and which have to be sprayed out or for treatment of seed grains have been withdrawn from the market 31 December 1997 and a further use has been banned from 01 August 1998. Other uses are still allowed e.g. as a repellent. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. For products containing thiram as active ingredient and which have to be sprayed out it is assessed to be toxic to aquatic organisms and wild mammals. The products for treatment of seed grains are assessed to be hazardous to wild mammals and birds. These products are therefore seriously damaging the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 May 1990	Restricted for use near fish farm, waterways and lake because of its high fish toxicity. High toxicity to fish and shellfish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Thiram is severely restricted for use as a pesticide because it is gonadotoxic, embryotoxic, mutagenic, teratogenic, carcinogenic, impairs reproductive processes and is allergenic and goitrogenic. Cases of poisoning in workers and cancer of the neck of the uterus have been recorded. Use is strictly limited to treatment of seeds and seedlings. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)
SWE	1 Jan 1994	Banned for use as a pesticide. The effective date was postponed two years following a governmental decision in May 1992. This substance was suspended due to a combination of toxic effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 92, 37, 1988
 FAO PLANT PRODUCTION & PROTECTION PAPER, 93/1, 195, 1988
 FAO PLANT PRODUCTION & PROTECTION PAPER, 99, 46, 1989
 FAO PLANT PRODUCTION & PROTECTION PAPER, 100, 295, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 86, 1993

Product Name **Triadimenol**

C.A.S. number **55219-65-3**

Scientific and common names, and synonyms

1H-1,2,4-TRIAZOLE-1-ETHANOL, .BETA.-(4-CHLOROPHENOXY)-.ALPHA.-(1,1-DIMETHYLETHYL)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name **Triadimenol**

C.A.S. number **55219-65-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Mar 1993	Banned. (Reregistration denied.) Decision by the National Chemicals Inspectorate. Triadimenol is highly persistent. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Triazophos**

C.A.S. number **24017-47-8**

Scientific and common names, and synonyms

HOSTATHION

HOE 2960 OJ

HOE 2960

O,O-DIETHYL O-(1-PHENYL-111-1,2,4-TRIAZOL-3-YL)PHOSPHOROTHIOATE

PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(1-PHENYL-1H-1,2,4-TRIAZOL-3-YL) ESTER

TRIAZOFOSZ (HUNGARIAN)

1-PHENYL-3-(O,O-DIETHYL-THIONOPHOSPHORYL)-1,2,4-TRIAZOLE

1-PHENYL-1,2,4-TRIAZOLYL-3-(O,O-DIETHYLTHIONOPHOSPHATE)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 Feb 1981	Classified as "highly hazardous". Restricted for transportation, sale, storage, object of supply and use under the Agrochemicals Management Act. The use of this product is strictly prohibited to rice plant. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Triazophos is not approved for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 11, 89, 1991

FAO PLANT PRODUCTION & PROTECTION PAPER, 113/1(PART2), 301, 1992

FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 97, 1993

FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 112, 1993

FAO PLANT PRODUCTION & PROTECTION PAPER, 124, 813, 1993

Product Name **Tribufos**

C.A.S. number **78-48-8**

Scientific and common names, and synonyms

PHOSPHOROTRITHIOIC ACID, S,S,S-TRIBUTYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ANG	1 Aug 1990	Banned for use. The substance is banned for use for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUS	30 Jun 1997	Tribufos is banned. No uses remain. Tribufos has the potential to cause organophosphate-induced delayed neuropathy and hence poses an undue health risk to exposed workers.

Legislative or regulation action

Product Name **Tribufos**

C.A.S. number **78-48-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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(Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Tributyl phosphorotrithioite**

C.A.S. number **150-50-5**

Scientific and common names, and synonyms

BUTYPHOS
CHEMAGRO B-1776
DELEAF DEFOLIANT
EASY OFF-D
FOLEX
MERPHOS
PHOSPHOROTRITHIOUS ACID, TRIBUTYL ESTER
PHOSPHOROTRITHIOUS ACID, S,S,S-TRIBUTYL ESTER
S,S,S-TRIBUTYL TRITHIOPHOSPHITE
S,S,S-TRIBUTYL PHOSPHOROTRITHIOITE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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BLZ **14 Jul 1990** Severely restricted. Use on cotton only.

(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

SUN Prohibited for use as a pesticide because it is embryotoxic, teratogenic and can cause acute poisoning.

(Reference: (OSUMH) Order of the USSR Ministry of Health, , , 21 Mar 1986)

Product Name **Tributyltin oxide (TBTO)**

C.A.S. number **56-35-9**

Scientific and common names, and synonyms

DISTANNOXANE, HEXABUTYL-
TRIBUTYLtin BENZOATE, TRIBUTYLtin CHLORIDE, TRIBUTYLtin FLUORIDE, TRIBUTYLtin LINOLEATE, TRIBUTYLtin METHACRYLATE, TRIBUTYLtin NAPHTHENATE, TRIBUTYLtin OXIDE
TRIBUTYLtin NAPHTHENATE (4342-36-3)
TRIBUTYLtin METHACRYLATE (2155-70-6)
TRIBUTYLtin LINOLEATE (1983-10-4)
TRIBUTYLtin FLUORIDE (1461-22-9)
TRIBUTYLtin CHLORIDE (85409-17-2)
TRIBUTYLtin BENZOATE (24124-25-2)
TRIBUTYLtin OXIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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@EC **01 Jan 2003** The chemical is severely restricted. As from 1 January 2003, the use of tri-organostannic compounds is banned in all paints and products to prevent the fouling of all craft intended

Legislative or regulation action

Product Name **Tributyltin oxide (TBTO)**

C.A.S. number **56-35-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		for use in marine, coastal, estuarine and inland waterways and lakes, appliances and equipment used for fish or shellfish farming, and any totally or partially submerged appliance or equipment; and in industrial water treatment. After 1 January 2003, tri-organostannic compounds 1. May not be placed on the market for use as substances and constituents of preparations when acting as biocides in free association paint. 2. May not be placed on the market or used as substances and constituents of preparations which act as biocides to prevent the fouling by microorganisms, plants or animals of: (a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes: (b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming; © any totally or partly submerged appliance or equipment. 3. May not be used as substances and constituents of preparations intended for use in the treatment of industrial waters. All uses, including use as preservative for wood, not covered by the Directive 2002/62/EC remain allowed. In the risk assessment conducted for the European Commission, unacceptable health risks were identified in the following areas: - exposure to atmospheric TBT during the transfer of ingredients to the mixing vessel during anti-fouling paint manufacture; - ingestion of contaminated food (e.g. mussels) where TBT concentrations are high. Unacceptable environmental risks were also identified. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Trichlorfon**

C.A.S. number **52-68-6**

Scientific and common names, and synonyms

PHOSPHONIC ACID, (2,2,2-TRICHLORO-1-HYDROXYETHYL)-, DIMETHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
IDN	1 Oct 1991	Being permitted on its use for both commodity. Still allowed for use until 1996 only for recommended target crop as well as target pest. Use under the provision of supervision. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jun 1994	Banned for use as a pesticide. No remaining uses allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Trichloroacetic acid (TCA)**

C.A.S. number **76-03-9**

Scientific and common names, and synonyms

ACETIC ACID, TRICHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	1 Jan 1992	All uses of trichloroacetic acid are banned. High mobility in soil and therefore high potential for contamination of ground water and drinking water. Prolonged contact of the pesticide with the skin can result in chemical burns and dust is very irritating to the nose and throat. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

Legislative or regulation action

Product Name **Trichloroacetic acid (TCA)**

C.A.S. number **76-03-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jan 1990	TCA is banned for use as a pesticide. No remaining uses allowed. Action was taken because of mobility in soil, water solubility and persistence. Substances which are better from an ecotoxicological point of view were available (glyphosphate). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 63, 291, 1995

Product Name **Trichlorpyr**

C.A.S. number **55335-06-3**

Scientific and common names, and synonyms

ACETIC ACID, [(3,5,6-TRICHLORO-2-PYRIDINYL)OXY]-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jan 1981	Troichlorpyr is banned for use as a pesticide. No remaining uses allowed. The action was taken because: 1) The substance is more toxic for dogs than other species. 2) The plasma half-life is long, and kidney function is affected at very low doses. 3) Mutagenic effect in dominant lethal test. 4) Difficult to assess teratogenic potential because of effect of the adjuvans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Tridemorph**

C.A.S. number **24602-86-6**

Scientific and common names, and synonyms

BAS 2205-F
E-236
N-TRIDECYL-2,6-DIMETHYLMORPHOLINE
N-TRIDECYL-2,6-DIMETHYLMORPHOLIN (GERMAN)
2,6-DIMETHYL-4-TRIDECYLMORPHOLINE
4-TRIDECYL-2,6-DIMETHYLMORPHOLINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN	Aug 1988	Tridemorph is prohibited for use as a pesticide due to its embryotoxic and teratogenic potential. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 1977)

Product Name **Trifluralin**

C.A.S. number **1582-09-8**

Scientific and common names, and synonyms

BENZENAMINE, 2,6-DINITRO-N,N-DIPROPYL-4-(TRIFLUOROMETHYL)-

Legislative or regulatory action

Legislative or regulation action

Product Name		Trifluralin
C.A.S. number		1582-09-8
Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Aug 1998	Authorizations for products containing trifluralin as an active substance and which have to be used as a herbicide in rape, beans, vegetables and horticultures have been withdrawn from the market 31 December 1997 and a further use has been banned from 01 August 1998. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Trifluralin is assessed to be unacceptably persistent in soil and the products are therefore assessed to be harmful to the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	3 Mar 1988	The amount of NDPA (N-nitros-dipropylamine) contamination in technical product must not exceed 0.5ppm. Health risk and environmental impact. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	9 Aug 1991	Banned for production, import, use and sale of both this substance and preparations containing it. Products with lower concentration of N-Nitrosamine impurity than 0.5 ppm is permitted in agricultural chemicals. Action taken due to risks of mutagenic and carcinogenic effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	31 Dec 1993	Trifluralin is banned for use as a pesticide. No remaining uses allowed. Action taken because of persistence in soil and toxicity for aquatic organisms. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Mar 1990	Banned for use as a pesticide. No remaining uses allowed. This substance was suspended due to its persistence. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name		Triphenyltin
C.A.S. number		668-34-8
Scientific and common names, and synonyms		STANNYLUM, TRIPHENYL-
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	All use categories have been banned. Very low ADI and very risky to users for application (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name		Vamidothion
C.A.S. number		2275-23-2
Scientific and common names, and synonyms		PHOSPHOROTHIOIC ACID, O,O-DIMETHYL S-[2-[[1-METHYL-2-(METHYLAMINO)-2-OXOETHYL]THIO]ETHYL] ESTER PHOSPHOROTHIOIC ACID, O,O-DIMETHYL ESTER S-ESTER WITH 2-[(2-MERCAPTOETHYL)THIO]-N-METHYLPROPIONAMIDE
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
BLZ		Vamidothion is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)

Legislative or regulation action

Product Name **Vamidothion**

C.A.S. number **2275-23-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
IND	16 Oct 1975	Registration refused. Action taken due to its toxic nature. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 Jun 1991	Registration withdrawn for 40%Lq because of its high acute toxicity. High acute toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Vamidothion is prohibited for use as a pesticide because it is highly toxic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1986)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 72/1, , 1985
 FAO PLANT PRODUCTION & PROTECTION PAPER, 72/2, , 1985
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986
 FAO PLANT PRODUCTION & PROTECTION PAPER, 84, 41, 1987
 FAO PLANT PRODUCTION & PROTECTION PAPER, 86/1, 171, 1987
 FAO PLANT PRODUCTION & PROTECTION PAPER, 92, 40, 1988
 FAO PLANT PRODUCTION & PROTECTION PAPER, 93/2, 75, 1989
 FAO PLANT PRODUCTION & PROTECTION PAPER, 102, 60, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 409, 1990
 FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 97, 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 853, 1993

Product Name **Vinclozolin**

C.A.S. number **50471-44-8**

Scientific and common names, and synonyms

2,4-OXAZOLIDINEDIONE, 3-(3,5-DICHLOROPHENYL)-5-ETHENYL-5-METHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Aug 1998	Authorizations for products containing vinclozolin have been withdrawn from the market 31 December 1997 and a further use has been banned from 01 August 1998. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Vinclozolin is assessed to be harmful to reproduction in category 2 (rep., cat.2) harmful to the unborn child in category 2 (rep., cat.2), carcinogenic in category 3 (carc., cat.3) and to cause cataract (R48). The products are therefore assessed to cause serious harm to health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JOR	01 Jan 1993	The chemical is banned. It is prohibited to place on the market or use plant protection products containing Vinclozolin. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
NOR	1 Jan 1999	Vinclozolin is banned. No remaining uses allowed. Anti-androgenic properties, probably caused by binding to the androgen receptor. A likely reproductive toxin and teratogen. Other effects include hepatotoxicity, Leydig-cell hyperplasia (and progression to tumors), atrophy of accessory sex glands, atrophic uteri and lipidosis of the adrenal. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Vinyl chloride**

C.A.S. number **75-01-4**

Legislative or regulation action

Product Name **Vinyl chloride**

C.A.S. number **75-01-4**

Scientific and common names, and synonyms

ETHENE, CHLORO-

ETHYLENE, CHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	14 May 1974	Banned for use as a pesticide propellant. No remaining uses in agriculture. Action taken due to its carcinogenic properties. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1 Apr 1974	Vinyl Chloride (chloroethylene) is banned for use as a pesticide or in pesticidal products. Registration was cancelled for all pesticides containing vinyl chloride, whether as an active or inert ingredient, for uses in the home, food-handling establishments, hospitals, or enclosed areas in April 1974. Vinyl chloride is not allowed in any pesticidal product. Animal studies demonstrated carcinogenic effects of vinyl chloride in rats, mice and hamsters. Moreover, vinyl chloride was causally linked to angiosarcoma of the liver in workers who had close occupational contact with it. Vinyl chloride is also persistent in the air. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 7, 291, 1974

IARC MONOGRAPH, 19, 377, 1979

WHO FOOD ADD., 17, 320, 1982

IARC MONOGRAPH, SUPPL.4, 260, 1982

WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984

Product Name **Zinc phosphide**

C.A.S. number **1314-84-7**

Scientific and common names, and synonyms

PHOSPHURE DE ZINC (FRA)

TRIZINC DIPHOSPHIDE

ZINC PHOSPHIDE (ZN3P2)

ZINKPHOSPHID (DEU)

ZINKFOSFIDE (NLD)

ZINCO (FOSFURO DI) (ITA)

ZINC (PHOSPHURE DE) (FRA)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ		Zinc phosphide is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
CHN	5 Jun 1982	The following uses of zinc phosphide are prohibited: 1) on vegetables, tea, fruit trees and herbs; 2) against insects harmful to health of humans and animals; 3) for rat control except when formulated as a rodenticide. These measures were taken because zinc phosphide is a highly toxic substance and its use is harmful to human health. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), 4,)
CYP	21 Dec 1987	Withdrawn by the manufacturer. No remaining uses allowed. Health risks and hazards associated with its use due to its high acute toxicity; highly toxic to non-target species (animals, birds).

Legislative or regulation action

Product Name **Zinc phosphide**

C.A.S. number **1314-84-7**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1987)
DEU	8 Aug 1982	Severely restricted for use as plant protection product. Use still allowed in baits; outside forests only in covered baits. Toxic to warm blooded animals and man; danger to wild mammals and birds; to avoid endangering birds by secondary poisoning. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1980	The substance is banned for use as a pesticide. No remaining uses are allowed. Action was taken for health and environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIY	1 Jan 1991	Zinc phosphide is banned. No remaining uses allowed. Control action is based on the information received from FAO. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 95, 39, 1989

Product Name **Zineb**

C.A.S. number **12122-67-7**

Scientific and common names, and synonyms

ZINC, [[1,2-ETHANEDIYLBIS(CARBAMODITHIOATO)](2)-]

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
KOR	1 Jan 1990	Registration withdrawn because of its potential carcinogenicity. Risk of carcinogenic effect to humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAK	1 Jan 1992	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Zinophos**

C.A.S. number **297-97-2**

Scientific and common names, and synonyms

AMERICAN CYANAMID 18133
AC 18133
CL 18133
CYNEM
DIETHYL O-2-PYRAZINYL PHOSPHOROTHIONATE
ENT 18133
ENT 25,580
ETHYL PYRAZINYL PHOSPHOROTHIOATE
EXPERIMENTAL NEMATOCIDE 18,333
NEMATOCIDE
NEMAPHOS
NEMAFOS
O,O-DIAETHYL-O-(2-PYRAZINYL)-THIONOPHOSPHAT (GERMAN)

Legislative or regulation action

Product Name **Zinophos**

C.A.S. number **297-97-2**

Scientific and common names, and synonyms

O,O-DIETHYL-O-(PYRAZIN-2YL)-MONOTHIOPHOSPHAT (GERMAN)
 O,O-DIETHYL O,2-PYRAZINYL PHOSPHOROTHIOATE
 O,O-DIETHYL O-2-PYRAZINLY PHOSPHOTHIONATE
 O,O-DIETHYL O-PYRAZINYL THIOPHOSPHATE
 PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-PYRAZINYL ESTER
 PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-2-PYRAZINYL ESTER
 PYRAZINOL, O-ESTER WITH O,O-DIETHYL PHOSPHOROTHIOATE
 RCRA WASTE NUMBER PO-40
 THIONAZIN

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	The substance is banned for use. Superseded compound. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Zinophos is not approved for use as a pesticide due to its high toxicity. (Reference: (OSUMH) Order of the USSR Ministry of Health, , ,)

Product Name **Ziram**

C.A.S. number **137-30-4**

Scientific and common names, and synonyms

AAVOLEX
 AAZIRA
 ACCELERATOR L
 ACETO ZDED
 ACETO ZDMD
 ALCOBAM ZM
 AMYL ZIMATE
 ANTENE
 AAPROTECT
 BIS(N,N-DIMETIL-DITOCARBAMMATO) DI ZINCO (ITALIAN)
 BIS-DIMETHYLDITHIOCARBAMATE DE ZINC (FRENCH)
 BIS(DIMETHYLDITHIOCARBAMATO)ZINC
 BIS(DIMETHYLCARBAMODITHIOATO-S,S')ZINC
 CARBAZINC
 CIRAM
 CORONA CORZATE
 COROZATE
 CUMAN
 CUMAN L
 CYMATE
 CARBAMIC ACID, DIMETHYLDITHIO-ZINC SALT (2:1)
 DIMETHYLCARBAMODITHIOIC ACID, ZINC COMPLEX
 DIMETHYLDITHIOCARBAMIC ACID, ZINC SALT
 DRUPINA 90
 DIMETHYLCARBAMODITHIOIC ACID, ZINC SALT

Legislative or regulation action

Product Name **Ziram****C.A.S. number** **137-30-4****Scientific and common names, and synonyms**

DIMETHYLDITHIOCARBAMATE ZINC SALT
ENT 988
EPTAC 1
FUCLASIN
FUCLASIN ULTRA
FUKLASIN
FUNGOSTOP
HEXAZIR
HERMAT ZDM
KARBAM WHITE
MOLURAME
METHAZATE
METHYL ZIMATE
METHYL ZINEB
METHYL ZIRAM
MEXENE
MEZENE
MILBAM
MYCRONIL
METHASAN
MILBAN
NCI-C50442
ORCHARD BRAND ZIRAM
POMARSOL Z FORTE
PRODARAM
RHODIACID
SOXINAL PZ
SOXINOL PZ
TRICARBAMIX Z
TRISCABOL
TSIMAT
TSIRAM (RUSSIAN)
USAF P-2
VULCACURE
VULKACITE L
VANCIDE MZ-96
VULKACIT L
VULCACURE ZM
ZINK-N,N-DIMETHYL-DITHIOCARBAMAT) (GERMAN)
ZINKCARBAMATE
ZIRAM TECHNICAL
ZIRAME
ZIRAMVIS
ZIRASAN 90
ZIRBERK
ZIREX 90

Legislative or regulation action

Product Name **Ziram**

C.A.S. number **137-30-4**

Scientific and common names, and synonyms

ZIRIDE
ZIRTHANE
ZC
ZINK-BIS(N,N-DIMETHYL-DITHIOCARBAMAT) (GERMAN)
ZIRASAN
ZINK-BIS(N,N-DIMETHYL-DITHIOCARBAMAAT) (DUTCH)
ZINCMATE
ZINCE BIS(DIMETHYLDITHIOCARBAMOYL)SULPHIDE
ZINC N,N-DIMETHYLDITHIOCARBAMATE
ZINC DIMETHYLDITHIOCARBAMATE
ZINC BIS(DIMETHYLTHIOCARBAMOYL)DISULFIDE
ZINC BIS(DIMETHYLDITHIOCARBAMATE)
ZIMATE
ZERLATE
ZINC, BIS(DIMETHYLCARBAMODITHIOATO-S,S'), (T-4)-
ZARLATE
Z-C SPRAY
Z 75
ZHMATE, METHYL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK	1 Jul 1997	The authorizations for products containing Ziram as an active substance have been withdrawn from the market in 31 December 1996 and a further use has been banned from 01 July 1997. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. Ziram is assessed to cause risk for severe eye damage, the product is therefore assessed to be harmful to health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Ziram is prohibited for use as a pesticide because it is mutagenic, teratogenic and carcinogenic. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1978)

Product Name **alpha-HCH**

C.A.S. number **319-84-6**

Scientific and common names, and synonyms

ALPHA-LINDANE
ALPHA-HEXACHLOROCYCLOHEXANE
ALPHA-HEXACHLORANE
ALPHA-HEXACHLORAN
ALPHA-BHC
ALPHA-BENZENEHEXACHLORIDE
ALPHA-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
BENZENE HEXACHLORIDE-ALPHA-ISOMER
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, ALPHA ISOMER
CYCLOHEXANE, ALPHA-1,2,3,4,5,6-HEXACHLORO
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, ALPHA

Legislative or regulation action

Product Name **alpha-HCH**

C.A.S. number **319-84-6**

Scientific and common names, and synonyms

1-ALPHA,2-ALPHA,3-BETA,4-ALPHA,5-BETA,6-BETA-HEXACHLOROCYCLOHEXANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	2 Oct 1980	Prohibited for manufacturing, importation, formulation, commerce and use. (Applies to all isomers except gamma-HCH). (Reference: (ALEYE) Argentinian Legislation, Ley, 22289, ,)
BEL		Banned in accordance with EEC-Directive 79/117.
CYP	Dec 1980	Registration of pesticides containing this active ingredient has been withdrawn by the Pest Control Products Board. It may be a health and environmental hazard due to persistence and accumulation of residues in the fatty tissue of humans and animals.
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
DNK		Banned in accordance with EEC-Directive 79/117.
HUN	Jan 1968	Pesticides containing this substance have been withdrawn from the market and their use banned due to experimental data showing HCH residues in the fatty tissue of humans and domestic animals. Other chlorinated hydrocarbon pesticides have been banned or severely restricted since 1968.
IND		Banned for use in agriculture.
NZL		This product has been voluntarily withdrawn from the market.
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
THA	6 Mar 1980	Importation (only means of distribution in the country) of all HCH products except lindane has been prohibited. All HCH products are persistent in the environment and only gamma isomer is capable of effective control of insects and acarids. Notification issued by the 1st Toxic Substance Committee Meeting/1980 under the Poisonous Article Act No.2 (1973). (Reference: (ONEBT) Office of the National Environment Board, , , 1980)
USA	Jul 1978	The Environmental Protection Agency has ruled that any product containing other than the gamma-isomer of HCH may not be manufactured, sold or distributed for use. All manufacturers have either amended their non-gamma HCH formulations or cancelled their registrations for these products, thereby eliminating from the market the alpha- and beta- HCH isomers, which are established oncogens. (Reference: (FEREAC) Federal Register, 43, 31432, 1978)
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)

Bibliographical references

IAIRC MONOGRAPH, 5, 47, 1974

Legislative or regulation action

Product Name **alpha-HCH**

C.A.S. number **319-84-6**

IARC MONOGRAPH, 20, 195, 1979
IARC MONOGRAPH, SUPPL.4, 133, 1982

Product Name **alpha-Naphthylthiourea (ANTU)**

C.A.S. number **86-88-4**

Scientific and common names, and synonyms

ALPHA-NAPHTHYLTHIOUREA
ALPHA-NAPHTHYLTHIOCARBAMIDE
ALPHA-NAPHTHOTHIGUREA
ANTU
N-(1-NAPHTHYL)-2-THIOUREA
THIOUREA, 1-NAPHTHALENYL-
UREA, 1-(1-NAPHTHYL)-2-THIO
1-NAPHTHYL-THIOHARNSTOFF (DEU)
1-NAPHTHYL THIOUREA
1-NAPHTHYL THIGUREE (FRA)
1-NAFTYLTHIOUREUM (NLD)
1-NAFTIL-TIOUREA (ITA)
1-(1-NAPHTHYL)-2-THIOUREA

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ		ANTU is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
GBR	1966	Withdrawal of rodenticidal uses because of evidence that ANTU and its impurities (1-naphthylamine and 2-naphthylamine) were potential carcinogens. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 191, , 1967)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it. Action taken due to risks of mutagenic and carcinogenic effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL		Voluntarily withdrawn from the market.
PHL		Banned for use and/or sale.

Bibliographical references

IARC MONOGRAPH, 30, 347, 1983

Product Name **beta-HCH**

C.A.S. number **319-85-7**

Scientific and common names, and synonyms

BETA-LINDANE
BETA-ISOMER
BETA-HEXACHLOROCYCLOHEXANE
BETA-HEXACHLOROBENZENE
BETA-BHC
BETA-BENZENEHEXACHLORIDE

Legislative or regulation action

Product Name **beta-HCH**

C.A.S. number **319-85-7**

Scientific and common names, and synonyms

BETA-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
 CYCLOHEXANE, BETA-1,2,3,4,5,6-HEXACHLORO
 CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, TRANS
 CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, BETA
 CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (BETA-ISOMER)
 TRANS-ALPHA-BENZENEHEXACHLORIDE
 1-ALPHA,2-BETA,3-ALPHA,4-BETA,5-ALPHA,6-BETA-HEXACHLOROCYCLOHEXANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	2 Oct 1980	Prohibited for manufacturing, importation, formulation, commerce and use. (Applies to all isomers except gamma-HCH). (Reference: (ALEYE) Argentinian Legislation, Ley, 22289, ,)
BEL		Banned in accordance with EEC-Directive 79/117.
BGR		Banned for use in agriculture.
CYP	Dec 1980	Registration of pesticides containing this active ingredient has been withdrawn by the Pest Control Products Board. It may be a health and environmental hazard due to persistence and accumulation of residues in the fatty tissue of humans and animals.
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
DNK		Banned in accordance with EEC-Directive 79/117.
HUN	Jan 1968	Pesticides containing this substance have been withdrawn from the market and their use banned due to experimental data showing HCH residues in the fatty tissue of humans and domestic animals. Other chlorinated hydrocarbon pesticides have been banned or severely restricted since 1968.
NZL		This product has been voluntarily withdrawn from the market.
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
THA	6 Mar 1980	Importation (only means of distribution in the country) of all HCH products except lindane has been prohibited. All HCH products are persistent in the environment and only gamma isomer is capable of effective control of insects and acarids. Notification issued by the 1st Toxic Substance Committee Meeting/1980 under the Poisonous Article Act No.2 (1973). (Reference: (ONEBT) Office of the National Environment Board, , , 1980)
USA	Jul 1978	The Environmental Protection Agency has ruled that any product containing other than the gamma-isomer of HCH may not be manufactured, sold or distributed for use. All manufacturers have either amended their non-gamma HCH formulations or cancelled their registrations for these products, thereby eliminating from the market the alpha- and beta- HCH isomers, which are established oncogens. (Reference: (FEREAC) Federal Register, 43, 31432, 1978)
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of atta sexdens and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the

Legislative or regulation action

Product Name **beta-HCH**

C.A.S. number **319-85-7**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)

Bibliographical references

IARC MONOGRAPH, 20, 195, 1979
IARC MONOGRAPH, SUPPL.4, 133, 1982

Product Name **delta-HCH**

C.A.S. number **319-86-8**

Scientific and common names, and synonyms

CYCLOHEXANE, DELTA-1,2,3,4,5,6-HEXACHLORO
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, DELTA-ISOMER
DELTA-LINDANE
DELTA-HEXACHLOROCYCLOHEXANE
DELTA-BHC
DELTA-BENZENEHEXACHLORIDE
DELTA-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
DELTA-(AEEEEEE)-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
1-ALPHA,2-ALPHA,3-ALPHA,4-BETA,5-ALPHA,6-BETA-HEXACHLOROCYCLOHEXANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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ARG	2 Oct 1980	Prohibited for manufacturing, importation, formulation, commerce and use. (Applies to all isomers except gamma-HCH). (Reference: (ALEYE) Argentinian Legislation, Ley, 22289, ,)
BGR		Banned for use in agriculture.
CYP	Dec 1980	Registration of pesticides containing this active ingredient has been withdrawn by the Pest Control Products Board. It may be a health and environmental hazard due to persistence and accumulation of residues in the fatty tissue of humans and animals.
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBl) Bundesgesetzblatt, IS.140, , 1982)
NZL		This product has been voluntarily withdrawn from the market.
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
TGO	1977	No longer used in agriculture. This product is chemically very stable with cumulative action. Sometimes fraudulently used for protection of stored cereal. (Granaries and grain). (Reference: (MINAR) Ministère de l'Aménagement Rural, , ,)
THA	6 Mar 1980	Importation (only means of distribution in the country) of all HCH products except lindane has been prohibited. All HCH products are persistent in the environment and only gamma isomer is capable of effective control of insects and acarids. Notification issued by the 1st Toxic Substance Committee Meeting/1980 under the Poisonous Article Act No.2 (1973).

Legislative or regulation action

Product Name **delta-HCH**

C.A.S. number **319-86-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	Jul 1978	(Reference: (ONEBT) Office of the National Environment Board, , , 1980) The Environmental Protection Agency has ruled that any product containing other than the gamma-isomer of HCH may not be manufactured, sold or distributed for use. All manufacturers have either amended their non-gamma HCH formulations or cancelled their registrations for these products, thereby eliminating from the market the alpha- and beta- HCH isomers, which are established oncogens. (Reference: (FEREAC) Federal Register, 43, 31432, 1978)

Bibliographical references

IARC MONOGRAPH, 20, 195, 1979
IARC MONOGRAPH, SUPPL.4, 133, 1982

Product Name **gamma-HCH (Lindane) ***

C.A.S. number **58-89-9**

Scientific and common names, and synonyms

BENZENE HEXACHLORIDE-GAMMA-ISOMER
BENZENE HEXACHLORIDE, GAMMA
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1.ALPHA.,2.ALPHA.,3.BETA.,4.ALPHA.,5.ALPHA.,6.BETA.)-
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO- (1ALPHA,2ALPHA,3BETA,4ALPHA, 5ALPHA,6BETA)-
GAMMA-HEXACHLOROCYCLOHEXANE
GAMMA-HEXACHLOROBENZENE
GAMMA-HEXACHLORAN
GAMMA-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
GAMMA BENZENE HEXACHLORIDE
HEXACHLORAN
LINDANE
1-ALPHA,2-ALPHA,3-BETA,4-ALPHA,5-ALPHA,6-BETA-HEXACHLOROCYCLOHEXANE
1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE,GAMMA-ISOMER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	20 Dec 1971	Prohibited for use in the cultivation, commerce and industrial processing of tobacco. (Reference: (ADISS) Argentinian Legislation, Disposición, 80, , 1971)
ARG	1 Jun 1972	Prohibited as antiweevil agent on seeds and their products intended for human and animal consumption. (Reference: (ADISS) Argentinian Legislation, Disposición, 47, , 1972)
AUS	21 Dec 1987	Importation of the chemical is prohibited unless specifically approved by the Government. Uses controlling pasture cockchafer, grain weevils and moths in mills and around silos, grain pests in seeds for planting, some aphids in roses and cabbages, pests in cocoa, thrips in Gladiolus, wireworms in tobacco, ants, fleas, crickets and grass hoppers have been discontinued. (Dates vary from State to State). Use is still allowed in control of white grub in pineapple. The persistence of the chemical makes it environmentally unacceptable. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , 1986)
AUT	20 Feb 1992	This substance is severely restricted for use. It is solely permitted for use as a seed dressing against soil pests for crop farming applications as a minor part of the previously

Legislative or regulation action

Product Name		gamma-HCH (Lindane) *
C.A.S. number		58-89-9
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		allowed uses. Major uses i.e. trunk poisoning against bark beetles and bioaccumulation in the food chain and in human tissues. Lindane is suspected to have carcinogenic properties. There is evidence that HCH-isomers act as a tumor promoter previously initiated by other chemicals. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BEL		Prohibited according to EEC Directive 79/117. Agricultural use restricted to treatment of ground or seeds to combat ground insects.
BGR		Banned for use in agriculture.
BLZ		Lindane is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)
BRA	12 May 1998	The chemical is severely restricted. Use as wood preservative allowed under conditions established by Federal Body of Environment, Agriculture and Health. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CAN		Some restrictions have been made in the use of this product. The product is currently used only as a seed dressing for soil treatments on a limited number of crops, and for certain livestock and structural uses. 36 products registered including domestic, commercial and manufacturing use products. Data supporting some uses were inadequate by modern standards, also technical advances made some uses obsolete. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHN	5 Jun 1982	It is prohibited to use BHC on fruit trees, vegetables, tea, herbs, tobacco, coffee, pepper. BHC is a highly restricted persistent pesticide. Its use is harmful to human health and is therefore severely restricted. (Reference: (CHNRE) Ministry of Public Health, (82)A-(A), No.4,)
COL	11 Oct 1991	WP and EC formulations are banned for use. (Se prohibieron las formulaciones WP y EC porque permitian su aplicación al follaje de cultivos comestibles.) EC and WP formulations permitted non-recommended application on leaves of edible cultures. (Las formulaciones EC y WP permitian su aplicación no recomendada al follaje de los cultivos comestibles.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CYP	12 Dec 1987	Severely restricted pesticide. Only formulations of Lindane containing less than 20% of gamma-HCH in gasoline or paints are registered for the protection of wood (control of termites and other insects). This use constitutes about 10% of all previously allowed uses. Risk associated with human health and the contamination of the environment, due to its persistence and accumulation of residues in mammalian tissues. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1987)
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
DMA		Severely restricted pesticide. (Reference: (DMAPC) Pesticide Control Board, , , 1986)
DNK	1 Jul 1995	The authorization for the product containing lindane as an active substance has been withdrawn from the market in 1995 and a further use of products containing lindane as an active ingredient has been banned from 01 July 1995. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization

Legislative or regulation action

Product Name **gamma-HCH (Lindane) ***

C.A.S. number **58-89-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		are today given for other purposes. In oxygen-rich conditions in the soil, the persistence of lindane is not acceptable, with half-lives ranging from 42 to 980 days. In deoxidized conditions half-lives are assessed to be 37 days. Since lindane is not mobile, it will normally occur in the oxygen-rich upper soil layers. Lindane evaporates easily and thus spreads to non-agricultural areas. Moreover, lindane may easily accumulate in living animals. Lindane is very toxic to birds, and risk assessments indicate that it may be dangerous for birds to swallow dressed rape seed. Lindane is also very toxic to aquatic organisms. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
FIJ	1 Jan 1986	Restricted to licensed users from timber treatment only. Environmental concerns. Undesirable health effects under given socio-economic conditions. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	30 Jun 1988	Total ban for use as a pesticide. Reasons for the control action: High risk to the environment and human health. (Reference: (FINPB) Decision of the Pesticide Board, , , 25 Nov 1987)
GAM	17 Feb 1997	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
HUN	24 Jul 2000	Lindane (gamma - HCH) is banned for all agricultural use. No uses remain. The bioaccumulative effect and the permanent presence of γ-HCH in human adipose tissue in risk to the population. Risk of potential carcinogenicity. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
IDN	1 Jul 1985	No longer permitted to register. No remaining use allowed. Substance may induce adverse effect to environment and human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1956	Approved for use in agriculture only for winter grains, legumes and vegetables for the control of locusts. Licenses for use in pediculosis and scabies treatment and in household sprays revoked in 1982. Restrictions in use due to the compound's environmental persistence and the possibility of adverse toxicological effects.
JPN	Dec 1971	Banned for sale as a pesticide.
KOR	11 Jun 1986	Sale and use prohibited within the country. Reasons for the control action: its use is harmful to human health (its potential carcinogenicity) and to environment. (applies to lindane and its formulations). (Reference: (KROTS) Ordinance Relating to a Toxic Substance, , , 1986)
KWT	1 Jan 1980	The substance is banned for use. No remaining uses are allowed. Action was taken for health and environmental reasons, belongs to organochloride group. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LCA	1 Jan 1987	Lindane is not allowed for use as a pesticide. Registration was refused. High residual effects in soil or water. (Reference: (LCAPPA) Plant Protection Act, , , 1975)
LKA	1 Aug 1986	Lindane is a severely restricted pesticide. All crop uses are banned. Use in shampoos allowed if approved by the Cosmetic Devices and Drugs Committee. All regulatory decisions have been made on the basis of published toxicological and exotoxicological data.

Legislative or regulation action

Product Name		gamma-HCH (Lindane) *
C.A.S. number		58-89-9
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1986)
MAR	19 Mar 1984	Banned for use in agriculture since 1984. (Interdit en agriculture depuis 1984.) All uses banned, except for treatment of seeds of cereals, leguminous plants, beets, textile plants, market-garden plants and oil seeds. (Toute utilisation dudit pesticide est interdite à l'exception du traitement des semences des céréales, de légumineuses, de betteraves, de plantes textiles, maraichères et oleagineuses.) High toxicity, persistence in the environment and bioaccumulation of residues in the food chain. (Toxicité élevée, persistance dans l'environnement et accumulation des résidus dans la chaîne alimentaire.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MEX	25 Jul 1988	Agricultural use restricted to rice, barley, maize and wheat. Reasons for the control action: high toxicity, (LD50:76-200mg/kg). (Reference: (MEXRI) Registro Interno en la Dirección General de Sanidad y Protección Agropecuaria y Forestal SARH, , ,)
MYS	31 Dec 2001	The chemical is banned. Registration of all pesticide products containing lindane were withdrawn effective 31 December 2001. This means that products containing lindane can no longer be imported, manufactured and sold locally from that date onwards, and the Pesticides Board will no longer accept any application to register lindane in the country. Total withdrawal of all registrations of a pesticide is equivalent to a ban of such pesticide in the country. All uses, all formulations including technical form, are completely prohibited. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
NLD	1 Jan 1981	It is prohibited to sell, stock, store or use all pesticides containing HCH (99% gamma isomer) as active ingredient because of the persistence of its impurities (alpha-, beta-, delta- and epsilon-isomers of HCH which do not contribute to the activity of gamma-HCH) and the fact that its high bioconcentration factor leads to biomagnification in the food chain. Decision taken by the ministers responsible for the authorization of pesticides in the Netherlands (1979). (This decision was enforced by EEC Directive 79/117. Published in OJEC L33/39,8.2.1979.
NZL	1 Dec 1990	Withdrawal of all remaining products, registrations cancelled. No uses allowed. Environmental reasons. (Reference: (NZLPBM) Pesticides Board Minutes, , , 1988)
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2,3,4, ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
PHL	1983	Prohibited for import except in cases of emergency as determined by the authorities and in cases of direct importation to sugar plantations.
POL		Gradually withdrawn from agriculture and sanitary hygiene. (Reference: (POLIP) Instytut Przemysłu Organicznego, , , 1987)
SGP	Apr 1984	Importation and sale for local use is banned. This decision was taken to safeguard water sources. (Reference: (MINHS) Ministry of Health, , , 1983)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN	Aug 1988	Prohibited for use as a pesticide because it is highly cumulative (applies to mercur-genkan - a mixture of granosan M, lindane and hexachlorobenzene).

Legislative or regulation action

Product Name **gamma-HCH (Lindane) ***

C.A.S. number **58-89-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (OSUMH) Order of the USSR Ministry of Health, 123-5/699-23, , Nov 1981)
SUN		Not used in cattle industry.
SWE	31 Dec 1988	The substance is banned for use as a pesticide. It was severely restricted in 1978 to use only as a wood preservative. Last remaining use as a wood preservative was suspended 31.12.1988. No remaining uses allowed. Substance has suspected carcinogenic properties and persistence. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA		Cancellation of lindane-containing products for use in vaporizers or for indoor use in smoke fumigation devices. Cancellation of registrations and denial of applications for registration of lindane-containing products for all other uses unless labels contain given statements for each use. (See also: PR notice 69-9(1969); IF & R docket No. 19, FR 49,26282(1984)). (Reference: (FEREAC) Federal Register, 49, 48512, 1983)
VEN	1983	The preparation, import, export, storage, purchase, sale and distribution of organochlorine insecticides shall be permitted only when they are intended for the following uses: 1. control of vectors for medical reasons, provided their application is carried out by the Ministry of Health and Social Welfare or under its technical advice and supervision; 2. control of agricultural pests, provided that the situation is an emergency one and that their application is carried out or directed by the Ministry of Agriculture and Stockraising; 3. control of <i>atta sexdens</i> and other ants, exclusively with granulated formulations containing aldrin and chlordane and in applications going directly on to the soil; 4. control of termites in formulations containing aldrin and chlordane. Organochlorine compounds pollute the environment and, owing to the persistence of residues in foodstuffs of animal and vegetable origin, are a cause of concern for public health. (Reference: (GOVEN) Gaceta Oficial de la Republica de Venezuela, 247.720, , 1983)
YUG	1972	It was excluded from use in the storage of agricultural produce, on vegetables, tobacco, forage plants, grapevines, medicinal herbs in glasshouses and plastic houses. In addition, on the treated areas the following cannot be grown for at least two years: root vegetables, onions, potatoes, lettuce, cabbage, undehydrated forage plants, medicinal plants. For permitted uses it can be applied only once during the year. The aforementioned strict limitation does not apply to lindane for export. The severe restriction was imposed because it is persistent in soils and is not readily metabolized in plants and animals. Moreover, it adversely affects the biocenosis.

Bibliographical references

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IARC MONOGRAPH, 20, 195, 1979
FAO PLANT PRODUCTION & PROTECTION PAPER, 20 SUP., , 1979
IARC MONOGRAPH, SUPPL.4, 133, 1982
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
FAO PLANT PRODUCTION & PROTECTION PAPER, 99, 33, 1989
FAO PLANT PRODUCTION & PROTECTION PAPER, 100, 199, 1990
FAO PLANT PRODUCTION & PROTECTION PAPER, 100/2, 141, 1990
IPCS ENVIRONMENTAL HEALTH CRITERIA, 124, , 1991
IPCS HEALTH AND SAFETY GUIDE, 54, , 1991

Product Name **o-Dichlorobenzene**

C.A.S. number **95-50-1**

Scientific and common names, and synonyms

BENZENE, 1,2-DICHLORO-

BENZENE, O-DICHLORO-

Legislative or regulation action

Product Name **o-Dichlorobenzene**

C.A.S. number **95-50-1**

Scientific and common names, and synonyms

DCB

O-DICHLOROBENZOL

1,2-DICHLOROBENZENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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SWE	25 May 1984	Banned because of its persistent mutagenic effects on experimental animals. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 25 May 1984)
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Bibliographical references

IARC MONOGRAPH, 7, 231, 1974

IARC MONOGRAPH, 29, 213, 1982

IARC MONOGRAPH, SUPPL.4, 108, 1982

Product Name **p-Methoxybenzyl alcohol**

C.A.S. number **105-13-5**

Scientific and common names, and synonyms

BENZYL ALCOHOL, P-METHOXY-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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THA	2 May 1995	Pesticides for household and public health use containing this chemical have been banned for importation, exportation, manufacture and handling. Possible effects of the chemical on human beings or animals are considered to be too dangerous to justify its use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
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Product Name **(R)-2-(2,4-dichlorophenoxy)propanoic acid**

C.A.S. number **15165-67-0**

Scientific and common names, and synonyms

PROPANOIC ACID, 2-(2,4-DICHLOROPHENOXY)-, (R)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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DNK	1 Jul 1997	Authorizations for products containing dichlorprop-p as an active substance have been withdrawn from the market 31 December 1996 and a further use has been severely restricted from 1 July 1997. Only uses on specific grass fields are allowed (5-10% of former use). For other categories than agriculture a written authorization has to be obtained. No authorizations are today given for other purposes. Dichlorprop-p is assessed as a risk to cause groundwater pollution. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
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Product Name **0,0-Dimethyl s-Ethylmercaptoethyl thiophosphate**

C.A.S. number **919-86-8**

Scientific and common names, and synonyms

DEMETON_S-METILE (ITALIAN)

DIMETHYL S-(2-ETHTHIOETHYL)THIOPHOSPHATE

Legislative or regulation action

Product Name **0,0-Dimethyl s-Ethylmercaptoethyl thiophosphate**

C.A.S. number **919-86-8**

Scientific and common names, and synonyms

DURATOX
 DEMETON-S-METHYL
 ETHANETHIOL, 2(ETHYLTHIO)-,
 ISOMETASYSTOX
 ISOMETHYLSYSTOX
 METHYL-MERCAPTOFOS TEOLERY
 METAISOSYSTOX
 METASYSTOX (I)
 METASYSTOX (J)
 METASYSTOX FORTE
 METHYL DEMETON THIOESTER
 METHYL ISOSYSTOX
 O,O-DIMETHYL S-(2-(ETHYLTHIO)ETHYL)PHOSPHOROTHIOATE
 O,O-DIMETHYL S-(2-ETHYLTHIOETHYL)PHOSPHOROTHIOATE
 O,O-DIMETHYL S-(3-THIA-PENTYL)-MONOTHIOPHOSPHAT (GERMAN)
 O,O-DIMETHYL S-ETHYLMERCAPTOETHYL THIOPHOSPHATE
 O,O-DIMETHYL-S-(2-AETHYLTHIO-AETHYL)-MONOTHIOPHOSPHAT (GERMAN)
 O,O-DIMETHYL-S-(2-ETHYLTHIO-ETHYL)-MONOTHIOFOSFAAT (DUTCH)
 O,O-DIMETIL-S-(2-ETILTIO-ETIL)-MONOTIOFOSFATO (ITALIAN)
 O,O-DIMETHYL 2-ETHYLMERCAPTOETHYL THIOPHOSPHATE, THIOLO ISOMER
 PHOSPHOROTHIOIC ACID, S-[2-(ETHYLTHIO)ETHYL] O,O-DIMETHYL ESTER
 PHOSPHOROTHIOIC ACID, O,O-DIMETHYL S-(2-(ETHYLTHIO)ETHYL) ESTER
 S-(2-(ETHYLTHIO)ETHYL) DIMETHYL PHOSPHOROTHIOATE
 S-(2-(ETHYLTHIO)ETHYL) O,O-DIMETHYL THIOPHOSPHATE
 S-ESTER WITH O,O-DIMETHYL PHOSPHOROTHIOATE
 THIOPHOSPHATE DE O,O-DIMETHYLE ET DE S-2-ETHYLTHIO-ETHYLE (FRENCH)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
JPN		Designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. The use designated by Cabinet Order is limited to exterminating insects which are noxious to such plants as citrus fruits or ornamental plants or their bulbs.
KOR	25 Feb 1981	Classified as an "highly hazardous" and "restricted use" pesticide. Due to high toxicity to honey bee, the use of this product is prohibited during the blooming periods. The use of this product is strictly prohibited to rice plant. Pre-harvest intervals were established for the safe use of this product. High acute toxicity and high toxicity to honey bee. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 64, , 1986

Product Name **1,1,1-Trichloroethane**

C.A.S. number **71-55-6**

Scientific and common names, and synonyms

ETHANE, 1,1,1-TRICHLORO-

Legislative or regulatory action

Legislative or regulation action

Product Name		1,1,1-Trichloroethane
C.A.S. number		71-55-6
Country	Effective Date	Description of action taken Grounds for decision
SLO	13 Jun 1997	Methyl Chloroform is banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		1,1,2,2-Tetrachloroethane
C.A.S. number		79-34-5
Scientific and common names, and synonyms		ETHANE, 1,1,2,2-TETRACHLORO- ETHANE, 1,1,2,2-TETRACHLORO-
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
GBR	1969	Agricultural, horticultural and home garden uses as an insecticide withdrawn because of the acute (narcotic) and chronic (liver damage) hazard to humans. (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 739/740, , 1970)
Bibliographical references		
IARC MONOGRAPH, 20, 477, 1979		
Product Name		1,2-Dibromo-3-Chloropropane (DBCP)
C.A.S. number		96-12-8
Scientific and common names, and synonyms		DIBROMOCHLOROPROPANE DBCP NEMERGON PROPANE, 1,2-DIBROMO-3-CHLORO- PROPANE, 1,2-DIBROMO-3-CHLORO- (1,2-DIBROMO-3-CHLOROPROPANE) 1-CLORO-2,3-DIBROMOPROPANO 1-CHLORO-2,3-DIBROMOPROPANE 1,2-DIBROOM-3-CHLOORPROPAAN (NLD) 1,2-DIBROMO-3-CLORO-PROPANO (ITA) 1,2-DIBROM-3-CHLOR-PROPAN (DEU) 3-CHLORO-1,2-DIBROMOPROPANE
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
ARG	2 Oct 1980	Prohibited for production, importation, formulation, commerce and use. (Reference: (ALEYE) Argentinian Legislation, Ley, 22289, ,)
AUS	1 Jan 1978	Products were withdrawn from sale by industry (Nemagon in 1978, Fumazone in 1979). No remaining uses allowed. Carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUT	20 Feb 1992	All uses banned. Carcinogenic and mutagenic effects in experimental animals. It is

Legislative or regulation action

Product Name		1,2-Dibromo-3-Chloropropane (DBCP)
C.A.S. number		96-12-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		suspected to cause negative effects in the human spermatogenesis. 97th Ordinance on Prohibition of Dangerous Substances in Plant Protection Products (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BEL	8 Aug 1978	Withdrawn from market.
BLZ	17 Sep 1988	The substance is banned for use. Mutagenic, potential carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CAN	1977	This product has been discontinued. The registrant took steps to withdraw the product from the market when preliminary results in feeding studies suggested carcinogenicity.
CHN	1 Sep 1986	DBCP has been banned for registration, sale and use as pesticide. No remaining uses are allowed. DBCP is highly toxic as well as mutagenic and carcinogenic. Its use will produce severely harmful effects to human health. (Reference: (CHNBPR) Bulletin of Pesticide Registration, , ,)
COL	Feb 1982	Prohibition of import, manufacture and sale of all pesticides for agricultural use containing DBCP. The Ministry of Health has cited community health risks associated with this compound, including carcinogenic potential and sterility. (Reference: (RNCOL) Resolution, 243, , 08 Feb 1982)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide (La sustancia esta prohibida para su uso, production e importacion como plaguicida). This pesticide is highly toxic and poses a risk of human male sterility (Este plaguicida presenta alta toxicidad y riesgos asociados con esterilidad masculina en el hombre). (Reference: (CUBMSP) Ministro de Salud Publica, , , 28 Dec 1990)
CYP	5 Nov 1977	Banned for all use as a pesticide. Registration has been withdrawn by the Pest Control Products Board. No remaining uses allowed. Action taken due to potential health risks. This product may cause cancer and male sterility. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1982)
DMA		Severely restricted pesticide. (Reference: (DMAPC) Pesticide Control Board, , , 1986)
DNK		Withdrawn from use and not formulated as a pesticide or manufactured in the country.
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
FIN	1978	Withdrawn from the market by the importer at the recommendation of authorities. This decision was based on the known carcinogenic risks of the substance.
GTM	Oct 1981	Registration of this product is not permitted.
IDN	1 Nov 1977	No longer permitted to use. Definitely banned out for use. Induces adverse effects to human health due to its application. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	25 Jul 1989	Banned. Action taken owing to carcinogenic potential and inducement of male sterility. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1979	Withdrawn by the manufacturer and license cancelled. This compound poses a danger of sterility to male employees during the manufacturing process, and possible deleterious effects among applicators of the finished product.
JPN	Feb 1980	Voluntarily withdrawn by the manufacturers.
KEN	22 Apr 1985	Total ban as a pesticide. Banning was due to the heavy risks associated with the pesticide, especially to small-scale farmers and risk of contracting cancer.

Legislative or regulation action

Product Name		1,2-Dibromo-3-Chloropropane (DBCP)
C.A.S. number		96-12-8
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (KENPC) Decision of the Pest Control Products Board PCPB/CONF/1, , , 1985)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both DBCP and preparations containing it. Action taken due to risks of mutagenic and carcinogenic effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1980	Banned for use as a pesticide. No remaining uses allowed. Action was taken because better and safer alternative is available. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LKA		DBCP was not available even prior to legislation. Registrations will not be permitted to safeguard applicators from deleterious effects. The control action is based on reports of sterility in male workers in manufacturing factories. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MEX	1986	DBCP is prohibited as an agricultural pesticide. Reasons for the control action: protection of health and the environment (potentially dangerous as a carcinogen and mutagen). (Reference: (MEXRI) Registro Interno en la Dirección General de Sanidad y Protección Agropecuaria y Forestal SARH, , ,)
NLD	1 Nov 1978	It is prohibited to sell, stock, store or use all pesticides containing DBCP as active ingredient. Prohibition is based on: 1) the reported higher incidence of sterility amongst male workers (applicators); 2) the fact that there is sufficient evidence that this pesticide is carcinogenic in mice and rats. Although no human (epidemiological) data are available, it is reasonable to regard DBCP as if it presented a carcinogenic risk to humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	1 Nov 1978	It is prohibited to sell, stock, store or use all pesticides containing alachlor as an active ingredient. (Note: The industry concerned has appealed against the control action to the Netherlands Trade and Industry Appeals Tribunal. This appeal however does not suspend the control action until the judgement of the Appeals Tribunal.) Reasons for the control action: 1) persistence in the soil; 2) pollution of groundwater; 3) carcinogenicity of alachlor or one of the metabolites. (Reference: (NLDDC) Ministerial Order Decree of the Ministry of Agriculture and Fisheries, J7699, , 10 Dec 1986)
NZL	1 May 1987	Withdrawal of all remaining products, registrations cancelled. No uses allowed. Human health reasons (possible carcinogen). (Reference: (NZLPBM) Pesticides Board Minutes, , , 1987)
PAK		Registration withdrawn due to the risk of carcinogenic effects.
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)
PHL		Banned for use and/or sale.
SUN		Prohibited for use as a pesticide because of gonadotoxic effects (confirmed in humans). (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 30 Mar 1978)
SWE	1 Jan 1985	Carcinogenic substance. It is not permitted to manufacture, use or handle the substance. (Reference: (AFS) Arbetarskyddsstyrelsens Författningssamling, 1984:5, 41, 1984)
THA	09 May 2000	The chemical is banned. Banned for import, production, having in possession and use as agricultural pesticide. All formulations and uses were prohibited by the final regulatory action. Possible carcinogenic to humans. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Legislative or regulation action

Product Name 1,2-Dibromo-3-Chloropropane (DBCP)

C.A.S. number 96-12-8

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		All registered uses cancelled by the Environmental Protection Agency in 1979. Use on pineapples in Hawaii was permitted to continue but only under specified conditions. DBCP has been found to be a potential carcinogen and mutagen, and a cause of sterility in humans. In March 1981 the manufacturer voluntarily cancelled its registration except for use on pineapples in Hawaii. In January 1985 a Federal register notice announcing an intent to cancel the use of DBCP in Hawaii was published. (Reference: (FEREAC) Federal Register, 50, 1122, 1985)

Bibliographical references

IARC MONOGRAPH, 15, 139, 1977
IARC MONOGRAPH, 20, 83, 1979

Product Name 1,2-Dichloropropane

C.A.S. number 78-87-5

Scientific and common names, and synonyms

PROPANE, 1,2-DICHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS	1 May 1988	Withdrawn from sale by industry. No remaining uses allowed. No clear evidence of carcinogenicity, but always used in conjunction with 1,3-dichloropropane, a known carcinogen in rodents, as a soil fumigant. (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, , , 1986)
AUT	20 Feb 1992	The substance was voluntarily withdrawn by manufacturer (Shell) in April 1991. From 20.02.1992 all uses are banned. Carcinogenic properties (skin and appendages tumors in experimental animals). (Reference: (AUTFLG) Federal Law Gazette, No. 97, , , 1992)

Product Name 1,3-dichloropropane

C.A.S. number 142-28-9

Scientific and common names, and synonyms

PROPANE, 1,3-DICHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name 1,3-Dichloropropene

C.A.S. number 542-75-6

Scientific and common names, and synonyms

1-PROPENE, 1,3-DICHLORO-

Legislative or regulatory action

Legislative or regulation action

Product Name		1,3-Dichloropropene
C.A.S. number		542-75-6
Country	Effective Date	Description of action taken Grounds for decision
AUS	1 May 1988	Withdrawn by industry. No remaining uses allowed. Mutagen, carcinogenic in rats and mice, probable human carcinogen. (Reference: (AUSDPS) Drugs Poisons Scheduling Committee, 41, , 1986)
AUT	20 Feb 1992	All uses banned. Suspected mutagenic and carcinogenic properties and high mobility in soils. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BLZ	28 Dec 1985	The substance is banned for use. Mixed with a suspected carcinogen (CC14); an environmental pollutant. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DEU	29 Mar 1991	Totally banned for use as plant protection product. Suspected to have cancerogenic effects; high leachability (risk of ground and surface water contamination). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 Jun 1991	Registration withdrawn because of its potential carcinogenicity. Risk of carcinogenic effect on humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LKA	1 Jan 1990	Dichloropropene is banned for use as a pesticide. No remaining uses allowed. The control action was taken due to undesirable health effects, suspected oncogenicity, which may occur under local socio-economic conditions where injection applicators are rarely used. RP/VIII/B19 of 01.01.90.

Product Name		1,4-dichlorobenzene
C.A.S. number		106-46-7
Scientific and common names, and synonyms		BENZENE, 1,4-DICHLORO-
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jun 1989	1,4-dichlorobenzene is banned for use as a pesticide. No remaining uses allowed. The substance was suspended due to suspected carcinogenicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name		2-(thiocyanomethylthio) benzothiazole
C.A.S. number		21564-17-0
Scientific and common names, and synonyms		THIOCYANIC ACID, (2-BENZOTHAZOLYLTHIO)METHYL ESTER
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
KOR	1 May 1990	TCMTB is restricted for use near fish farm, waterways and lake because of its high fish toxicity. High toxicity to fish and shellfish. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name		2,3,4,5-Tetrachlorophenol
C.A.S. number		4901-51-3

Legislative or regulation action

Product Name **2,3,4,5-Tetrachlorophenol**

C.A.S. number **4901-51-3**

Scientific and common names, and synonyms

PHENOL, 2,3,4,5-TETRACHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1 Sep 1986	The manufacture, supply, import and use of the substance and of products which contain the substance shall be prohibited. (Applies to 2,3,4,5/2,3,5,6/2,3,4,6-tetrachlorophenol, their salts and to tetrachlorophenoxy compounds). Reasons for the control action: long persistency, high toxicity for aquatic organisms, extremely toxic impurities. (Reference: (CHEOS) Ordonnance sur les Substances Dangereuses pour l'Environnement (OSUBST), , , 09 Sep 1986)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)

Bibliographical references

IARC MONOGRAPH, 41, , 1986

Product Name **2,3,4,6-Tetrachlorophenol**

C.A.S. number **58-90-2**

Scientific and common names, and synonyms

PHENOL, 2,3,4,6-TETRACHLORO-

PHENOL, 2,3,4,6-TETRACHLORO-

TCP

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	Banned since 01.01.88 in all applications where food contact is possible. All uses banned as of 20.02.1992. Carcinogenic (leukemia) and reproductive effects (abnormalities of the musculoskeletal system) in test animals. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
CHE	1 Sep 1988	Totally banned chemical: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited. (Applies to 2,3,4,5/2,3,5,6/2,3,4,5-tetrachlorophenol, its salts and tetrachlorophenoxy compounds). Long persistence, high toxicity for aquatic organisms, extremely toxic impurities, formation of highly toxic substances on thermolysis. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)

Bibliographical references

IARC MONOGRAPH, 41, , 1986

Product Name **2,3,5,6-Tetrachlorophenol**

C.A.S. number **935-95-5**

Scientific and common names, and synonyms

PHENOL, 2,3,5,6-TETRACHLORO-

Legislative or regulatory action

Legislative or regulation action

Product Name		2,3,5,6-Tetrachlorophenol
C.A.S. number		935-95-5
Country	Effective Date	Description of action taken Grounds for decision
CHE	1 Sep 1986	The manufacture, supply, import and use of the substance and of products which contain the substance shall be prohibited. (Applies to 2,3,4,5/2,3,5,6/2,3,4,6-tetrachlorophenol, their salts and to tetrachlorophenoxy compounds). Reasons for the control action: long persistency, high toxicity for aquatic organisms, extremely toxic impurities. (Reference: (CHEOS) Ordonnance sur les Substances Dangereuses pour l'Environnement (OSUBST), , , 09 Sep 1986)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
Bibliographical references		
IARC MONOGRAPH, 41, , 1986		
Product Name		2,4,5-T *
C.A.S. number		93-76-5
Scientific and common names, and synonyms		
ACETIC ACID, (2,4,5-TRICHLOROPHENOXY)-		
ACIDO (2,4,5-TRICLORO-FENOSI)-ACETICO (ITA)		
ACIDE 2,4,5-TRICLORO PHENOXYACETIQUE (FRA)		
ACETIC ACID (2,4,5-TRICHLOROPHENOXY)		
(2,4,5-TRICHLOR-PHENOXY) ESSIGSAEURE (DEU)		
(2,4,5-TRICHLOR-FENOXY)-AZIJNZUUR (NLD)		
2,4,5-TRICHLOROPHENOXYACETIC ACID		
2,3,4,8-TETRACHLORO DIBENZO-P-DIOXIN		
2,4,5-TRICHLORO PHENOXY-ACETIC ACID (IUPAC)		
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
ANG		The control action applies to the product U46 Brush Killer AV. Banned for use. The product is banned for toxicological reasons. Banned by WHO and FAO regulations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ARM	1989	Phenoxyacetic acid banned for use as an agricultural pesticide. Toxic to humans and environment. Increased incidence of tumorigenicity, especially soft tissue sarcoma due to 2,4,5-T exposure, and a reported increased incidence of liver cancer. Long persistence, bioaccumulation potential. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUT	20 Feb 1992	All uses banned. Highly toxic impurities (tetrachlorodibenzodioxine - TCDD, which is a potential human carcinogen) in commercial products. The pesticide has a potential for contamination of water and therefore provides a high risk to human health. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , , 1992)
BLZ	17 Sep 1988	The substance is banned for use. Oncogenicity, teratogenicity, carcinogenicity due to dioxin contamination. Environmental pollutant. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
BRA	01 Jan 2002	The chemical is severely restricted due to the toxicity and its impurity (TCDD). (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CAN	31 Dec 1985	In 1970, label revisions were required for this product and maximum TCDD residue limits

Legislative or regulation action

Product Name	2,4,5-T *	
C.A.S. number	93-76-5	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		were established in 1971. Limits were reduced in 1981. Registration of the last remaining products was discontinued by the registrant. All basic manufacturers had already ceased production and several jurisdictions had banned use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHE	1 Sep 1987	Totally banned chemical: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited (Applies to 2,4,5-trichlorophenoxyacetic acid its salts and 2,4,5-trichlorophenoxyacetyl compounds). Long persistence, highly toxic impurities, formation of highly toxic substances on thermolysis. (Reference: (CHEOE) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
CHN	1 May 1994	Banned for use as a pesticide. Has never been produced or used as a pesticide. Highly persistent. (Reference: (CHNREM) Regulations for Environmental Management on the First Import of chemicals and the import and Export, , , 1994)
COL	18 May 1979	Registration has been cancelled for herbicide products with this ingredient, by the Instituto Colombiano Agropecuario at the request of the Health Ministry, which has cited the probable carcinogenicity and mutagenicity of the dioxin contaminant. Export of surplus stocks was permitted after registration was cancelled with the requirement of foreign notification regarding domestic restrictions on use. (Reference: (RNCOL) Resolution, 749, , 18 May 1979)
CUB	28 Dec 1990	The substance is banned for use, production and import as a pesticide (La sustancia esta prohibida para su uso, produccion e importacion como plaguicida). The substance contains impurities (dioxins) with pronounced fetotoxic, teratogenic and mutagenic effects (Presenta en su composicion una cantidad de impurezas (dioxinas) con marcado efecto fetotoxico, teratogenico y mutagenico). (Reference: (CUBMSP) Ministro de Salud Publica, , , 1990)
CYP	22 Oct 1979	Banned for use as a pesticide. Registration has been withdrawn. No remaining uses allowed. Due to its containment dioxin and the possible toxic effects of this substance. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , , 1979)
DEU	1 Sep 1988	Totally banned for use as plant protection product. Impurities of polychlorinated dioxines (dioxines being suspected of having teratogenic effects). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK		Voluntarily withdrawn from the market by the manufacturer. No restrictions on export.
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
FIN	1978	Withdrawn from the market at the recommendation of authorities. This recommendation was based on the teratogenic and carcinogenic risks associated with its use.
GAM	17 Feb 1997	The chemical is banned. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
HUN	1992	2,4,5-T is banned for agricultural use. No uses remain. High risk to humans with teratogenic and carcinogenic effect. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
IDN	1 Jan 1982	Banned out from the distribution and registration. No remaining use allowed. Substance induces hazardous effects to treated plant and soil (environmental consideration) and may give harmful effect to human health.

Legislative or regulation action

Product Name	2,4,5-T *	
C.A.S. number	93-76-5	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	1 Oct 1973	Registration refused. Action taken due to reported effects of increase in human birth defects in Vietnam owing to its usage and its toxic and hazardous nature. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IRN	30 May 1975	The chemical is banned. Import and use of the substance and its salts as agricultural chemical are banned. (Reference: (IRNPCA) Resolution under the Pesticide Control Act of 1968, , , May 1975) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
ISR	1979	Concentration of dioxin limited to 0.01 ppm in the technical product, due to the possible toxic effects of this contaminant. Use restricted to the treatment of stumps and cut trees.
JPN		Suspended for use in April 1971. Voluntarily withdrawn from the market by the manufacturer in April 1975.
KEN	22 Apr 1985	Total ban as a pesticide. Reasons for banning: the herbicide is a health hazard to applicators due to its toxicity. (Reference: (KENPC) Decision of the Pest Control Products Board PCPB/CONF/1, , , 1985)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
LKA	17 Sep 1984	2,4,5-T is banned for use as a pesticide. Deregistered (Use of 2,4,5-T amine in rice was withdrawn prior to enforcement of legislation). No remaining uses allowed. Decision based on reports by U.S. scientists of oncogenic, mutagenic and fetotoxic effects due to dioxin impurities in the formation. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1984)
MEX	6 Jul 1986	Prohibited agricultural pesticide (may be used until existing stocks are exhausted). Reasons for the control action: protection of health and the environment (because of its high toxicity, LD50: 100mg/kg). (Reference: (MEXRI) Registro Interno en la Dirección General de Sanidad y Protección Agropecuaria y Forestal SARH, , ,)
MYS		2,4,5-T is not registered. Last registration expired on 1 June 1991. This means that products containing 2,4,5-T cannot be imported, manufactured and sold locally. Small quantities may be imported through Import Permit for research and educational purposes such as for use as analytical standards and other laboratory purposes. The substance is carcinogenic, mutagenic and teratogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	1 Jul 1978	It is prohibited to sell, stock, store or use all pesticides containing 2,4,5-T as an active ingredient. Pesticides containing 2,4,5-T are prohibited because of the presence of 2,3,7,8-TCDD in 2,4,5-T. 2,3,7,8-TCDD is a) very persistent in the environment; b) a substance with a high bioaccumulation potential; c) an extremely toxic chemical. (Reference: (NLDDC) Ministerial Order Decree of the Ministry of Agriculture and Fisheries, Nos. J3482, J3483, 20 Dec 1977)
NOR	1 Jan 1973	2,4,5-T is banned for use as a pesticide. No remaining uses allowed. Action taken for toxicological reasons, mainly because of dioxin contamination, and for environmental reasons, because of slower degradation in soil than other phenoxyacids. . (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAN	Sep 1987	Import and use prohibited for agriculture. (Reference: (PANPA) Listado de Productos Agro-químicos Prohibidos, , , 1987)

Legislative or regulation action

Product Name 2,4,5-T *

C.A.S. number 93-76-5

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
PAN	01 Jan 2002	The chemical is banned. All formulations are prohibited. (Reference: (PANADM) Agricultural Development Ministry, Decrees, Laws and Resolutions, 1,2, 3,4,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
PHL		Prohibited for import except in cases of emergency as determined by the authorities.
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		2,4,5-T is prohibited for use as a pesticide because it is teratogenic, carcinogenic and mutagenic and it contains traces of dibenzodioxins. (Reference: (OSUMH) Order of the USSR Ministry of Health, , , 1970)
SWE	28 Apr 1977	2,4,5-T is banned for use as a pesticide. No remaining uses allowed. The substance was suspended because of highly toxic impurities in commercial products. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	All use categories have been banned. Persistence in environment and high bioaccumulation potential. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
TUR		Banned for sale and/or use due to health risks and environmental impact.
USA	1984	Cancellations of registrations of products containing 2,4,5-T as an active ingredient. On the basis of available data, EPA has concluded that this chemical or its contaminant (TCDD) create serious health risks for humans. Several studies have revealed that they cause fetotoxic, teratogenic and carcinogenic effects in animals exposed to them. The occurrence of these effects indicated that humans exposed may also experience comparable effects. (Reference: (FEREAC) Federal Register, 48, 48434, 1983)
USA	1 Jan 1985	The sale, distribution, shipment and use of existing stocks of products containing the chemical and its salts are banned in the United States. Currently, the product is being consolidated and stored until disposal is carried out. No remaining uses allowed. The dioxin contaminant in 2,4,5-T, TCDD has been found to be carcinogenic, and to cause fetal abnormalities in laboratory mice. Additionally, 2,4,5-T may pose an unacceptable risk of reproductive effects to pesticide applicators. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
YUG	1972	Its use is severely restricted. It can be applied only in forestry, but not in forests in use for excursions or where recreational facilities exist. The forest treated must be conspicuously marked with a notice that 2,4,5-T has been applied and access to people is therefore prohibited. The technical concentrate, which is imported, must not contain more than 0.1 ppm dioxin.

Bibliographical references

IARC MONOGRAPH, 15, 273, 1977
FAO PLANT PRODUCTION & PROTECTION PAPER, 46, , 1982
IARC MONOGRAPH, 41, , 1986

Product Name 2,4,5-T, butyl ester

C.A.S. number 93-79-8

Scientific and common names, and synonyms

ACETIC ACID, (2,4,5-TRICHLOROPHENOXY)-, BUTYL ESTER

Legislative or regulation action

Product Name **2,4,5-T, butyl ester**

C.A.S. number **93-79-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	16 Oct 1990	Import, production, formulation, sale and use of products for agricultural use containing this active ingredient are banned. The National Register of Plant Protection will cancel the registrations of products for agricultural use containing this active ingredient. (Prohíbe la importación, fabricación, fraccionamiento, comercialización y uso de productos de aplicación agrícolas formulados a base de este principio activo. El Registro Nacional de Terapéutica Vegetal procederá a cancelar las inscripciones de todos los productos de uso agrícola formulados a base de este principio activo.) Protection of human health and environment. Toxicological risks. To avoid contamination of surface and ground water. (Protección de la salud humana y el medio ambiente. Riesgos toxicológicos. Evitar la contaminación de aguas superficiales y subterráneas.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **2,4,5-Trichlorophenol**

C.A.S. number **95-95-4**

Scientific and common names, and synonyms

PHENOL, 2,4,5-TRICHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	The substance is banned for use. Foetotoxicity and oncogenicity due to dioxin contamination. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	1 Jul 1984	It is prohibited to sell, stock, store or use all pesticides containing 2,4,5-trichlorophenol as active ingredient because of the presence of 2,3,7,8-TCDD in 2,4,5-trichlorophenol. 2,3,7,8-TCDD is a) very persistent in the environment; b) a substance with a high bioaccumulation potential; c) an extremely toxic chemical. Based on toxicological data, the ministers responsible for the authorization of pesticides in the Netherlands decided in 1984 not to extend the registration for application of 2,4,5-trichlorophenol. (Reference: (NLDDC) Ministerial Order Decree of the Ministry of Agriculture and Fisheries, , , 1984)
SLO	13 Jun 1997	Banned for use in agriculture. This chemical was banned from the use in agriculture due to the effect of its toxic properties on human health and the environment according to the opinion given by the Commission on Poisons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1 Jan 1987	The substance is banned for use. In 1978 cancellation action was initiated against the registration of most pesticide products containing 2,4,5-T and Silvex (2(2,4,5- trichloro-phenoxy)propionic acid). 2,4,5-TCP is used in the manufacture of these two substances. Most products containing 2,4,5-TCP were then voluntarily cancelled by the registrant. Remaining products registered for use as microbiocides, were cancelled by EPA in 1987. No remaining uses allowed. Laboratory studies performed on rats and mice indicated that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), which is formed during the production of 2,4,5-TCP, produces carcinogenic, teratogenic, and fetotoxic effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
IARC MONOGRAPH, 41, , 1986

Legislative or regulation action

Product Name **2,4,6-T**
C.A.S. number **575-89-3**
Scientific and common names, and synonyms
 (2,4,6-TRICHLOROPHENOXY) ACETIC ACID

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
IDN		Never been registered. Prohibited for all purposes. No evident of harmful effect but technically may help induce bad effect to human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **2,4-D**
C.A.S. number **94-75-7**
Scientific and common names, and synonyms
 ACETIC ACID, (2,4-DICHLOROPHENOXY)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	Severely restricted. Use allowed in pastures only. Action taken because of danger of damage by drift to other crops, livestock and environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DNK	1 Jul 1997	Authorizations for products containing 2,4-D as an active substance have been withdrawn from the market 31 December 1996, and a further use has been severely restricted from 1 July 1997. Only uses for specific grass fields are allowed (5-10% of former use.) For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. 2,4-D is assessed as a risk to cause groundwater pollution. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	11 Jun 1986	Production and use for aerial spraying, feedcrops and grass prohibited. Protection of health and environment (because of its potential carcinogenicity). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KWT	1 Jan 1975	Banned for use as a pesticide. No remaining uses allowed. Environmental reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NOR	1 Jan 2000	2,4-D is banned. No uses remain. 2,4-D is moderate acute toxic and irritating to eyes. May cause cancer - but not listed as a potential carcinogen. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
SWE	1 Jan 1991	The substance was voluntarily withdrawn from the market. The withdrawal was due to concerns raised by toxicological and epidemiological reports on its adverse health effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **2,4-DB**
C.A.S. number **94-82-6**
Scientific and common names, and synonyms
 BUTYRAC 118
 BUTOXON
 BUTOXONE
 BUTOXONE AMINE
 BUTYRAC

Legislative or regulation action

Product Name **2,4-DB**

C.A.S. number **94-82-6**

Scientific and common names, and synonyms

BUTANOIC ACID, 4-(2,4-DICHLOROPHENOXY)-
 BUTYRAC 200
 BUTYRAC ESTER
 BUTOXONE ESTER
 EMBUTOX
 EMBUTOX E
 EMBUTOX KLEAN-UP
 GAMMA-(2,4-DICHLOROPHENOXY)BUTYRIC ACID
 LEGUMEX D
 2,4-DM
 2,6-D BUTYRIC
 4-(2,4-DICHLOROPHENOXY)BUTYRIC ACID
 4(2,4-DB)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	The substance is banned for use. Implication with dioxin contamination, an environment pollutant and suspected carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
BLZ		2,4-DB is a prohibited pesticide. It shall not be brought into or used in Belize. Its possible effects on the environment, plants, animals or human beings are considered to be too dangerous to justify its use. (Reference: (BLZPC) Pesticides Control No., 32, 87, 1985)

Product Name **2,4-Dinitrophenol**

C.A.S. number **51-28-5**

Scientific and common names, and synonyms

ALPHA-DINITROPHENOL 2,4-DINITROBENZENE
 PHENOL, 2,4-DINITRO-
 1-HYDROXY-2,4-DINITROBENZENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	2 Apr 1985	It has been withdrawn from the market after mutual discussions between National Products Control Board and the importers. This was decided because of its high acute toxicity and special toxic effects. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 02 Apr 1985)

Product Name **2,4-DNP-Thiocyanate**

C.A.S. number **1594-56-5**

Scientific and common names, and synonyms

THIOCYANIC ACID, 2,4-DINITROPHENYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name	2,4-DNP-Thiocyanate
C.A.S. number	1594-56-5
AUT	20 Feb 1992
	Voluntarily withdrawn by manufacturers since October 1991. All uses banned as of 20.02.92. Suspected mutagenic potential (in vitro test have shown chromosomal and DNA related effects). (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

Product Name	2,4-DP
C.A.S. number	120-36-5
Scientific and common names, and synonyms	ALPHA-(2,4-DICHLOROPHENOXY) PROPIONIC ACID ACIDE 2-(2,4-DICHLORO-PHENOXY) PROPIONIQUE (FRENCH) ACIDO 2-(2,4-DICLORO-FENOSSI)-PROPIONICO (ITALIAN) BH 2,4-DP CORNOX RD CORNOX RK DESORMONE DICHLOROPROP DICHLORPROP HORMATOX HEDONAL DP HEDONAL KILDIP PROPANOIC ACID, 2-(2,4-DICHLOROPHENOXY)- POLYMONE POLYTOX POLYCLENE RD 406 SERITOX 50 U46 U46 DP-FLUID VISKO-RHAP WEEDONE 170 WEEDONE DP 2-(2,4-DICHLOR-FENOXY)-PROPIONZUUR (DUTCH) 2-(2,4-DP) 2-(2,4-DICHLOROPHENOXY) PROPIONIC ACID 2-(2,4-DICHLOR-PHENOXY)-PROPIONSÄURE (GERMAN)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	The substance is banned for use. Environment pollutant; implicated with dioxin contamination. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 41, , 1986

Product Name	2-Ethyl-1,3-hexanediol
C.A.S. number	94-96-2

Legislative or regulation action

Product Name **2-Ethyl-1,3-hexanediol**

C.A.S. number **94-96-2**

Scientific and common names, and synonyms

1,3-HEXANEDIOL, 2-ETHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	4 Oct 1991	The substance was voluntarily withdrawn by the registrants following the submittal of information to EPA indicating the potential of 2-ethyl-1,3-hexanediol to be associated with developmental toxicity. EPA ruled that distribution, sale and use of existing stocks be prohibited after Oct. 4, 1991. No remaining uses allowed. EPA has concerns about possible developmental risks associated with the use of this chemical by pregnant women on a study that linked birth defects in laboratory animals with exposure to 2-ethyl-1,3-hexanediol. EPA was in the process of examining the risks associated with exposure to 2-ethyl-1,3-hexanediol when the registrants voluntarily requested the cancellation of all products registrations. A No Observed Effect Level (NOEL) was established based on developmental effects data. It is not clear, however, whether typical application methods would keep human exposure satisfactorily below the NOEL. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **2-Methoxyethylmercury chloride**

C.A.S. number **123-88-6**

Scientific and common names, and synonyms

MERCURY, CHLORO(2-METHOXYETHYL)-

MERCURY, CHLORO(2-METHOXYETHYL)-

MEMC

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	17 Sep 1988	The substance is banned for use. Mercury compound; environmental pollution. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR	1 Oct 1984	Action applies to organomercury dips or steeps (includes ethylmercury phosphate, methoxyethylmercury chloride, phenylmercury catechol). Withdrawal of uses on bulbs and on seed potatoes. Permitted only for the treatment of sugarbeet seed (ethyl mercury phosphate only). Organomercury dips or steeps may not be used for any other purpose. In accordance with Council Directive 79/117/EEC, the use of mercury plant protection paints have been withdrawn where possible. The remaining use will be withdrawn when a suitable non-mercurial alternative is available. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PAK	1 Jan 1990	Prohibited. No remaining uses allowed. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	1 Jun 1981	All agricultural uses have been banned. Persistence in the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	Jun 1984	Prohibited for importation (only means of distribution in the country). It was used to control sugar-cane diseases. Residues of mercury persisted in sugar-cane waste and environment possibly causing danger to aquatic organisms. Notification issued by 1st Toxic Substance Committee Meeting, 1982 under the Poisonous Article Act No.2 (1973). (Reference: (ONEBT) Office of the National Environment Board, , , 1982)

Product Name **2-methyl-2-propanethiol**

C.A.S. number **75-66-1**

Legislative or regulation action

Product Name **2-methyl-2-propanethiol**

C.A.S. number **75-66-1**

Scientific and common names, and synonyms

2-PROPANETHIOL, 2-METHYL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	Products, which inhibit human functional system transiently in order to protect oneself or attack the others, containing this chemical have been banned for importation, exportation, manufacture and handling. A high risk to human health as a powerful counter irritant which may be abused when used in spray form. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **2-Thiohydantoin**

C.A.S. number **503-87-7**

Scientific and common names, and synonyms

USAF BE-25

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Jan 1983	It is prohibited to apply thiourazils, thioimidazoles and thiohydantoins in any way to soliped, cattle, swine, goat, sheep, rabbit, poultry and winged and furred game. Foodstuffs derived from animals which are treated despite this regulation may not be marketed. (Reference: (BGBL) Bundesgesetzblatt, IS.1135, , 1981)

Product Name **4,4'-diaminodiphenylmethane**

C.A.S. number **101-77-9**

Scientific and common names, and synonyms

BENZENAMINE, 4,4'-METHYLENEBIS-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jul 1991	Severely restricted. The substance is carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **4-bromo-2,5-dichlorophenol**

C.A.S. number **1940-42-7**

Scientific and common names, and synonyms

PHENOL, 4-BROMO-2,5-DICHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
IDN	1 May 1978	4-bromo-2,5-dichlorophenol and natrium-4-bromo-2,5-dichlorophenol are no longer registered. No remaining use of 4-bromo-2,5-dichlorophenol. Natrium-4-bromo-2,5-dichlorophenol is not allowed to extention use. 4-bromo-2,5-dichlorophenol induces harmful effect to worker who applied the chemical. Natrium-4-bromo-2,5-dichlorophenol induces harmful effect to human beings and other health concerned.

Legislative or regulation action

Product Name	4-bromo-2,5-dichlorophenol
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C.A.S. number	1940-42-7
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Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)		
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Legislative or regulation action

Product Name **Acetic anhydride**

C.A.S. number **108-24-7**

Scientific and common names, and synonyms

ANHYDRIDE ACETIC ACID
ACETYL OXIDE
ACETYL ETHER
ACETYL ANHYDRIDE
ACETIC OXIDE
ETHANOIC ANHYDRIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SGP	Oct 1982	Importation of this product is banned.

Product Name **Acetyl chloride**

C.A.S. number **75-36-5**

Scientific and common names, and synonyms

ACETIC CHLORIDE
ETHANOYL CHLORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SGP	Oct 1982	Importation of this product is banned.

Product Name **Antimony and antimony compounds**

C.A.S. number **7440-36-0**

Scientific and common names, and synonyms

ANTIMONY

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NZL	1983	Under the provisions of the Toxic Substances Act, this product is available to commercial users only and it must be labelled as a deadly poison.

Bibliographical references

IARC MONOGRAPH, 47, 291, 1989

Product Name **Arsenic and arsenic compounds**

C.A.S. number **7440-38-2**

Scientific and common names, and synonyms

ARSENIC

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH,

Legislative or regulation action

Product Name **Arsenic and arsenic compounds**

C.A.S. number **7440-38-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBl) Bundesgesetzblatt, IS.140, , 1982)
DEU	1 Oct 1982	Working materials which contain more than 0.3% (wt/wt) arsenic may not be used: 1. for cleaning of accessible containers and other narrow rooms; 2. in paints and coating agents; 3. in pesticides; 4. in manufacture of window glass and glass used for packing food; 5. in manufacture of leather, tobacco products, in textile finishing, and animal preparation; 6. in the production of enamel; 7. in cleaning and staining agents except stains of phosphoric acid; 8. in chemical (reductive) metal separation (refinement) for surface treatment; 9. in the manufacture of pyrotechnical objects; 10. in metal glues; 11. in preservatives, except wood preservatives for outdoor use. (Reference: (BGBl) Bundesgesetzblatt, IS.140, , 1982)
NZL	1983	The Toxic Substances Act has labelled arsenic a "dangerous poison" and has restricted its use to commercial users only.
USA	Aug 1968	The Environmental Protection Agency has ruled that for products with arsenic trioxide in excess of 1.5% and sodium arsenite in excess of 20%, labelling which bears directions for home use is unacceptable, and a warning against home use is required for products with acceptable directions for agricultural, commercial or industrial use. The following statements must appear in a prominent position: "Do not use or store in or around the home" and "Do not allow domestic animals to graze treated area". For wood preservative uses of arsenic, the Agency has issued an amended final decision allowing the registration of arsenic to continue under certain conditions. (Reference: (FEREAC) Federal Register, 51, 1334, 1986)

Bibliographical references

IARC MONOGRAPH, 1, 41, 1972
 IARC MONOGRAPH, 2, 48, 1973
 IARC MONOGRAPH, 23, 39, 1980
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 18, , 1981
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 24, , 1982
 IARC MONOGRAPH, SUPPL.4, 50, 1982
 WHO FOOD ADD., 18, 176, 1983
 WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
 WHO FOOD ADD., 24, 155, 1989
 IPCS HEALTH AND SAFETY GUIDE, 70, , 1992

Product Name **Asbestos (Crocidolite *)**

C.A.S. number **1332-21-4**

Scientific and common names, and synonyms

ASBESTOS FIBER
 AMORPHOUS CROCIDOLITE ASBESTOS
 AMIANTHUS
 AMOSITE (OBS.)
 ASBEST (GERMAN)
 ASBESTOS FIBRE
 ANTHOPHYLITE
 ANTHOPHYLLITE (17068-78-9)
 ASBESTOS, GRUNERITE
 AMPHIBOLE
 ACTINOLITE (77536-66-4)

Legislative or regulation action

Product Name **Asbestos (Crocidolite *)**

C.A.S. number **1332-21-4**

Scientific and common names, and synonyms

AMOSITE (12172-73-5)
 BLUE ASBESTOS
 CROCIDOLITE 12001-28-4)
 CHRYSOTILE (12001-29-5)
 CHRYSOTILE (MG₃H₂(SiO₄)₂.H₂O)
 FIBROUS GRUNERITE
 FIBROUS CROCIDOLITE ASBESTOS
 FIBROUS TREMOLITE
 GRUNERITE
 KROKYDOLITH
 MYSORITE
 METAXITE
 NCI C08991
 NCI C60253A
 SERPENTINE
 SERPENTINE CHRYSOTILE
 SERPENTINE
 TREMOLITE 77536-68-6)
 WHITE ASBESTOS

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1987	<p>Prohibition of application of asbestos by means of spraying. Measures for keeping the exposure of workers as low as reasonably practicable are recommended. Exposure shall in any case be kept below the following limit values (for 8-hour reference periods): a) For asbestos other than crocidolite: 1.00 fibres/cm³; b) For crocidolite: 0.50 fibres/cm³; c) For mixtures of crocidolite and other asbestos types the value should be calculated on basis of a) and b) taking the proportion of crocidolite into account. In case the limit values might be exceeded, measures to ensure the protection of the workers must be taken, in particular they must wear personal protective (including respiratory) equipment; and warning signs indicating that the limit values might be exceeded must be put up. Asbestos and asbestos-containing products should be removed as far as reasonably practicable before any demolition work. The workers and their representatives must be informed about the health risks, the existence of limit values, hygienic requirements and precautions to be taken. Specific requirements apply if the level of asbestos (for an 8-hour reference period) is equal to or greater than 0.25 fibres/cm³ and/or the cumulative dose is equal to or greater than 15.00 fibres/day. These requirements include: notification to the competent authority; monitoring; protective and hygienic measures; medical surveillance; recordkeeping (for 30 years).</p> <p>(Reference: (OJEC) Official Journal of the European Communities, L263, 25, 1983)</p>
@EC	31 Dec 1987	<p>The placing on the market and the use of products containing this fibre may be permitted only if the products bear a label in accordance with the provisions of Annex II of this directive. The placing on the market and the use of products containing the asbestos fibres chrysotile, amosite, anthophyllite, actinolite or tremolite shall be prohibited for: a) toys; b) materials or preparations intended to be applied by spraying; Member States may however allow on their territories bituminous compounds containing asbestos intended to be applied by spraying as vehicle undersealing for anti-corrosion protection; c) finished products which are retailed to the public in powder form; d) items for smoking such as tobacco pipes and cigarette holders; e) catalytic filters and insulation devices for incorporation in catalytic heaters using liquefied gas; f) paints and varnishes. The placing on the market and use of crocidolite fibre and of products containing it shall be prohibited. Exempted from the prohibition are products containing the fibre when they have been</p>

Legislative or regulation action

Product Name	Asbestos (Crocidolite *)	
C.A.S. number	1332-21-4	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
		manufactured and placed on the market or used before 1 January 1986. Also excluded from this prohibition are the following products including the fibre and semi-finished products essential to their manufacture: a) asbestos-cement pipes; b) acid and temperature-resisting seals, gaskets, gland packings and flexible compensators; c) torque converters. (Council directive 76/769/EEC - OJEC L262, 201, 1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
@EC	6 Aug 1999	Asbestos is banned. All forms of asbestos can cause lung cancer, mesothelioma and asbestosis; no threshold level of exposure can be identified below which asbestos does not pose carcinogenic risks. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUS	31 Dec 2003	The chemical is severely restricted. All new uses of chrysotile asbestos and goods containing chrysotile asbestos are banned in Australia from 31 December 2003 including the replacement of chrysotile asbestos products when replacement is necessary. It is illegal under the laws of each state and territory to store, sell, install or use any products containing chrysotile asbestos. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
BRA	01 Jun 1995	The chemical is banned. Trade, extraction, manufacture and utilization not allowed in order to protect human health. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,) (Reference: (BRALDA) ANVISA (Former Sanitary Surveillance Secretariat), , ,)
CAN	Apr 1980	Under the conditions of the Hazardous Products Act, it is prohibited to advertise, sell or import products that are composed of or contain actinolite, amosite, anthophyllite, chrysotile, crocidolite, cummingtonite, tremolite, or any other type of asbestos and that are: a) for use by a child in learning or play and made in such a way that asbestos may become separated from the products; b) for use in modelling or sculpture; c) dry-wall joint cements or compounds or spackling or patch compounds that are for use in construction, repairs or renovations, and made in such a way that airborne asbestos may become separated from the products; or d) for use to simulate ashes or embers. (Section 26 of Part I of the Schedule to the Hazardous Products Act).
CHL	12 Jul 2001	The chemical is severely restricted. Production, importation, distribution, sale and use of crocidolite and any material or product containing it is prohibited. Production, importation, distribution, sale and use of construction materials containing any type of asbestos is prohibited. Production, importation, distribution, sale and use of chrysotile, actinolite, amosite, anthophyllite, tremolite and any other type of asbestos, or mixture thereof, for any item, component or product that does not constitute a construction material is prohibited, with certain specific exceptions. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
CZE	01 Jan 1999	The chemical is severely restricted. Production, import, export and distribution of the substance is banned with exception of its production and import for research, scientific and analytic purposes in quantity less than 100 g per year from one producer or importer. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
ECU	01 May 2001	The chemical is banned. Prohibition for the importation, formulation, manufacturing and final disposal in the national territory of the substances: polychlorinated biphenyls, pentachlorophenol, crocidolite, polybrominated biphenols, polychlorinated terphenyls and tris (2,3-dibromopropyl) phosphate on the basis that they cause environmental pollution and have toxic effects against human health. All uses of crocidolite are banned. Breathing high levels of asbestos fibers for a long time may result in scarring of the lungs.

Legislative or regulation action

Product Name		Asbestos (Crocidolite *)
C.A.S. number		1332-21-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		which can lead to disability and death. At lower levels, breathing asbestos fibers may result in plaques in the pleural membranes, which can result in thickening of the pleural membrane and breathing difficulties. Asbestos is associated with the development of lung cancer and mesothelioma. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
FIN	1976	Use of the crocidolite form of asbestos has been banned by a Council of State Resolution. The National Board of Labor Protection may, in individual cases, give special permission for its use. (Reference: (FICSR) Council of State Resolution, 805/76, , ,)
GAM	18 May 1995	The chemical is severely restricted. The product is not currently used in The Gambia. All uses and importation are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	1 Jan 1986	Prohibition of asbestos spraying (= the application by spraying of any material containing asbestos to form a surface coating, not included is the application by spraying of any bituminous composition containing less than 10% by weight of asbestos to motor vehicles for the purpose of undersealing). Prohibition of asbestos insulation (= materials containing asbestos and used for thermal insulation or acoustic insulation, except asbestos cement or asbestos insulating board; any article of bitumen, plastic, resin or rubber; and film, foil, resin or rubber coated asbestos textiles, primarily used for fire protection), "Asbestos" means crocidolite, amosite, chrysotile, fibrous actinolite, fibrous anthophyllite, fibrous tremolite and any mixture containing any of those minerals. (Reference: (GBRSI) Statutory Instruments, 910, 1, 1985)
GBR	1 Jan 1986	The importation of crude, fibre, flake, powder or waste crocidolite or amosite is prohibited. The supply of crocidolite and amosite and products containing those minerals for use at work is prohibited. The use of crocidolite and amosite and products containing those minerals in the manufacture or repair of other products and at work (except for products which were in use before 1st January 1986 or activities in connection with the disposal of such products) are prohibited. (Reference: (GBRSI) Statutory Instruments, 910, 1, 1985)
HUN	01 Jan 2001	The chemical is banned. Crocidolite is carcinogenic in humans. Therefore all uses of crocidolite and its products are prohibited. Sufficient evidence of carcinogenicity to humans. Inhalation can cause fibrosis of the lung (asbestosis), bronchial carcinoma, mesothelioma of the pleura and peritoneum, and possibly cancers at other sites. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
JOR	04 May 1993	Anthophyllite is severely restricted except for those uses mentioned below. It is allowed to be used in the following applications namely: in ready-to-use asbestos-cement pipes and manufacturing such pipes for wastewater uses, thermal insulation and friction products: brake linings and clutch pads exposed to friction and temperature. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
JOR	04 May 1993	Amosite is banned and all its preparations are prohibited for import to Jordan. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
JOR	04 May 1993	Tremolite is severely restricted except for uses mentioned below. It is allowed to be used in the following applications namely: in ready-to-use asbestos-cement pipes and manufacturing such pipes for wastewater uses, thermal insulation and friction products: brake linings and clutch pads exposed to friction and temperature. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
LKA	1986	The import and sale is banned.

Legislative or regulation action

Product Name		Asbestos (Crocidolite *)
C.A.S. number		1332-21-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
MLT		Crocidolite asbestos is banned for use and/or sale as an ingredient or pure product.
NLD	1977	It is prohibited to sell and work on crocidolite blue asbestos for all purposes. For work on crocidolite applied before 1977 an exemption can be given. Reason for the control action: Asbestos is prohibited because it has shown to be carcinogenic in both humans and test animals; blue asbestos is considered to be a more potent carcinogen than white or brown asbestos. (Reference: (NLDSB) Netherlands Staatsblad, 269, , 01 Apr 1977)
NLD	1983	Selling of chrysotile and amosite has been forbidden unless the asbestos fibres are tightly fixed in the product. Reason for the control action: Asbestos is prohibited because it has shown to be carcinogenic in both humans and test animals; blue asbestos is considered to be a more potent carcinogen than white or brown asbestos. (Reference: (NLDSB) Netherlands Staatsblad, , , 18 July 1983)
NOR	1 Jan 1985	Use and other handling of asbestos and materials containing asbestos has been banned with certain exemptions. Mining species of rock containing up to 1% weight of asbestos is allowed. Removal and repair of old insulation can be done under certain conditions. Friction materials, packings and packing materials containing asbestos may be used if it is not feasible to use less harmful materials. The crocidolite form of asbestos has been totally banned.
NOR	16 Aug 1991	It is prohibited to import, manufacture or sell asbestos or any product containing asbestos, unless special dispensation is given. This also applies to work related use and handling of such materials. The action applies to Actinolite (13768-00-8), Anthophyllite (17068-78-9), Amosite (12172-73-5), Crocidolite (12001-28-4), Tremolite (14567-73-8) and Chrysotile (12001-29-5). Use of friction parts, baskets and fittings containing asbestos is still allowed, if it is impossible to manufacture or use less harmful materials. Other technical devices than those mentioned above, which contain asbestos or a product containing asbestos may be repaired using asbestos, if no other products containing less harmful materials can be used. Action taken because of malignant mesothelioma, pleural plaques, lung cancer, asbestosis. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1984	Under the Customs Act (1966) the importation of amosite and crocidolite in their fibrous state is prohibited.
POL	1 Jan 1988	Ban on application as filtering material in food industry. (Restrictive measures order of Ministry for Health and Social Welfare regarding the list of permitted additives and technical impurities in foodstuffs and stimulants of 18 October 1985). (Reference: (POLIP) Instytut Przemyslu Organicznego, , , 1987)
SWE	1 Jan 1982	Severely restricted. Asbestos is a collective name for the fibrous, crystalline silicate minerals chrysotile (white asbestos), amosite (brown asbestos), anthophyllite, tremolite and actinolite. (Action took effect 1982/1992.) Asbestos is carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)
SWE	1 Apr 1986	Asbestos and materials containing asbestos may not be used. Some exceptions are listed (the exceptions do not apply to crocidolite and materials containing crocidolite), e.g. it may be used after the National Board of Occupational Safety has given its permission. (Permission is given only when it is not possible to use a less harmful substance, and when precautions are taken against spreading dust containing asbestos). Brake linings and other friction materials which contain asbestos may be used as long as there are no other less harmful products available. Other technical devices which contain asbestos

Legislative or regulation action

Product Name		Asbestos (Crocidolite *)
C.A.S. number		1332-21-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		may be used if spreading of dust containing asbestos is prevented. Before any destruction and repair of buildings or technical devices involving asbestos, permission must be obtained from the "Work Inspectorate". The working place must be shielded and marked with warning signs: "Destruction - asbestos: access prohibited for unauthorized persons". Protective and sanitary equipment for workers is listed. Packagings which contain asbestos or materials containing asbestos shall be labelled: "The dust is dangerous when inhaled. Contains asbestos". Exposure to asbestos may cause an impaired lung function and may increase the risk for lung cancer, especially for smokers. Asbestos is also associated with mesotheliomas of the lungs and peritoneum. (Reference: (AFS) Arbetarskyddsstyrelsens Författningssamling, 2, 1, 1986)
THA	19 Oct 1983	Registration and manufacture of the blue asbestos or crocidolite form of asbestos have been prohibited. The fiber of the blue asbestos or crocidolite is longer and thinner than other types and could increase risks of developing asbestosis, mesothelioma and lung cancer. Notification issued by the Toxic Substance Committee Meeting under the Poisonous Article Act No.2 (1973). (Reference: (ONEBT) Office of the National Environment Board, , ,)
USA	16 Jan 1978	Patching compounds to which asbestos has been intentionally added in respirable free form are banned as hazardous products. (Reference: (CFRUS) Code of Federal Regulations, 16(1304), 276, 1982)
USA	27 Aug 1990	Severely restricted for use. 1) In 1971, EPA issued a national emission standard prohibiting installation/re-installation of insulating asbestos containing materials (molded and friable or wet applied and friable after drying), prohibiting spraying of more than 1% asbestos containing materials on buildings, structures, pipes and conduits and requiring notification to EPA at least 20 days before spraying of more than 1% asbestos material takes place. 2) In 1977, the Consumer Product Safety Commission banned consumer patching compounds containing respirable asbestos and artificial emberizing materials with asbestos. Labelling requirements were issued for household products which are likely to release asbestos fibres. 3) The Food and Drug Administration has also banned general-use garments containing asbestos (except garments for personal protection against thermal injury, which do not release asbestos fibres under use). 4) On 12.07.89, EPA issued a rule prohibiting, at staged intervals, the future manufacture, importation, processing and distribution in commerce of most asbestos-containing products and requiring labelling of such products while in commerce. Most of this rule has been vacated and remanded by a US Court of Appeals, but the rule still applies for new uses of asbestos, floor tile and flooring felt for which manufacture, importation or processing is initiated after 25.08.89 are banned as of 27.08.90. (new uses defined as those not listed in the rule). In addition, for the following products manufacture, importation and processing must cease by 27.08.90, if they were no longer in commerce when the rule was issued (EPA is seeking information on use status as of July 1989): asbestos cement (A/C) corrugated and flat sheet A/C shingle, asbestos clothing, asbestos flooring felt, asbestos pipeline wrap, asbestos roofing felt, asbestos commercial, corrugated, and specialty paper, asbestos rollboard and asbestos millboard. Those products not covered by the bans are allowed for use. The control action was based on a national review of scientific data. The human health effects of asbestos are well documented. It is a human carcinogen and is one of the most hazardous substances to which humans are exposed in both occupational and non-occupational settings. Asbestos fibers are associated with pulmonary fibrosis (asbestosis), lung cancer and mesothelioma. Gastrointestinal cancer and other cancers at extrathoracic sites, as well as other lung disorders and diseases, have also been associated with asbestos exposure. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA		Surfacing of roadways with tailings of or waste containing asbestos generated by specified processes (applies to asbestos including actinolite, amosite, anthophyllite, chrysotile, crocidolite and tremolite) is prohibited.

Legislative or regulation action

Product Name **Asbestos (Crocidolite *)**

C.A.S. number **1332-21-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		(Reference: (CFRUS) Code of Federal Regulations, 40(61), 519, 1981) In demolition/renovation operations of commercial buildings containing pipes/structures covered with asbestos as a friable material, the material must be adequately wet during stripping and remaining stages of the operations, and it is prohibited to drop or throw the material. (Alternatively exhaust ventilation/collection systems, from which visible emissions are prohibited, may be permitted in some cases). Reporting requirements are specified.
USA		(Reference: (CFRUS) Code of Federal Regulations, 40(61), 519, 1981) Non-sprayed friable insulating materials must not contain asbestos (applies to asbestos including actinolite, amosite, anthophyllite, chrysotile, crocidolite and tremolite). (Reference: (CFRUS) Code of Federal Regulations, 40(61), 522, 1981)

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IARC MONOGRAPH, 14, , 1977
WHO FOOD ADD., 13, 36, 1978
IARC MONOGRAPH, SUPPL.4, 52, 1982
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
IPCS ENVIRONMENTAL HEALTH CRITERIA, 53, , 1986

Product Name **Auramine**

C.A.S. number **492-80-8**

Scientific and common names, and synonyms

ANILINE, 4,4'-(IMIDOCARBONYL)BIS(N,N-DIMETHYL-
BENZENAMINE, 4,4'-CARBONIMIDOYLBIS[N,N-DIMETHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
GBR	9 Dec 1967	Controlled use. User to take all practicable steps to prevent the risk of inhaling, ingesting or otherwise absorbing the substances: storage in closed receptacle legibly marked. This measure was taken because of evidence that it acts as a depressant on the central nervous system; it is also implicated as a bladder cancer causing agent. (Reference: (GBRSI) Statutory Instruments, 36, , 1973)
ITA		Due to strong carcinogenic action on humans, this substance should not be detectable in the working environment even with the most sophisticated methods of determination. When they cannot be replaced, enclosed methods and adequate personnel protective equipment should be used.
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 1, 69, 1972
IARC MONOGRAPH, SUPPL.4, 53, 1982

Product Name **Benzalchloride**

C.A.S. number **98-87-3**

Legislative or regulation action

Product Name **Benzalchloride**

C.A.S. number **98-87-3**

Scientific and common names, and synonyms

ALPHA,ALPHA-DICHLOROTOLUENE
ALPHA,ALPHA-DICHLORO-TOLUENE
BENZENE, (DICHLOROMETHYL)-
BENZYLIDENE CHLORIDE
BENZYLENE CHLORIDE
BENZYL DICHLORIDE
BENZAL CHLORIDE
DICHLOROPHENYLMETHANE
(DICHLOROMETHYL)BENZENE
(DICHLOROMETHYL)-BENZENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1982	Severely restricted. Permissions granted in two cases in 1990 to handle 5-1000 g. The substance is carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Författningssamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 29, 65, 1982
IARC MONOGRAPH, SUPPL.4, 84, 1982

Product Name **Benzene**

C.A.S. number **71-43-2**

Scientific and common names, and synonyms

BENZENE
BENZOLE
BENZOL
CYCLOHEXATRIENE
COAL NAPHTHA
PYROBENZOL
PROBENZOLE
PHENYL HYDRIDE
PHENE
(6)ANNULENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1 Apr 1972	Severely restricted chemical: Use prohibited for any purpose whatsoever in products for public use (substances intended for private and commercial use) or in commercial products (substances intended for use in trade and industry). Prohibition does not apply to toluene and xylene with a maximum benzene content of 0.5% by volume. Carcinogen (Reference: (CHEOPT) Order Concerning Prohibited Toxic Substances, , , 1971)
CHL	10 May 1985	Use of benzene as a solvent, diluent or component in the manufacturing of products that

Legislative or regulation action

Product Name		Benzene
C.A.S. number		71-43-2
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		expose users to skin contact, ingestion or inhalation of its vapours is prohibited by Decree of the Ministry of Health. Reasons for the control action: Protection of public health. (Reference: (MINSO) Ministerio de Salud Decree No., 144, , 1985)
DEU	1 Oct 1980	Working materials which contain more than 1% (wt/wt) benzene may not be used: (1) as cleaning and degreasing agents; (2) as solvents and diluents for paints, polishes, varnishes, stains, impregnating agents, glues, insulating materials etc. (BGBL I.S.1071,1536/2159,1980, and BGBL I.S. 2069,1980 as last amended by the reference given). (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
DNK	Sep 1980	By Executive Order No. 408 of the Ministry of the Environment, this substance is classified as toxic and regulated according to EEC Directive 76/769. Listed as carcinogen by Ministry of Labor.
FIN	1983	Prohibited for use as a solvent. Special regulations exist for workplace exposure. (Reference: (FICSR) Council of State Resolution, 335/82, ,)
JPN	1972	Higher concentrations of benzene in rubber cement than 5% by volume are prohibited because of the possibility of lung cancer. Export is prohibited. (Reference: (JPNIS) Industrial Safety and Health Law, 55, , 1972)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
NZL	1983	By the Toxic Substances Act, this product has been labelled a "dangerous poison" and is available to commercial users only.
Bibliographical references		
IARC MONOGRAPH, 7, 203, 1974		
IARC MONOGRAPH, 29, 391, 1982		
IARC MONOGRAPH, 29, 93, 1982		
IARC MONOGRAPH, SUPPL.4, 56, 1982		
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 150, , 1993		

Product Name	Benzidine
C.A.S. number	92-87-5
Scientific and common names, and synonyms	BIPHENYL, 4,4'-DIAMINO BENZYDYNA (POL) BENZIDINA (ITA) BENZIDIN (CSK) P-DIAMINODIPHENYL P,P-DIAMINOBIPIHENYL P,P'-BIANILINE [1,1'-BIPHENYL]-4,4'-DIAMINE (1,1') BIPHENYL-4,4'-DIAMINE 4,4-DIPHENYLENEDIAMINE 4,4-BIPHENYLDIAMINE 4,4'-DIAMINODIPHENYL

Legislative or regulation action

Product Name **Benzidine**

C.A.S. number **92-87-5**

Scientific and common names, and synonyms

4,4'-DIAMINOBIPHENYL

4,4'-DIAMINO-1,1'-BIPHENYL

4,4'-BIANILINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	21 Jun 1991	Benzidine and its salts may not be used in concentrations equal to or greater than 0.1% by weight in substances and preparations placed on the market. Industrial use allowed is restricted to professional users. Benzidine and its salts constitute a high risk to human or animal health. They may cause cancer and in particular of the urinary system. Benzidine and its salts have been classified by the EC as a category 1 carcinogen (known to be carcinogenic to man). Directive 89/677/EEC of 21.12.89. (Reference: (OJEC) Official Journal of the European Communities, L398/19, , 30 Dec 1989)
BEL	1974	Exposure of workers to carcinogenic substances including benzidine and its salts (applies also to 2-aminobenzidine) is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authority. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR		Production and use in factories of benzidine and its salts are prohibited except when written exemption is given for 1) investigation or testing in medical or scientific research; 2) where substances are formed during process in a totally enclosed system; 3) trans-shipment. Importation is prohibited. Epidemiological studies show that occupational exposure to commercial benzidine is strongly associated with bladder cancer. (Reference: (GBRSI) Statutory Instruments, 36, , 1973)
IND	30 Jan 1993	Use of benzidine based dyes and its salts in the dying and colour processing industry has been prohibited and restricted. Use of benzidine is not restricted for industrial applications other than the manufacture of dyes. These uses are mainly confined in the area of stiffening of rubber, as also cross linking agent in manufacture of polyurethane. However, such uses constitute a very minor part of the previously allowed uses of benzidine. Benzidine and benzidine based dyes are carcinogenic. They are known to increase risk of bladder cancer in human beings. On inhalation, they cause damage to blood and bone marrow depression. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1984	Production, use, storage and transport banned without a permit from the Ministry of Industry. Carcinogenic substance. (Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 4739, 415, 1984)
ITA		Due to strong carcinogenic action on humans, this substance and its salts should not be detectable in the working environment even with the most sophisticated methods of determination. When they cannot be replaced, enclosed methods and adequate personnel protective equipment should be used.
JOR	26 Aug 2002	The chemical is severely restricted for all uses except for those listed below. As a reagent to test for hydrogen peroxide in milk, a reagent to test for hydrogen sulfate, hydrogen cyanide and nicotine, a reagent for detecting blood, an analytical standard and also for colour index (C.I.) Direct Red 28. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
JPN	1972	Benzidine and its salts at concentrations of more than 1% by weight are banned because

Legislative or regulation action

Product Name		Benzidine
C.A.S. number		92-87-5
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		of the possibility of acute cystitis and cancer of the bladder. Export is prohibited. (Reference: (JPNIS) Industrial Safety and Health Law, 55, , 01 Oct 1972)
KOR	9 Aug 1982	Prohibition of manufacturing importing, transferring, supplying and using benzidine and its salts. (with the exception of benzidine dihydrochloride). Exception will be made in case of the purpose of research or laboratory work. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1983	By the Toxic Substances Act, this product has been labelled a "deadly poison" and is available to commercial users only.
SUN		Production of this carcinogen has been discontinued by Decree of the Ministry of Health.
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Applies to benzidine and its salts). (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)
USA	20 Nov 1996	Benzidine-based chemical substances are severely restricted. The action applies to Benzidine (92-87-5), Benzidine 2HCL (531-85-1), C.I. Direct Red 28 (573-58-0), C.I. Direct Black 38 (1937-37-7), C.I. Direct Red 44 (2302-97-8), C.I. Direct Blue 2 (2429-73-4), C.I. Direct Orange 8 (2429-79-0), C.I. Direct Brown 31 (2429-81-4), C.I. Direct Brown 2 (2429-82-5), C.I. Direct Black 4 (2429-83-6), C.I. Direct Red 1 (2429-84-7), C.I. Direct Brown 1.2 (2586-58-5), C.I. Direct Blue 6 (2602-46-2), C.I. Direct Brown 6 (2893-80-3), C.I. Direct Red 37 (3530-19-6), C.I. Acid Red 85 (3567-65-5), C.I. Direct Green 1 (3626-28-6), C.I. Direct Brown 1 (3811-71-0), C.I. Direct Green 6 (4335-09-5), C.I. Acid Black 94 (6358-80-1), C.I. Direct Brown 27 (6360-29-8), C.I. Direct Brown 154 (6360-54-9), C.I. Direct Brown 74 (8014-91-3), C.I. Direct Brown 95 (16071-86-6). EPA has determined that there is no ongoing manufacture, import or processing of the benzidine-based chemicals listed above, except for the ongoing uses of such substances in small amounts for a few, limited purposes, such as: a reagent to test for hydrogen peroxide in milk; a reagent to test for hydrogen sulfate hydrogen cyanide and nicotine; a stain in microscopy; a reagent in detecting blood; an analytical standard; and also for C.I. Direct Red 28 (Congo Red, CAS no. 573-58-0) as an indicator dye. The Benzidine-Based Chemical Substances; Significant New Uses of Certain Chemical Substances Rule (SNUR) requires persons to notify EPA at least 90 days before commencing the manufacture, import or processing of certain benzidine-based chemical substances listed above for any use other than the ongoing uses in small amounts for a few limited purposes. The ongoing uses in small amounts for a few, limited purposes remain allowed. The overwhelming health concern for benzidine-based chemical substances is bladder cancer in humans, generally believed to be caused through any route of exposure. EPA believes that this action is necessary because these substances pose significant cancer risks to humans and that the uses governed by the rule may result in significant human exposure. The required notice provides EPA with the opportunity to evaluate the intended use and associated activities before these substances can be re-introduced into the marketplace and the opportunity to protect against potentially adverse exposure before it can occur. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
YUG		Occupational exposure of workers to this substance is prohibited. The substance should be monitored in the working environment and periodical medical check-ups of workers at risk should be carried out.
Bibliographical references		
IARC MONOGRAPH, 1, 80, 1972		
IARC MONOGRAPH, 29, 149, 1982		
IARC MONOGRAPH, 29, 391, 1982		
IARC MONOGRAPH, SUPPL.4, 57, 1982		

Product Name **Benzotrichloride**

C.A.S. number **98-07-7**

Scientific and common names, and synonyms

ALPHA,ALPHA,ALPHA-TRICHLOROTOLUENE
 BENZENE, (TRICHLOROMETHYL)-
 BENZYLIDYNE CHLORIDE
 BENZENYL TRICHLORIDE
 BENZENYL CHLORIDE
 OMEGA,OMEGA,OMEGA-TRICHLOROTOLUENE
 PHENYLTRICHLOROMETHANE
 PHENYLCHLOROFORM
 TRICHLOROPHENYLMETHANE
 TOLUENE TRICHLORIDE
 (TRICHLOROMETHYL)-BENZENE
 (TRICHLOROMETHYL) BENZENE
 1-(TRICHLOROMETHYL)BENZENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1982	Severely restricted. No permissions granted in 1991. The substance is carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	Carcinogenic substance. The substance may be manufactured, used and handled only after permission has been granted by the labour inspectorate. (Reference: (AFS) Arbetarskyddsstyrelsens Foerfattningssamling, 5, 41, 1984)

Bibliographical references

IARC MONOGRAPH, 29, 73, 1982
 IARC MONOGRAPH, SUPPL.4, 84, 1982

Product Name **Bis (2-Chloroethyl) sulphide**

C.A.S. number **505-60-2**

Scientific and common names, and synonyms

BETA,BETA'-DICHLORODIETHYL SULFIDE
 BIS(BETA-CHLOROETHYL) SULFIDE
 BIS(2-CHLORETHYL)SULPHIDE
 DI-2-CHLOROETHYL SULFIDE
 ETHANE, 1,1'-THIOBIS[2-CHLORO-
 MUSTARD GAS
 SULFUR MUSTARD GAS
 SULFUR MUSTARD
 1-CHLORO-2-(BETA-CHLOROETHYLTHIO)ETHANE
 1,1'-THIOBIS(2-CHLORO)-ETHANE
 2,2'-DICHLOROETHYL SULFIDE
 2,2'-DICHLORODIETHYL SULFIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure

Legislative or regulation action

Product Name **Bis (2-Chloroethyl) sulphide**

C.A.S. number **505-60-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1984	Production, use, storage and transport banned without a permit from the Ministry of Industry. Carcinogenic substance. (Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 4739, 415, 1984)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Product Name **Bis (Chloromethyl) ether**

C.A.S. number **542-88-1**

Scientific and common names, and synonyms

BIS-CHLOROMETHYL ETHER
BIS(CHLOROMETHYL) ETHER
CHLOROMETHYL ETHER
DICHLORODIMETHYL ETHER
ETHER, BIS(CHLOROMETHYL)
METHANE, OXYBIS[CHLORO-
MONOCHLOROMETHYL ETHER
OXYBIS(CHLOROMETHANE)
SYM-DICHLOROMETHYL ETHER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	26 Aug 1998	Bis(chloromethyl) ether banned for manufacture, use, processing, sale and import for industrial uses except scientific and research purposes. Demonstrated to cause cancer in experimental animals and humans. Considered a non-threshold toxicant. Carcinogenic to humans. Readily degraded, no threat of bioaccumulation. No adverse effects suspected in organisms living in the Canadian environment. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.)

Legislative or regulation action

Product Name **Bis (Chloromethyl) ether**

C.A.S. number **542-88-1**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen.
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1984	Production, use, storage and transport banned without a permit from the Ministry of Industry. Carcinogenic substance.
		(Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 4739, 415, 1984)
JPN	1972	Products with concentrations more than 1% by weight are banned because of the possibility of lung cancer. Export is prohibited.
		(Reference: (JPNIS) Industrial Safety and Health Law, 55, , 01 Oct 1972)
KOR	9 Aug 1982	Prohibition of manufacturing, importing, transferring, supplying and using. Exception will be made in case for the purpose of research or laboratory work. Carcinogen.
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1975	Banned. The substance is carcinogenic.
		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals.
		(Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 4, 231, 1974
IARC MONOGRAPH, SUPPL.4, 64, 1982

Product Name **Bis-Chloroethyl ether**

C.A.S. number **111-44-4**

Scientific and common names, and synonyms

BIS(CHLORO-2-ETHYL) OXIDE
BIS(2-CHLOROETHYL) ETHER
BIS(BETA-CHLOROETHYL) ETHER
BETA,BETA'-DICHLORODIETHYL ETHER
BETA,BETA'-DICHOROETHYL ETHER
DI(BETA-CHLOROETHYL) ETHER
DCEE
ETHANE, 1,1'-OXYBIS[2-CHLORO-
SYM-DICHLOROETHYL ETHER
1,1'-OXYBIS(2-CHLORO-ETHANE
1-CHLORO-2-(BETA-CHLOROETHOXY)ETHANE
1,5-DICHLORO-3-OXAPENTANE
2,2'-DICHLOROETHYL ETHER
2,2'-DICHLORODIETHYL ETHER
2,2'-DICHLORETHYL ETHER
2-CHLOROETHYL ETHER

Legislative or regulation action

Product Name **Bis-Chloroethyl ether**

C.A.S. number **111-44-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1984	Production, use, storage and transport banned without a permit from the Ministry of Industry. Carcinogenic substance. (Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 4739, 415, 1984)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both chlorex and preparations containing it. Action taken due to mutagenic and carcinogenic effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the National Board of Occupational Safety and Health. Substance proved to be a human carcinogen or to have carcinogen or to have carcinogenic effects in experimental animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 9, 117, 1975

Product Name **Bromotrifluoromethane**

C.A.S. number **75-63-8**

Scientific and common names, and synonyms

METHANE, BROMOTRIFLUORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	1 Jan 1999	Bromotrifluoromethane has been severely restricted as it is an ozone depleting substance. Manufacture, use, sale or offer for sale, import or export of a) bulk virgin; b) recovered or recycled; bromofluorocarbons, except for certain uses have been prohibited. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
SWE	1 Jan 1998	Severely restricted. Halons 1211, 1301 and 2402 may not be used as fire-extinguishing agents when permanent fire-extinguishing devices are installed. These halons may not be used in fire-extinguishing devices after 31.12.1997. Nor may they be used in the course of business activities otherwise after this date, if less hazardous chemical products are available. Action taken to prevent detriment to the atmospheric ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Cadmium and cadmium compounds**

C.A.S. number **7440-43-9**

Legislative or regulation action

Product Name **Cadmium and cadmium compounds**

C.A.S. number **7440-43-9**

Scientific and common names, and synonyms

CADMIUM

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	31 Aug 1988	Severely restricted chemical. It is prohibited to import and supply cadmium-plated articles and plastics with a cadmium content higher than 100mg/kg plastic (as commercial goods for industrial and consumer use). In addition to these prohibitions, which affect the use of cadmium and its compounds in products, there are several regulations on maximum levels of cadmium contamination in articles. Prohibited is: a) Manufacture and import of zinc-plated articles with a cadmium content higher than 250mg/kg zinc; b) Supply of commercial fertilisers containing more than 1% phosphorous with a cadmium content higher than 50g/tonne phosphorous. Special provision apply to antiques and to articles for which no replacement is available (enumerated in a list) Bioaccumulation, high toxicity. (Reference: (CHEOE) Ordinance relating to Environmentally Hazardous Substances, Annex, 4.5,4.11,4.12, , 09 June 1986)
DNK		Treated by Executive Order nos.106, 349, 396, and 408. (Major legislative action in 1980). Production and import of cadmium-containing products are not allowed.
NZL	1983	The Toxic Substances Act has labelled this product a "dangerous poison" and has restricted its use to commercial users only.
SWE	1 Jul 1980	Cadmium compounds may not be used for surface treatment, as a stabilizer or colouring agent. Products whose surfaces have been treated with a cadmium compound or which contain such a compound as a stabilizer or pigment may not be imported commercially. The Product Control Board may issue regulations on departures from the provisions mentioned above, or in special cases may grant exemption from the provisions. Deviations from the ban on the use of cadmium compounds for surface treatment or as a stabilizer or as a colouring agent are listed in Statens Naturvardsverks Foerfatningssamling 1981:5 (PK:13). (Reference: (SVENF) Svensk Foerfatningssamling, 84, 1, 1980)

Bibliographical references

IARC MONOGRAPH, 2, 74, 1973
IARC MONOGRAPH, 11, 39, 1976
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
WHO FOOD ADD., 24, 163, 1989
IPCS ENVIRONMENTAL HEALTH CRITERIA, 134, , 1992
IPCS ENVIRONMENTAL HEALTH CRITERIA, 135, , 1992
IARC MONOGRAPH, 58, 119, 1993

Product Name **Carbon tetrachloride**

C.A.S. number **56-23-5**

Scientific and common names, and synonyms

BENZINOFORM
CZTEROCHLOREK WEGLA (POL)
CARBON CHLORIDE
METHANE, TETRACHLORO-
METHANE, TETRACHLORO
METHANE TETRACHLORIDE
PERCHLOROMETHANE
TETRACLORURO DI CARBONIO (ITA)
TETRACHLORURE DE CARBONE (FRA)
TETRACHLOROMETHANE

Legislative or regulation action

Product Name **Carbon tetrachloride**

C.A.S. number **56-23-5**

Scientific and common names, and synonyms

TETRACHLOROCARBON
TETRACHLORMETHAN (DEU)
TETRACHLORKOHLSTOFF, TETRA (DEU)
TETRACHLOORMETAAN
TETRACHLOORKOOLSTOF (NLD)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	Banned for use as a pesticide (since 10.02.1992) and as an industrial chemical (since 01.01.1993). Use is still allowed for analytical and research purposes. High ozone depleting potential (ODP=1,1; listed in Annex B of the Montreal Protocol). Furthermore it is extremely toxic by inhalation and in contact with skin and has a high liver injuring potential. There is sufficient evidence for carcinogenicity to animals. Beyond this the substance is suspected to have a potential for cancer in humans (List 1 of the EPA). (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
CAN	1 Jan 1999	Carbon Tetrachloride banned for use as a pesticide since February 1984 due to ozone depleting effects. Some uses remain for industry: essential purpose, feedstock and analytical standard. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
CHE	1972	Use prohibited for any purpose whatsoever in products for public use (substances intended for private and commercial use) or in commercial products (substances intended for use in trade and industry). (Reference: (RSCHE) Recueil Systématique du Droit Fédéral, 814.839, , 1985)
CHE	1 Jan 1993	Severely restricted chemical: Manufacture, supply, import and use of tetrachlorocarbon and of products which contain the substance is prohibited. Use is still allowed as intermediate for further chemical conversion and as solvent (until 31 December 1995) if no replacement substance or process is available and measures to reduce emissions are taken. The substance causes depletion of the ozone layer. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.4.4.14, , 09 June 1986)
DEU	1 Oct 1980	Working materials which contain more than 1% (wt/wt) of carbon tetrachloride, tetrachloroethane or pentachloroethane may not be used. This does not apply when for technical reasons the substances cannot be replaced by other less harmful substances or formulations. Technical requirements for the protection of the workers against any exposure to vapour, gas or mist. Hygienic requirements concerning clothing, washing facilities and food (including tobacco). Medical surveillance of workers at certain time periods is obligatory. Workers who handle working materials which contain more than 1% (wt/wt) of carbon tetrachloride, tetrachloroethane or pentachloroethane may not be exposed for more than 8 hours per day and 40 hours per week (42 hours per week in plants with four shifts). (Reference: (BGBl) Bundesgesetzblatt, IS.140, , 1982)
DEU	1 Nov 1993	The use of tetrachloromethane and its preparations and products containing more than 0,1% of it or containing it as a solvent is for industry severely restricted to use in closed systems. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ECU	1985	Registration prohibited because it is harmful to health and its manufacture, marketing or use has been prohibited in various countries. (Reference: (ACMIN) Acuerdo Ministerial No., 0242, , 1985)
KOR	1 Mar 1986	Registration withdrawn because of its potential carcinogenicity. Risk of carcinogenic effect on humans.

Legislative or regulation action

Product Name **Carbon tetrachloride**

C.A.S. number **56-23-5**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
LIE		(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,) Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
MLT		Banned for use in all industrial processes.
SWE	1 Jan 1998	Carbon tetrachloride is severely restricted. May not be used in the course of business activities after 31.12.1997. Effective date 01.01.1998 (01.11.1993 according to recent draft government decision). Action taken to prevent detriment to the atmospheric ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1 Jan 1987	The substance is banned for use as a pesticide. In October 1980, EPA began a special investigation into the effects of exposure to carbon tetrachloride, because of concerns of carcinogenicity and effects on the liver and kidney. By 1987, all products containing carbon tetra-chloride for use as a fumigant had been cancelled voluntarily or by administrative action by EPA. Use on museum specimens has also been cancelled. No remaining uses allowed. The control action applies only to use as a pesticide. (Industrial use is regulated separately, see control action for Freon 11, CAS 75-69-4) Carbon tetrachloride is toxic to humans and animals following inhalation, ingestion or dermal exposure. The central nervous system, liver, and kidneys are primarily affected as a result of acute and subchronic exposure exposure. There is also evidence of sciatic nerve, optic nerve, and ocular muscle damage. The substance is documented as a carcinogen in rats, mice, and hamsters, and is a probable human carcinogen. In addition, presence of carbon tetrachloride in the atmosphere may contribute to the breakdown of the ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA		Carbon tetrachloride and any mixture containing it is banned as a hazardous product because it possesses such a degree of hazard that adequate cautionary labelling cannot be written and public health can only be served by keeping it out of interstate commerce (does not apply to unavoidable manufacturing residues in other chemicals if any reasonable use does not result in atmospheric CONC's of more than 10 ppm (63 mg/m ³)). (Reference: (CFRUS) Code of Federal Regulations, 16(1500), 302, 1982)
Bibliographical references		
IARC MONOGRAPH, 1, 53, 1972		
IARC MONOGRAPH, 20, 371, 1979		
FAO PLANT PRODUCTION & PROTECTION PAPER, 20 SUP., , 1979		
IARC MONOGRAPH, SUPPL.4, 74, 1982		
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984		
FAO PLANT PRODUCTION & PROTECTION PAPER, 72/1, , 1985		

Product Name **CFC 11 (Trichloromonofluoromethane)**

C.A.S. number **75-69-4**

Scientific and common names, and synonyms
METHANE, TRICHLOROFLUORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	1 Jan 1994	The control action applies to all fully halogenated chlorofluorocarbons, especially to the

Legislative or regulation action

Product Name **CFC 11 (Trichloromonofluoromethane)**

C.A.S. number **75-69-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		<p>technical relevant compounds mentioned in the Montreal Protocol. Fully halogenated chlorofluorocarbons are severely restricted for use. These substances are: banned as propellants in aerosol cans from 01.03.90; halons are banned as fire extinguishing agents from 01.01.91; banned in foams from 01.01.93; banned as decreasing and cleaning medium from 01.01.94; banned as heat-transfer medium in cooling, heating and other air conditioning devices from 01.01.94. Use is still allowed for scientific and analytical purposes. These substances are mainly contributing to the depletion of the stratospheric ozone layer.</p> <p>(Reference: (AUTFLG) Federal Law Gazette, 576, , 1990)</p>
CAN	1 Jan 1999	<p>The chemical CFC-11 is severely restricted. Ozone-depleting substance. Regulations prohibit manufacture, importation, and selling any products that contain ODS. Some essential uses remain unprohibited, such as in farming and military ships.</p> <p>(Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)</p>
CHE	1 Jan 1991	<p>Severely restricted chemicals (applies to CFC's as defined in the Montreal Protocol. Synthetic foams, in whose manufacture CFC's are used, and articles containing such foams are prohibited (from 01-01-1992) Manufacture and import of spray cans containing CFC's is prohibited (from 01-01-1991). Supply, import and use of CFC's as solvents is prohibited (from 01-01-1993). Supply and import of new equipment for refrigerations containing CFC's is prohibited (from 01-01-1994). All other uses of CFC's are banned (from 01-01-1992). All halons are banned for use. Uses are still allowed: a) In pharmaceutical spray cans, if no replacement is available; b) In textile cleaning until 1 January 1996 (under strong emission control); c) in special metal cleaning processes until 1 Jan. 1995. Substances cause depletion of ozone layer.</p> <p>(Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)</p>
FIN	1 Jan 1990	<p>The control action applies to CFCs. Import and manufacture of the substances and products containing the following substances: CFC-11, CFC-12, CFC-113, CFC-114, CFC-115 - are severely restricted. It is prohibited to start using any of these substances in facilities where they had not been used before (as from 1.10.1989). According to the Air Pollution Control decree (No. 517/89) facilities using more than 1 ton/year of CFCs compounds in manufacture should make notifications to the regional authorities. The authorities can restrict the use of these substances on a case-by-case basis. It is prohibited to import the following substances: CFC-11, CFC-12, CFC-113, CFC-114, CFC-115 - from countries which are not parties to the Montreal Protocol (as from 1.1.1990). It is prohibited to manufacture or import the following products if they contain any of the following substances: CFC-11, CFC-12, CFC-113, CFC-114, CFC-115, CFC-211, CFC-212, CFC-213, CFC-214, CFC-215, CFC-216 and CFC-217: aerosol packages, other packages and packaging materials, soft polyurethane foam plastic as such and products primarily consisting of it, polyurethane sealing foam, extruded polystyrene from plastic as such and products primarily consisting of it (as from 1.1.1992). The use of CFCs is still allowed in such industrial facilities and laundry operations (dry cleaners), where the same substances were already in use. The users are allowed to buy new equipment which uses the same substances. The restriction concerning aerosol packages does not refer to pharmaceutical products inhaled into the respiratory organs and the restriction concerning other packages and packaging materials does not refer to materials imported as cover packages of goods. Action taken because of CFCs' contribution to the depletion of the ozone layer in the stratosphere and on the global warming.</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
SWE	1 Jan 1989	<p>CFC-11 is severely restricted. Certain specified products or commodities may not be imported in the course of business activities, if the product or commodities contains soft or hard plastic foam made of CFC 11, 12, 113, 114 or 115. Use of CFC 11, 12, 113, 114 and 115 is not allowed in the course of business activities unless specifically permitted in</p>

Legislative or regulation action

Product Name **CFC 11 (Trichloromonofluoromethane)**

C.A.S. number **75-69-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		the ordinance. CFCs other than CFC 11,12, 113, 114 and 115 may not be used in the course of business activities after 31 December 1992. (Action takes effect 1989-1995.) Action taken to prevent detriment to the atmospheric ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
THA	2 May 1995	Aerosol products containing chlorofluorocarbons as propellant have been banned for importation, exportation, manufacture and handling. Certain medicinal products are exempted from this prohibition. Danger of chlorofluorocarbons as a potential depleter of the stratospheric ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1 Jan 1991	The substances are severely restricted for use. Manufacture, processing and distribution in commerce of fully halogenated CFCs as aerosol propellants were banned in 1978, with certain exceptions. The ban also extends to exportation of CFC aerosol propellants. In Dec. 1987, EPA limited production, consumption and export of certain CFCs under the Clean Air Act and to constitute the US implementation of the Montreal Protocol on substances depleting the ozone layer, signed 16.09.87. In 1991 EPA promulgated base-line limits on production and import of ozone depleting substances in the US, thereby severely restricting their availability. The control action applies to: CFC11 (CAS 75-69-4); CFC- 12 (CAS 75-71-8), CFC-13 (CAS 75-72-9), CFC-111 (CAS 354- 56-3), CFC-112, CFC-113 (CAS 76-13-1), CFC-114 (76-14-2), CFC-115 (CAS 76-15-3), CFC-211 (CAS 135401-87-5), CFC-212 (CAS 134452-44-1), CFC-213, CFC-214 (CAS 2268-46-4), CFC-215 (CAS 4259-43-2), CFC-216 (CAS 661-97-2), CFC-217 (CAS 422-86-6), Halon 1211 (CAS 353-59-3), Halon 1301 (CAS 75- 63-8), Halon 2402 (CAS 124-73-2), Carbon tetrachloride (CAS 56-23-5), Methyl chloroform (CAS 71-55-6). Use is still allowed in Mercaptan stench warning devices; release agent for molds used in the production of plastic and elastomeric materials; flying insect pesticides for use in non residential food handling areas and for space spraying of aircraft; diamond-grit spray; non-consumer articles used as cleaner- solvents lubricants, or coatings for electrical or electronic equipment; articles necessary for safe maintenance and operation of aircraft; uses essential to military preparedness as determined by EPA and the Department of Defense; pharmaceutical rotary tablet press punch lubricant. The CFCs' contribution to the depletion of the ozone layer in the stratosphere and on the global warming. The control action was based on a national review of scientific data. The stratospheric ozone layer acts as a vital shield to protect human health and welfare and the environment from the potentially harmful ultraviolet radiation (UV-B). Degradation of CFCs in the upper stratosphere releases chlorine and bromine, which combine with and break down ozone molecules. EPA believes that increased UV-B radiation penetration of the earth's atmosphere resulting from depletion of the ozone layer may cause numerous human health effects, including increased incidence of non-melanoma and melanoma skin cancers, increased incidence of cataracts, and suppression of the immune system. In the environment, UV-B radiation also accelerates weathering of outdoors plastics, increases formation of ground-level ozone, and contributes to global warming levels. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **CFC 113**

C.A.S. number **76-13-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	1 Jan 1999	The chemical CFC-113 is severely restricted. Ozone-depleting substance. Regulations prohibit manufacture, importation, and selling any products that contain ODS. Some essential uses remain unprohibited, such as in farming and military ships.

Legislative or regulation action

Product Name **CFC 113**

C.A.S. number **76-13-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **CFC 114**

C.A.S. number **76-14-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	1 Jan 1999	The chemical CFC-114 is severely restricted. Ozone-depleting substance. Regulations prohibit manufacture, importation, and selling any products that contain ODS. Some essential uses remain unprohibited, such as in farming and military ships. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **CFC 115**

C.A.S. number **76-15-3**

Scientific and common names, and synonyms

ETHANE, CHLOROPENTAFLUORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	1 Jan 1999	The chemical CFC-115 is severely restricted. Ozone-depleting substance. Regulations prohibit manufacture, importation, and selling any products that contain ODS. Some essential uses remain unprohibited, such as in farming and military ships. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
SWE	1 Jan 1989	CFC 115 is severely restricted. Certain specified products or commodities may not be imported in the course of business activities, if the product or commodities contains soft or hard plastic foam made of CFC 11, 12, 113, 114 or 115. Use of CFC 11, 12, 113, 114 and 115 is not allowed in the course of business activities unless specifically permitted in the ordinance. CFCs other than CFC 11, 12, 113, 114 and 115 may not be used in the course of business activities after 31 December 1992. (Action takes effect 1989-1995.) Action taken to prevent detriment to the atmospheric ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **CFC 12**

C.A.S. number **75-71-8**

Scientific and common names, and synonyms

METHANE, DICHLORODIFLUORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	1 Jan 1999	The chemical CFC-12 is severely restricted. Ozone-depleting substance. Regulations prohibit manufacture, importation, and selling any products that contain ODS. Some

Legislative or regulation action

Product Name		CFC 12
C.A.S. number		75-71-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1989	essential uses remain unprohibited, such as in farming and military ships. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,) CFC 12 is severely restricted. Certain specified products or commodities may not be imported in the course of business activities, if the product or commodities contains soft or hard plastic foam made of CFC 11, 12, 113, 114 or 115. Use of CFC 11, 12, 113, 114 and 115 is not allowed in the course of business activities unless specifically permitted in the ordinance. CFCs other than CFC 11,12, 113, 114 and 115 may not be used in the course of business activities after 31 December 1992. (Action takes effect 1989-1995.) Action taken to prevent detriment to the atmospheric ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		CFC 12 (Dichloromonofluoromethane)
C.A.S. number		75-43-4
Scientific and common names, and synonyms		METHANE, DICHLOROFLUORO-
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
CHE		Severely restricted chemical(applyes to partially halogenated chlorofluorocarbons). Manufacture and import of synthetic foams, in whose manufacture HCFC's are used, and articles containing such foams are prohibited (from 01-01-1993). Manufacture and import of spray cans containing HCFC's is prohibited(from 01-01-1993). Supply, import and use of HCFC's as solvents is prohibited (from 01-01-1993). All other uses of HCFC's are banned(form 01-01-1992). Uses are still allowed: a) As refrigerant and for the foaming of closed cell foams; b) In pharmaceutical spray cans, if no replacement is available; c) In textile cleaning until 1 January 1996(under strong emission control); d) in metal cleaning until 1 January 1995. Substances cause depletion of ozone layer. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
SWE	1 Jan 1994	Partially halogenated chlorofluorocarbons (HCFCs) are severely restricted. Aerosol packages containing HCFC may not be used, manufactured or imported in the course of business activities after 31 December 1993. A number of chemical products and commodities may not be imported in the course of business activities if the product or commodity contains soft or hard plastic foam made with HCFC as blowing agent after 31 December 1993. After 31 December 1992, HCFC may only be used in the course of the following business operations and for the following purposes: 1) manufacture of hard plastic foam for insulation purposes; 2) as a working medium in cooling, heating and other air-conditioning systems. Action taken to prevent detriment to the atmospheric ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		CFCs (Chlorofluorocarbons)
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision

Legislative or regulation action

Product Name **CFCs (Chlorofluorocarbons)**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DNK		Regulatory action in accordance with EEC Directive 80/372. Regulations for use in aerosols are planned.
NZL		Industries using chlorofluorocarbons have been informed of the concern over their release into the atmosphere. Use in aerosols except for essential uses is being phased out. Use in other areas such as refrigeration will also be phased out as alternatives become available.

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 113, , 1990
IPCS ENVIRONMENTAL HEALTH CRITERIA, 126, , 1991

Product Name **Chloric acid and chlorates**
C.A.S. number **7790-93-4**
Scientific and common names, and synonyms

CHLORINE DIOXIDE HYDRATE, FROZEN (DOT)
CHLORIC ACID (DOT)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		The substance may not be used in blasting agent compositions or in water gels. (Applies to chlorates). (Reference: (CFRUS) Code of Federal Regulations, 29(1910), 281, 1981)
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain chlorates (except for certain smoke mixtures and certain small devices with a total powder content of not more than 4g of which not more than 15% is potassium, sodium or barium chlorate) and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)

Product Name **Chlorinated Parafins**
C.A.S. number **8002-74-2**
Scientific and common names, and synonyms

PARAFFIN WAXES AND HYDROCARBON WAXES

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	The control action applies to chlorinated paraffins. Voluntarily withdrawn by the manufacturer (Argo) since October 1991. All uses banned as of 20.02.1992. Bioaccumulation in the environment. There is clear evidence that these substances are carcinogenic in experimental animals. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

Product Name **Chlornaphazine**
C.A.S. number **494-03-1**

Legislative or regulation action

Product Name **Chlornaphazine**

C.A.S. number **494-03-1**

Scientific and common names, and synonyms

BETA-NAPHTHYLBIS(BETA-CHLOROETHYL)AMINE

NAPHTHYLAMINE MUSTARD

N,N-BIS(2-CHLOROETHYL)- 2-NAPHTHYLAMINE

2-NAPHTHALENAMINE, N,N-BIS(2-CHLOROETHYL)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of N,N-bis (2-chloroethyl) 2-naphthyl amine is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de N,N-bis (2-chloroéthyl) 2-naphtyl amine est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1984	Production, use, storage and transport banned without a permit from the Ministry of Industry. Carcinogenic substance. (Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 4739, 415, 1984)

Product Name **Components of oil dispersants**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1980	Dispersants shall not contain components which are toxic to the environment such as carbon tetrachloride and other chlorinated organic compounds. Neither shall they contain benzene or other carcinogenic and toxic aromatic hydrocarbons, phenols and cresols. Further, the dispersants shall not contain components which make them difficult to store or to use, including strong acids and alkalis.

Product Name **Crude oil**

C.A.S. number **8002-05-9**

Scientific and common names, and synonyms

BASE OIL

CRUDE OIL PETROLEUM (DOT)

COAL OIL

COAL LIQUID

PETROLEUM CRUDE

ROCK OIL

SENECA OIL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		The substance may not be used in blasting agent compositions. (Reference: (CFRUS) Code of Federal Regulations, 29(1910), 281, 1981)

Legislative or regulation action

Product Name **Crude oil**

C.A.S. number **8002-05-9**

Bibliographical references

IARC MONOGRAPH, 45, 119, 1989

Product Name **Cyanogen (C₂N₂)**

C.A.S. number **460-19-5**

Scientific and common names, and synonyms

ETHANEDINITRILE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	Cyanogen is classified in categories 4 of Hazardous Substances Act where the production, import, export, and having in the possession is banned. Highly toxic and no industrial use in Thailand. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Cyanogen chloride**

C.A.S. number **506-77-4**

Scientific and common names, and synonyms

CYANOGEN CHLORIDE ((CN)CL)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of cyanogene chlorides are prohibited in the manufacturing of the following consumer products: cleaning agents. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography.(L'utilisation de chlorures de cyanogène est interdite pour la fabrication des produits de consommation suivants: agents nettoyants. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **DBB**

C.A.S. number **75113-37-0**

Scientific and common names, and synonyms

1,3,2,4-DIOXASTANNABORETANE, 2,2-DIBUTYL-4-HYDROXY

1,3,2,4-DIOXASTANNABORETANE (9CI)

2,2-DIBUTYL-4-HYDROXY-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
GBR	1 Jan 1992	No person shall supply or use dibutyltin hydrogen borate (DBB) in a concentration equal to or greater than 0.1% by weight. Does not apply to DBB or any substance containing DBB if that substance is intended solely for conversion into finished products in which the concentration of DBB will be less than 0.1% by weight. Control introduced under the 8th Amendment, Directive 89/677/EEC of the European Community Marketing and Use Directive 76/769/EEC. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	22 Sep 1988	The manufacture, importation into the Netherlands, putting into circulation and use of DBB is prohibited, except to conduct research in laboratories or conversion into end

Legislative or regulation action

Product Name **DBB**

C.A.S. number **75113-37-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		products in which the substance as such no longer occurs. Reasons for the control action: toxic to aquatic organisms in very low concentrations and persistent in the environment. (Reference: (NLDSB) Netherlands Staatsblad, 443, , 1988)

Product Name **DBBT**

C.A.S. number **99688-47-8**

Scientific and common names, and synonyms

BENZENE, 1,1'-METHYLENEBIS-, DIBROMOMETHYL DERIV.

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	18 Jun 1992	The marketing and use of preparations and products containing DBBT are prohibited. The usage of DBBT as a hydraulic fluid in coal mines can be expected to result in a significant environmental contamination. By virtue of its ecotoxicity, persistence and potential to bioaccumulate, DBBT constitutes a potentially high risk to the environment. (Directive 91/339 of 18.6.91) (Reference: (OJEC) Official Journal of the European Communities, L186/64, , 12 July 1991)
AUT	23 Mar 1993	The control action applies to DBBT and other halogenated diphenylmethanes. Banned for use. Banned because of ecotoxicity, persistence in the environment and bioaccumulation in the food chain. (Reference: (AUTFLG) Federal Law Gazette, No. 210/1993, , 1993)
NLD	4 Jun 1988	The manufacture, importation into the Netherlands, putting into circulation and use of DBBT is prohibited, except to conduct research in laboratories or conversion into end products in which the substance as such no longer occurs. Reasons for the control action: a) possibility of formation of dioxines and dibenzofurans after pyrolysis; b) ecotoxic and toxic to man; c) persistent in the environment. (Reference: (NLDGG) Government Gazette, 161, , 1988)
SWE	24 Mar 1994	Chemical products and goods containing this chemical may not be sold or used. Implementation of the Council Directive 91/339/EEC. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **DDT ***

C.A.S. number **50-29-3**

Scientific and common names, and synonyms

ALPHA,ALPHA-BIS(P-CHLOROPHENYL)-BETA,BETA,BETA-TRICHLOROETHANE
 BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-
 CHLOROPHENOTHANE
 DICHLORODIPHENYLTRICHLOROETHANE (USA)
 DICHLORODIPHENYLTRICHLOROETHANE
 ETHANE, 1,1,1-TRICHLORO-2,2-BIS(P-CHLOROPHENYL)
 P,P'-DICHLORODIPHENYLTRICHLOROETHANE
 TRICHLOROBIS(4-CHLOROPHENYL)ETHANE
 1,1,1-TRICHLORO-2,2-BIS(4-CHLOROPHENYL)-ETHAAN (NLD)

Legislative or regulation action

Product Name **DDT ***

C.A.S. number **50-29-3**

Scientific and common names, and synonyms

1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-BENZENE]
 1,1,1-TRICHLORO-2,2-BIS(4-CHLORO-FENIL)-ETANO (ITA)
 1,1,1-TRICHLORO-2,2-DI(4-CHLOROPHENYL)-ETHANE
 1,1,1-TRICHLORO-2,2-BIS(P-CHLOROPHENYL)ETHANE
 1,1,1-TRICHLORO-2,2-BIS(4-CHLOROPHENYL)ETHANE
 1,1,1-TRICHLOR-2,2-BIS(4-CHLOR-PHENYL)-AETHAN (DEU)
 2,2-BIS(P-CHLOROPHENYL)-1,1,1-TRICHLOROETHANE
 4,4'-DICHLORODIPHENYLTRICHLOROETHANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBl) Bundesgesetzblatt, IS.140, , 1982)
DEU	1 Aug 1994	The substances are severely restricted for use. Manufacture, processing and distribution in commerce of fully halogenated CFCs as aerosol propellants were banned in 1978, with certain exceptions. The ban also extends to exportation of CFC aerosol propellants. In Dec. 1987, EPA limited production, consumption and export of certain CFCs under the Clean Air Act and to constitute the US implementation of the Montreal Protocol on substances depleting the ozone layer, signed 16.09.87. In 1991 EPA promulgated base-line limits on production and import of ozone depleting substances in the US, thereby severely restricting their availability. The control action applies to: CFC11 (CAS 75-69-4); CFC- 12 (CAS 75-71-8), CFC-13 (CAS 75-72-9), CFC-111 (CAS 354- 56-3), CFC-112, CFC-113 (CAS 76-13-1), CFC-114 (76-14-2), CFC-115 (CAS 76-15-3), CFC-211 (CAS 135401-87-5), CFC-212 (CAS 134452-44-1), CFC-213, CFC-214 (CAS 2268-46-4), CFC-215 (CAS 4259-43-2), CFC-216 (CAS 661-97-2), CFC-217 (CAS 422-86-6), Halon 1211 (CAS 353-59-3), Halon 1301 (CAS 75- 63-8), Halon 2402 (CAS 124-73-2), Carbon tetrachloride (CAS 56-23-5), Methyl chloroform (CAS 71-55-6). Use is still allowed in Mercaptan stench warning devices; release agent for molds used in the production of plastic and elastomeric materials; flying insect pesticides for use in non residential food handling areas and for space spraying of aircraft; diamond-grit spray; non-consumer articles used as cleaner- solvents lubricants, or coatings for electrical or electronic equipment; articles necessary for safe maintenance and operation of aircraft; uses essential to military preparedness as determined by EPA and the Department of Defense; pharmaceutical rotary tablet press punch lubricant. The CFCs' contribution to the depletion of the ozone layer in the stratosphere and on the global warming. The control action was based on a national review of scientific data. The stratospheric ozone layer acts as a vital shield to protect human health and welfare and the environment from the potentially harmful ultraviolet radiation (UV-B). Degradation of CFCs in the upper stratosphere releases chlorine and bromine, which combine with and break down ozone molecules. EPA believes that increased UV-B radiation penetration of the earth's atmosphere resulting from depletion of the ozone layer may cause numerous human health effects, including increased incidence of non-melanoma and melanoma skin cancers, increased incidence of cataracts, and suppression of the immune system. In the environment, UV-B radiation also accelerates weathering of outdoors plastics, increases formation of ground-level ozone, and contributes to global warming levels. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	4 Jan 1973	The substance is banned for use. Certain uses of DDT (on shade trees, on tobacco, in the home, in aquatic environments) were cancelled in 1969 after studying the persistence of DDT residues in the environment. Crop, commercial plant, wood product and building uses cancelled in 1970. The remaining DDT products and DDT-metabolites were cancelled on 04.01.73. No remaining uses allowed. DDT and its metabolites DDE and DDD are highly toxic compounds. Exposures have resulted in acute kills of aquatic

Legislative or regulation action

Product Name **DDT ***

C.A.S. number **50-29-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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invertebrates and reproductive and other sublethal effects in fish, mammals and birds. Long-term exposure can cause central nervous system poisoning. DDT produces tumors in laboratory animals and is considered a probable human carcinogen. DDT is highly persistent in the environment. It has polluted fresh water, estuaries, and oceans. Because of its stability in soils (20 years or more) it can bioaccumulate in fatty tissues and up the food chain, resulting in multiple human exposures. It is estimated that all lifeforms contain traces of DDT and its metabolites.

(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 5, 83, 1974
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 9, , 1979
 IARC MONOGRAPH, SUPPL.4, 105, 1982
 WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
 FAO PLANT PRODUCTION & PROTECTION PAPER, 62, , 1984
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 83, , 1989
 FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 31, 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 124, 151, 1993
 FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 73, 1994
 FAO PLANT PRODUCTION & PROTECTION PAPER, 131/1, 363, 1994

Product Name **Dianisidine**

C.A.S. number **119-90-4**

Scientific and common names, and synonyms

O-DIANISIDINE
 [1,1'-BIPHENYL]-4,4'-DIAMINE, 3,3'-DIMETHOXY-
 3,3'-DIMETHOXYBENZIDINE
 3,3'-DIMETHOXY-BENZIDINE (8CI)
 3,3'-DIMETHOXY-4,4'-DIAMINODIPHENYL
 3,3'-DIMETHOXY-(1,1'-BIPHENYL)-4,4'-DIAMINE (9CI)
 4,4'-DIAMINO-3,3'-DIMETHOXYDIPHENYL
 4,4'-DIAMINO-3,3'-DIMETHOXYBIPHENYL
 4,4'-BI-O-ANISIDINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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GBR **9 Dec 1967** Controlled use. User to take all practicable steps to prevent the risk of inhaling, ingesting or otherwise absorbing the substance. Storage in closed receptacle legibly marked. Provision of cautionary card and medical examination for workers. Classified as causing neoplasms by the International Agency for Research on Cancer.
 (Reference: (GBRSI) Statutory Instruments, 36, , 1973)

SWE **1 Jan 1985** This substance is severely restricted and may not be used without the permission of the National Board of Occupational Safety and Health. Substance proved to be a human carcinogen or to have carcinogenic effects in experimental animals.
 (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

SWE **1 Jan 1985** This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals.

Legislative or regulation action

Product Name **Dianisidine**

C.A.S. number **119-90-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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(Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Product Name **Diazomethane**

C.A.S. number **334-88-3**

Scientific and common names, and synonyms

AZIMETHYLENE

DIAZONIUM, METHYLIDE

DIAZIRINE

METHANE, DIAZO-

METHANE, DIAZO

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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BEL	1974	Exposure of workers to carcinogenic substances is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)
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SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the National Board of Occupational Safety and Health. Proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
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SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)
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Bibliographical references

IARC MONOGRAPH, 7, 223, 1974

Product Name **Dibromotetrafluoroethane**

C.A.S. number **25497-30-7**

Scientific and common names, and synonyms

ETHANE, DIBROMOTETRAFLUORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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SWE	1 Jan 1998	Severely restricted. Halons 1211,1301 and 2402 may not be used as fire-extinguishing agents when permanent fire-extinguishing devices are installed. These halons may not be used in fire-extinguishing devices after 31.12.1997. Nor may they be used in the course of business activities otherwise after this date, if less hazardous chemical products are available. Action taken to prevent detriment to the atmospheric ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
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Product Name **Dibromotetrafluoroethane (halon 2402)**

C.A.S. number **124-73-2**

Legislative or regulation action

Product Name **Dibromotetrafluoroethane (halon 2402)**

C.A.S. number **124-73-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	1 Jan 1999	Dibromotetrafluoroethane is severely restricted because it is an ozone-depleting substance. Limited uses remain allowed for essential uses, military ships, fire extinguishing equipment, aircraft, health care and research. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Dichlorobenzidine**

C.A.S. number **612-83-9**

Scientific and common names, and synonyms

BENZIDINE, 3,3'-DICHLORO-, DIHYDROCHLORIDE

[1,1'-BIPHENYL]-4,4'-DIAMINE, 3,3'-DICHLORO-, DIHYDROCHLORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
GBR	9 Dec 1967	Controlled use. User to take all practicable steps to prevent the risk of inhaling, ingesting or otherwise absorbing the substances: storage in closed receptacle legibly marked. This measure was taken because of evidence of carcinogenicity. (Reference: (GBRSI) Statutory Instruments, 36, , 1973)

Bibliographical references

IARC MONOGRAPH, 4, 29, 1974

IARC MONOGRAPH, 29, 239, 1982

IARC MONOGRAPH, SUPPL.4, 10, 1982

Product Name **Dichlorotetrafluoroethane**

C.A.S. number **1320-37-2**

Scientific and common names, and synonyms

ETHANE, DICHLOROTETRAFLUORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1989	CFC 114 is severely restricted. Certain specified products or commodities may not be imported in the course of business activities, if the product or commodities contains soft or hard plastic foam made of CFC 11, 12, 113, 114 or 115. Use of CFC 11, 12, 113, 114 and 115 is not allowed in the course of business activities unless specifically permitted in the ordinance. CFCs other than CFC 11,12, 113, 114 and 115 may not be used in the course of business activities after 31 December 1992. (Action takes effect 1989-1995.) Action taken to prevent detriment to the atmospheric ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Dieldrin ***

C.A.S. number **60-57-1**

Scientific and common names, and synonyms

DIELDRINE (FRA)

ENDO,EXO-1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4,4A,5,6,7,8,8A- OCTAHYDRO-1,4:5,8-DIMETHANONAPHTHALENE

Legislative or regulation action

Product Name **Dieldrin ***

C.A.S. number **60-57-1**

Scientific and common names, and synonyms

ENDO EXO-1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4,4A,5,6,7,8,8A- OCTAHYDRO-,8-DIMETHANONAPHTHALENE
EXO-DIELDRIN
HEXACHLOROEOXYOCTAHYDRO-ENDO,EXO-DIMETHANONAPHTHALENE
1,4:5,8-DIMETHANONAPHTHALENE 1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4,6, 7,8,8A-OCTAHYDRO ENDO- EXO
1,4:5,8-DIMETHANONAPHTHALENE 1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4,4A, 5,6,7,8,8A-OCTAHYDRO ENDO-,
EXO-
2,7:3,6-DIMETHANONAPHTH[2,3-B]OXIRENE, 3,4,5,6,9,9-HEXACHLORO-1A,2,2A,3,6,6A,7,7A-OCTAHYDRO-,
(1A.ALPHA.,2.BETA.,2A.ALPHA.,3.BETA.,6.BETA.,6A.ALPHA.,7

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
COL	16 Feb 1988	Temporary use of dieldrin and chlordane solely for treatment of timber accepted. Reason for the control action: Risks for human and animal health and the environment from broad spectrum and long residual action. (Reference: (DCCOL) Decree, No.305, , 1988)
GBR		1. Withdrawal of use in baits for wasp control in agriculture, horticulture, home gardens and food storage practice in 1966. 2. Withdrawal of insecticidal uses in home kitchens and larders in 1971. 3. Withdrawal of use in remedial fluids as wood preservation treatments (professional use) in 1984. 4. Use of dieldrin is permitted in food storage practice only when formulated as an insecticidal lacquer, coating of paint for the control of cockroaches and tropical species of ants (all other uses in food storage practice withdrawn) (January 1978). 5. Permitted for the pretreatment of timber (industrial use). Dieldrin is a persistent organochlorine. All remaining uses are being kept under review and will be replaced wherever possible by the use of less persistent pesticides (in accordance with EEC Directive 79/117). (Reference: (GBCPR) Chemical compounds used as pesticides. Recommendations for safe use in the UK, 1421, , 1980)
KOR	9 Aug 1991	Banned for production, import, use, and sale of both this substance and preparations containing it. Permitted as additive in industrial products. Action taken due to persistence of residue. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
POL		No longer used in sanitary hygiene. (Reference: (POLIP) Instytut Przemyslu Organicznego, , , 1987)

Bibliographical references

IARC MONOGRAPH, 5, 125, 1974
FAO PLANT PRODUCTION & PROTECTION PAPER, 10 REV., , 1977
FAO PLANT PRODUCTION & PROTECTION PAPER, 10 SUP., , 1977
IARC MONOGRAPH, SUPPL.4, 112, 1982
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
IPCS ENVIRONMENTAL HEALTH CRITERIA, 91, , 1989
FAO PLANT PRODUCTION & PROTECTION PAPER, 102, 14, 1990
FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 17, 1990
FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 22, 1993
FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 93, 1993

Product Name **Diethyl sulphate**

C.A.S. number **64-67-5**

Scientific and common names, and synonyms

DIETHYL ESTER SULFURIC ACID
DES
ETHYL SULFATE

Legislative or regulation action

Product Name **Diethyl sulphate**

C.A.S. number **64-67-5**

Scientific and common names, and synonyms

ESTER DIETILICO DEL ACIDO SULFURICO

SULFURIC ACID, DIETHYL ESTER

SULFATO DE ETILO

SULFATE D'ETHYLE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the National Board of Occupational Safety and Health. Substance proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 4, 277, 1974

IARC MONOGRAPH, SUPPL.4, 115, 1982

IARC MONOGRAPH, 54, 213, 1992

Product Name **Dimethyl sulphate**

C.A.S. number **77-78-1**

Scientific and common names, and synonyms

DIMETHYL ESTER SULFURIC ACID

METHYL SULFATE

SULFURIC ACID, DIMETHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the National Board of Occupational Safety and Health. Substance proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 48, , 1985

IPCS HEALTH AND SAFETY GUIDE, 29, , 1989

Product Name **Dimethylnitrosamine**

C.A.S. number **62-75-9**

Scientific and common names, and synonyms

DMNA

DMN

METHANAMINE, N-METHYL-N-NITROSO-

Legislative or regulation action

Product Name **Dimethylnitrosamine**

C.A.S. number **62-75-9**

Scientific and common names, and synonyms

N-NITROSODIMETHYLAMINE

N-NITROSO-N,N-DIMETHYLAMINE

N-NITROSO-DIMETHYLAMINE

N-METHYL-N-NITROSOMETHANAMINE

N-METHYL-N-NITROSO-METHANAMINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	1974	Exposure of workers to carcinogenic substances is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)
DEU	1 Oct 1980	Carcinogenic working material - Group I (very highly dangerous): greater than or equal to 0.1 g/kg (0.01%); Group II (highly dangerous): less than 0.1-0.01 g/kg (less than 0.01-0.001%); Group III (dangerous): less than 0.01-0.001 g/kg (less than 0.001-0.0001%). The use and handling of materials belonging to Groups I and II must be reported by the employer to the authorities. The authorities may forbid the employer the use of the material if a less harmful substitute exists. Certain security measures are listed which the employer has to follow. (BGBL I.S.1071,1536/2159,1980, and BGBL I.S. 2069,1980 as last amended by the reference given). (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the National Board of Occupational Safety and Health. Substance proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Product Name **Diphenyl ether, octabromo derivative**

C.A.S. number **32536-52-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	15 Feb 2003	The chemical is severely restricted. The placing on the market and use of diphenylether, octabromo derivative C ₁₂ H ₂ Br ₈ O is prohibited as follows: 1. as a substance or as a constituent of substances or of preparations in concentrations higher than 0.1% by mass. 2. in articles if they, or flame-retardant parts thereof, contain the substance in concentrations higher than 0.1% by mass. All applications where concentration exceeds 0.1% are prohibited. EC Member States shall comply with the Directive 2003/11/EC as from 15 August 2004. Concentrations lower than 0.1% will remain allowed thereafter. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)

Product Name **Diphenyl ether, pentabromo derivative**

C.A.S. number **32534-81-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name **Diphenyl ether, pentabromo derivative**

C.A.S. number **32534-81-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	15 Feb 2003	The chemical is severely restricted. The placing on the market and use of diphenylether, pentabromo derivative C ₁₂ H ₅ Br ₅ O is prohibited: 1. as a substance or as a constituent of substances or of preparations in concentrations higher than 0.1% by mass. 2. in articles if they, or flame retardant parts thereof, contain the substance in concentrations higher than 0.1% by mass. All applications where concentration exceed 0.1%, are prohibited. EC Member States shall comply with the Directive 2003/11/EC as from 15 August 2004. Concentrations lower than 0.1% will remain allowed thereafter. (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)

Product Name **Epichlorohydrin**

C.A.S. number **106-89-8**

Scientific and common names, and synonyms

ALPHA-EPOCHLOROHYDRIN
GAMMA-CHLOROPROPYLENE OXIDE
GLYCIDYL CHLORIDE
GLYCEROL EPICHLOROHYDRIN
(CHLOROMETHYL)ETHYLENE OXIDE
(CHLOROMETHYL)-OXIRANE
1-CHLORO-2,3-EPOXYPROPANE
1-CHLORO-2,3-EPOXY-PROPANE
2-(CHLOROMETHYL)OXIRANE
3-CHLOROPROPYLENE OXIDE
3-CHLOROPROPENE-1,2-OXIDE
3-CHLORO-1,2-PROPYLENE OXIDE
3-CHLORO-1,2-EPOXYPROPANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Carcinogenic working material - Group I (very highly dangerous); Group II (highly dangerous); Group III (dangerous); greater than or equal to 10.0 g/kg (1.0%). The use and handling of materials belonging to groups I and II must be reported by the employer to the authorities. The authorities may forbid the employer the use of the material if a less harmful substitute exists. Certain security measures are listed which the employer has to follow. (BGBL I.S.1071,1536/2159,1980, and BGBL I.S. 2069,1980 as last amended by the reference given). (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
NZL	1983	Under the provisions of the Toxic Substances Act, this product is labelled as a "poison".

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 33, , 1984
IPCS HEALTH AND SAFETY GUIDE, 10, , 1987

Product Name **Ethyl methyl sulphonate (EMS)**

C.A.S. number **62-50-0**

Scientific and common names, and synonyms

EMS

Legislative or regulation action

Product Name **Ethyl methyl sulphonate (EMS)**

C.A.S. number **62-50-0**

Scientific and common names, and synonyms

METHANESULFONIC ACID, ETHYL ESTER

METHANESULFONIC ACID, ETHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the National Board of Occupational Safety and Health. Substance proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Product Name **Ethylene dibromide (EDB) ***

C.A.S. number **106-93-4**

Scientific and common names, and synonyms

AETHYLENBROMID (DEU)

ALPHA,BETA-DIBROMOETHANE

BROMURO DIETILE (ITA)

DIBROMURO DE ETILENO (MEX)

DIBROMURE D'ETHYLENE (FRA)

DIBROMURO DE GLICOL

DWUBROMOETAN (POL)

DIBROMOETHANE

ETHYLENE BROMIDE

ETHANE, 1,2-DIBROMO-

GLYCOL BROMIDE

GLYCOL DIBROMIDE

SYM-DIBROMOETHANE

1,2-DIBROMAETHAN (DEU)

1,2-DIBROOMETHAAN (NLD)

1,2-DIBROMOETHANE (USA)

1,2-DIBROMOETHANE

1,2-DIBROMOETANO (ITA)

1,2-DIBROMETHANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 15, 195, 1977

FAO PLANT PRODUCTION & PROTECTION PAPER, 20, , 1979

Legislative or regulation action

Product Name **Ethylene dibromide (EDB) ***

C.A.S. number **106-93-4**

FAO PLANT PRODUCTION & PROTECTION PAPER, 20 SUP., , 1979
IARC MONOGRAPH, SUPPL.4, 124, 1982
FAO PLANT PRODUCTION & PROTECTION PAPER, 72/1, , 1985

Product Name **Ethylene thiourea**

C.A.S. number **96-45-7**

Scientific and common names, and synonyms

ETU
IMIDAZOLINE-2-THIOL
IMIDAZOLINE-2(3H)-THIONE
IMIDAZOLIDINETHIONE
MERCAPTOIMIDAZOLINE
N,N'-ETHYLENETHIOUREA
THIOUREA, N,N'-(1,2-ETHANEDIYL)
TETRAHYDRO-2H-IMIDAZOLE-2-THIONE
1,3-ETHYLENETHIOUREA
2-IMIDAZOLIDINETHIONE
2-MERCAPTOIMIDAZOLINE
2-MERCAPTO-2-IMIDAZOLINE
2-IMIDAZOLINE-2-THIOL
2-IMIDAZOLIDINETHIONE
4,5-DIHYDRO-2-MERCAPTOIMIDAZOLE

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 7, 45, 1974
IARC MONOGRAPH, SUPPL.4, 128, 1982
FAO PLANT PRODUCTION & PROTECTION PAPER, 78, , 1986
FAO PLANT PRODUCTION & PROTECTION PAPER, 78, 153, 1986
FAO PLANT PRODUCTION & PROTECTION PAPER, 84, 24, 1987
FAO PLANT PRODUCTION & PROTECTION PAPER, 86/1, 51, 1987
IPCS ENVIRONMENTAL HEALTH CRITERIA, 78, , 1988
FAO PLANT PRODUCTION & PROTECTION PAPER, 92, 21, 1988
FAO PLANT PRODUCTION & PROTECTION PAPER, 93/1, 97, 1988
FAO PLANT PRODUCTION & PROTECTION PAPER, 93/2, 19, 1989
FAO PLANT PRODUCTION & PROTECTION PAPER, 102, 32, 1990
FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 149, 1990
FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 52, 1993
FAO PLANT PRODUCTION & PROTECTION PAPER, 124, 351, 1993

Product Name **Ethylenimine**

C.A.S. number **151-56-4**

Scientific and common names, and synonyms

AZIRIDINE
AZIRIDINE

Legislative or regulation action

Product Name **Ethylenimine**

C.A.S. number **151-56-4**

Scientific and common names, and synonyms

AZIRAN

AZACYCLOPROPANE

DIMETHYLENIMINE

ETHYLENEIMINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	1974	Exposure of workers to carcinogenic substances is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Product Name **Halogenated naphthalenes**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1 Sep 1986	The manufacture, supply, import and use of the substance and of products which contain the substance shall be prohibited. Exception: the import of waste for disposal. (Applies to halogenated naphthalenes with formula $C_{10}H_{n-x}N_x$, x=halogen; 0 is less than or equal to n and n is less than or equal to 7). Reasons for the control action: long persistency; bioaccumulation; extremely toxic impurities. Formation of extremely toxic substances on thermolysis. (Reference: (CHEOS) Ordonnance sur les Substances Dangereuses pour l'Environnement (OSUBST), , , 09 June 1986)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)

Product Name **Halon 1211**

C.A.S. number **353-59-3**

Scientific and common names, and synonyms

METHANE, BROMOCHLORODIFLUORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	1 Jan 1999	Bromochlorodifluoromethane is severely restricted, as it is an ozone depleting substance. Some essential uses for military, research and health purposes remain. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
CHE	1 Jan 1992	Severely restricted chemicals (applies to Fully Halogenated Chlorofluorocarbons containing Bromine). Manufacture, supply, import of halons and of products which contain these substances is prohibited. Use still allowed are: a) Essential uses for protection of humans; b) Refilling and servicing of existing stationary equipment until 31

Legislative or regulation action

Product Name **Halon 1211**

C.A.S. number **353-59-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
FIN	1 Jan 1990	December 1997. Substances casue depletion of ozone layer. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.4,4.15,4.16, , 09 June 1986) The control action applies to Halon 1211, Halon 1301 and Halon 2402. Import of these chemicals is severely restricted. Import from countries which are not parties to the Montreal Protocol is prohibited. The use of Halons is restricted in fire-extinguishers and in other equipment for fire-fighting. Import from countries which have signed the Montreal Protocol of December 28, 1988 is still allowed. Action taken because of the contribution of halons to the depletion of the ozone layer in the stratosphere and to the global warming. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1998	Severely restricted. Halons 1211, 1301 and 2402 may not be used as fire-extinguishing agents when permanent fire-extinguishing devices are installed. These halons may not be used in fire-extinguishing devices after 31.12.1997. Nor may they be used in the course of business activities otherwise after this date, if less hazardous chemical products are available. Action taken to prevent detriment to the atmospheric ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **HCH-mixed isomers ***

C.A.S. number **608-73-1**

Scientific and common names, and synonyms

BENZENEHEXACHLORIDE, MIXED ISOMERS

CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-

CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (MIXED ISOMERS)

TECHNICAL HCH (APPROX. 64% ALPHA, 10% BETA, 13% GAMMA, 9% DELTA, 1% EPSILON ISOMERS)

1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE (MIXTURE OF ISOMERS)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ARG	20 Dec 1971	Prohibited for use in the cultivation, commerce and the industrial processing of tobacco. (Applies to all isomers except gamma-HCH). (Reference: (ADISS) Argentinian Legislation, Disposición, 80, , 1971)
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBl) Bundesgesetzblatt, IS.140, , 1982)

Bibliographical references

IARC MONOGRAPH, 5, 47, 1974

FAO PLANT PRODUCTION & PROTECTION PAPER, 15, , 1978

IARC MONOGRAPH, 20, 195, 1979

IARC MONOGRAPH, SUPPL.4, 133, 1982

Product Name **Hexamethylphosphotriamide (HMPA)**

C.A.S. number **680-31-9**

Scientific and common names, and synonyms

HMPA

Legislative or regulation action

Product Name **Hexamethylphosphotriamide (HMPA)**

C.A.S. number **680-31-9**

Scientific and common names, and synonyms

PHOSPHORIC TRIAMIDE, HEXAMETHYL-

PHOSPHORIC TRIAMIDE, HEXAMETHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)
USA	2 May 1986	HMPA has been voluntarily withdrawn from use by industry. Commercial manufacture, import and processing of HMPA ceased in 1982 because of its adverse toxicological properties and since less expensive substitutes were available. No new industrial uses are allowed without notifying EPA. The control action was based on a national review of scientific data. HMPA is a suspect human carcinogen, a known animal carcinogen, and gives positive results in mutagenic assays. Furthermore, the chemical causes sterility, testicular atrophy, and lung and kidney damage in animals. With respect to environmental effects, HMPA is lethal at relatively high levels to aquatic and terrestrial animals, it may effect the fertility of male terrestrial animals, it is a chemosterilant for insects, and it has low potential to bio-accumulate. Data indicates HMPA will leach if released into soil. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Hydrazine**

C.A.S. number **302-01-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	1974	Exposure of workers to carcinogenic substances is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)
DNK	Apr 1982	Considered carcinogenic and prohibited for use in central heating plants.
Bibliographical references		
IARC MONOGRAPH, 4, 127, 1974		
IARC MONOGRAPH, SUPPL.4, 136, 1982		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 68, , 1987		
IPCS HEALTH AND SAFETY GUIDE, 56, , 1991		

Product Name **Iodine**

C.A.S. number **7553-56-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
POL		Iodine and compounds thereof: not allowed for washing appliances and apparatus used in milking and milk processing. (Reference: (POLIP) Instytut Przemysłu Organicznego, , , 1987)
Bibliographical references		
WHO FOOD ADD., 24, 267, 1989		

Legislative or regulation action

Product Name **Lead and lead compounds**

C.A.S. number **7439-92-1**

Scientific and common names, and synonyms

LEAD

LEAD (GENERIC)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	13 Aug 1987	Member States shall, as soon as they consider it appropriate, reduce the maximum permitted lead content in leaded petrol to 0.15g pb/l. They shall ensure the availability and balanced distribution of unleaded petrol from 1 October 1989. Until 1 April 1990 they may allow the contamination of unleaded petrol by lead compounds to exceed 0.013g pb/l provided it does not exceed 0.020g pb/l. From 1 October 1989 the benzene content of leaded and unleaded petrol shall not exceed 5.0% by volume. At least one unleaded petrol shall have a minimum motor octane number of 85.0 and a minimum research octane number of 95.0 at the pump. Reference methods for the determination of the lead and benzene contents in petrol and of the octane ratings are mentioned. (Council Directive 85/210/EEC - OJEC L96,25,1985 as last amended by the reference given). (Directive 78/611/EEC (OJEC L197,19,1978) ceased to be applicable on 31 December 1985). (Reference: (OJEC) Official Journal of the European Communities, L225, 33, 1987)
ARG	1 Jan 1926	Prohibited in manufacturing, sale and use of lead-based paints. (Reference: (AORDM) Argentinian Legislation, Ordenanza, BM583 AD710, 12,)
AUS	1984	The maximum allowable lead content in unleaded petrol is 0.013 g/l. The maximum allowable lead content on leaded petrol varies from 0.15 g/l to 0.84 g/l depending on individual state legislation. (Reference: (AUSST) Australian Standard, 1876.2, , 1984)
CHE	1972	The use of alkyl lead compounds for any purpose whatsoever in products for public use (substances intended for private and commercial use) or in commercial products (substances intended for use in trade and industry) is prohibited. (Reference: (RSCHE) Receuil Systématique du Droit Federal, 814.839, , 1985)
DEU	1 Oct 1980	Fertile women may not be exposed to lead-containing materials. (This regulation applies to working materials which contain more than 2% (wt/wt) of lead, except tetraethyl and tetramethyl lead). (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
JPN	May 1962	Tetraalkyl lead is designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. The use designated by Cabinet Order is limited to mixing in gasoline.
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
Bibliographical references		
IARC MONOGRAPH, 1, 40, 1972		
IARC MONOGRAPH, 2, 150, 1973		
IARC MONOGRAPH, 2, 52, 1973		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 3, , 1977		
WHO FOOD ADD., 13, 38, 1978		
IARC MONOGRAPH, 23, 205, 1980		
IARC MONOGRAPH, 23, 325, 1980		
IARC MONOGRAPH, 23, 39, 1980		
IARC MONOGRAPH, SUPPL.4, 149, 1982		
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984		
WHO FOOD ADD., 21, 223, 1987		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 85, , 1989		

Legislative or regulation action

Product Name **Lead carbonate**

C.A.S. number **598-63-0**

Scientific and common names, and synonyms

CARBONIC ACID, LEAD(2+) SALT (1:1)

CERUSSETTE

CARBONIC ACID, LEAD(2+) SALT (1,1)

DIBASIC LEAD CARBONATE

LEAD(2+) CARBONATE

WHITE LEAD

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
FIN		Lead sulphate and white lead are severely restricted because of high toxicity. (Reference: (FDMSA) Decision of the Ministry of Social Affairs and Health, 265/29, ,)
GBR	1 Jan 1992	No person shall supply or use lead carbonate as paint or any substance of which it is a constituent. Use still allowed if: 1) supplied to user before regulations came into force; 2) supplied for use in the restoration or maintenance of an historic building or a work of art, after a declaration form has been completed and approved by the competent authority. Control introduced under the 8th Amendment (Directive 89/677/EEC) of the European Marketing and Use Directive 76/769/EEC. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Lead carbonate hydroxide**

C.A.S. number **1319-46-6**

Scientific and common names, and synonyms

LEAD, BIS[CARBONATO(2-)]DIHYDROXYTRI-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
FIN	1 Oct 1929	The control action applies to lead carbonate hydroxide (CAS No. 1319-46-6) and lead carbonate (CAS No. 598-63-0). Use in paints severely restricted. The use of paints containing more than 2% lead is restricted. Young persons (under 18 years) and women are not allowed to use these paints. Some special protective arrangements have to be made on places where these paints are used. Import of these lead compounds is banned. Use of paints containing more than 2% lead is still allowed in the following cases: the labour protection authorities can give exceptional permission to use such paints for painting of buildings in factories and in connection to railways; paints containing lead can be used to make decorating lines and figures; such paints can be used for restoration or works of art and historical buildings. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR	1 Jan 1992	No person shall supply or use lead carbonate as paint or any substance of which it is a constituent. Use still allowed if: 1) supplied to user before regulations came into force; 2) supplied for use in the restoration or maintenance of an historic building or a work of art, after a declaration form has been completed and approved by the competent authority. Control introduced under the 8th Amendment (Directive 89/677/EEC) of the European Marketing and Use Directive 76/769/EEC. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Lead sulfate**

C.A.S. number **7446-14-2**

Scientific and common names, and synonyms

Legislative or regulation action

Product Name **Lead sulfate**

C.A.S. number **7446-14-2**

Scientific and common names, and synonyms

SULFURIC ACID, LEAD(2+)SALT (1:1)

SULFURIC ACID, LEAD(2+) SALT (1,1)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
FIN	1 Oct 1929	The control action applies to lead sulfate (CAS No. 7446-14-2 and 15739-80-7). Use in paints is severely restricted. The use of paints containing more than 2% lead is restricted. Young persons (under 18 years) and women are not allowed to use these paints. Some special protective arrangements have to be made on places where these paints are used. Import of these lead compounds is banned. Use of paints containing more than 2% of lead is still allowed in the following cases: the labour protection authorities can give exceptional permission to use such paints for painting of buildings in factories and in connection to railways; paint containing lead can be used to make decoration lines and figures; such paints can be used for restoration of works of art and historical buildings. High risk to human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN		Lead sulphate and white lead are severely restricted because of high toxicity. (Reference: (FDMSA) Decision of the Ministry of Social Affairs and Health, 265/29, , ,)
GBR	1 Jan 1992	No person shall supply or use lead sulfate as paint or any substance of which it is a constituent. Use still allowed if: 1) supplied to user before regulations came into force; 2) supplied for use in restoration or maintenance of an historic building or a work of art, after a declaration form has been completed and approved by the competent authority. Control introduced under the 8th amendment (Directive 89/677/EEC) of the European Marketing and Use Directive 67/677/EEC. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Magenta**

C.A.S. number **632-99-5**

Scientific and common names, and synonyms

BENZENAMINE, 4-[(4-AMINOPHENYL)(4-IMINO-2,5-CYCLOHEXADIEN-1-YLIDENE)METHYL]-2-METHYL-, MONOHYDROCHLORIDE

BENZENAMINE, 4-[(4-AMINOPHENYL)(4-IMINO-2,5-CYCLOHEXADIEN-1-YLIDENE) METHYL]-2-METHYL-, MONOHYDROCHLORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
GBR	9 Dec 1967	Controlled use. User to take all practicable steps to prevent the risk of inhaling, ingesting or otherwise absorbing the substances: storage in closed receptacle legibly marked; provision of cautionary card and medical examination for workers. Evidence of carcinogenicity. (Reference: (GBRSI) Statutory Instruments, 36, , 1973)

Bibliographical references

IARC MONOGRAPH, 4, 57, 1974

Product Name **Mercury and mercury compounds ***

C.A.S. number **7439-97-6**

Scientific and common names, and synonyms

MERCURY

Legislative or regulation action

Product Name **Mercury and mercury compounds ***

C.A.S. number **7439-97-6**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Mar 1992	It is prohibited to use or place on the market all plant protection products containing inorganic or organic (alkyl, alkoxyalkyl and aryl mercury compounds) as an active ingredient. In addition, mercury compounds may not be used as substances and constituents of preparations intended for the following biocide uses: a) to prevent the fouling by micro-organisms, plants or animals of: the hulls of boats, cages, floats, nets and other appliances or equipment used for fish or shellfish farming; any totally or partly submerged appliances or equipment; b) in the preservation of wood; c) in the impregnation of heavy-duty industrial textiles and yarn intended for their manufacture; d) in the treatment of industrial waters, irrespective of their use. The specific compounds considered as inorganic or organic compounds are defined in a list available from the DNA. Metallic mercury is, however, neither subject to control actions in the plant protection use area nor in the biocide use area. A great number of mercury compounds are still allowed for industrial purposes. Inorganic and organic (alkyl, alkoxyalkyl and aryl) mercury compounds are persistent in the environment. They are likely to bioaccumulate and produce food-chain effects on terrestrial and aquatic organisms. In addition, organic mercury compounds (alkyl, alkoxyalkyl and aryl mercury compounds) were mainly used as seed treatments and especially alkyl mercury compounds are highly volatile, these compounds pose a high risk to the operator during seed treatment if this process is done in small scale and more or less manually, which is the usual case in small farms. The high volatility poses further a high risk to health when the seed is spread. Plant protection use: Directive 79/11/EEC (OJ L33/36 of 28.02.79) as amended by Directive 91/188/EEC. (Reference: (OJEC) Official Journal of the European Communities, L92/42, , 13 Apr 1991)
CHE	1 Sep 1986	Severely restricted chemical. The following uses are prohibited: a) Supply by manufacturers of products and articles containing mercury; b) Import of products and articles containing mercury as commercial goods; c) Use of elementary mercury, mercury compounds and products containing mercury. The prohibition does not apply to the supply by manufacturers of the import as commercial goods of: pharmaceutical products; seed dressing; sealing agents for trees; antiques. If there is no replacement amount product that does not contain mercury and provided that no more than the minimum amount of mercury necessary for the intended use is employed, the prohibition does not apply to the supply by manufacturers nor the import as commercial goods of: measuring, control or laboratory instruments; bulbs and light tubes; artists' colours for restoration; products for dental fillings; auxiliary substances for manufacturing processes. Special provisions apply for batteries. Bioaccumulation of organic derivatives, neurotoxicity. (Reference: (CHEOE) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.2, , 09 June 1986)
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
HUN	30 Nov 1990	Organic mercury compounds are banned for all agricultural uses. Industrial use is not subject to the decision but no industrial use have been registered so far in Hungary. (applies to ethylmercury chloride (Granosan), phenyl mercury pyrocatechin-sodium (falsan), 2-methoxy-ethylmercury silicate (Higonit, Nitrosil) and 2-methoxyethylmercury chloride (Merklorate, Ceresan Universal, Radosan)). Environmental pollution. (Reference: (HUNODW) Official Document of Withdrawal, , , 1990)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
LKA	30 Jun 1987	The control action applies to mercurial biocides. Mercurial biocides are severely restricted pesticides. All mercury based agro-pesticides. Mercuric oxide, phenyl mercury acetate. Ethoxy ethyl mercury hydroxide are banned for use (seed dressings, plant dressings for trees, etc). Industrial uses as in can preservative for paints have been withdrawn.

Legislative or regulation action

Product Name **Mercury and mercury compounds ***

C.A.S. number **7439-97-6**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
		Control actions based on the reports of health and environmental aspects. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1987)
NZL	1983	Under the provisions of the Toxic Substances Act mercury compounds are available to commercial users only and must be labelled as a dangerous poison.
USA	Aug 1976	The Environmental Protection Agency has cancelled all uses except the following: as a fungicide in the treatment of textiles and fabrics intended for continuous outdoor use; as a fungicide to control brown mold on freshly-sawn lumber; as a fungicide treatment to control Dutch Elm disease; as an in-can preservative in water-based paints and coatings used for exterior application; as a fungicide to control "winter turf diseases" such as sclerotinia boreales, and gray and pink snow mold subject to the following: "the use of these products shall be prohibited within 25 feet of any water body where fish are taken for human consumption". (Reference: (FEREAC) Federal Register, 41, 16497, 1976)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 1, , 1976
WHO FOOD ADD., 13, 43, 1978
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
WHO FOOD ADD., 24, 295, 1989
IPCS ENVIRONMENTAL HEALTH CRITERIA, 101, , 1990
IPCS ENVIRONMENTAL HEALTH CRITERIA, 118, , 1991
IARC MONOGRAPH, 58, 239, 1993

Product Name **Methanol**

C.A.S. number **67-56-1**

Scientific and common names, and synonyms

METHYL ALCOHOL
METHANOL

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jul 1973	Motor radiator fluid, windscreen cleaner fluid or other automotive fluids containing methanol may not be offered for sale or transferred unless they also contain ethanol and the methanol content is no more than 5% (wt/wt) of the ethanol quantity. (Reference: (SVENF) Svensk Foerfattningssamling, 334, 1, 1973)
THA	29 Mar 1985	Registration of methanol used as organic solvent in thinner has been prohibited. It can cause damage to the health of humans and animals. Notification issued under the Poisonous Article Act No.2 (1973). (Reference: (MININ) Notification of the Ministry of Industry, 26, , 1985)

Product Name **Methyl chloromethyl ether**

C.A.S. number **107-30-2**

Scientific and common names, and synonyms

CHLOROMETHOXYMETHANE
CHLORODIMETHYL ETHER
DIMETHYLCHLOROETHER
ETHER, CHLOROMETHYL METHYL

Legislative or regulation action

Product Name **Methyl chloromethyl ether**

C.A.S. number **107-30-2**

Scientific and common names, and synonyms

METHANE, CHLOROMETHOXY-
MONOCHLORODIMETHYL ETHER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	26 Aug 1998	Chloromethyl methyl ether is prohibited for manufacture, use, procession, sale, offering for sale and import by authority of Schedule I of the Canadian Environmental Protection Act. These restrictions do not apply to certain research purposes. Demonstrated to cause cancer in experimental animals and humans. CMME considered a non-threshold toxicant. Lung and respiratory cancer in particular. While no research exists on environmental toxicity, low persistence along with no use means no current environmental toxicity suspected. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
DEU	1 Oct 1980	Carcinogenic working material - Group I (very highly dangerous): greater than or equal to 10.0 g/kg (1.0%); Group II (highly dangerous): less than 10.0-1.0 g/kg (less than 1.0-0.1%); Group III (dangerous): less than 1.0 g/kg (0.1%). The use and handling of materials belonging to Groups I and II must be reported by the employer to the authorities. The authorities may forbid the employer the use of the material if a less harmful substitute exists. Certain security measures are listed which the employer has to follow. (BGBL I.S.1071,1536/2159,1980, and BGBL I.S. 2069,1980 as last amended by the reference given). (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ISR	1984	Production, use, storage and transport banned without a permit from the Ministry of Industry. Carcinogenic substance. (Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 4739, 415, 1984)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Product Name **Methyl isocyanate**

C.A.S. number **624-83-9**

Scientific and common names, and synonyms

METHANE, ISOCYANATO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	Methyl isocyanate is classified in categories 4 of Hazardous Substances Act where the production, import, export, and having in the possession is banned. Highly toxic and no industrial use in Thailand. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Methyl nitrosourea**

C.A.S. number **684-93-5**

Scientific and common names, and synonyms

MNU
NMU
NMM
NITROSOMETHYLUREA
N-NITROSO-N-METHYLUREA
N-NITROSO-N-METHYLCARBAMIDE
N-METHYL-N-NITROSOUREA
N-METHYL-N-NITROSO-UREA
UREA, N-METHYL-N-NITROSO-
1-NITROSO-1-METHYLUREA
1-METHYL-1-NITROSOUREA
1-METHYL-1-NITROSO-UREA

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1979	Banned. The substance is carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Product Name **Methylenebis-O-Chloraniline**

C.A.S. number **101-14-4**

Scientific and common names, and synonyms

BENZENAMINE, 4,4'-METHYLENEBIS[2-CHLORO-
4,4'-METHYLENEBIS(2-CHLOROBENZENAMINE)]

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 4, 65, 1974

Product Name **Methylmethane sulphonate**

C.A.S. number **66-27-3**

Scientific and common names, and synonyms

METHANESULFONIC ACID, METHYL ESTER

Legislative or regulation action

Product Name **Methylmethane sulphonate**

C.A.S. number **66-27-3**

Scientific and common names, and synonyms

MMS

METHANESULFONIC ACID, METHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 7, 253, 1974

Product Name **Mirex**

C.A.S. number **2385-85-5**

Scientific and common names, and synonyms

CYCLOPENTADIENE, HEXACHLORO-, DIMER

CROTONAMIDE, 3-HYDROXY-N-METHYL-, DIMETHYLPHOSPHATE, (E)

CROTONAMIDE, 3-HYDROXY-N-METHYL-DIMETHYLPHOSPHATE, CIS

DODECACHLOROOCCTAHYDRO-1,3,4-METHENO-2H-CYCLOBUTA(C,D)PENTLENE

DODECACHLOROPENTACYCLO(3,3,2,0(SUP 2,6),0(SUP 2,6),0(SUP 3,9)0(SUP 7, 10))DECANE

DODECACHLOROPENTACYCLODECANE

DECANE, PERCHLOROPENTACYCLO

HEXACHLOROCYCLOPENTADIENE DIMER

PERCHLORO PENTACYCLODECANE

PERCHLORODIHOMOCUBANE

PERCHLOROPENTACYCLO(5.2.1.0(SUP 2,6),0(SUP 3,9),0(SUP 5,8)DECANE

1,3,4-METHENO-1H-CYCLOBUTA[CD]PENTALENE, 1,1A,2,2,3,3A,4,5,5,5A,5B,6-DODECACHLOROOCCTAHYDRO-

1,1A,2,2,3,3A,4,5,5,5A,5B,6-DODECACHLOROOCCTAHYDRO-1,3,4-METHENO-1H- CYCLOBUTA(CD)PENTALENE

1,3-CYCLOPENTADIENE, 1,2,3,4,5,5-HEXACHLORO-, DIMER

1,3,4-METHENO-1H-CYCLOBUTA(CD)PENTALENE, DODECACHLOROOCCTAHYDRO

1,3,4-METHENO-1H-CYCLOBUTA(CD)PENTALENE, 1,1A,2,2,3,3A,4,5,5,5A,5B,6- DODECACHLOROOCCTAHYDRO

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	26 Aug 1998	Mirex prohibited for manufacture, use, processing, sale and import for industrial uses. Only certain research and scientific uses allowed. In humans, mirex is stored mainly in fat tissue, where it is not broken down. Mirex has been demonstrated to cause cancer in experimental animals and possible carcinogenic to humans. Available information indicates persistence in environment. Bioaccumulation in living tissue. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Bibliographical references

IARC MONOGRAPH, 5, 203, 1974

IARC MONOGRAPH, 20, 283, 1979

IPCS ENVIRONMENTAL HEALTH CRITERIA, 44, , 1984

IPCS HEALTH AND SAFETY GUIDE, 39, , 1990

Legislative or regulation action

Product Name	N,N'-Diacetylbenzidine	
C.A.S. number	613-35-4	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
BEL	1974	Exposure of workers to carcinogenic substances is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)

Product Name	Naphthalene polychlorinated	
C.A.S. number	70776-03-3	
Scientific and common names, and synonyms		
NAPHTHALENE, CHLORO DERIVS.		
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
AUT	23 Mar 1993	The control action applies to all halogenated naphthalenes. Banned for use. Persistence in the environment and bioaccumulation in the food chain and in fatty tissues. When heated they have the ability to form highly toxic decomposition products. (Reference: (AUTFLG) Federal Law Gazette, No. 210/1993, , 1993)
CHE	1 Sep 1987	Totally banned chemical.: manufacture, supply, import and use of the substance and of products which contain the substance is prohibited. Long persistency, bioaccumulation, extremely toxic impurities, formation of extremely toxic substances on thermolysis. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)

Product Name	Naphthalenes	
C.A.S. number	91-20-3	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
JPN	14 Aug 1979	Designated as a "first class specified chemical substance". Without authorization from the Government its manufacture and import are prohibited. Uses other than those specified by Cabinet Order are prohibited. It is prohibited to import specified products containing the substance. These prohibitions are due to the substance's hazardous properties in terms of persistence, bioaccumulative characteristics and chronic toxicity. (Applies to polychlorinated naphthalenes containing more than two chlorine atoms). (Reference: (JPNCO) Japanese Cabinet Order, , , 14 Aug 1979)

Product Name	NCC ether	
C.A.S. number	94097-88-8	
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
CAN	26 Aug 1998	NCC ether is banned. Only scientific research uses remain allowed. Persistent. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Nickel carbonyl**

C.A.S. number **13463-39-3**

Scientific and common names, and synonyms

NICKEL CARBONYL (Ni(CO)₄), (T-4)-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	Nickel tetracarbonyl is classified in categories 4 of Hazardous Substances Act where the production, import, export, and having in the possession is banned. Carcinogen and no industrial use in Thailand. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Nitrites in cutting oils and fluids**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	Jan 1981	Under the conditions of the Hazardous Products Act, it is prohibited to advertise, sell or import cutting oils and cutting fluids, for use in lubricating and cooling the cutting area in machining operations, that contain more than 50 micrograms per gram of any nitrite, when monoethanolamine, diethanolamine or triethanolamine is also present.

Bibliographical references

WHO FOOD ADD., 10, 88, 1976

Product Name **Nonylphenoethoxylate**

C.A.S. number **9016-45-9**

Scientific and common names, and synonyms

CYCLOPROPANECARBOXYLIC ACID, 3-(DIHYDRO-2-OXO-3(2H)-THIEN-

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-(NONYLPHENYL)-.OMEGA.-HYDROXY-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1 Sep 1986	Severely restricted chemical. Supply, import and use of detergents containing nonylphenoethoxylate are prohibited (applies to nonylphenol condensed with 3 or more molesethylene oxide). Detergents mean washing agents and washing auxiliary products for textiles. This use constitutes a major industrial use of the chemical. Persistence of nonylphenol unit. Ordinance relating to Environmentally Hazardous Substances, 9 June 1986, Annex 4.1 (Reference: (CHEOE) Ordinance relating to Environmentally Hazardous Substances, Annex, 4.1, , 09 June 1986)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)

Product Name **Octylphenoethoxylate**

C.A.S. number **9036-19-5**

Scientific and common names, and synonyms

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-[(1,1,3,3-TETRAMETHYLBUTYL)PHENYL]-.OMEGA.-HYDROXY-

Legislative or regulation action

Product Name **Octylphenoethoxylate**

C.A.S. number **9036-19-5**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1 Sep 1986	Severely restricted chemical : Supply, import and use of detergents containing octylphenoethoxylate are prohibited (Applies to octylphenol condensed with 3 or more moles ethylene oxide). Detergents means washing agents and washing auxiliary products for textiles. This use constitutes a major industrial use of the chemical. Persistence of the octylphenol unit. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)

Product Name **Oxygen**

C.A.S. number **7782-44-7**

Scientific and common names, and synonyms

OXYGEN (DOT)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		The substance must not be used for ventilation for welding and cutting operations. (Reference: (CFRUS) Code of Federal Regulations, 29(1910), 555, 1981)

Product Name **Pentachloroethane**

C.A.S. number **76-01-7**

Scientific and common names, and synonyms

ETHANE, PENTACHLORO-

ETHANE, PENTACHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Working materials which contain more than 1% (wt/wt) of carbon tetrachloride, tetrachloroethane or pentachloroethane may not be used. This does not apply when for technical reasons the substances cannot be replaced by other less harmful substances or formulations. Technical requirements for the protection of the workers against any exposure to vapour, gas or mist. Hygienic requirements concerning clothing, washing facilities and food (including tobacco). Medical surveillance of workers at certain time periods is obligatory. Workers who handle working materials which contain more than 1% (wt/wt) of carbon tetrachloride, tetrachloroethane or pentachloroethane may not be exposed for more than 8 hours per day and 40 hours per week (42 hours per week in plants with four shifts). (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
USA	23 Oct 1986	Pentachloroethane has been voluntarily withdrawn from use by industry. No U.S. firms have manufactured pentachloroethane since 1984. No new industrial uses are allowed without notifying EPA. The control action was based on a national review of scientific data. Pentachloroethane has been found to be an animal carcinogen and, in turn, may be a human carcinogen. It also may be capable of causing rare renal adenomas and pathological changes in the lungs, liver and kidneys of animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name	Pentachloroethane		
C.A.S. number	76-01-7		
Bibliographical references	IARC MONOGRAPH, 41, , 1986		
Product Name	Pentachlorophenol *		
C.A.S. number	87-86-5		
Scientific and common names, and synonyms	PHENOL, PENTACHLORO- PHENOL, PENTACHLORO PENTACHLOROFENOLO (ITA) PENTACHLORPHENOL (DEU) PENTACHLOROPHENATE PENTACHLOORFENOL (NLD) PCP 2,3,4,5,6-PENTACHLOROFENOL 2,3,4,5,6-PENTACHLOROPHENOL		
Legislative or regulatory action			
Country	Effective Date	Description of action taken Grounds for decision	
@EC	1 Jul 1992	Pentachlorophenol, its salts and esters shall not be used in a concentration equal to or greater than 0.1% by mass in substances or preparations placed on the market for use by the general public. Does not apply to substances and preparations for use in industrial installations with emission and/or discharge of PCP not greater than those prescribed by existing legislation; and only (a) in the treatment of wood neither intended for use inside buildings, nor for manufacture of containers intended for growing purposes, nor manufacture of packaging for products intended for human and/or animal consumption; b) in the impregnation of fibres and heavy-duty textiles not intended for clothing or for decorative furnishing; (c) as a synthesizing and/or processing agent in industrial processes; (d) by special exceptions by Member States. In all the above-listed cases PCP used alone or in preparations must have a total hexachlorodibenzoperadioxin content less than 4ppm, and these preparations and substances may not be placed on the market in packages less than 20L nor sold to the public. PCP, its salts and its esters are dangerous to man and the environment, and in particular to the aquatic environment. They have been classified by the EC as category 3 carcinogen (possibly carcinogenic to humans). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)	
BLZ	28 Dec 1985	Severely restricted. Wood preservation purposes only by approved and certified establishments and personnel. Oncogen, mutagen, teratogen. High dermal toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)	
CAN	Nov 1980	Suspended for use as slimicides in pulp and paper mill operations; and as microbiocides in curing hides, by the Plant Products and Quarantine Division, Agriculture Canada. For chlorophenols and derivatives used as additives to textiles, the following limitation was added to product labels: "Do not incorporate into materials of which end use will result in prolonged skin contact, e.g. life jackets, sleeping bags, sports equipment." Information available in literature suggests that potential occupational, bystander, human and animal health hazards may be associated with certain registered uses of chlorophenol products.	
DEU	1 Nov 1993	The professional production and the placing on the market of pentachlorophenol, its sodium salt and its other salts as such, in preparations with a content more than 0,01% or in products containing more than 5 mg/kg (ppm) is banned. The ban shall not apply to wood components of buildings and furnitures or textiles treated before 23.12.1989. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)	
FIN	1985	Production of sodium chlorophenolates for biocid use for saw and timber industry ceased in 1984.	

Legislative or regulation action

Product Name **Pentachlorophenol ***

C.A.S. number **87-86-5**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
IDN	26 Jan 1980	Prohibited for all use. No remaining use allowed. Extremely toxic, may be fatal if swallowed or absorbed through skin, causes skin irritation, vapors will cause injury. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND	17 May 1991	Banned. High toxicity to man, animals, aquatic organisms and presence of toxic impurities in commercial products. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	10 Oct 1992	In the Netherlands a ban is in force for use as pesticide and a ban is in force for use as industrial chemical. High concentration of active substance, metabolites and contaminants in the environment. High toxicity for aquatic organisms. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	31 Dec 1991	All uses and products banned. In pesticides Board Minutes of 13 May 1992, agreement in principle to permit re-introduction in closed timber treatment systems at approved sites with specific conditions on disposal of waste. These conditions have not been met and therefore no products are registered, no use permitted and no imports allowed. Human health (acute toxicity) and environmental persistence. (Reference: (NZLPBM) Pesticides Board Minutes, , , 1990)
SWE	1 Jan 1978	Pentachlorophenol and other chlorophenols are banned because of highly toxic impurities in commercial products. (Reference: (PKB) Produktkontrollnaemndens Beslut från Den, , , 01 Jan 1978)

Bibliographical references

IARC MONOGRAPH, 20, 303, 1979
 IARC MONOGRAPH, SUPPL.4, 205, 1982
 IARC MONOGRAPH, SUPPL.4, 88, 1982
 WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
 IARC MONOGRAPH, 41, , 1986
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 71, , 1987
 IPCS HEALTH AND SAFETY GUIDE, 19, , 1989

Product Name **Phenyl-beta-naphthylamine**

C.A.S. number **135-88-6**

Scientific and common names, and synonyms

ACETO PBN
 AGERITE POWDER
 ANILINONAPHTHALENE
 ANTIOXIDANT 116
 ANTIOXIDANT PBN
 BETA-NAPHTHYLPHENYLAMINE
 NEOZON D
 N-(2-NAPHTHYL)ANILINE
 N-PHENYL-BETA-NAPHTHYLAMINE
 NEOZONE
 NEOZONE D
 NILOX PSNA
 NONOX D
 N-PHENYL-2-NAPHTHYLAMINE
 PHENYL-2-NAPHTHYLAMINE
 PHENYLAMINONAPHTHALENE

Legislative or regulation action

Product Name **Phenyl-beta-naphthylamine**

C.A.S. number **135-88-6**

Scientific and common names, and synonyms

PSNA
STABILIZATOR AR
2-NAPHTHALENAMINE, N-PHENYL-
2-ANILINONAPHTHALENE
2-NAPHTHYLPHENYLAMINE
2-NAPHTHYLAMINE, N-PHENYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Product Name **Phosphorus**

C.A.S. number **7723-14-0**

Scientific and common names, and synonyms

AMORPHOUS, RED (DOT)
PHOSPHORUS
PHOSPHORUS (YELLOW)
WHITE PHOSPHORUS

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	All uses banned. High toxicity and high risk of accidental poisoning. Phosphorous is very toxic to fish and other aquatic animals. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
GBR		Importation of matches made with white phosphorus and use of white phosphorus in manufacture of matches are prohibited. Exposure was shown to cause acute effects on the liver if toxic quantities were absorbed; long-term absorption leads to chronic poisoning and bone necrosis. (Reference: (GBFAA) Factories Act, 34, 67/77, 1961)
JPN	1972	Banned because of the possibility of chronic phosphorus intoxication, including such effects as bone gangrene, etc. Export is prohibited. (Reference: (JPNIS) Industrial Safety and Health Law, 55, , 01 Oct 1972)
SWE	1 Jul 1973	Matches whose head composition contains white or yellow phosphorous may not be offered for sale or transferred. (Reference: (SVENF) Svensk Foerfattningssamling, 334, 1, 1973)

Product Name **Polybrominated biphenyls (PBBs)**

C.A.S. number **59536-65-1**

Scientific and common names, and synonyms

BPP
BIPHENYLES POLYBROMURES
FIREMASTER FF1
PBBS

Legislative or regulation action

Product Name Polybrominated biphenyls (PBBs)**C.A.S. number 59536-65-1****Scientific and common names, and synonyms**

1,1'-BIPHENYL,2,2',3,3',4,4',5,5',6,6'-DECABROMO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	19 Nov 1984	The control action applies to PBBs. PBBs may not be used in textile articles, such as garments, undergarments and linen, intended to come into contact with the skin. Major uses related to flame retardation are still permitted. PBBs may constitute serious risks to health and the environment. (Directive 83/264/EEC of 16.5.83) (Reference: (OJEC) Official Journal of the European Communities, L147/9, , 06 June 1983)
CAN	1 May 1979	All commercial, manufacturing and processing uses are banned for the purpose of subsection 8(2) of the Environmental Contaminants Act. Reasons: PBBs accumulate in food chains. Evidence exist for chronic toxicity to various species and that they are embryo-toxic and teratogenic. (Reference: (CAGAAK) Canada Gazette Part II, 113, 1563, 17 Apr 1979)
CHN	1 May 1994	The control action applies to hexa-, deca- and octabromobiphenyl. Severely restricted for registration, production, sale and industrial use as any product. Highly toxic and residual in environment and organism. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ECU	01 May 2001	The chemical is banned. Prohibited for importation, formulation, manufacturing and final disposal in the national territory of the substances: polychlorinated biphenyls, pentachlorofenol, crocidolite, polybrominated biphenols, polychlorinated terphenyls and tris (2,3-dibromopropyl) phosphate on the basis that they cause environmental pollution and have toxic effects against human health. All uses of PBBs are banned. PBBs are persistent in living organisms, and promote cancers of the digestive system and lymph nodes. Long term exposure has been associated with nausea, abdominal pain, loss of appetite, joint pain, fatigue and weakness. PBBs are resistant to degradation and persistent in both water and soil. Because of their high solubility in fat, they bioaccumulate, especially in the fatty tissue of living organisms. There is evidence to suggest chronic toxicity in a variety of wildlife species. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
GAM	09 Oct 1996	The chemical is banned. The product is not currently used in The Gambia. All uses are prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	5 Feb 1985	Ban of supply of polybrominated biphenyls. Action taken for consumer protection. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
HUN	01 Jan 2001	The chemical is banned. PBBs may not be used for the production of textile articles (clothes, underwear, bedclothes, etc.) to come into contact with human skin. All other uses than the use in textile articles intended to come in contact with the skin are continued. PBBs cause weight loss, liver damage, porphyria, effects on the central nervous system, skin, eyes and the immune system, effects on reproduction, they are weakly teratogenic (embryotoxic) in cattle and laboratory animals. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
USA	Nov 1980	All use of hexabromobiphenyls, the main PBB isomer used in industrial processes, was discontinued in 1974 because of the hazard to human health discovered after its accidental use in Michigan in 1973. The Environmental Protection Agency has since required notification regarding any manufacture or importation of PBBs. The purpose of this requirement is to confirm that there are no significant sources of these substances and to ensure that EPA has the opportunity to investigate the circumstances of any

Legislative or regulation action

Product Name **Polybrominated biphenyls (PBBs)**

C.A.S. number **59536-65-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	11 Mar 1987	<p>resumption of production. (Reference: (FEREAC) Federal Register, 208, , 1980)</p> <p>PBBs have been voluntarily withdrawn from use by industry. PBBs have not been manufactured in, imported into, or processed in the US for commercial purposes since at least 1980. No new industrial uses are allowed without notifying EPA. The control action applies to PBBs including: 4-bromobiphenyl (CAS 92-66-0); 4,4-dibromobiphenyl (CAS 92-86-4), 2-bromobiphenyl (CAS 2052-07-5), 3-bromobiphenyl (CAS 2113-57-7), decabromobiphenyl (CAS 13654-09-5), nonabromobiphenyl (CAS 27753-52-2, octabromobiphenyl (CAS 27858-07-7), hexabromobiphenyl (CAS 36355-01-8). No new industrial uses are allowed without notifying EPA. The control action was based on a review of scientific data. PBBs have shown to be teratogenic, embryotoxic and immunosuppressive in mice, rats, and carcinogenic in rats. National Cancer Institute bioassay indicated that a mixture of PBBs caused hepatocellular carcinoma in mice of both sexes, and hepatocellular carcinoma and cholangiocarcinoma in rats of both sexes. Workers exposed to PBBs showed a significantly higher PBB serum level and had an unexpected higher prevalence of primary hydrothyroidism. PBBs are persistent, accumulate in the environment and should show similar toxicity to PCBs. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>

Bibliographical references

IARC MONOGRAPH, 18, 107, 1978
 IARC MONOGRAPH, 41, , 1986
 IPCS HEALTH AND SAFETY GUIDE, 83, , 1993
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 152, , 1994

Product Name **Polychlorinated biphenyls (PCBs) ***

C.A.S. number **1336-36-3**

Scientific and common names, and synonyms

POLYCHLORINATED BIPHENYLS (GENERIC)
 PCBs
 1,1'-BIPHENYL, CHLORO DERIVS.

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jul 1986	<p>PCBs, except mono- and dichlorinated biphenyls, or preparations, including waste oils, with a PCB content higher than 0.005% weight may not be used. No remaining uses allowed. PCBs may constitute serious risks to health and to the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
@EC	31 Dec 1987	<p>Prohibited for use by Directive 85/467/EEC (6th amendment (PCBs and PCTs) Directive 76/769/EEC) but until 30 June 1986 the following categories are excepted: 1) closed-system electrical equipment; 2) large condensers; 3) small condensers (provided that the PCB has a maximum chlorine content of 43% and does not contain more than 3.5% of penta- and higher chlorinated biphenyls); 4) heat-transmitting fluids in closed-circuit heat transfer installations; 5) hydraulic fluids used in underground mining equipment. The use of equipment, plant and fluids referred to in points 1 to 5 above which are in service on 30 June 1986 shall continue to be authorized until they are disposed of or reach the end of their service life; 6) primary and intermediate products for further processing into other products which are not prohibited under the Directive. Derogations considered to have no deleterious effects on health or the environment may be granted after 30 June 1986. Applies to PCBs and PCTs (except mono- and dichlorinated biphenyls) and preparations with a PCB or PCT content higher than 0.01% by weight. (Council Directive 76/769/EEC -</p>

Legislative or regulation action

Product Name		Polychlorinated biphenyls (PCBs) *
C.A.S. number		1336-36-3
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
AUS	1996	OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
		Polychlorinated biphenyls (PCBs) severely restricted use. All new uses prohibited. Existing uses regulated where concentration is over 2mg/kg. All uses being phased out. Prohibited due to human health risks and environmental risk. May cause skin complaints, immune system suppression and damage to the nervous system in humans; probable carcinogen. Toxic to a range of organisms and with suspected mutagenic effects and propensity to bioaccumulate and bioconcentrate. Importation of PCBs ceased in 1975; exports ceased in 1992. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUT	23 Mar 1993	The control action applies to PCBs and other halogenated biphenyls. Banned for use. There are several transitional provisions for PCB-containing fluids in old electrical equipment. Persistence in the environment and bioaccumulation in the food chain and in fatty tissues. PCBs have produced tumors of the liver and pituitary gland and leukemia in experimental animals. When heated they have the ability to form highly toxic decomposition products (eg halogenated dibenzosulfan). (Reference: (AUTFLG) Federal Law Gazette, 210, , 1993)
CAN	1 Sep 1977	For the purpose of subsection 8(2) of the Environmental Contaminants Act, use of PCB's is restricted to use in any capacitor, transformer and associated switchgear existing in Canada prior to July 1, 1980, and to use in the operation of other specified equipment existing prior to September 1, 1977 (See regulations). Reasons for the control action: PCB's are toxic organic compounds that are persistent in the environment and bioaccumulate in the human food chain. This regulation will restrict the further dispersion of PCB's into the environment. Chlorobiphenyl Regulation No. 1 (SOR/77-734). (Amendment: SOR/80-461, June 20, 1980). (Reference: (CAGAAK) Canada Gazette Part II, 111, 4229, 07 Sep 1977)
CAN	Jan 1981	Under the conditions of the Hazardous Products Act, it is prohibited to advertise, sell or import liquids containing polychlorinated biphenyls for use in microscopy, including immersion oils but not including refractive index oils. (Section 24 of Part I of the Schedule to the Hazardous Products Act).
CAN	1 Aug 1985	For the purpose of subsection 8(1) of the Environmental Contaminants Act, the maximum concentration and quantity of PCB's that may be released into the Canadian environment is prescribed. Reasons for the control action: PCB's are toxic organic compounds that are persistent in the environment and bioaccumulate in the human food chain. This regulation will restrict further dispersion of PCB's into the environment. Chlorobiphenyl Regulations No. 2 (Release) SOR/85-407. (Reference: (CAGAAK) Canada Gazette Part II, 119, 2147, 02 May 1985)
CAN	1 Aug 1985	For the purpose of subsection 8(4) of the Environmental Contaminants Act, the maximum concentration of PCB's that may be contained in certain products (see regulations) is 50 parts per million (PPM) by weight. Reasons for the control action: PCB's are toxic organic compounds that are persistent in the environment and bioaccumulate in the human food chain. This regulation will restrict further dispersion of PCB's into the environment. Chlorobiphenyl Regulations No. 2 (product) (SOR/85-406). (Reference: (CAGAAK) Canada Gazette Part II, 119, 2145, 02 May 1985)
CHE	1 Sep 1987	Totally banned chemicals: Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited (applies to halogenated biphenyls with formula C ₁₂ H _n X _{10-n} , X=halogen 0≤n≤9). The regulation does not apply to lubricating oils and grease manufactured from wasted oils with no more than 1ppm halogenated biphenyls. Special provisions apply to transformers and capacitors. Long persistence, bioaccumulation, formation of extremely toxic substances on thermolysis.

Legislative or regulation action

Product Name		Polychlorinated biphenyls (PCBs) *
C.A.S. number		1336-36-3
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.4.4.15,4.16, , 09 June 1986)
CHL	3 Sep 1982	The use of polychlorinated biphenyls (PCBs) as a dielectric fluid in electrical equipment is prohibited. Reasons for the control action: harmful to human health. (Reference: (ESINC) Electrical Service Inspectorate Decision No., No. 610, , 1985)
CHN	11 Aug 1979	PCBs and preparations with PCB-content higher than 0.01% by weight have been severely restricted. Manufacture and import have been prohibited without the authorization of government. Use is still allowed in electric power equipment. Remaining uses constitute a minor part of previously allowed uses. PCBs are highly harmful to human health and ecological environment. (Reference: (CHNPEC) Regulation on preventing equipment containing PCB's, , , 1979)
CZE	1 Jul 1990	Banned for all use. No remaining uses allowed. Chemical carcinogen. (Reference: (CZEDMH) Directive of Ministry of Health, 76, , 1990)
CZE	01 Jan 1999	The chemical is severely restricted. Production, import, export and distribution of the preparations containing more than 0.005% by weight of the substance is banned (with exception of mono- and dichlorinated biphenyls). The production and import of the substance for research, scientific and analytic purposes in quantity less than 100 g per year from one producer or importer is permitted. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
DEU	27 Jul 1978	Marketing of PCBs (except mono- and dichlorinated biphenyls) and PCTs as well as products containing more than 0.1% (wt/wt) of PCB or PCT is prohibited with the exception of some specified uses. (Reference: (BGBL) Bundesgesetzblatt, IS.1138, , 1978)
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
DNK		Regulatory action in accordance with EEC Directive 76/769.
DZA	19 Aug 1987	Use for new electrical fittings is banned. Checking of electrical fittings which are in operation, stocked or rejected must be checked. Transport and stocking must be monitored. Disposal in nature is totally banned. Important repairing of electrical fittings using oils containing PCB is banned. Reasons for the control action: Important risks to health for populations, related to the use of oils containing PCB in electrical fittings and risks of contamination of the environment. (Decree no. 87-182 of August 1987).
ECU	01 May 2001	The chemical is banned. Prohibited for importation, formulation, manufacturing and final disposal in the national territory of the substances: polychlorinated biphenyls, pentachlorophenol, crocidolite, polybrominated biphenols, polychlorinated terphenyls and tris (2,3-dibromopropyl) phosphate on the basis that they cause environmental pollution and have toxic effects against human health. All uses are banned. PCBs have chronic health effects, including respiratory tract symptoms, gastrointestinal effects, mild liver effects and effects on the skin and eyes. Some PCB formulations have been associated with development effects. PCBs are classified as probable human carcinogens by the US EPA. PCBs ARE persistent in the environment, and can undergo long range transport. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
FIN	1987	PCBs are no longer manufactured or used by industry. Voluntary withdrawal of PCB-containing equipment is in operation since 1983. Import and manufacturing of PCB-containing electrical equipment banned from January 1987.

Legislative or regulation action

Product Name		Polychlorinated biphenyls (PCBs) *
C.A.S. number		1336-36-3
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
FIN	1 Jan 1990	(Reference: (FICEI) Inspection Center for Electrical Installations, T72-85, ,) Manufacture, import, sale or supply of PCBs and products containing PCBs is banned. Transformers and capacitors (more than 1 kvar) in use when the decision came into force, were banned for use as from December 31, 1994. The decision does not apply to the use of PCBs in research, transport of these products via Finland and wastes containing PCBs. Impact on the environment (bioaccumulation). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GAM	09 Oct 1996	The chemical is banned. There was a lack of adequate capacity to manage and use the product in the country, and less hazardous alternatives existed. Importation prohibited. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	1 Jan 1992	No person shall supply or use PCBs in a concentration equal to or greater than 0.005% by weight. PCBs accumulate in the fatty tissues of plants and animals. Controls introduced under the 8th Amendment, Directive 89/677/EEC of the European Community Marketing and Use Directive 76/769/EEC. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
HUN	01 Jan 2001	The chemical is banned. General prohibition of PCB. The use and import of any preparation with a PCB content of more than 0.005% is prohibited. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
ITA	Dec 1982	Use is allowed only in: 1. electric apparatuses (closed system). 2. large condensers (more than 1kg). 3. small condensers, provided that the chlorine percentage of PCB is less than 43% and the amount of biphenyls with five or more chlorine atoms is less than 3.5%. 4. closed-circulation heating systems, unless used for the treatment of food products, pharmaceuticals or veterinary products; 5. hydraulic fluids for use in: a) mining equipments; b) electrolytic production of aluminium. The use and preparation as propellants in aerosols is prohibited. Concerns PCBs (except mono and dichlorinated biphenyls and preparations containing less than 0.1% (w/w) of PCB). (Reference: (GURIT) Gazzetta Ufficiale della Repubblica Italiana, , , 07 Dec 1982)
JPN	2 Oct 1981	Designated as a "first class specified chemical substance". Without authorization from the Government its manufacture and import are prohibited. Uses other than those specified by Cabinet Order are prohibited. It is prohibited to import specified products containing the substance. These prohibitions are due to the substance's hazardous properties in terms of persistence, bioaccumulative characteristics and chronic toxicity. (Reference: (JPNCO) Japanese Cabinet Order, , , 14 Aug 1979)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
NLD	1 Aug 1985	It is prohibited to sell PCB and PCT for all purposes except for use as standards in chemical analyses and other laboratory purposes. The use of PCBs and PCTs is severely restricted because: PCBs and PCTs bioaccumulate in the food chain; at temperatures between 300 and 800c thermolysis will lead to the formation of highly toxic chlorinated dibenzodioxins and dibenzofurans. Staatsblad 281, 1979 (as last amended by the reference given). (Reference: (NLDSE) Netherlands Staatsblad, 254, , , 1985)
NOR	Jan 1980	In accordance with a Royal Decree of 5 August 1977, all manufacture, import, sale, purchase and new applications of PCBs or PCB-containing products are prohibited without a special license. PCBs are shown to interfere with reproduction, to be carcinogenic and to cause liver and skin injuries.

Legislative or regulation action

Product Name Polychlorinated biphenyls (PCBs) *

C.A.S. number 1336-36-3

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR		Prohibition of manufacturing, importing, selling or taking into use (1980). Prohibition of uses in transformers and large capacitors (1995). Use in transformers and capacitors is allowed until 31.12.1994. Use in small capacitors is allowed until the end of the lifetime of the equipment (mainly in neon tubes). The harmful effects of PCB are known (persistence, bioaccumulation, carcinogenic effects, liver damage, skin damage etc.). The purpose of the regulation is to ensure proper control over the use and waste-treatment of PCBs, so as to prevent uncontrolled spread of these substances. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1 Jan 1994	Imports of material and equipment with more than 50mg/kg PCB is prohibited from January 1987. Tracking and storage procedures were put in place for existing uses and for storage from November 1988. No further use or storage permitted from January 1994. Use is still allowed in materials and equipment containing less than 50 mg/kg PCB. Environmental persistence and human health concerns. (Reference: (NZLTSR) Toxic Substances Regulations, , , 1986)
NZL		Voluntary restrictions on the importation of these substances have been instituted. Most products have been voluntarily removed from the market for new uses. While some uses occur in older equipment such as transformers and capacitors, usage is gradually being phased out.
SWE	1 Jan 1981	Severely restricted. Products containing PCBs may not be offered for sale, transferred or used in the course of business activities without a permit: 1) paints, printing inks, caulking or sealing compounds. 2) Hydraulic oil, lubricating oil, cutting oil. 3) Heat-transfer media. 4) Separate capacitors with a rating of two kilovolt ampere or less. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	2 Jul 1979	The substance is severely restricted for use. Virtually all uses of PCBs are prohibited. The remaining uses are an extremely minor portion of those which were previously approved. The Toxic Substances Control Act bans the manufacture and import of PCBs after January 1, 1979, and any processing and distribution in commerce of PCBs after July 1, 1979, except in a totally enclosed manner. The ban applies to both use within the US and export from the US, except for certain equipment. (Implementation was postponed until after July 2, 1979) Use of waste oil containing any detectable concentration of PCBs as sealant, coating or dust control agent is prohibited. Prohibited uses include road oiling, general dust control, use as a pesticide or herbicide carrier and use as a rust preventive on pipes. EPA regulations exclude certain PCB products from the ban, generally those that have PCB concentrations of less than 50 ppm (excluded products listed in regulation). Non-totally enclosed PCB activities which are allowed are also listed. The remaining uses are an extremely minor portion of those which were previously allowed. The control action was based on a national review of scientific data. PCBs are toxic and persistent and have been shown to have oncogenic potential in animal studies. These chemicals also may cause reproductive effects, developmental toxicity, and oncogenicity in humans. Also, persons exposed to PCBs may develop chloracne. In the environment, PCBs are among the most stable chemicals known and decompose very slowly. They remain in the environment and are taken up and stored in the fatty tissues or organisms. Consequently, bioconcentration can occur within species, and biomagnification can occur through the transfer of PCBs up the food chain from phytoplankton to humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	24 Sep 1982	TSCA generally prohibits the use of PCBs after 1 January 1978 with the exception that EPA may allow PCBs to be used in a "totally enclosed manner" and/or in manners other than totally enclosed if the Agency finds that the use "will not present an unreasonable risk of injury to health or the environment". Requirements concerning use, servicing, inspection, marking, storage and record keeping are specified for certain electrical equipment using dielectric fluid containing PCB. Requirements are specified concerning storage and disposal requirements for dielectric fluid containing PCB. Such fluid, if

Legislative or regulation action

Product Name Polychlorinated biphenyls (PCBs) *

C.A.S. number 1336-36-3

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	22 Nov 1982	removed during servicing, must be reused or disposed of in a specified manner. (Amended: FEREAC 47,54436,1982). (Reference: (FEREAC) Federal Register, 47, 37342, 1982) TSCA generally prohibits the manufacture, processing, distribution in commerce, and use of PCB. However, the manufacture is permitted in closed manufacturing and controlled waste manufacturing processes where it is released in concs. Below the practical limits of quantitation (air emissions: 10ug/m3, water effluents: 100ug/l, and product or waste: 2ug/g). Requirements concerning monitoring and record keeping. Wastes containing PCB in CONCs. Above 2ug/g and below 50 ug/g must be disposed of in a qualified incinerator or an EPA-approved landfill, or stored in the manner specified in the text. (Reference: (FEREAC) Federal Register, 47, 46980, 1982)

Bibliographical references

IARC MONOGRAPH, 7, 261, 1974
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 2, , 1976
 IARC MONOGRAPH, 18, 43, 1978
 IARC MONOGRAPH, SUPPL.4, 217, 1982
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 140, , 1992
 IPCS HEALTH AND SAFETY GUIDE, 68, , 1992

Product Name Polychlorinated naphthalenes

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
JPN	1979	Designated under the Chemical Substances Law as a "specified chemical substance". Without authorization from the Government, manufacture and importation are prohibited.

Product Name Polychlorinated triphenyls (PCTs) *

C.A.S. number 61788-33-8

Scientific and common names, and synonyms

TERPHENYL, CHLORINATED

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1986	PCTs or preparations, including waste oils, with a PCT content higher than 0,005% by weight may not be used. No remaining uses allowed. PCTs may constitute serious risks to health and to the environment. (Directive 89/667/EEC of 21.12.89) (Reference: (OJEC) Official Journal of the European Communities, L398/19, , 30 Dec 1989)
@EC	31 Dec 1987	Prohibited for use by Directive 85/467/EEC (6th amendment (PCBs and PCTs) Directive 76/769/EEC) but until 30 June 1986 the following categories are excepted: 1) closed-system electrical equipment; 2) large condensers; 3) small condensers (provided that the PCB has a maximum chlorine content of 43% and does not contain more than 3.5% of penta- and higher chlorinated biphenyls); 4) heat-transmitting fluids in closed-circuit heat transfer installations; 5) hydraulic fluids used in underground mining equipment. The use of equipment, plant and fluids referred to in points 1 to 5 above which are in service on 30 June 1986 shall continue to be authorized until they are disposed of or reach the end of

Legislative or regulation action

Product Name		Polychlorinated triphenyls (PCTs) *
C.A.S. number		61788-33-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		their service life; 6) primary and intermediate products for further processing into other products which are not prohibited under the Directive. Derogations considered to have no deleterious effects on health or the environment may be granted after 30 June 1986. Applies to PCBs and PCTs (except mono- and dichlorinated biphenyls) and preparations with a PCB or PCT content higher than 0.01% by weight. (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
AUS		Polychlorinated terphenyls (PCTs) severely restricted use. All new uses prohibited. Existing uses regulated where concentration is over 2mg/kg. All uses being phased out. Prohibited due to human health risks and environmental risk. May cause skin complaints, immune system suppression and damage to the nervous system in humans; probable carcinogen. Toxic to a range of organisms and with suspected mutagenic effects and propensity to bioaccumulate and bioconcentrate. Importation of PCBs prohibited. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUT	23 Mar 1993	The control action applies to PCTs and other halogenated terphenyls. Banned for use. Persistence in the environment and bioaccumulation in the food chain and in fatty tissues. When heated PCTs have the ability to form highly toxic decomposition products (e.g. halogenated dibenzofurans). (Reference: (AUTFLG) Federal Law Gazette, No. 210/1993, , 1993)
CAN	May 1979	Under the Environmental Contaminants Act, the import, manufacture, processing, sale or use of PCTs have been banned for all commercial, manufacturing and processing uses. Reasons for the Control Action: Accumulate in the food chain, and are very persistent in the environment. Polychlorinated Terphenyl Regulations (SOR/79-369). (Reference: (CAGAAK) Canada Gazette Part II, 113, 1976, 27 Apr 1979)
CHE	1 Sep 1987	Totally banned chemical : Manufacture, supply, import and use of the substance and of products which contain the substance is prohibited (Applies to halogenated terphenyls with formula C ₁₈ H _n Y _{14-n} , Y=halogen 0<=n<=13) Long persistency, bioaccumulation, extremely toxic impurities, formation of extremely toxic substances on thermolysis. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
CZE	01 Jan 1999	The chemical is severely restricted. Production, import, export and distribution of the preparations containing more than 0.005% by weight of the substance is banned. The production and import of the substance for research, scientific and analytic purposes in quantity less than 100 g per year from one producer or importer is permitted. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
DEU	3 Aug 1978	Marketing of PCBs (except mono- and dichlorinated biphenyls) and PCTs as well as products containing more than 0.1% (wt/wt) of PCB or PCT is prohibited with the exception of some specified uses. (Reference: (BGBL) Bundesgesetzblatt, IS.1138, , 1978)
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
ECU	01 May 2001	The chemical is banned. Prohibited for importation, formulation, manufacturing and final disposal in the national territory of the substances: polychlorinated biphenyls, pentachlorophenol, crocidolite, polybrominated biphenols, polychlorinated terphenyls and tris (2,3-dibromopropyl) phosphate on the basis that they cause environmental pollution and have toxic effects against human health. All uses are banned. Liver changes,

Legislative or regulation action

Product Name		Polychlorinated triphenyls (PCTs) *
C.A.S. number		61788-33-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		effects on the eyes and skin and bodyweight loss have been seen with short-term exposure to PCTs. PCTs are lipophilic substances, and can accumulate in organisms through the food chains. The compounds are thought to be persistent in the environment. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
FIN	1 Jan 1990	Manufacture, import, sale or supply of PCT and products containing PCTs is banned. Transformers and capacitors (more than 1 kvar) in use when the decision came into force, were banned for use as from December 31, 1994. The decision does not apply to the use of PCT in research, transport of PCT via Finland and wastes containing PCT. The control action is due to the substance's impact on the environment (bioaccumulation). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GAM	09 Oct 1996	The chemical is banned. There was a lack of adequate capacity to manage and use the product in the country, and less hazardous alternatives existed. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
GBR	1 Jan 1992	No person shall supply or use PCTs in a concentration equal to or greater than 0.005% by weight. PCTs accumulate in the fatty tissues of plants and animals. Controls introduced under the 8th Amendment, Directive 89/677/EEC of the European Community Marketing and Use Directive 76/769/EEC. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
HUN	01 Jan 2001	The chemical is banned. General prohibition of PCT. The use and import of any preparation with a PCT content of more than 0.005% is prohibited. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
ITA	Dec 1982	Use is allowed only in: 1. electric apparatuses (closed system). 2. large condensers (more than 1kg). 3. small condensers, provided that the chlorine percentage of PCB is less than 43% and the amount of biphenyls with five or more chlorine atoms is less than 3.5%. 4. closed-circulation heating systems, unless used for the treatment of food products, pharmaceuticals or veterinary products; 5. hydraulic fluids for use in: a) mining equipments; b) electrolytic production of aluminium. The use and preparation as propellants in aerosols is prohibited. Concerns PCTs and preparations containing more than 0.1% by weight of PCT.
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
NLD	1 Aug 1985	It is prohibited to sell PCB and PCT for all purposes except for use as standards in chemical analyses and other laboratory purposes. The use of PCBs and PCTs is severely restricted because: PCBs and PCTs bioaccumulate in the food chain; at temperatures between 300 and 800°C thermolysis will lead to the formation of highly toxic chlorinated dibenzodioxins and dibenzofurans. Staatsblad 281, 1979 (as last amended by the reference given). (Reference: (NLDSB) Netherlands Staatsblad, 254, , 1985)
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IPCS ENVIRONMENTAL HEALTH CRITERIA, 2, , 1976		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 140, , 1992		
IPCS HEALTH AND SAFETY GUIDE, 68, , 1992		

Product Name**Propylenimine****C.A.S. number****75-55-8****Legislative or regulation action**

Product Name **Propylenimine**

C.A.S. number **75-55-8**

Scientific and common names, and synonyms
AZIRIDINE, 2-METHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	1974	Exposure of workers to carcinogenic substances is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Product Name **Quartz**

C.A.S. number **14808-60-7**

Scientific and common names, and synonyms
CRYSTALLINE - QUARTZ
CHALCEDONY
FLINT
FIBERGLASS
ONYX
SILICA
SILIC ANHYDRIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	1 Jul 1979	Sand and other abrasives used in sandblasting shall not contain more than 1% weight of quartz.

Bibliographical references

IARC MONOGRAPH, 42, , 1987

Product Name **Selenium and selenium compounds**

C.A.S. number **7782-49-2**

Scientific and common names, and synonyms
SELENIUM

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUT	20 Feb 1992	The control action applies to selenium compounds. All uses banned. High toxicity and the risk of cumulative effects. Reported injuries caused by a wide variety of selenium compounds in industry arise from their irritation of the skin, eyes and respiratory tract. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

Bibliographical references

IARC MONOGRAPH, 9, 245, 1975
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
IPCS ENVIRONMENTAL HEALTH CRITERIA, 58, , 1986

Legislative or regulation action

Product Name **Short Chain Chlorinated Paraffins (SCCP)****C.A.S. number** **85535-84-8****Scientific and common names, and synonyms**

ALCANES, C10-13, CHLORO, CHLORINATED PARAFFINS WITH A CHLORINATION DEGREE OF MORE THAN 48% BY WEIGHT

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NOR	01 Jan 2001	The chemical is banned. Production, import, export, sale and use of SCCP in pure form, in preparations or in products containing > 0.1% of SCCP is prohibited. Practically all known uses are prohibited. Only use for research and analytical purposes is still allowed. SCCP are very toxic to aquatic organisms, especially daphnids. They degrade slowly in the environment and have a high potential for bioaccumulation. Their negative long term effects in the aquatic environment, the risk of secondary poisoning of predators through the food chain, and their potential for long range transport via air and water give rise to serious concerns. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Product Name **Tetrachlorobenzyltoluene (ugilec 141)****C.A.S. number** **76253-60-6****Scientific and common names, and synonyms**BENZENE, DICHLORO((DICHLOROPHENYL)METHYL)METHYL-
BENZENE (9CI)
DICHLORO((DICHLOROPHENYL)METHYL)METHYL-**Legislative or regulatory action**

Country	Effective Date	Description of action taken Grounds for decision
NLD	18 Jun 1988	The manufacture, importation into the Netherlands, putting into circulation and use of Ugilec 141 is prohibited, except to conduct research in laboratories or conversion into end products in which the substance as such no longer occurs. Reasons for the control action: a) possibility of formation of dioxines and dibenzofurans after pyrolysis; b) ecotoxic and toxic to man; c) persistent in the environment. (Reference: (NLDRC) Letter of the Registration Committee, , , 1988)

Product Name **Tetrachloroethane****C.A.S. number** **25322-20-7****Scientific and common names, and synonyms**

TETRACHLOROETHANE (DOT)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Working materials which contain more than 1% (wt/wt) of carbon tetrachloride, tetrachloroethane or pentachloroethane may not be used. This does not apply when for technical reasons the substances cannot be replaced by other less harmful substances or formulations. Technical requirements for the protection of the workers against any exposure to vapour, gas or mist. Hygienic requirements concerning clothing, washing facilities and food (including tobacco). Medical surveillance of workers at certain time periods is obligatory. Workers who handle working materials which contain more than 1% (wt/wt) of carbon tetrachloride, tetrachloroethane or pentachloroethane may not be exposed for more than 8 hours per day and 40 hours per week (42 hours per week in plants with four shifts).

Legislative or regulation action

Product Name **Tetrachloroethane**

C.A.S. number **25322-20-7**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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(Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)

Product Name **Tetraethyl lead**

C.A.S. number **78-00-2**

Scientific and common names, and synonyms

PLUMBANE, TETRAETHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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@EC	01 Jan 2000	The chemical is severely restricted. All uses as an anti-knock agent in vehicles are prohibited. The latest regulatory action provided for certain limited derogations. Member States may be allowed to continue to permit the marketing of leaded petrol containing not more than 0.15 g/L lead within their territory until 1 January 2005, provided that it can be demonstrated that a ban would result in severe socio-economic problems or would not lead to overall environmental or health benefits. Member States may also allow a derogation for small quantities of leaded petrol containing not more than 0.15 g/L lead, up to a maximum of 0.5% of total sales, for collectors' old cars. The lead content of petrol for aircraft is not covered by the regulatory action. TEL has been assessed to be very acutely toxic by inhalation, in contact with skin and if swallowed. It may cause harm to the unborn child, and a possible risk of impaired fertility has been identified. In addition, TEL is eliminated only very slowly and there is a danger of cumulative effects. Occupational exposure to alkyllead compounds, either by inhalation or by absorption through the skin, poses particular risks. Overexposure of the general population to alkyllead may also occur during car tank refill. Moreover, the combustion of alkyllead additives in motor fuels accounted for the major part of all lead emissions, which is also known to produce adverse effects on the health of the general population.
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(Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

CAN	1998	Severely restricted. Exempt from restrictions for use of Tetraethyl lead are aircraft and high performance competition vehicles. Competition vehicles' exemption applies until 31.12.2002. Other exemptions for leaded gasoline include (a) tractors, combines, swathers or any other machinery used in farming; (b) boats; or (c) trucks whose gross vehicle weight rating is greater than 3 856 kg. The effects of lead exposure include interference in the proper functioning of the human biochemical system that regulates the synthesis of blood and its use in the body; impairment or perturbation of certain metabolic pathways and enzyme systems that involve essential features of certain basic cellular processes and brain functions; interference with learning and behavioural development among young children and pre-term delivery and low birth weights of infants. Various regulations responsible for final regulatory action.
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(Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Tetramethyl lead**

C.A.S. number **75-74-1**

Scientific and common names, and synonyms

PLUMBANE, TETRAMETHYL-

Legislative or regulatory action

Legislative or regulation action

Product Name		Tetramethyl lead
C.A.S. number		75-74-1
Country	Effective Date	Description of action taken Grounds for decision
@EC	01 Jan 2000	The chemical is severely restricted. As from 1 January 2000, the placing on the market of leaded petrol for vehicles was banned. All uses as an anti-knock agent in vehicles are prohibited. The latest regulatory action provided for certain limited derogations. Member States may be allowed to continue to permit the marketing of leaded petrol containing not more than 0.15 g/L lead within their territory until 1 January 2005, provided that it can be demonstrated that a ban would result in severe socio-economic problems or would not lead to overall environmental or health benefits. Member States may also allow a derogation for small quantities of leaded petrol containing not more than 0.15 g/L lead, up to a maximum of 0.5% of total sales, for collectors' old cars. The lead content of petrol for aircraft is not covered by the regulatory action. TML has been assessed to be very acutely toxic by inhalation, in contact with skin and if swallowed. It may cause harm to the unborn child, and a possible risk of impaired fertility has been identified. In addition, TML is eliminated only very slowly and there is a danger of cumulative effects. Occupational exposure to alkyllead compounds, either by inhalation or by absorption through the skin, poses particular risks. Overexposure of the general population to alkyllead may also occur during car tank refill. Moreover, the combustion of alkyllead additive in motor fuels accounted for the major part of all lead emissions, which is also known to produce adverse effects on the health of the general population. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
CAN	26 Mar 1998	Tetramethyl lead is severely restricted. Exceptions include aircraft and high performance competition vehicles, tractors and other farming equipment, boats and trucks with a gross vehicle weight of more than 3 856kg. The effects of lead exposure include interference in the proper functioning of the human biochemical system that regulates the synthesis of blood and its use in the body; impairment or perturbation of certain metabolic pathways and enzyme systems that involve essential features of certain basic cellular processes and brain functions; interference with the learning and behavioural development among young children and pre-term delivery and low birth weights of infants. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name		Thallium acetate
C.A.S. number		563-68-8
Scientific and common names, and synonyms		ACETIC ACID, THALLIUM(1+) SALT ACETIC ACID, THALLIUM(I) SALT RCRA WASTE NUMBER U214 THALLOUS ACETATE THALLIUM(I) ACETATE THALLIUM(1+) ACETATE THALLIUM MONOACETATE
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
KOR	9 Aug 1991	Banned for production, import, use and sale of both this substance and preparations containing it. Action taken due to high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name		Thallium nitrate
C.A.S. number		10102-45-1

Legislative or regulation action

Product Name **Thallium nitrate**

C.A.S. number **10102-45-1**

Scientific and common names, and synonyms

NITRIC ACID, THALLIUM(1+) SALT
NITRIC ACID, THALLIUM(1+) SALT
RCRA WASTE NUMBER U217
THALLOUS NITRATE
THALLIUM(I) NITRATE (1:1)
THALLIUM NONONITRATE
THALLIUM NITRATE (DOT)
UN 2727 (DOT)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
KOR	9 Aug 1991	Banned for production, import, use and sale of this substance and preparations containing this substance. Action taken due to high toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Thioacetamide**

C.A.S. number **62-55-5**

Scientific and common names, and synonyms

ACETOTHIOAMIDE
ACETIMIDIC ACID, THIO
ETHANETHIOAMIDE
ETHANETHIOAMIDE
THIACETAMIDE
TAA

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 7, 77, 1974

Product Name **Thiourea**

C.A.S. number **62-56-6**

Scientific and common names, and synonyms

BETA-THIOPSEUDOUREA
ISOTHIIOUREA
PSEUDOTHIIOUREA
THIOUREA
TIO-UREA
THU
THIOCARBIDE
THIOCARBAMIDE

Legislative or regulation action

Product Name **Thiourea**

C.A.S. number **62-56-6**

Scientific and common names, and synonyms
 THIO-UREA
 2-THIOUREA

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 7, 95, 1974

Product Name **Tributyl tetradecyl phosphonium chloride**

C.A.S. number **81741-28-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	6 May 1997	Tributyl tetradecyl phosphonium chloride is severely restricted. Only remaining use is for laboratory or scientific use. Persistent. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

Product Name **Tributyltin acetate**

C.A.S. number **56-36-0**

Scientific and common names, and synonyms
 STANNANE, (ACETYLOXY)TRIBUTYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	27 Sep 1988	The substance is severely restricted for use. From Sept. 27 1988, the use of certain antifouling paints containing organotin, as well as the use of organotin compounds, purchased by consumers, to make such paints, is prohibited. Registrants are required to limit the release of organotin compounds and stop using these paints on all non-aluminum vessels less than 82 feet (25 meters) in length. TBT paints formulated for other uses must not be used on boats. Users must comply with the label instructions to prevent environmental contamination with removed paint and paint waste. The control action applies to the following tributyltin compounds: bis(tributyltin) adipate (CAS 7437-35-6), bis(tributyltin) dodecenyl succinate (CAS 12379-54-3), bis(tributyltin) sulfide (CAS 4808-30-4), tributyltin acetate (CAS 56-36-0), tributyltin acrylate (CAS 13331-52-7), tributyltin resinate (CAS not assigned). Retained use of TBT compounds is limited to boats of a certain type and size. Additionally, applicators must undergo specific training. Aerosol paints packaged in volumes of 16 oz. or less may only be used on underwater aluminum parts of boats and are exempt from these sale and use restrictions. Users must comply with the label instructions to prevent environmental contamination with removed paint and paint waste. EPA has determined that the TBT compounds are highly toxic to a variety of aquatic organisms. Oyster shell deformities have been observed in the US, England, and France, and laboratory tests have established that TBT is toxic to fish, crustaceans, and algae at very low concentrations. The contamination of estuarine which are habitats for important shellfish species and nurseries for fish is also of concern.

Legislative or regulation action

Product Name **Tributyltin acetate**

C.A.S. number **56-36-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Tributyltin oxide (TBTO)**

C.A.S. number **56-35-9**

Scientific and common names, and synonyms

DISTANNOXANE, HEXABUTYL-

TRIBUTYLTIN BENZOATE, TRIBUTYLTIN CHLORIDE, TRIBUTYLTIN FLUORIDE, TRIBUTYLTIN LINOLEATE, TRIBUTYLTIN METHACRYLATE, TRIBUTYLTIN NAPHTHENATE, TRIBUTYLTIN OXIDE

TRIBUTYLTIN NAPHTHENATE (4342-36-3)

TRIBUTYLTIN METHACRYLATE (2155-70-6)

TRIBUTYLTIN LINOLEATE (1983-10-4)

TRIBUTYLTIN FLUORIDE (1461-22-9)

TRIBUTYLTIN CHLORIDE (85409-17-2)

TRIBUTYLTIN BENZOATE (24124-25-2)

TRIBUTYLTIN OXIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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GBR	16 May 1990	The approval for the advertisement, sale and supply of wood preservatives (professional and amateur) and surface biocides containing the active ingredient tributyltin oxide (TBTO) is withdrawn, except for industrial wood preservatives and in paste formulations to be applied by professional operators. The use and storage of the revoked wood preservatives and surface biocides may continue until 31.10.1990. The safety margins for human exposure are not sufficient in respect of immunogenic and teratogenic effects in experimental animals.
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(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

JPN	6 Jan 1990	Bis(tributyltin)=oxide is severely restricted. Restrictd import and use. All use prohibited, except for testing and research purposes and for selected industrial processes. Persistence and bioaccumulation; toxic to humans.
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(Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)

KOR	9 Aug 1991	Banned for production, import, use, and sale of both tributyl tin oxide and preparations containing it for use of inhibitor in cooling water system. Action taken due to fish toxicity.
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(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Tris(2,3-Dibromopropyl) phosphate ***

C.A.S. number **126-72-7**

Scientific and common names, and synonyms

ANFRAM 3PB

APEX 462-5

BROMKAL P 67-6HP

E5685

FYROL HB32

FIREMASTER LV-T 23 P

FIREMASTER T23P

Legislative or regulation action

Product Name **Tris(2,3-Dibromopropyl) phosphate ***

C.A.S. number **126-72-7**

Scientific and common names, and synonyms

FIREMASTER T23P-LV
 FLACAVON R
 FLAMEX LV-T 23P
 FLAMEX T 23P
 FLAMMEX AP
 FLAMMEX T 23P
 NCI-C03270
 PHOSPHORIC ACID, TRIS(2,3-DIBROMOPROPYL) ESTER
 RCRA WASTE NUMBER U235
 TRIS
 TRIS-BP
 TRIS-2,3-DIBROMOPROPYL ESTER KYSELINY FOSFORECNE (CZECH)
 TRIS(DIBROMOPROPYL) PHOSPHATE
 TRIS (FLAME RETARDANT)
 TDBPP
 TDBP (CZECH)
 T 23P
 TRIS(2,3-DIBROMOPROPYL) PHOSPHORIC ACID ESTER
 USAF DO-41
 ZETIFEX ZN
 (2,3-DIBROMOPROPYL) PHOSPHATE
 1-PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1)
 2,3-DIBROMO-1-PROPANOL PHOSPHATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHN	1 May 1994	Severely restricted for registration, production, sale and industrial use as any product. Highly toxic and persistent. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ECU	01 May 2001	The chemical is banned. Prohibited for importation, formulation, manufacturing and final disposal in the national territory of the substances: polychlorinated biphenyls, pentachlorofenol, crocidolite, polybrominated biphenols, polychlorinated terphenyls and tris (2,3-dibromopropyl) phosphate on the basis that they cause environmental pollution and have toxic effects against human health. All uses are banned. Tris (2,3-dibromopropyl) phosphate irritates the skin and eyes, and may cause a skin allergy. It may damage the liver and kidneys. Tris (2,3-dibromopropyl) phosphate is a probable carcinogen in humans, which has been shown to cause kidney, liver, lung and stomach cancers in animals. It decreases fertility and damages sperm in the male animals. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
FIN	1985	Due to carcinogenicity, use is prohibited for purposes other than research and to be used for that purpose only with the permission of the National Board of Labour Protection. (Reference: (FDMSA) Decision of the Ministry of Social Affairs and Health, 1060/83, , ,)
GAM	17 Feb 1997	The chemical is banned. There was a lack of adequate capacity to manage and use the product in the country, and less hazardous alternatives existed. (Reference: (GAMNPR) Pesticide Registration Board, , ,) (Reference: (EP4) UNEP/FAO - PIC Circulars XVIII, XIX - 12/2003, 6/2004, , ,)
HUN	01 Jan 2001	The chemical is banned. Tris (2,3-dibromopropyl) phosphate may not be used for the

Legislative or regulation action

Product Name **Tris(2,3-Dibromopropyl) phosphate ***

C.A.S. number **126-72-7**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		production of textile articles (clothes, underwear, bedclothes, etc.) to come into contact with the human skin. All other uses than the use in textile articles intended to come into contact with the skin are continued. Sufficient evidence of carcinogenicity to animals, probably carcinogenic to humans. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Författningssamling, (M)89, 1, 1981)
USA	11 Mar 1987	Tris has been voluntarily withdrawn from use by industry. The Consumer Product Safety Commission banned the use of Tris in children's wearing apparel after Tris was found to be an animal carcinogen. Tris has not been manufactured in, imported into, or processed in the U.S. for commercial purposes since at least 1980. No industrial uses are allowed without notifying EPA. Consumer uses are prohibited. The control action was based on a national review of scientific data. Tris has been shown to cause significant increases in kidney-cell adenomas in rats of both sexes, but especially in males. Significant increases in malignant neoplasms in both lung and forestomach were found in male mice. EPA believes that Tris is a probable human carcinogen. It is also mutagenic in bacteria, causes testicular atrophy and damage to the liver and kidneys in rabbits, and has the potential to cause heritable genetic changes. Tris has been shown to have potential to be acutely and chronically toxic to aquatic organisms. Furthermore, the compound is expected to be more toxic to early life stages of fish than juveniles and adults. Finally, the compound is expected to bioaccumulate; ultimate biodegradation is also slow. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 20, 575, 1979
IPCS ENVIRONMENTAL HEALTH CRITERIA, 173, , 1995

Product Name **Ugilec 121**

C.A.S. number **81161-70-8**

Scientific and common names, and synonyms

BENZENE,1,1'-METHYLENEBIS-, DICHLORO MONOMETHYL DERIV.

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	18 Jun 1992	The marketing and use of Ugilec 121 and of preparations and products containing it are prohibited. Ugilec 121 presents a high risk to the environment because of its ecotoxicity, persistence and potential to bioaccumulate; in the event of a fire involving any equipment containing this substance, highly toxic substances may be given off. (Directive 91/339/EEC of 18.6.91) (Reference: (OJEC) Official Journal of the European Communities, L186/64, , 12 July 1991)
AUT	1 Jan 1993	The substance is banned for use. Use for analytical and research purposes is allowed. Ugilec 121, with similar properties to Ugilec 141, is banned because of its ecotoxicity, persistence in the environment and bioaccumulation in the food chain. In the event of a fire it emits highly toxic substances. (Reference: (AUTFLG) Federal Law Gazette, No. 210/1993, , 1993)
NLD	18 Jun 1988	The manufacture, importation into the Netherlands, putting into circulation and use of

Legislative or regulation action

Product Name **Ugilec 121**

C.A.S. number **81161-70-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		Ugilec 121 is prohibited, except to conduct research in laboratories or conversion into end products in which the substance as such no longer occurs. Reasons for the control action: a) possibility of formation of dioxines and bibenzofurans after pyrolysis; b) ecotoxic and toxic to man; c) persistent in the environment. (Reference: (NLDRC) Letter of the Registration Committee, , , 1988)
SWE	24 Mar 1994	Chemical products and goods containing this chemical may not be sold or used. Implementation of the European Council Directive 91/339/EEC. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Ugilec 141**

C.A.S. number **111483-93-3**

Scientific and common names, and synonyms

UGILEC 141

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	18 Jun 1994	Marketing and use of Ugilec 141 and of preparations containing it shall be prohibited as from 1994/06/18. By way of exception this provision shall not apply in the case of plant and machinery already in service on 1994/06/18 until such plant and machinery is disposed of. From that date, such plant and machinery may: 1) be banned by member States; 2) not be placed on the secondhand market. Ugilec 141 constitutes a high risk to the environment for its ecotoxicity, especially in the aquatic environment, persistence and potential to bioaccumulate. Significant environmental contamination has already been documented in the vicinity of mining operations using this substance as hydraulic fluid. In the event of a fire involving any equipment containing Ugilec 141, highly toxic substances may be given off. Final disposal of Ugilec 141 requires special procedures. (Directive 91/339/EEC of 18.6.91) (Reference: (OJEC) Official Journal of the European Communities, L186/64, , 12 July 1991)
AUT	23 Mar 1993	Banned for use. Ugilec 141 is banned because of ecotoxicity, persistence in the environment and bioaccumulation in the food chain. In the event of a fire it emits highly toxic substances. (Reference: (AUTFLG) Federal Law Gazette, No.210/1993, , 1993)
SWE	24 Mar 1994	Chemical products and goods containing this chemical may not be sold or used (except when already in use). Implementation of the Council Directive 91/339/EEC. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Urethane**

C.A.S. number **51-79-6**

Scientific and common names, and synonyms

CARBAMIC ACID, ETHYL ESTER

ETHYLURETHANE

ETHYL CARBAMATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name		Urethane
C.A.S. number		51-79-6
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)
USA	17 Mar 1988	Urethane has been voluntarily withdrawn from use by industry. Use is also prohibited as an active (1970) or inactive (1977) ingredient in drugs (Food & Drug Administration). Commercial manufacture, import and processing ceased in 1977. No consumer or industrial uses are allowed without notifying EPA. The control action is based on a national review of scientific data. Urethane is a suspected human carcinogen, is a known animal carcinogen, and is mutagenic in many organisms. The chemical produces malignant tumors, is an initiator for skin carcinogenesis, and enhances the leukemogenic effect of X- radiation in animals. The substance is a transplacental carcinogen that effects the fetus. Urethane causes teratogenic effects that include skeletal and eye development defects, and polydactyl and syndactyl malformations. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Bibliographical references		
IARC MONOGRAPH, 7, 111, 1974		
Product Name		Vinyl chloride
C.A.S. number		75-01-4
Scientific and common names, and synonyms		ETHENE, CHLORO- ETHYLENE, CHLORO-
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	27 Mar 1978	The marketing or use as an aerosol propellant is not allowed. (Reference: (OJEC) Official Journal of the European Communities, L262, 201, 1976)
ITA	Dec 1982	Use is allowed only in: 1. electric apparatuses (closed system). 2. large condensers (more than 1kg). 3. closed-circulation heating systems, unless used for the treatment of food products, pharmaceuticals or veterinary products. 4. hydraulic fluids for use in: (a) mining equipments; (b) electrolytic production of aluminium. The use and preparations as propellants in aerosols is prohibited. (Reference: (GURIT) Gazzetta Ufficiale della Repubblica Italiana, , , 07 Dec 1982)
THA	2 May 1995	Aerosol products containing vinyl chloride monomer as propellant have been banned for importation, exportation, manufacture and handling Vinyl chloride monomer has been found to be carcinogenic to human. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Bibliographical references		
IARC MONOGRAPH, 7, 291, 1974		
IARC MONOGRAPH, 19, 377, 1979		
WHO FOOD ADD., 17, 320, 1982		
IARC MONOGRAPH, SUPPL.4, 260, 1982		
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984		

Product Name		Yellow fatty dye
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision

Legislative or regulation action

Product Name **Yellow fatty dye**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN		Production of this carcinogen has been discontinued by Decree of the Ministry of Health.

Product Name **alpha-HCH**

C.A.S. number **319-84-6**

Scientific and common names, and synonyms

ALPHA-LINDANE
ALPHA-HEXACHLOROCYCLOHEXANE
ALPHA-HEXACHLORANE
ALPHA-HEXACHLORAN
ALPHA-BHC
ALPHA-BENZENEHEXACHLORIDE
ALPHA-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
BENZENE HEXACHLORIDE-ALPHA-ISOMER
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, ALPHA ISOMER
CYCLOHEXANE, ALPHA-1,2,3,4,5,6-HEXACHLORO
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, ALPHA
1-ALPHA,2-ALPHA,3-BETA,4-ALPHA,5-BETA,6-BETA-HEXACHLOROCYCLOHEXANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)

Bibliographical references

IARC MONOGRAPH, 5, 47, 1974
IARC MONOGRAPH, 20, 195, 1979
IARC MONOGRAPH, SUPPL.4, 133, 1982

Product Name **alpha-Naphthylamine**

C.A.S. number **134-32-7**

Scientific and common names, and synonyms

1-NAPHTHALENAMINE
1-NAPHTHYLAMINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	1974	Exposure of workers to carcinogenic substances is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)
GBR	9 Dec 1967	Controlled use. User to take all practicable steps to prevent the risk of inhaling, ingesting or otherwise absorbing the substances: storage in closed receptacle legibly marked; provision of cautionary card and medical examination for workers. Epidemiological studies have indicated that it is a cause of bladder cancer.

Legislative or regulation action

Product Name **alpha-Naphthylamine**

C.A.S. number **134-32-7**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		(Reference: (GBRSI) Statutory Instruments, 36, , 1973)
NZL	1983	Under the provisions of the Toxic Substances Act, this product is available to commercial users only and it must be labelled as a dangerous poison.
SUN		Production of this carcinogen has been discontinued by Decree of the Ministry of Health.
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 4, 87, 1974
IARC MONOGRAPH, SUPPL.4, 164, 1982

Product Name **beta-Butyrolactone**

C.A.S. number **3068-88-0**

Scientific and common names, and synonyms

HYDROBUTYRIC ACID LACTONE
2-OXETANONE, 4-METHYL-
2-OXETANONE, 4-METHYL-
3-HYDROXYBUTANOIC ACID, BETA LACTONE
3-HYDROXY BUTYRIC ACID, BETA-LACTONE
4-METHYL-2-OXETANONE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Product Name **beta-HCH**

C.A.S. number **319-85-7**

Scientific and common names, and synonyms

BETA-LINDANE
BETA-ISOMER
BETA-HEXACHLOROCYCLOHEXANE
BETA-HEXACHLOROBENZENE
BETA-BHC
BETA-BENZENEHEXACHLORIDE
BETA-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
CYCLOHEXANE, BETA-1,2,3,4,5,6-HEXACHLORO
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, TRANS
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, BETA
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (BETA-ISOMER)

Legislative or regulation action

Product Name **beta-HCH**

C.A.S. number **319-85-7**

Scientific and common names, and synonyms

TRANS-ALPHA-BENZENEHEXACHLORIDE

1-ALPHA,2-BETA,3-ALPHA,4-BETA,5-ALPHA,6-BETA-HEXACHLOROCYCLOHEXANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)

Bibliographical references

IARC MONOGRAPH, 20, 195, 1979

IARC MONOGRAPH, SUPPL.4, 133, 1982

Product Name **beta-Naphthylamine**

C.A.S. number **91-59-8**

Scientific and common names, and synonyms

2-NAPHTHALENAMINE

2-NAPHTHYLAMINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	21 Jun 1991	2-naphthylamine and its salts may not be used in concentrations equal to or greater than 0.1% by weight in substances and preparations placed on the market. Industrial use allowed is restricted to professional users. 2-naphthylamine constitutes a high risk to human or animal health. It may cause cancer and in particular of the urinary system. 2-naphthylamine has been classified by the EC as a category 1 carcinogen (known to be carcinogenic to man). Directive 89/677/EEC of 21.12.89. (Reference: (OJEC) Official Journal of the European Communities, L398/19, , 30 Dec 1989)
AUS		No exposure to this substance is allowed.
BEL	1974	Exposure of workers to carcinogenic substances is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR		Production and use in factories of beta-naphthylamine and its salts are prohibited except where written exemption is given for 1) investigation or testing in medical or scientific research; 2) where substances are formed during process in a totally enclosed system; 3) trans-shipment. Importation is prohibited. Epidemiological studies show that occupational exposure to beta-naphthylamine either alone or when present as an impurity in other

Legislative or regulation action

Product Name **beta-Naphthylamine**

C.A.S. number **91-59-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		compounds is strongly associated with the occurrence of bladder cancer. (Reference: (GBRSI) Statutory Instruments, 36, , 1973)
ISR	1984	Production, use, storage and transport banned without a permit from the Ministry of Industry. Carcinogenic substance. (Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 4739, 415, 1984)
ITA		Due to strong carcinogenic action on humans, this substance should not be detectable in the working environment even with the most sophisticated methods of determination. When they cannot be replaced, enclosed methods and adequate personnel protective equipment should be used.
JPN	1972	Beta-naphthylamine and its salts at concentrations of more than 1% by weight are banned because of the possibility of acute cystitis and cancer of the bladder. Export is prohibited. (Reference: (JPNIS) Industrial Safety and Health Law, 55, , 01 Oct 1972)
KOR	9 Aug 1982	Prohibition of manufacturing, importing transferring, supplying and using of beta-naphthylamine and its salts. Exceptions will be made in case for the purpose of research or laboratory work. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1983	Under the provisions of the Toxic Substances Act, this product is available to commercial users only and it must be labelled as a deadly poison.
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 4, 97, 1974
IARC MONOGRAPH, SUPPL.4, 166, 1982

Product Name **beta-Propiolactone**

C.A.S. number **57-57-8**

Scientific and common names, and synonyms

BETA-PROPIOLACTONE
BETA-PROPIONOLACTONE
HYDRACRYLIC ACID BETA-LACTONE
PROPIONIC ACID 3-HYDROXY-BETA-LACTONE
PROPIOLACTONE
PROPANOLIDE
2-OXETANONE
2-OXETANONE
3-HYDROXYPROPIONIC ACID LACTONE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is

Legislative or regulation action

Product Name **beta-Propiolactone**

C.A.S. number **57-57-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,) This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Product Name **delta-HCH**

C.A.S. number **319-86-8**

Scientific and common names, and synonyms

CYCLOHEXANE, DELTA-1,2,3,4,5,6-HEXACHLORO
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, DELTA-ISOMER
DELTA-LINDANE
DELTA-HEXACHLOROCYCLOHEXANE
DELTA-BHC
DELTA-BENZENEHEXACHLORIDE
DELTA-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
DELTA-(AEEEE)-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
1-ALPHA,2-ALPHA,3-ALPHA,4-BETA,5-ALPHA,6-BETA-HEXACHLOROCYCLOHEXANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)

Bibliographical references

IARC MONOGRAPH, 20, 195, 1979
IARC MONOGRAPH, SUPPL.4, 133, 1982

Product Name **gamma-HCH (Lindane) ***

C.A.S. number **58-89-9**

Scientific and common names, and synonyms

BENZENE HEXACHLORIDE-GAMMA-ISOMER
BENZENE HEXACHLORIDE, GAMMA
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1.ALPHA.,2.ALPHA.,3.BETA.,4.ALPHA.,5.ALPHA.,6.BETA.)-
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO- (1ALPHA,2ALPHA,3BETA,4ALPHA, 5ALPHA,6BETA)-
GAMMA-HEXACHLOROCYCLOHEXANE
GAMMA-HEXACHLOROBENZENE
GAMMA-HEXACHLORAN
GAMMA-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
GAMMA BENZENE HEXACHLORIDE
HEXACHLORAN

Legislative or regulation action

Product Name **gamma-HCH (Lindane) ***

C.A.S. number **58-89-9**

Scientific and common names, and synonyms

LINDANE

1-ALPHA,2-ALPHA,3-BETA,4-ALPHA,5-ALPHA,6-BETA-HEXACHLOROCYCLOHEXANE

1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE, GAMMA-ISOMER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 20, , 1979

IARC MONOGRAPH, 20, 195, 1979

FAO PLANT PRODUCTION & PROTECTION PAPER, 20 SUP., , 1979

IARC MONOGRAPH, SUPPL.4, 133, 1982

WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984

FAO PLANT PRODUCTION & PROTECTION PAPER, 99, 33, 1989

FAO PLANT PRODUCTION & PROTECTION PAPER, 100, 199, 1990

FAO PLANT PRODUCTION & PROTECTION PAPER, 100/2, 141, 1990

IPCS ENVIRONMENTAL HEALTH CRITERIA, 124, , 1991

IPCS HEALTH AND SAFETY GUIDE, 54, , 1991

Product Name **o-Aminoazotoluene**

C.A.S. number **97-56-3**

Scientific and common names, and synonyms

O-AT

O-AAT

TOLUAZOTOLUIDINE

2-METHYL-4-((O-TOLYL)AZO)ANILINE

2-METHYL-4-((2-METHYLPHENYL)AZO)-BENZENAMINE

2',3-DIMETHYL-4-AMINOAZOBENZENE

4-AMINO-2',3-DIMETHYL-AZOBENZENE

4-(O-TOLYL-AZO)-O-TOLUIDINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN		Production of this carcinogen has been discontinued by Decree of the Ministry of Health.

Product Name **o-Tolidine**

C.A.S. number **119-93-7**

Scientific and common names, and synonyms

O,O'-TOLIDINE

[1,1'-BIPHENYL]-4,4'-DIAMINE, 3,3'-DIMETHYL-

3,3'-DIMETHYL-(1,1'-BIPHENYL)-4,4'-DIAMINE

3,3'-TOLIDINE

3,3'-DIMETHYLBENZIDINE

3,3'-DIMETHYL-BENZIDINE

Legislative or regulation action

Product Name **o-Tolidine**

C.A.S. number **119-93-7**

Scientific and common names, and synonyms

3,3'-DIMETHYL-4,4'-DIAMINOBIIPHENYL

3,3'-DIMETHYL-4,4'-BIPHENYLDIAMINE

4,4'-DIAMINO-3,3'-DIMETHYLBIPHENYL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	1974	Exposure of workers to carcinogenic substances is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)
GBR	09 Dec 1967	Controlled use. User to take all practicable steps to prevent the risk of inhaling, ingesting or otherwise absorbing the substances: storage in closed receptacle legibly marked; provision of cautionary card and medical examination for workers. Classified as carcinogenic by International Agency for Research on Cancer. (Reference: (GBRSI) Statutory Instruments, 36, , 1973)
NZL	1983	Under the provisions of the Toxic Substances Act, preparations containing 0.1% or more of o-tolidine are available to commercial users only and they must be labelled as dangerous poisons.
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Product Name **o-Toluidine hydrochloride**

C.A.S. number **636-21-5**

Scientific and common names, and synonyms

BENZENAMINE, 2-METHYL-, HYDROCHLORIDE

NCI-C02335-

O-TOLUIDIN HYDROCHLORIDE

O-METHYLBENZENAMINE HYDROCHLORIDE

O-METHYLANILINE HYDROCHLORIDE

O-AMINOTOLUENE HYDROCHLORIDE

O-TOLYLAMINE HYDROCHLORIDE

RCRA WASTE NUMBER U222

1-METHYL-2-AMINO BENZENE HYDROCHLORIDE

1-AMINO-2-METHYLBENZENE HYDROCHLORIDE

2-AMINO-1-METHYLBENZENE HYDROCHLORIDE

2-AMINOTOLUENE HYDROCHLORIDE

2-METHYL-1-AMINO BENZENE HYDROCHLORIDE

2-METHYLANILINE HYDROCHLORIDE

2-TOLUIDINE HYDROCHLORIDE

2-METHYLBENZENAMINE HYDROCHLORIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN		Production of this carcinogen has been discontinued by Decree of the Ministry of Health.

Legislative or regulation action

Product Name **p-Aminoazobenzene**

C.A.S. number **60-09-3**

Scientific and common names, and synonyms

BENZENAMINE, 4-(PHENYLAZO)-
P-AMINODIPHENYLIMIDE
P-AMINOAZOBENZOL
P-(PHENYLAZO)ANILINE
4-AMINOAZOBENZOL
4-AMINOAZOBENZENE
4-(PHENYLAZO)-BENZENAMINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Product Name **p-Phenylenediamine**

C.A.S. number **106-50-3**

Scientific and common names, and synonyms

BASF URSOL D
BENZOFUR D
C.I. 76060
C.I. DEVELOPER 13
C.I. OXIDATION BASE 10
DURAFUR BLACK R
DEVELOPER 13
DEVELOPER PF
FUTRAMINE D
FURRO D
FUR YELLOW
FUR BROWN 41866
FUR BLACK 41867
FOURRINE D
FOURRINE 1
FENYLENODWUAMINA (POLISH)
FOURAMINE D
NAKO H
OXIDATION BASE 10
ORSIN
PELTOL D
P-BENZENEDIAMINE
PARAPHENYLEN-DIAMINE
P-AMINOANILINE
PHENYLENEDIAMINE, PARA, SOLID (DOT)
PELAGOL GREY D
PELAGOL DR
P-DIAMINO BENZENE

Legislative or regulation action

Product Name **p-Phenylenediamine**

C.A.S. number **106-50-3**

Scientific and common names, and synonyms

PELAGOL D
P-PHENYLENEDIAMINE (ACGIH)
PARA
PPD
RENAL PF
RODOL D
SANTOFLEX IC
TERTRAL D
USAF EK-394
URSOL D
UN 1673 (DOT)
VULKANOX 4020
ZOPA BLACK D
1,4-BENZENEDIAMINE
1,4-PHENYLENEDIAMINE
1,4-DIAMINOBENZENE
4-AMINOANILINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		A regulated area must be established by the employer where the substance is manufactured, handled, used, processed, etc. Operations involving the substance must take place within closed or isolated systems within that area. Requirements are made for protective clothing, respirators, training, ventilation, warning signs (cancer-suspect agent), sanitation, medical surveillance, labelling of containers, contamination, emergency procedures, record keeping and reporting. Skin irritant protection is also required. (Reference: (OSHA) Occupational Safety and Health Administration, , ,)

Bibliographical references

IARC MONOGRAPH, 16, 125, 1978

Product Name **1,1,1,2-tetrachloroethane**

C.A.S. number **630-20-6**

Scientific and common names, and synonyms

NCI-C52459

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Working materials which contain more than 1% (wt/wt) of carbon tetrachloride, tetrachloroethane or pentachloroethane may not be used. This does not apply when for technical reasons the substances cannot be replaced by other less harmful substances or formulations. Technical requirements for the protection of the workers against any exposure to vapour, gas or mist. Hygienic requirements concerning clothing, washing facilities and food (including tobacco). Medical surveillance of workers at certain time periods is obligatory. Workers who handle working materials which contain more than 1% (wt/wt) of carbon tetrachloride, tetrachloroethane or pentachloroethane may not be exposed for more than 8 hours per day and 40 hours per week (42 hours per week in plants with four shifts).

Legislative or regulation action

Product Name **1,1,1,2-tetrachloroethane**

C.A.S. number **630-20-6**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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(Reference: (BGBl) Bundesgesetzblatt, IS.140, , 1982)

Bibliographical references

IARC MONOGRAPH, 41, 87, 1986

Product Name **1,1,1-Trichloro-2,2,2-trifluoroethane**

C.A.S. number **26523-64-8**

Scientific and common names, and synonyms

ETHANE, TRICHLOROTRIFLUORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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SWE	1 Jan 1989	CFC 113 is severely restricted. Certain specified products or commodities may not be imported in the course of business activities, if the product or commodities contains soft or hard plastic foam made of CFC 11, 12, 113, 114 or 115. Use of CFC 11, 12, 113, 114 and 115 is not allowed in the course of business activities unless specifically permitted in the ordinance. CFCs other than CFC 11,12, 113, 114 and 115 may not be used in the course of business activities after 31 December 1992. (Action takes effect 1989-1995.) Action taken to prevent detriment to the atmospheric ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
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Product Name **1,1,1-Trichloroethane**

C.A.S. number **71-55-6**

Scientific and common names, and synonyms

ETHANE, 1,1,1-TRICHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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AUT	1 Jan 1995	Severely restricted. Exemptions can be granted by the Federal Minister of the Environment. Youth and the Family for industrial plants that comply with the Ordinance on Chlorinated Hydrocarbon System (Federal Law Gazette No. 27/1990). Severely restricted because of its ozone-depleting potential (ODP=0,1; listed in Annex B of the Montreal Protocol). (Reference: (AUTFLG) Federal Law Gazette, 776, , 1992)
CHE	1 Jan 1993	Severely restricted chemical: Manufacture, supply, import and use of trichloroethane and products which contain the substance is prohibited. If no replacement substance or process is available and if measures to reduce emissions are taken trichloroethane may be used as solvent until 21 December 1999 (for as solvent until 31 December 1999 (for textile cleaning until 31 December 1995). The substance causes depletion of the ozone layer. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.4.4.9.4.14, , 09 June 1986)
SWE	1 Jan 1995	Banned. May not be manufactured, imported or used in the course of business activities after 31 December 1994. Action taken to prevent detriment to the atmospheric ozone layer. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **1,1,2,2-Tetrachloroethane**

C.A.S. number **79-34-5**

Scientific and common names, and synonyms

ETHANE, 1,1,2,2-TETRACHLORO-

ETHANE, 1,1,2,2-TETRACHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Working materials which contain more than 1% (wt/wt) of carbon tetrachloride, tetrachloroethane or pentachloroethane may not be used. This does not apply when for technical reasons the substances cannot be replaced by other less harmful substances or formulations. Technical requirements for the protection of the workers against any exposure to vapour, gas or mist. Hygienic requirements concerning clothing, washing facilities and food (including tobacco). Medical surveillance of workers at certain time periods is obligatory. Workers who handle working materials which contain more than 1% (wt/wt) of carbon tetrachloride, tetrachloroethane or pentachloroethane may not be exposed for more than 8 hours per day and 40 hours per week (42 hours per week in plants with four shifts). (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)

Bibliographical references

IARC MONOGRAPH, 20, 477, 1979

Product Name **1,1-Dimethyl-hydrazine**

C.A.S. number **57-14-7**

Scientific and common names, and synonyms

AS-DIMETHYLHYDRAZINE

DIMAZIN

N,N-DIMETHYLHYDRAZINE

UNSYMMETRICAL DIMETHYLHYDRAZINE

UDMH

U-DIMETHYLHYDRAZINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	1974	Exposure of workers to carcinogenic substances is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)

Product Name **1,2:3,4-Diepoxybutane**

C.A.S. number **1464-53-5**

Scientific and common names, and synonyms

BUTANE DIEPOXIDE

BIOXIRAN

BIOXIRANE

BUTADIENDIOXYD (GERMAN)

BUTADIENE DIOXIDE

BUTADIENE DIEPOXIDE

DIOXYBUTADIENE

DIEPOXYBUTANE

DEB

ENT-26592

Legislative or regulation action

Product Name **1,2:3,4-Diepoxybutane**

C.A.S. number **1464-53-5**

Scientific and common names, and synonyms

ERYTHRITOL ANHYDRIDE
RCRA WASTE NUMBER U085
THREITOL, 1,2:3,4-DIANYDRO-
1,1'-BI(ETHYLENE-OXIDE)
1,3-BUTADIENE DIEPOXIDE
2,2'-BIOXIRANE
2,4-DIEPOXYBUTANE
2,2'-BIOXIRANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 11, 115, 1976

Product Name **1,3-Propane sultone**

C.A.S. number **1120-71-4**

Scientific and common names, and synonyms

1,2-OXATHIOLANE, 2,2-DIOXIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of 1,3-propane sultone is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography.(L'utilisation de 1,3-propane sulfoné est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	12 Jan 1976	It is prohibited to use, to work, to process, to pack, to transport or to stock propane sultone in relation to labour. It has been prohibited because it was shown to be carcinogenic in test animals. (Reference: (NLDSB) Netherlands Staatsblad, 97, , 1976)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 4, 253, 1974

Product Name **2,3,7,8-TCDD**

C.A.S. number **1746-01-6**

Scientific and common names, and synonyms

Legislative or regulation action

Product Name **2,3,7,8-TCDD**

C.A.S. number **1746-01-6**

Scientific and common names, and synonyms

DIBENZO[B,E][1,4]DIOXIN, 2,3,7,8-TETRACHLORO-

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **2,4-Diaminoanisol**

C.A.S. number **615-05-4**

Scientific and common names, and synonyms

P-METHOXY-M-PHENYLENEDIAMINE

1,3-BENZENEDIAMINE, 4-METHOXY-

1,3-DIAMINO-4-METHOXYBENZENE

2,4-DAA

3-AMINO-4-METHOXYANILINE

4-METHOXY-M-PHENYLENEDIAMINE

4-METHOXY-PHENYLENEDIAMINE

4-METHOXY-1,3-BENZENEDIAMINE

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 16, 111, 1978

IARC MONOGRAPH, 16, 51, 1978

IARC MONOGRAPH, 27, 103, 1982

Product Name **2,4-Diaminotoluene**

C.A.S. number **95-80-7**

Scientific and common names, and synonyms

TOLUENE-,4-DIAMINE

1,3-BENZENEDIAMINE, 4-METHYL-

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Legislative or regulation action

Product Name **2,4-Diaminotoluene**

C.A.S. number **95-80-7**

Bibliographical references

IARC MONOGRAPH, 16, 83, 1978

Product Name **2,4-dinitrotoluene**

C.A.S. number **121-14-2**

Scientific and common names, and synonyms

BENZENE, 1-METHYL-2,4-DINITRO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
FIN	14 Mar 1962	Total ban to use as a pesticide. High risk to human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **2-Acetylaminofluorene**

C.A.S. number **53-96-3**

Scientific and common names, and synonyms

ACETAMIDE, N-9H-FLUOREN-2-YL-

ACETAMIDE, N-FLUOREN-2-YL-

AAF

FAA

N-FLUOREN-2-YL-ACETAMIDE (8CI)

N-9H-FLUOREN-2-YL-ACETAMIDE (9CI)

N-2-FLUORENYLACETAMIDE

(ACETYLAMINO)FLUORENE

2-FAA

2-AAF

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	1974	Exposure of workers to carcinogenic substances is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is banned. However it may be used, after permission has been obtained from the National Board of Occupational Safety and Health in cases such as: a) research on effects of carcinogenic substances; b) development of methods of analysis for substances belonging to this group of chemicals; c) other activities where there are particular reasons to use such a substance. Reasons for the control action: Proven to be a human carcinogen or to have carcinogenic effects on experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, , 1985)

Product Name **2-Bromoethyl chloride**

C.A.S. number **107-04-0**

Scientific and common names, and synonyms

Legislative or regulation action

Product Name **2-Bromoethyl chloride**

C.A.S. number **107-04-0**

Scientific and common names, and synonyms

ETHANE, 1-BROMO-2-CHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	17 Mar 1988	1-bromo-2-chloroethane (CBE) has been voluntarily withdrawn from use by industry. It is no longer produced for industrial uses in the United States, although small amounts may be produced and used for research and development. No industrial uses are allowed without notifying EPA. The control action was based on a national review of scientific data. CBE has demonstrated mutagenic activity and is a suspected carcinogen, based on its mutagenic activity and its structural similarity to EDB and EDC. The chemical also has shown deoxy-ribonucleic acid (DNA) repair and damage activity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **2-Hexanone**

C.A.S. number **591-78-6**

Scientific and common names, and synonyms

2-HEXANONE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	27 May 1987	The substance(2-hexanone or Methyl N-Butyl Ketone) has been voluntarily withdrawn from the market. The only manufacturer in the U.S. discontinued production in 1979. No importers are known. No new industrial uses are allowed without notifying EPA. The control action was based on a national review of scientific data. Exposure has resulted in permanent peripheral neuropathy, including distal motor and sensory disorders with minimal reflex loss, in humans and animals. It also has caused testicular atrophy in rats and is a moderate irritant to the skin, eyes, and mucous membranes of humans and animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **2-Nitropropane**

C.A.S. number **79-46-9**

Scientific and common names, and synonyms

DIMETHYLNITROMETHANE

ISONITROPROPANE

NITROISOPROPANE

PROPANE,2-NITRO

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
FIN	1980	Voluntary withdrawal from the market after the ILO alert.

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 138, , 1992

Product Name **3,3'-Dichlorobenzidine**

C.A.S. number **91-94-1**

Legislative or regulation action

Product Name **3,3'-Dichlorobenzidine**

C.A.S. number **91-94-1**

Scientific and common names, and synonyms

O,O'-DICHLOROBENZIDINE
[1,1'-BIPHENYL]-4,4'-DIAMINE, 3,3'-DICHLORO-
3,3'-DICHLOROBIPHENYL-4,4'-DIAMINE
3,3'-DICHLORO-4,4'-DIAMINODIPHENYL
3,3'-DICHLORO-4,4'-DIAMINOBIPHENYL
3,3'-DICHLORO(1,1'-BIPHENYL)-4,4'-DIAMINE
4,4'-DIAMINO-3,3'-DICHLORODIPHENYL
4,4'-DIAMINO-3,3'-DICHLOROBIPHENYL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SUN		Production of this carcinogen has been discontinued by Decree of the Ministry of Health.
SWE	1 Jan 1985	Carcinogenic substance. The substance may be manufactured, used and handled only after permission has been granted by the labour inspectorate. (Reference: (AFS) Arbetarskyddsstyrelsens Foerfattningssamling, 5, 41, 1984)

Product Name **3-Methylcholanthrene**

C.A.S. number **56-49-5**

Scientific and common names, and synonyms

BENZ(J)ACEANTHRYLENE, 1,2-DIHYDRO-3-METHYL-
METHYLCHOLANTHRENE
1,2-DIHYDRO-3-METHYL-BENZ(J)ACEANTHRYLENE
20-METHYLCHOLANTHRENE
3-METILCOLANTRENO

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the Ministry of Labor. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	Carcinogenic substance. It is not permitted to manufacture, use or handle the substance. (Reference: (AFS) Arbetarskyddsstyrelsens Foerfattningssamling, 1984:5, 41, 1984)

Product Name **4-Aminodiphenyl**

C.A.S. number **92-67-1**

Scientific and common names, and synonyms

P-XENYLAMINE
P-PHENYLANILINE
P-BIPHENYLAMINE
P-AMINODIPHENYL
P-AMINOBIPHENYL
XENYLAMINE
[1,1'-BIPHENYL]-4-AMINE

Legislative or regulation action

Product Name **4-Aminodiphenyl**

C.A.S. number **92-67-1**

Scientific and common names, and synonyms

(1,1'-BIPHENYL)-4-AMINE (9CI)

4-PHENYLANILINE

4-BIPHENYLLAMINE

4-BIPHENYLAMINE (8CI)

4-AMINOBIIPHENYL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	21 Jun 1991	4-aminobiphenyl and its salts may not be used in concentrations equal to or greater than 0,1% by weight in substances and preparations placed on the market and may not be sold to the general public. Industrial use allowed is restricted to professional users. 4-aminobiphenyl and its salts constitutes a high risk to human or animal health. It may cause cancer and in particular to the urinary system. 4-aminobiphenyl has been classified by the EC as a category 1 carcinogen (known to be carcinogenic to man). Directive 89/677/EEC of 21.12.89. (Reference: (OJEC) Official Journal of the European Communities, L398/19, , 30 Dec 1989)
AUS		No exposure to this substance is allowed.
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR		Production and use in factories of 4-aminodiphenyl and its salts are prohibited except where written exemption is given for 1) investigation or testing in medical or scientific research; 2) where substances are formed during process in a totally enclosed system; 3) trans-shipment. Importation is prohibited. Epidemiological studies (limited to one group of workers over a 20 year period occupationally exposed to the substance) reported high incidence of bladder cancer. (Reference: (GBRSI) Statutory Instruments, 36, , 1973)
ISR	1984	Production, use, storage and transport banned without a permit from the Ministry of Industry. Carcinogenic substance. (Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 4739, 415, 1984)
ITA		Due to strong carcinogenic action on humans, this substance should not be detectable in the working environment even with the most sophisticated methods of determination. When they cannot be replaced, enclosed methods and adequate personnel protective equipment should be used.
JPN	1972	Products with concentrations more than 1% by weight of 4-aminodiphenyl and its salts are banned because of the possibility of acute cystitis and cancer of the bladder. Export is prohibited. (Reference: (JPNIS) Industrial Safety and Health Law, 55, , 01 Oct 1972)
KOR	9 Aug 1991	Banned for production, import, use, and sale of this substance. Action taken due to risks of mutagenic and carcinogenic effects. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)

Legislative or regulation action

Product Name **4-Aminodiphenyl**

C.A.S. number **92-67-1**

Bibliographical references

IARC MONOGRAPH, 1, 74, 1972
IARC MONOGRAPH, SUPPL.4, 37, 1982

Product Name **4-Dimethylaminoazobenzene**

C.A.S. number **60-11-7**

Scientific and common names, and synonyms

BENZENAMINE, N,N-DIMETHYL-4-(PHENYLAZO)-
N,N-DIMETHYL-P-(PHENYLAZO)ANILINE
N,N-DIMETHYL-4-(PHENYLAZO)-BENZENAMINE
P-(DIMETHYLAMINO)AZOBENZENE
4-(N,N-DIMETHYLAMINO)AZOBENZENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	1974	Exposure of workers to carcinogenic substances is prohibited. (Reference: (BELAR) Arrêté Royal, 4, , 23 Oct 1974)
FIN	1 Jan 1988	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SUN		Production of this carcinogen has been discontinued by Decree of the Ministry of Health.
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 8, 125, 1975

Product Name **4-Nitrodiphenyl**

C.A.S. number **92-93-3**

Scientific and common names, and synonyms

P-NITRODIPHENYL
P-NITROBIPHENYL
1,1'-BIPHENYL, 4-NITRO-
1-NITRO-4-PHENYLBENZENE
4-NITROBIPHENYL
4-NITRO-BIPHENYL
4-NITRO-1,1'-BIPHENYL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	21 Jun 1991	4-Nitrobiphenyl and its salts may not be used in concentrations equal to or greater than 0.1% by weight in substances and preparations placed on the market. Industrial use allowed is restricted to professional users. 4-nitrobiphenyl constitutes a high risk to human or animal health. It may cause cancer and in particular cancer of the urinary system. 4-nitrobiphenyl has been classified by the EC as a category 2 cancerogen

Legislative or regulation action

Product Name **4-Nitrodiphenyl**

C.A.S. number **92-93-3**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
		(probably carcinogenic to humans). Directive 89/677/EEC of 21.12.89. (Reference: (OJEC) Official Journal of the European Communities, L398/19, , 30 Dec 1989)
AUS		No exposure to this substance is allowed.
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR		Production and use in factories are prohibited except where written exemption is given for: 1) investigation or testing in medical or scientific research; 2) where substances are formed during process in a totally enclosed system; 3) trans-shipment. Importation is prohibited. 4-nitrodiphenyl when used in association with 4-aminodiphenyl is a recognized bladder carcinogen. Production method has not permitted differentiation of the two substances. (Reference: (GBRSI) Statutory Instruments, 36, , 1973)
ISR	1984	Production, use, storage and transport banned without a permit from the Ministry of Industry. Carcinogenic substance. (Reference: (KOVHT) Kovetz Ha-takanot (Official Publications of Regulations), 4739, 415, 1984)
ITA		Due to strong carcinogenic action on humans, this substance should not be detectable in the working environment even with the most sophisticated methods of determination. When they cannot be replaced, enclosed methods and adequate personnel protective equipment should be used.
JPN	1972	Products with concentrations more than 1% by weight of 4-nitrodiphenyl and its salts are banned because of the possibility of acute cystitis and cancer of the bladder. Export is prohibited. (Reference: (JPNIS) Industrial Safety and Health Law, 55, , 01 Oct 1972)
KOR	9 Aug 1982	Prohibition in manufacturing, importing, transferring, supplying and using. Exceptions will be made in case for the purpose of research or laboratory work. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)
Bibliographical references		
IARC MONOGRAPH, 4, 113, 1974		

Product Name **Acetone**
C.A.S. number **67-64-1**
Scientific and common names, and synonyms
 2-PROPANONE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of this substance is regulated in the manufacturing of certain consumer products. All of the other uses are still authorized, including pastes and adhesive substance solvents for cleaning. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est réglementée pour la fabrication de certain produits de consommation. Toutes les autres utilisations sont encore autorisées, y compris les colles et substances adhésives solvants de nettoyage. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Aliphatic or aromatic hydrocarbons in anti-freeze**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	Nov 1974	Under the conditions of the Hazardous Products Act, it is prohibited to advertise, sell or import automotive engine coolant anti-freeze preparations that contain 5% weight to weight or more of aliphatic or aromatic hydrocarbons or combinations thereof. (Section 22 of Part I of the Schedule to the Hazardous Products Act).

Product Name **Ammonium hydrogen sulphide**

C.A.S. number **12124-99-1**
Scientific and common names, and synonyms
 AMMONIUM SULFIDE ((NH₄)(SH))
 AMONNY (CZECH)
 AMMONIUM SULFHYDRATE
 AMMONIUM MERCAPTAN
 AMMONIUM HYDROSULFIDE
 AMMONIUM BISULFIDE
 MONOAMMONIUM SULFIDE
 SIRNAK

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	May not be used in jokes or hoaxes or in objects intended to be used as such, for instance as a constituent of sneezing powder and stink bombs. However, Member States may tolerate on their territory stink bombs containing not more than 1.5ml. (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
GBR	5 Feb 1995	Ban of supply of hydrogen sulfide for consumers. The substance is designed to afford amusement to any person by causing discomfort to any person by means of inducing sneezing. Action taken for consumer protection.

Legislative or regulation action

Product Name		Ammonium hydrogen sulphide
C.A.S. number		12124-99-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)		
Product Name		Ammonium polysulphide
C.A.S. number		9080-17-5
Scientific and common names, and synonyms		
AMMONIUM SULFIDE [(NH ₄) ₂ (SX)]		
AP-S		
AMONIUM TRISULFIDE		
AMMONIUM SULFIDE SOLUTIO, RED		
AMMONIUM SULFIDE (POLY-)		
AMMONIUM POLYSULFIDE SOLUTION (DOT)		
AMMONIUM POLYSULFIDE SOLUTION		
DIAMMONIUM TRISULFIDE		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	May not be used in jokes or hoaxes or in objects intended to be used as such, for instance as a constituent of sneezing powder and stink bombs. However, Member States may tolerate on their territory stink bombs containing not more than 1.5ml. (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
GBR	5 Feb 1985	Ban of supply of ammonium polysulfide for consumers. The substance is designed to afford amusement to any person by causing discomfort to any person by means of inducing sneezing. Action taken for consumer protection. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Ammonium sulfide
C.A.S. number		12135-76-1
Scientific and common names, and synonyms		
AMMONIUM SULFIDE ((NH ₄) ₂ S)		
AMMONIUM SULFIDE SOLUTION (DOT)		
AMMONIUM MONOSULFIDE		
DIAMMONIUM SULFIDE		
TRUE AMMONIUM SULFIDE		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	May not be used in jokes or hoaxes or in objects intended to be used as such, for instance as a constituent of sneezing powder and stink bombs. However, Member States may tolerate on their territory stink bombs containing not more than 1.5ml. (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
GBR	5 Feb 1985	Ban of supply of ammonium sulphides for consumers. The substance is designed to

Legislative or regulation action

Product Name **Ammonium sulfide**

C.A.S. number **12135-76-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		afford amusement to any person by causing discontent to any other person by means of inducing sneezing. Action taken for consumer protection. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Aniline**

C.A.S. number **62-53-3**

Scientific and common names, and synonyms

ANILINA (ITA,POL)
ANILIN (CSK)
AMINOPHEN
AMINOBENZENE
BENZENE AMINO
BENZENAMINE
HUILE D'ANILINE (FRA)
PHENYLAMINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
PRT		The use of aniline and 430 other products and classes of products is prohibited in the preparation of cosmetics. (Reference: (PORHW) Secretario de Estado da Saude e Assistencia, , , 1973)

Bibliographical references

IARC MONOGRAPH, 4, 27, 1974
IARC MONOGRAPH, 27, 39, 1982
IARC MONOGRAPH, SUPPL.4, 49, 1982

Product Name **Antimony and antimony compounds**

C.A.S. number **7440-36-0**

Scientific and common names, and synonyms

ANTIMONY

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	Nov 1970	The Hazardous Products Act prohibits the advertising, sale or import of toys, equipment and other products for use by the child in learning or play that have applied to them a decorative or protective coating that contains any of the following substances: a) lead pigments; b) more than 0.5% weight to weight of lead in the total solids contained in such coating; c) any compound of antimony, arsenic, cadmium, selenium or barium introduced as such if more than one-tenth of one percent of such compounds dissolves in five percent hydrochloric acid after stirring for ten minutes at twenty degrees centigrade; d) any compound of mercury introduced as such; e) ethyl ether, boric acid or salts, benzene, petroleum distillates (exceeding 10% w/v) or turpentine (exceeding 10% w/v), where the substance can, under reasonably foreseeable circumstances, become accessible to a child or where the substance is a filling that may be released upon breakage or leakage. (Section 8 and 9 of Part I of the Schedule to the Hazardous

Legislative or regulation action

Product Name		Antimony and antimony compounds
C.A.S. number		7440-36-0
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		Products Act).
DNK	Jun 1977	By Executive Order No. 349 of the Ministry of the Environment, antimony, mercury and lead compounds are not to be used in preparations designed for surface treatment (painting, etc.) of toys and children's furniture.
DZA	28 Jan 1995	The use of antimony is regulated in the manufacturing of certain consumer products. The acceptable limited doses are: 1000 mg/kg of dry weight of the concerned product for the protective liquid linings; 250 mg/kg for school supplies in plastic material; 60 mg/kg for toys; 250 mg/kg for ink for felt pens; 60 mg/kg for modelling paste and finger painting. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation d'antimoine est réglementée pour la fabrication de certain produits de consommation. Les doses limites acceptables sont: 1000 mg/kg du poids sec du produit concerné pour les revêtements protecteurs liquides; 250 mg/kg pour les articles scolaires en matière plastique; 60 mg/kg pour les jouets; 250 mg/kg pour l'encre pour crayons à feutre; 60 mg/kg pour la pâte à modeler et peinture aux doigts. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ESP	Sep 1967	Use of the following is prohibited in toys and accessories for children: lead, zinc and potassium alloys which contain more than 10% of these metals, even when coated with inert metals, arsenic and its compounds in whatever quantity, as well as the use of dyes containing antimony, arsenic, copper, mercury, uranium, over 1 per cent of lead, chromium oxide and soluble salts or barium carbonates, cadmium, chromium and zinc. (Reference: (ESPBC) El Código Alimentario Español, Ch.IX, , Sep 1967)
NZL	1983	No person shall manufacture, import, pack or sell any graphic material that contains more than 100 mg/kg of arsenic, antimony, cadmium, chromium, lead, mercury or selenium or of any water-soluble compound of barium.
Bibliographical references		
IARC MONOGRAPH, 47, 291, 1989		
Product Name		Arsenic acid and arsenates
C.A.S. number		7778-39-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
PRT	1 Jan 1974	Banned as an ingredient in household products on account of its environmental/toxicological effects. Use by the official public health services may continue. (Applies to arsenates). (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain arsenates and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)
Product Name		Arsenic and arsenic compounds
C.A.S. number		7440-38-2
Scientific and common names, and synonyms		
Legislative or regulation action		

Product Name **Arsenic and arsenic compounds**

C.A.S. number **7440-38-2**

Scientific and common names, and synonyms

ARSENIC

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS	Jan 1980	Children's toys and playthings are considered "unsafe goods" if they are coated with more than 0.1% (of the non-volatile content) arsenic or related compounds; 0.25% (of the non-volatile content) lead or related compounds; or 0.01% (of the non-volatile content) mercury or related compounds, under the Customs (Prohibited Imports) Regulations and the Trade Practices Act. "Unsafe goods" are prohibited for sale or import. (Reference: (AUSST) Australian Standard, 1647.3, , 1980)
CAN	Nov 1970	The Hazardous Products Act prohibits the advertising, sale or import of toys, equipment and other products for use by the child in learning or play that have applied to them a decorative or protective coating that contains any of the following substances: a) lead pigments; b) more than 0.5% weight to weight of lead in the total solids contained in such coating; c) any compound of antimony, arsenic, cadmium, selenium or barium introduced as such if more than one-tenth of one percent of such compounds dissolves in five percent hydrochloric acid after stirring for ten minutes at twenty degrees centigrade; d) any compound of mercury introduced as such; e) ethyl ether, boric acid or salts, benzene, petroleum distillates (exceeding 10% w/v) or turpentine (exceeding 10% w/v), where the substance can, under reasonably foreseeable circumstances, become accessible to a child or where the substance is a filling that may be released upon breakage or leakage. (Section 8 and 9 of Part I of the Schedule to the Hazardous Products Act).
CHE	1972	The use of arsenic, lead or mercury, or any of their compounds, is prohibited for the treatment of textile materials for articles of clothing. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, ,)
CHE	1972	Arsenic, lead and mercury, as well as their compounds, are prohibited in water paints and non-washable distempers used for coating house walls, living spaces or household consumer goods. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, ,)
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
DEU	1 Oct 1982	Working materials which contain more than 0.3% (wt/wt) arsenic may not be used: 1. for cleaning of accessible containers and other narrow rooms; 2. in paints and coating agents; 3. in pesticides; 4. in manufacture of window glass and glass used for packing food; 5. in manufacture of leather, tobacco products, in textile finishing, and animal preparation; 6. in the production of enamel; 7. in cleaning and staining agents except stains of phosphoric acid; 8. in chemical (reductive) metal separation (refinement) for surface treatment; 9. in the manufacture of pyrotechnical objects; 10. in metal glues; 11. in preservatives, except wood preservatives for outdoor use. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
DZA	18 Jan 1995	The use of arsenic is prohibited except in the conditions described in paragraph 6. The acceptable limited doses are: 1000 mg/kg of dry weight of the concerned product for protective liquid linings; 100 mg/kg for school supplies in plastic material; 25 mg/kg for toys; 50 mg/kg for ink for felt pens; 25 mg/kg for modelling paste and finger painting. (L'utilisation de l'arsenic est interdite excepté dans les conditions décrites au paragraphe 6. les doses limites acceptables sont: 1000 mg/kg du poids sec du produit concerné pour les revêtements protecteurs liquides; 100 mg/kg pour les articles scolaires en matière plastique; 25 mg/kg pour les jouets; 50 mg/kg pour l'encre pour crayons à feutre; 25 mg/kg pour la pâte à modeler et peinture aux doigts.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Arsenic and arsenic compounds**

C.A.S. number **7440-38-2**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
ESP	Sep 1967	Use of the following is prohibited in toys and accessories for children: lead, zinc and potassium alloys which contain more than 10% of these metals, even when coated with inert metals, arsenic and its compounds in whatever quantity, as well as the use of dyes containing antimony, arsenic, copper, mercury, uranium, over 1 per cent of lead, chromium oxide and soluble salts or barium carbonates, cadmium, chromium and zinc. (Reference: (ESPBC) El Codigo Alimentario Español, Ch.IX, , Sep 1967)
NZL	1983	No person shall manufacture, import, supply or sell any furniture, other household item or toy, covered with paint or other coating containing lead in concentration of more than 5000 mg/kg (dry weight), mercury in a concentration of more than 200mg/kg (dry weight); or arsenic, cadmium, or selenium at more than 1000 mg/kg (dry weight) of the coating.
NZL	1983	No person shall manufacture, import, pack or sell any graphic material that contains more than 100 mg/kg of arsenic, antimony, cadmium, chromium, lead, mercury or selenium or of any water-soluble compound of barium.
USA	Aug 1968	The Environmental Protection Agency has ruled that for products with arsenic trioxide in excess of 1.5% and sodium arsenite in excess of 20%, labelling which bears directions for home use is unacceptable, and a warning against home use is required for products with acceptable directions for agricultural, commercial or industrial use. The following statements must appear in a prominent position: "Do not use or store in or around the home" and "Do not allow domestic animals to graze treated area". For wood preservative uses of arsenic, the Agency has issued an amended final decision allowing the registration of arsenic to continue under certain conditions. (Reference: (FEREAC) Federal Register, 51, 1334, 1986)

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 IPCS HEALTH AND SAFETY GUIDE, 70, , 1992

Product Name **Arsenic sulfide**

C.A.S. number **12044-79-0**

Scientific and common names, and synonyms

ARSENIC SULFIDE(AS2S2)
 ARSENIC SULFIDE RED
 ARSENIC SULFIDE (AS3S3)
 ARSENIC MONOSULFIDE
 C.I. PIGMENT YELLOW 39
 C.I. 77085
 RUBY ARSENIC
 RED ORPIMENT
 RED ARSENIC GLASS

Legislative or regulative action

Legislative or regulation action

Product Name		Arsenic sulfide
C.A.S. number		12044-79-0
Country	Effective Date	Description of action taken Grounds for decision
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain arsenic sulfide and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)
Bibliographical references		
IARC MONOGRAPH, SUPPL.4, 50, 1982		
Product Name		Arsenious acid and arsenites
C.A.S. number		1327-53-3
Scientific and common names, and synonyms		ARSENIC OXIDE (AS2O3)
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
PRT	1 Jan 1974	Banned as an ingredient in household products on account of its environmental/toxicological effects. Use by the official public health services may continue. (Applies to arsenic trioxide). (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)
THA	2 May 1995	Pesticides for household and public health use containing arsenic trioxide have been banned for importation, exportation, manufacture and handling. Oncogenicity for mixer/loaders and applicators; acute toxicity to the general public resulting in a large number of accidental exposures; moderate toxicity to birds and aquatic invertebrate species and slight toxicity to fish; mutagenicity and teratogenicity; human carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	30 Jun 1988	The substance is severely restricted for use as a pesticide. On June 30, 1988, EPA cancelled the registrations for products containing arsenic trioxide, with the exception of the solid formulations of the pesticide. The two remaining uses of arsenic trioxide are: the insecticidal use of arsenic trioxide in a solid formulation package in a sealed metal container for outdoor-domestic dwellings and indoor-domestic dwellings and solid formulation arsenic trioxide for the control of moles, gophers, and pocket gopher killing use (solid formulation only) for outdoor-domestic dwellings, terrestrial non-food crops golf courses, ornamental plants and lawns, and non-crop areas. Remaining uses are minor. Oncogenicity for mixer/loaders and applicators; acute toxicity to the general public resulting in a large number of accidental exposures; moderate toxicity to birds and aquatic invertebrate species, and slight toxicity to fish; mutagenicity and teratogenicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain arsenites and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)
Product Name		Asbestos (Crocidolite *)
C.A.S. number		1332-21-4
Scientific and common names, and synonyms		ASBESTOS FIBER AMORPHOUS CROCIDOLITE ASBESTOS AMIANTHUS
Legislative or regulation action		

Product Name **Asbestos (Crocidolite *)**

C.A.S. number **1332-21-4**

Scientific and common names, and synonyms

AMOSITE (OBS.)
 ASBEST (GERMAN)
 ASBESTOS FIBRE
 ANTHOPHYLITE
 ANTHOPHYLLITE (17068-78-9)
 ASBESTOS, GRUNERITE
 AMPHIBOLE
 ACTINOLITE (77536-66-4)
 AMOSITE (12172-73-5)
 BLUE ASBESTOS
 CROCIDOLITE 12001-28-4)
 CHRYSOTILE (12001-29-5)
 CHRYSOTILE (MG3H2(SIO4)2.H2O)
 FIBROUS GRUNERITE
 FIBROUS CROCIDOLITE ASBESTOS
 FIBROUS TREMOLITE
 GRUNERITE
 KROKYDOLITH
 MYSORITE
 METAXITE
 NCI C08991
 NCI C60253A
 SERPENTINE
 SERPENTINE CHRYSOTILE
 SERPENTINE
 TREMOLITE 77536-68-6)
 WHITE ASBESTOS

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1987	Prohibition of application of asbestos by means of spraying. Measures for keeping the exposure of workers as low as reasonably practicable are recommended. Exposure shall in any case be kept below the following limit values (for 8-hour reference periods): a) For asbestos other than crocidolite: 1.00 fibres/cm ³ ; b) For crocidolite: 0.50 fibres/cm ³ ; c) For mixtures of crocidolite and other asbestos types the value should be calculated on basis of a) and b) taking the proportion of crocidolite into account. In case the limit values might be exceeded, measures to ensure the protection of the workers must be taken, in particular they must wear personal protective (including respiratory) equipment; and warning signs indicating that the limit values might be exceeded must be put up. Asbestos and asbestos-containing products should be removed as far as reasonably practicable before any demolition work. The workers and their representatives must be informed about the health risks, the existence of limit values, hygienic requirements and precautions to be taken. Specific requirements apply if the level of asbestos (for an 8-hour reference period) is equal to or greater than 0.25 fibres/cm ³ and/or the cumulative dose is equal to or greater than 15.00 fibres/day. These requirements include: notification to the competent authority; monitoring; protective and hygienic measures; medical surveillance; recordkeeping (for 30 years). (Reference: (OJEC) Official Journal of the European Communities, L263, 25, 1983)
@EC	31 Dec 1987	The placing on the market and the use of products containing this fibre may be permitted

Legislative or regulation action

Product Name		Asbestos (Crocidolite *)
C.A.S. number		1332-21-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		only if the products bear a label in accordance with the provisions of Annex II of this directive. The placing on the market and the use of products containing the asbestos fibres chrysotile, amosite, anthophyllite, actinolite or tremolite shall be prohibited for: a) toys; b) materials or preparations intended to be applied by spraying; Member States may however allow on their territories bituminous compounds containing asbestos intended to be applied by spraying as vehicle undersealing for anti-corrosion protection; c) finished products which are retailed to the public in powder form; d) items for smoking such as tobacco pipes and cigarette holders; e) catalytic filters and insulation devices for incorporation in catalytic heaters using liquefied gas; f) paints and varnishes. The placing on the market and use of crocidolite fibre and of products containing it shall be prohibited. Exempted from the prohibition are products containing the fibre when they have been manufactured and placed on the market or used before 1 January 1986. Also excluded from this prohibition are the following products including the fibre and semi-finished products essential to their manufacture: a) asbestos-cement pipes; b) acid and temperature-resisting seals, gaskets, gland packings and flexible compensators; c) torque converters. (Council directive 76/769/EEC - OJEC L262, 201, 1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
@EC	1 Feb 1993	The placing on the market and use of the following fibres and products containing these fibres is prohibited: crocidolite (CAS 12001-28-4), amosite (CAS 12172-73-5), anthophyllite (CAS 77536-67-5), actinolite (CAS 77536-66-4), tremolite (CAS 77536-68-6). No remaining uses allowed. The use of asbestos and certain products containing it can release, to the detriment of human health, fibres and dusts which can cause asbestosis, cancer and mesothelioma. Asbestos fibres are classified in the EU as category 1 carcinogens. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
@EC	6 Aug 1999	Asbestos is banned. All forms of asbestos can cause lung cancer, mesothelioma and asbestosis; no threshold level of exposure can be identified below which asbestos does not pose carcinogenic risks. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUS		Asbestos (amphibole forms) is severely restricted. All uses prohibited (with the exception of selected sampling, and research aimed at reducing human exposure). Prohibited due to carcinogenic effect on humans when inhaled. (Reference: (EP2) UNEP/FAO - PIC Circulars XI, XII, XIII - 6/2000, 12/2000, 6/2001, , ,)
AUT	1 Jan 1991	Minor uses allowed are: brake or clutch linings for vehicles containing asbestos when it is not possible to use linings without asbestos of at least equivalent effectiveness, pressurized gas bottles for acetylene. Human carcinogen (lung cancer, mesothelioma, asbestosis). (Reference: (AUTFLG) Federal Law Gazette, No. 324/1990, , 1990)
AUT	20 Feb 1992	The control action applies also to asbestos of the amphibole group (e.g. actinolite (13768-00-8), amosite (12172-73-5), anthophyllite (17068-78-9) and tremolite (14567-73-8)). All uses banned. Human carcinogen (lung cancer, mesothelioma, asbestosis). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CAN	Apr 1980	Under the conditions of the Hazardous Products Act, it is prohibited to advertise, sell or import products that are composed of or contain actinolite, amosite, anthophyllite, chrysotile, crocidolite, cummingtonite, tremolite, or any other type of asbestos and that are: a) for use by a child in learning or play and made in such a way that asbestos may become separated from the products; b) for use in modelling or sculpture; c) dry-wall joint cements or compounds or spackling or patch compounds that are for use in construction, repairs or renovations, and made in such a way that airborne asbestos may become

Legislative or regulation action

Product Name		Asbestos (Crocidolite *)
C.A.S. number		1332-21-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		separated from the products; or d) for use to simulate ashes or embers. (Section 26 of Part I of the Schedule to the Hazardous Products Act).
CHN	1 May 1994	Banned for registration, production, sale and all industrial uses as any product. Crocidolite is carcinogenic. Its use will be severely harmful to human health. (Reference: (CHNREM) Regulations for Environmental Management on the First Import of chemicals and the import and Export, , ,)
CYP	1 May 1994	Crocidolite is banned for use, except for certain uses when no less dangerous substitute exists. Use still allowed in manufacture of: asbestos cement pipes; acid and temperature resisting seals, gaskets, gland packings and flexible compensators; and torque converters. This substance is dangerous for health. The control action is based on a review of international scientific data. (Reference: (CYPAR) Asbestos (Health & Safety of Persons at Work) Regulations, , , 1993)
CZE	1 Jul 1990	Banned for all use. No remaining use allowed. Chemical carcinogen. (Reference: (CZEDMH) Directive of Ministry of Health, No. 76, , 1990)
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FIN	1 Jul 1977	Use of crocidolite is severely restricted. Use can be allowed only in specific cases with permission of the authorities. High risk to human health. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR	1 Jan 1986	The import of raw amosite fibre is prohibited. The supply of amosite and products containing amosite for use at work is prohibited. The use of amosite and products containing it in manufacture and repair is prohibited. The following processes are prohibited regardless of the type of asbestos used: asbestos spraying, installation of insulation. Occupational control limit 0.2F/ML when measured or calculated in relation to 4hr reference period. Action taken because of well documented occupational data and scientific evidence. The link between occupational exposure to amosite and the disease of asbestosis, mesothelioma, etc. is well established. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR	1 Jan 1986	Prohibition of the importation of crude, fibre, flake, powder or waste crocidolite or amosite. Prohibition of the supply of crocidolite and amosite and products containing those minerals for use at work. Prohibition of the use of crocidolite and amosite and products containing those minerals in the manufacture or repair of other products and at work (except for products which were in use before 1st January 1986 or activities in connection with the disposal of such products). (Reference: (GBRSI) Statutory Instruments, 910, 1, 1985)
HUN	1 Apr 1992	Banned for all uses. Carcinogenic. MSZ 21461-2/1992
LKA	1986	The import and sale is banned.
MLT		Crocidolite asbestos is banned for use and/or sale as an ingredient or pure product.
MYS	1 Sep 1986	Banned for use in any manufacturing process in any factory. Action taken for protection of workers in manufacturing of asbestos product. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NLD	1977	It is prohibited to sell and work on crocidolite blue asbestos for all purposes. For work on

Legislative or regulation action

Product Name		Asbestos (Crocidolite *)
C.A.S. number		1332-21-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		crocidolite applied before 1977 an exemption can be given. Reason for the control action: Asbestos is prohibited because it has shown to be carcinogenic in both humans and test animals; blue asbestos is considered to be a more potent carcinogen than white or brown asbestos. (Reference: (NLDSB) Netherlands Staatsblad, 269, , 01 Apr 1977)
NLD	1983	Selling of chrysotile and amosite has been forbidden unless the asbestos fibres are tightly fixed in the product. Reason for the control action: Asbestos is prohibited because it has shown to be carcinogenic in both humans and test animals; blue asbestos is considered to be a more potent carcinogen than white or brown asbestos. (Reference: (NLDSB) Netherlands Staatsblad, , , 18 July 1983)
NOR	1 Jan 1985	Use and other handling of asbestos and materials containing asbestos has been banned with certain exemptions. Mining species of rock containing up to 1% weight of asbestos is allowed. Removal and repair of old insulation can be done under certain conditions. Friction materials, packings and packing materials containing asbestos may be used if it is not feasible to use less harmful materials. The crocidolite form of asbestos has been totally banned.
NZL	1984	Under the Customs Act (1966) the importation of amosite and crocidolite in their fibrous state is prohibited.
NZL	1 Jan 1984	Amosite is a severely restricted compound. Imports of amosite in raw friable state is prohibited. Import and use of amosite-containing insulation components and friction linings is still allowed. Human health reasons (pulmonary diseases). (Reference: (NZLCPO) Customs Prohibition Order, , , 1984)
NZL	1 Jan 1984	Crocidolite is a severely restricted chemical. Import of crocidolite in raw friable state is prohibited. Import and use of crocidolite-containing insulation components and friction linings is still allowed. Human health reasons (pulmonary diseases). (Reference: (NZLCPO) Customs Prohibition Order, , , 1984)
POL	1 Jan 1988	Ban on application as filtering material in food industry. (Restrictive measures order of Ministry for Health and Social Welfare regarding the list of permitted additives and technical impurities in foodstuffs and stimulants of 18 October 1985). (Reference: (POLIP) Instytut Przemysłu Organicznego, , , 1987)
SWE	1 Jan 1979	Banned. Crocidolite is carcinogenic. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the Labour Inspectorate. Reasons for the control action: proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)
SWE	1 Apr 1986	Asbestos and materials containing asbestos may not be used. Some exceptions are listed (the exceptions do not apply to crocidolite and materials containing crocidolite), e.g. it may be used after the National Board of Occupational Safety has given its permission. (Permission is given only when it is not possible to use a less harmful substance, and when precautions are taken against spreading dust containing asbestos). Brake linings and other friction materials which contain asbestos may be used as long as there are no other less harmful products available. Other technical devices which contain asbestos may be used if spreading of dust containing asbestos is prevented. Before any destruction and repair of buildings or technical devices involving asbestos, permission must be obtained from the "Work Inspectorate". The working place must be shielded and marked with warning signs: "Destruction - asbestos: access prohibited for unauthorized persons". Protective and sanitary equipment for workers is listed. Packagings which contain asbestos or materials containing asbestos shall be labelled: "The dust is dangerous when inhaled. Contains asbestos". Exposure to asbestos may cause an

Legislative or regulation action

Product Name		Asbestos (Crocidolite *)
C.A.S. number		1332-21-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		impaired lung function and may increase the risk for lung cancer, especially for smokers. Asbestos is also associated with mesotheliomas of the lungs and peritoneum. (Reference: (AFS) Arbetarskyddsstyrelsens Foerfattningssamling, 2, 1, 1986)
THA	19 Oct 1983	Registration and manufacture of the blue asbestos or crocidolite form of asbestos have been prohibited. The fiber of the blue asbestos or crocidolite is longer and thinner than other types and could increase risks of developing asbestosis, mesothelioma and lung cancer. Notification issued by the Toxic Substance Committee Meeting under the Poisonous Article Act No.2 (1973). (Reference: (ONEBT) Office of the National Environment Board, , ,)
THA	2 May 1995	Crocidolite is classified in categories 4 of Hazardous Substances Act where the production, import, export, and having in the possession is banned. Carcinogen and highly toxic by inhalation. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	16 Jan 1978	Patching compounds to which asbestos has been intentionally added in respirable free form are banned as hazardous products. (Reference: (CFRUS) Code of Federal Regulations, 16(1304), 276, 1982)
USA	27 Aug 1990	Severely restricted for use. 1) In 1971, EPA issued a national emission standard prohibiting installation/re-installation of insulating asbestos containing materials (molded and friable or wet applied and friable after drying), prohibiting spraying of more than 1% asbestos containing materials on buildings, structures, pipes and conduits and requiring notification to EPA at least 20 days before spraying of more than 1% asbestos material takes place. 2) In 1977, the Consumer Product Safety Commission banned consumer patching compounds containing respirable asbestos and artificial emberizing materials with asbestos. Labelling requirements were issued for household products which are likely to release asbestos fibres. 3) The Food and Drug Administration has also banned general-use garments containing asbestos (except garments for personal protection against thermal injury, which do not release asbestos fibres under use). 4) On 12.07.89, EPA issued a rule prohibiting, at staged intervals, the future manufacture, importation, processing and distribution in commerce of most asbestos-containing products and requiring labelling of such products while in commerce. Most of this rule has been vacated and remanded by a US Court of Appeals, but the rule still applies for new uses of asbestos, floor tile and flooring felt for which manufacture, importation or processing is initiated after 25.08.89 are banned as of 27.08.90. (new uses defined as those not listed in the rule). In addition, for the following products manufacture, importation and processing must cease by 27.08.90, if they were no longer in commerce when the rule was issued (EPA is seeking information on use status as of July 1989): asbestos cement (A/C) corrugated and flat sheet A/C shingle, asbestos clothing, asbestos flooring felt, asbestos pipeline wrap, asbestos roofing felt, asbestos commercial, corrugated, and specialty paper, asbestos rollboard and asbestos millboard. Those products not covered by the bans are allowed for use. The control action was based on a national review of scientific data. The human health effects of asbestos are well documented. It is a human carcinogen and is one of the most hazardous substances to which humans are exposed in both occupational and non-occupational settings. Asbestos fibers are associated with pulmonary fibrosis (asbestosis), lung cancer and mesothelioma. Gastrointestinal cancer and other cancers at extrathoracic sites, as well as other lung disorders and diseases, have also been associated with asbestos exposure. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA		Non-sprayed friable insulating materials must not contain asbestos (applies to asbestos including actinolite, amosite, anthophyllite, chrysotile, crocidolite and tremolite). (Reference: (CFRUS) Code of Federal Regulations, 40(61), 522, 1981)
USA		Surfacing of roadways with tailings of or waste containing asbestos generated by specified processes (applies to asbestos including actinolite, amosite, anthophyllite,

Legislative or regulation action

Product Name **Asbestos (Crocidolite *)**

C.A.S. number **1332-21-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		chrysotile, crocidolite and tremolite) is prohibited. (Reference: (CFRUS) Code of Federal Regulations, 40(61), 519, 1981)
USA		In demolition/renovation operations of commercial buildings containing pipes/structures covered with asbestos as a friable material, the material must be adequately wet during stripping and remaining stages of the operations, and it is prohibited to drop or throw the material. (Alternatively exhaust ventilation/collection systems, from which visible emissions are prohibited, may be permitted in some cases). Reporting requirements are specified. (Reference: (CFRUS) Code of Federal Regulations, 40(61), 519, 1981)
USA		Artificial emberizing materials (used under or glued to artificial logs for use in fireplaces for decorative purposes) which contain asbestos in respirable free form are banned as hazardous products. (Reference: (CFRUS) Code of Federal Regulations, 16(1305), 280, 1982)
USA		Any general-use garment containing asbestos is banned as a hazardous product because it possesses such a degree of hazard that adequate cautionary labelling cannot be written and public health can only be served by keeping it out of interstate commerce (does not apply to garments for personal protection constructed so fibers will not become airborne with reasonable use). (Reference: (CFRUS) Code of Federal Regulations, 16(1500), 302, 1982)
Bibliographical references		
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IARC MONOGRAPH, 14, , 1977		
WHO FOOD ADD., 13, 36, 1978		
IARC MONOGRAPH, SUPPL.4, 52, 1982		
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 53, , 1986		

Product Name **Barium**

C.A.S. number **7440-39-3**

Scientific and common names, and synonyms

BARIUM

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	Nov 1970	The Hazardous Products Act prohibits the advertising, sale or import of toys, equipment and other products for use by the child in learning or play that have applied to them a decorative or protective coating that contains any of the following substances: a) lead pigments; b) more than 0.5% weight to weight of lead in the total solids contained in such coating; c) any compound of antimony, arsenic, cadmium, selenium or barium introduced as such if more than one-tenth of one percent of such compounds dissolves in five percent hydrochloric acid after stirring for ten minutes at twenty degrees centigrade; d) any compound of mercury introduced as such; e) ethyl ether, boric acid or salts, benzene, petroleum distillates (exceeding 10% w/v) or turpentine (exceeding 10% w/v), where the substance can, under reasonably foreseeable circumstances, become accessible to a child or where the substance is a filling that may be released upon breakage or leakage. (Section 8 and 9 of Part I of the Schedule to the Hazardous Products Act).
DZA	28 Jan 1995	The use of barium is regulated in the manufacturing of certain consumer products. The acceptable limited doses are: 1000 mg/kg of dry weight of the concerned product for

Legislative or regulation action

Product Name **Barium**

C.A.S. number **7440-39-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NZL	1983	<p>protective linings; 500 mg/kg for school supplies in plastic material; 500 mg/kg for toys; 250 mg/kg for ink for felt pens; 250 mg/kg for modelling paste and finger painting. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation du baryum est réglementée pour la fabrication de certain produits de consommation. Les doses limites acceptables sont: 1000 mg/kg du poids sec du produit concerné pour les revêtements protecteurs; 500 mg/kg pour les articles scolaires en matière plastique; 500 mg/kg pour les jouets; 250 mg/kg pour l'encre pour crayons à feutre; 250 mg/kg pour la pâte à modeler et peinture aux doigts. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.)</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p> <p>No person shall manufacture, import, pack or sell any graphic material that contains more than 100 mg/kg of arsenic, antimony, cadmium, chromium, lead, mercury or selenium or of any water-soluble compound of barium.</p>

Bibliographical references

WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 107, , 1990
 IPCS HEALTH AND SAFETY GUIDE, 46, , 1991

Product Name **Barium carbonate**

C.A.S. number **513-77-9**

Scientific and common names, and synonyms

CARBONATE ACID, BARIUM SALT 1:1

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ESP	Sep 1967	<p>Use of the following is prohibited in toys and accessories for children: lead, zinc and potassium alloys which contain more than 10% of these metals, even when coated with inert metals, arsenic and its compounds in whatever quantity, as well as the use of dyes containing antimony, arsenic, copper, mercury, uranium, over 1 per cent of lead, chromium oxide and soluble salts or barium carbonates, cadmium, chromium and zinc.</p> <p>(Reference: (ESPBC) El Código Alimentario Español, Ch.IX, , Sep 1967)</p>

Product Name **Benzene**

C.A.S. number **71-43-2**

Scientific and common names, and synonyms

BENZENE
 BENZOLE
 BENZOL
 CYCLOHEXATRIENE
 COAL NAPHTHA
 PYROBENZOL
 PROBENZOLE
 PHENYL HYDRIDE
 PHENE
 (6)ANNULENE

Legislative or regulation action

Product Name		Benzene
C.A.S. number		71-43-2
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	Not permitted in toys or parts of toys as placed on the market where the concentration of benzene in the free state is in excess of 5mg/kg of the weight of the toy or part of the toy (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
CAN	Nov 1970	The Hazardous Products Act prohibits the advertising, sale or import of toys, equipment and other products for use by the child in learning or play that have applied to them a decorative or protective coating that contains any of the following substances: a) lead pigments; b) more than 0.5% weight to weight of lead in the total solids contained in such coating; c) any compound of antimony, arsenic, cadmium, selenium or barium introduced as such if more than one-tenth of one percent of such compounds dissolves in five percent hydrochloric acid after stirring for ten minutes at twenty degrees centigrade; d) any compound of mercury introduced as such; e) ethyl ether, boric acid or salts, benzene, petroleum distillates (exceeding 10% w/v) or turpentine (exceeding 10% w/v), where the substance can, under reasonably foreseeable circumstances, become accessible to a child or where the substance is a filling that may be released upon breakage or leakage. (Section 8 and 9 of Part I of the Schedule to the Hazardous Products Act).
CHE	1972	Use prohibited for any purpose whatsoever in products for public use (substances intended for private and commercial use) or in commercial products (substances intended for use in trade and industry). The prohibition does not apply to toluene and xylene with a maximum benzene content of 0.5 percent by volume. (Reference: (RSCHE) Recueil Systématique du Droit Federal, , , 1985)
DZA	28 Jan 1995	The control measure applies to aliphatic or aromatic hydrocarbons. The use of aliphatic or aromatic hydrocarbons is regulated in the manufacturing of certain consumer products. The acceptable limited dose is less than 0.5% of the total weight of the concerned product for antigel preparations for vehicles. The acceptable limited dose relates to the aliphatic or aromatic hydrocarbon or the mixture of the two hydrocarbons. All of the other applications are still authorized, except the use of aliphatic hydrocarbons in extinguishing liquids. This measure is based on the health risks described in the bibliography. (La mesure de contrôle s'applique aux hydrocarbures aliphatiques ou aromatiques. L'utilisation de hydrocarbures aliphatiques ou aromatiques est réglementée pour la fabrication de certains produits de consommation. La dose limite acceptable est de moins de 0,5 % du poids total du produit concerné pour les préparations antigel pour véhicules. La dose limite acceptable concerne l'hydrocarbure aliphatique ou aromatique ou le mélange des deux hydrocarbures. Toutes les applications sont encore autorisées, excepté l'emploi d'hydrocarbures aliphatique dans les liquides extincteurs. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DZA	28 Jan 1995	The use of this substance is regulated in the manufacturing of certain consumer products. The acceptable limited dose is from 0.2% of the total weight of the concerned product for antiseptics. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: jouets, matériels et autres produits destinés à l'éducation ou à la récréation des enfants. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR	31 Dec 1987	Ban of supply of benzene in toys, in excess of 5mg/kg. Action taken for consumer protection. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	9 Aug 1982	Prohibition of manufacturing, importing, transferring, supplying and using of mucilage

Legislative or regulation action

Product Name **Benzene**

C.A.S. number **71-43-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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containing benzene. Exceptions will be made in case for the purpose of research or laboratory work. Carcinogen.

(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 7, 203, 1974
IARC MONOGRAPH, 29, 391, 1982
IARC MONOGRAPH, 29, 93, 1982
IARC MONOGRAPH, SUPPL.4, 56, 1982
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
IPCS ENVIRONMENTAL HEALTH CRITERIA, 150, , 1993

Product Name **Benzidine**

C.A.S. number **92-87-5**

Scientific and common names, and synonyms

BIPHENYL, 4,4'-DIAMINO
BENZYDYNA (POL)
BENZIDINA (ITA)
BENZIDIN (CSK)
P-DIAMINODIPHENYL
P,P-DIAMINOBIIPHENYL
P,P'-BIANILINE
[1,1'-BIPHENYL]-4,4'-DIAMINE
(1,1') BIPHENYL-4,4'-DIAMINE
4,4-DIPHENYLENEDIAMINE
4,4-BIPHENYLDIAMINE
4,4'-DIAMINODIPHENYL
4,4'-DIAMINOBIIPHENYL
4,4'-DIAMINO-1,1'-BIPHENYL
4,4'-BIANILINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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@EC **31 Dec 1987** May not be used in jokes or hoaxes or in objects intended to be used as such, for instance as a constituent of sneezing powder and stink bombs. However, Member States may tolerate on their territory stink bombs containing not more than 1.5ml. (Applies to benzidine and/or its derivatives) (Council directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given).

(Reference: (OJEC) Official Journal of the European Communities, L147, , Sep 1983)

DZA **28 Jan 1995** The use of this substance is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.)

(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name	Benzidine	
C.A.S. number	92-87-5	
Bibliographical references	IARC MONOGRAPH, 1, 80, 1972 IARC MONOGRAPH, 29, 149, 1982 IARC MONOGRAPH, 29, 391, 1982 IARC MONOGRAPH, SUPPL.4, 57, 1982	
Product Name	Benzoylperoxide	
C.A.S. number	94-36-0	
Scientific and common names, and synonyms	BENZOYL PEROXIDE BENZOIC ACID, PEROXIDE DIBENZOYL PEROXIDE	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SWE		Cosmetic and hygienic products may not contain this substance. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)
Bibliographical references	IARC MONOGRAPH, 36, 267, 1985	
Product Name	Bis(2,3-Dibromopropyl) phosphate	
C.A.S. number	5412-25-9	
Scientific and common names, and synonyms	1-PROPANOL, 2,3-DIBROMO-, HYDROGEN PHOSPHATE	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
JPN	Sep 1981	This compound should not be detected in textile products (sleepwear, carpets, bedding and curtains). (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , , 1982)
Bibliographical references	IPCS ENVIRONMENTAL HEALTH CRITERIA, 173, , 1995	
Product Name	Bithionol	
C.A.S. number	97-18-7	
Scientific and common names, and synonyms	BIS(2-HYDROXY-3,5-DICHLOROPHENYL)SULFIDE 2,2'-THIOBIS(4,6-DICHLOROPHENOL)	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
USA		Products cancelled which are intended for: 1. direct contact with the skin or those that can be expected to be in direct or continuous contact with the skin. 2. use in textiles or other materials likely to come in contact with the skin. 3. household use. (Reference: (PRNEN) Pesticide Registration Notice, 13, , 1968)

Product Name **Boric acid and borates**

C.A.S. number **10043-35-3**

Scientific and common names, and synonyms
BORIC ACID (H₃BO₃)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	Nov 1970	The Hazardous Products Act prohibits the advertising, sale or import of toys, equipment and other products for use by the child in learning or play that have applied to them a decorative or protective coating that contains any of the following substances: a) lead pigments; b) more than 0.5% weight to weight of lead in the total solids contained in such coating; c) any compound of antimony, arsenic, cadmium, selenium or barium introduced as such if more than one-tenth of one percent of such compounds dissolves in five percent hydrochloric acid after stirring for ten minutes at twenty degrees centigrade; d) any compound of mercury introduced as such; e) ethyl ether, boric acid or salts, benzene, petroleum distillates (exceeding 10% w/v) or turpentine (exceeding 10% w/v), where the substance can, under reasonably foreseeable circumstances, become accessible to a child or where the substance is a filling that may be released upon breakage or leakage. (Section 8 and 9 of Part I of the Schedule to the Hazardous Products Act).
DZA	28 Jan 1995	The control measure applies to boric acid and boric salts. The use of boric acid and boric salts is prohibited in the manufacturing of the following consumer products: toys, material and other products intended for education or for children's recreation. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (La mesure de contrôle s'applique à l'acide borique et aux sels boriques. L'utilisation de l'acide borique et des sels boriques est interdite pour la fabrication des produits de consommation suivants: jouets, matériel et autres produits destinés à l'éducation ou à la récréation des enfants. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1973	The Ministry of Health and Social Affairs has prohibited the manufacture of any baby powder which contains boric acid and sodium borate.
MLT		Boron and perborates banned for use and/or sale in detergents.
PER		Prohibited from use in cosmetic powders, due to their serious effects on the liver and kidney, and on the cardiovascular, digestive and nervous systems. Some fatalities have been connected to the use of these substances.
POL		Boric acid and salts thereof: not permitted except borax in powders (7%) and in additives for adult baths (40%). (Reference: (POLIP) Instytut Przemysłu Organicznego, , , 1987)
SWE		Cosmetic and hygienic products may not contain this substance at concentrations exceeding 3%. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)
THA	1979	Products containing borax and boric acid intended for use as baby powders and in food are prohibited due to the fact that the substances may cause inflammation of mouth, throat, stomach and loss of appetite. Notification issued under the Food Act, 1979. (Reference: (MINPT) Ministry of Public Health, 4, , 1979)

Product Name **Boron**

C.A.S. number **7440-42-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name **Boron**

C.A.S. number **7440-42-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain boron and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)

Product Name **Bromomethane**

C.A.S. number **74-83-9**

Scientific and common names, and synonyms

BROMOMETHANE, MONOBROMOMETHANE
METHYL BROMIDE
METHANE, BROMO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1972	Use prohibited for fire-fighting or refrigeration. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, , 1985)
DEU	1 Jun 1974	Severely restricted for use as plant protection product. Use still allowed for: fumigation in mills, in storerooms, in stores and other rooms of food processing industry, in vacuum chambers, in gasproof small silos, in means and containers of transport and under gasproof tarpaulins against stored product pests; soil treatment outside water catchment areas and spa protection areas in ornamentals, in nurseries, in vine nurseries and for producing seed potatoes in plant breeding gardens. Application is restricted to licensed personnel. High toxicity in connection with inodorousness to warm blooded animals and man; High tendency to percolate into deeper soil layers. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 72/1, , 1985
FAO PLANT PRODUCTION & PROTECTION PAPER, 72/2, , 1985
IARC MONOGRAPH, 41, , 1986
IPCS HEALTH AND SAFETY GUIDE, 86, , 1994

Product Name **Butyl bromoacetate**

C.A.S. number **18991-98-5**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	May not be used in jokes or hoaxes or in objects intended to be used as such, for instance as a constituent of sneezing powder and stink bombs. However, Member States may tolerate on their territory stink bombs containing not more than 1.5ml. (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)

Legislative or regulation action

Product Name **Cadmium and cadmium compounds**

C.A.S. number **7440-43-9**

Scientific and common names, and synonyms

CADMIUM

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	Nov 1970	The Hazardous Products Act prohibits the advertising, sale or import of toys, equipment and other products for use by the child in learning or play that have applied to them a decorative or protective coating that contains any of the following substances: a) lead pigments; b) more than 0.5% weight to weight of lead in the total solids contained in such coating; c) any compound of antimony, arsenic, cadmium, selenium or barium introduced as such if more than one-tenth of one percent of such compounds dissolves in five percent hydrochloric acid after stirring for ten minutes at twenty degrees centigrade; d) any compound of mercury introduced as such; e) ethyl ether, boric acid or salts, benzene, petroleum distillates (exceeding 10% w/v) or turpentine (exceeding 10% w/v), where the substance can, under reasonably foreseeable circumstances, become accessible to a child or where the substance is a filling that may be released upon breakage or leakage. (Section 8 and 9 of Part I of the Schedule to the Hazardous Products Act).
CHE	31 Aug 1988	Severely restricted chemical. It is prohibited to import and supply cadmium-plated articles and plastics with a cadmium content higher than 100mg/kg plastic (as commercial goods for industrial and consumer use). In addition to these prohibitions, which affect the use of cadmium and its compounds in products, there are several regulations on maximum levels of cadmium contamination in articles. Prohibited is: a) Manufacture and import of zinc-plated articles with a cadmium content higher than 250mg/kg zinc; b) Supply of commercial fertilisers containing more than 1% phosphorous with a cadmium content higher than 50g/tonne phosphorous. Special provision apply to antiques and to articles for which no replacement is available (enumerated in a list) Bioaccumulation, high toxicity. (Reference: (CHEOE) Ordinance relating to Environmentally Hazardous Substances, Annex, 4.5.4.11,4.12, , 09 June 1986)
DZA	28 Jan 1995	The use of this substance is regulated in the manufacturing of certain consumer products. Acceptable limited doses: 100 mg/kg for school supplies in plastic material; 75 mg/kg for toys; 50 mg/kg for modelling paste and finger painting; 50 mg/kg for inks for felt pens; 0.5 mg/kg for ceramics. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est réglementée pour la fabrication de certain produits de consommation. Doses limites acceptables: 100mg/kg pour les articles scolaires en matière plastique; 75 mg/kg pour les jouets; 50 mg/kg pour la pâte à modeler et la peinture aux doigts; 50 mg/kg pour les encres pour crayons à feutre; 0,5 mg/kg pour la céramique. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ESP	Sep 1967	Use of the following is prohibited in toys and accessories for children: lead, zinc and potassium alloys which contain more than 10% of these metals, even when coated with inert metals, arsenic and its compounds in whatever quantity, as well as the use of dyes containing antimony, arsenic, copper, mercury, uranium, over 1 per cent of lead, chromium oxide and soluble salts or barium carbonates, cadmium, chromium and zinc. (Reference: (ESPBC) El Código Alimentario Español, Ch.IX, , Sep 1967)
NZL	1983	No person shall manufacture, import, supply or sell any furniture, other household item or toy, covered with paint or other coating containing lead in concentration of more than 5000 mg/kg (dry weight), mercury in a concentration of more than 200mg/kg (dry weight); or arsenic, cadmium, or selenium at more than 1000 mg/kg (dry weight) of the coating.
NZL	1983	No person shall manufacture, import, pack or sell any graphic material that contains more than 100 mg/kg of arsenic, antimony, cadmium, chromium, lead, mercury or selenium or of any water-soluble compound of barium.

Legislative or regulation action

Product Name **Cadmium and cadmium compounds**

C.A.S. number **7440-43-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	Jan 1980	Cadmium is prohibited for use in coating materials applied to children's toys and playthings when in excess of 0.1% (of the non-volatile component).

Bibliographical references

IARC MONOGRAPH, 2, 74, 1973
 IARC MONOGRAPH, 11, 39, 1976
 WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
 WHO FOOD ADD., 24, 163, 1989
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 134, , 1992
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 135, , 1992
 IARC MONOGRAPH, 58, 119, 1993

Product Name **Capsaicin**

C.A.S. number **404-86-4**

Scientific and common names, and synonyms

6-NONENAMIDE, N-[(4-HYDROXY-3-METHOXYPHENYL)METHYL]-8-METHYL-, (E)-
 6-NONENAMIDE, 8-METHYL-N-VANILLYL-, (E) (8CI)
 CAPSAICINE
 NCI-C56564
 N-[(4-HYDROXY-3-METHOXYPHENYL)METHYL]-8-METHYL-6-NONENAMIDE
 TRANS-N-[(4-HYDROXY-3-METHOXYPHENYL)METHYL]-8-METHYL-6-NONENAMIDE
 TRANS-8-METHYL-N-VANILLYL-6-NONENAMIDE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	6 Oct 1981	The import, production and sale of products for household and public health use containing this chemical as an active ingredient are prohibited. Reasons for the control action: a high risk to health as a powerful counter irritant which may be abused when used in spray form. (Reference: (RTSCM) Report of Toxic Substances Committee Meeting, 3, BE.2527, 14 Sep 1981)
THA	2 May 1995	Products, which inhibit human functional system transiently in order to protect oneself or attack the others, containing this chemical have been banned for importation, exportation, manufacture and handling. A high risk to human health as a powerful counter irritant which may be abused when used in spray form. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Captan**

C.A.S. number **133-06-2**

Scientific and common names, and synonyms

7A-TETRAHYDROPHthalimide
 N-TRICHLOROMETHYLTHIOTETRAHYDROPHthalimide
 N-TRICHLOROMETHYLTHIOCYCLOHEX-4-ENE-1,2-DICARBOXIMIDE
 N-TRICHLOROMETHYLTHIO-CIS-DELTA(SUP 4)-CYCLOHEXENE-1,2-DICARBOXIMIDE
 N-TRICHLOROMETHYLTHIO-3A,4,7,7A-TETRAHYDROPHthalimide
 N-TRICHLOROMETHYLMERCAPTO-4-CYCLOHEXENE-1,2-DICARBOXIMIDE
 N-(TRICHLOROMETHYLTHIO)-4-CYCLOHEXENE-1,2-DICARBOXIMIDE

Legislative or regulation action

Product Name **Captan**

C.A.S. number **133-06-2**

Scientific and common names, and synonyms

N-(TRICHLOROMETHYLMERCAPTO)-DELTA(SUP 4)-TETRAHYDROPHthalIMIDE
N-((TRICHLOROMETHYL)THIO)TETRAHYDROPHthalIMIDE
N-((TRICHLOROMETHYL) THIO)-4-CYCLOHEXENE-1,2-DICARBOXIMIDE
1H-ISOINDOLE-1,3(2H)-DIONE, 3A,4,7,7A-TETRAHYDRO-2-[(TRICHLOROMETHYL)THIO]-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 30, 295, 1983
FAO PLANT PRODUCTION & PROTECTION PAPER, 62, , 1984
FAO PLANT PRODUCTION & PROTECTION PAPER, 78, 41, 1986
FAO PLANT PRODUCTION & PROTECTION PAPER, 84, 14, 1987
FAO PLANT PRODUCTION & PROTECTION PAPER, 86/1, 3, 1987
FAO PLANT PRODUCTION & PROTECTION PAPER, 102, 17, 1990
FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 29, 1990
IPCS HEALTH AND SAFETY GUIDE, 50, , 1990
FAO PLANT PRODUCTION & PROTECTION PAPER, 103, 9, 1991
FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 39, 1994
FAO PLANT PRODUCTION & PROTECTION PAPER, 131/1, 157, 1994
FAO PLANT PRODUCTION & PROTECTION PAPER, 133, 52, 1995

Product Name **Carbon tetrachloride**

C.A.S. number **56-23-5**

Scientific and common names, and synonyms

BENZINOFORM
CZTEROCHLOREK WEGLA (POL)
CARBON CHLORIDE
METHANE, TETRACHLORO-
METHANE, TETRACHLORO
METHANE TETRACHLORIDE
PERCHLOROMETHANE
TETRACLORURO DI CARBONIO (ITA)
TETRACHLORURE DE CARBONE (FRA)
TETRACHLOROMETHANE
TETRACHLOROCARBON
TETRACHLORMETHAN (DEU)
TETRACHLORKOHLSTOFF, TETRA (DEU)
TETRACHLOORMETAAN
TETRACHLOORKOOLSTOF (NLD)

Legislative or regulatory action

Legislative or regulation action

Product Name		Carbon tetrachloride
C.A.S. number		56-23-5
Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	May not be used in ornamental objects intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays. (Council directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
BEL	7 Nov 1978	Halogen derivatives of hydrocarbons are prohibited for any lamp containing them for decorative purposes on the grounds that these chemicals are narcotic and very dangerous to health, in particular 1,1,2,2-tetrachloroethane, carbon tetrachloride, pentachloroethane and 1,1,2-trichloroethane. (Reference: (BELAR) Arrêté Royal, , , 07 Nov 1978) (Reference: (BELAP) Annales Pharmaceutiques belges, , , 07 Nov 1978)
CAN	Apr 1971	Under the conditions of the Hazardous Products Act, it is prohibited to advertise, sell or import products that consist of or contain carbon tetrachloride or 1,1,2,2-tetrachloroethane, or 5 parts per million or more ethyl bromoacetate, where such products are packaged as consumer products. (Section 12 and 20 of part I of the Schedule to the Hazardous Products Act).
DEU	1 Nov 1993	The use of tetrachloromethane and its preparations and products containing more than 0,1% of it or containing it as a solvent is totally banned for private final consumers. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DZA	28 Jan 1995	The use of carbon tetrachloride is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de tetrachlorure de carbone est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Bibliographical references		
IARC MONOGRAPH, 1, 53, 1972		
IARC MONOGRAPH, 20, 371, 1979		
FAO PLANT PRODUCTION & PROTECTION PAPER, 20 SUP., , 1979		
IARC MONOGRAPH, SUPPL.4, 74, 1982		
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984		
FAO PLANT PRODUCTION & PROTECTION PAPER, 72/1, , 1985		

Product Name		Cellulose nitrate
C.A.S. number		9004-70-0
Scientific and common names, and synonyms		NITROCELLULOSE
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
CAN	Apr 1971	Under the conditions of the Hazardous Products Act, it is prohibited to advertise, sell or import spectacle frames that, in whole or in part, are made of, or contain cellulose nitrate. (Section 6 of Part I of the Schedule to the Hazardous Products Act).
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: toys, materials and other products intended for education or for children's recreation. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: jouets, matériels et autres produits destinés à l'éducation ou à la récréation des enfants. Toutes les autres utilisations sont

Legislative or regulation action

Product Name **Cellulose nitrate**

C.A.S. number **9004-70-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **CFC 11 (Trichloromonofluoromethane)**

C.A.S. number **75-69-4**

Scientific and common names, and synonyms

METHANE, TRICHLOROFLUORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	1 Jan 1991	The substances are severely restricted for use. Manufacture, processing and distribution in commerce of fully halogenated CFCs as aerosol propellants were banned in 1978, with certain exceptions. The ban also extends to exportation of CFC aerosol propellants. In Dec. 1987, EPA limited production, consumption and export of certain CFCs under the Clean Air Act and to constitute the US implementation of the Montreal Protocol on substances depleting the ozone layer, signed 16.09.87. In 1991 EPA promulgated base-line limits on production and import of ozone depleting substances in the US, thereby severely restricting their availability. The control action applies to: CFC11 (CAS 75-69-4); CFC- 12 (CAS 75-71-8), CFC-13 (CAS 75-72-9), CFC-111 (CAS 354- 56-3), CFC-112, CFC-113 (CAS 76-13-1), CFC-114 (76-14-2), CFC-115 (CAS 76-15-3), CFC-211 (CAS 135401-87-5), CFC-212 (CAS 134452-44-1), CFC-213, CFC-214 (CAS 2268-46-4), CFC-215 (CAS 4259-43-2), CFC-216 (CAS 661-97-2), CFC-217 (CAS 422-86-6), Halon 1211 (CAS 353-59-3), Halon 1301 (CAS 75- 63-8), Halon 2402 (CAS 124-73-2), Carbon tetrachloride (CAS 56-23-5), Methyl chloroform (CAS 71-55-6). Use is still allowed in Mercaptan stench warning devices; release agent for molds used in the production of plastic and elastomeric materials; flying insect pesticides for use in non residential food handling areas and for space spraying of aircraft; diamond-grit spray; non-consumer articles used as cleaner- solvents lubricants, or coatings for electrical or electronic equipment; articles necessary for safe maintenance and operation of aircraft; uses essential to military preparedness as determined by EPA and the Department of Defense; pharmaceutical rotary tablet press punch lubricant. The CFCs' contribution to the depletion of the ozone layer in the stratosphere and on the global warming. The control action was based on a national review of scientific data. The stratospheric ozone layer acts as a vital shield to protect human health and welfare and the environment from the potentially harmful ultraviolet radiation (UV-B). Degradation of CFCs in the upper stratosphere releases chlorine and bromine, which combine with and break down ozone molecules. EPA believes that increased UV-B radiation penetration of the earth's atmosphere resulting from depletion of the ozone layer may cause numerous human health effects, including increased incidence of non-melanoma and melanoma skin cancers, increased incidence of cataracts, and suppression of the immune system. In the environment, UV-B radiation also accelerates weathering of outdoors plastics, increases formation of ground-level ozone, and contributes to global warming levels. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **CFCs (Chlorofluorocarbons)**

Legislative or regulatory action

Legislative or regulation action

Product Name		CFCs (Chlorofluorocarbons)
Country	Effective Date	Description of action taken Grounds for decision
CAN	1 May 1980	The import, manufacture, processing, sale or use of totally halogenated CFCs for use as a propellant in aerosol hair sprays, deodorants and antiperspirants is prohibited for the purpose of subsection 8(2) of the Environmental Contaminants Act. (Chlorofluorocarbon regulations (SOR/80-254)). (Amendment: SOR/81-365 May 7, 1981). Reasons for the control action: Danger of CFCs as a potential depleter of the stratospheric ozone layer. (Reference: (CAGAAK) Canada Gazette Part II, 117, 1289, 03 Apr 1980)
CAN	May 1981	Under the Environmental Contaminants Act, the import, manufacture, processing, sale or use of chlorofluorocarbons for use as a propellant constituent in aerosol hair sprays, deodorants and antiperspirants is prohibited because of the danger of depletion of the stratospheric ozone layer. (Reference: (CANGZ) Canada Gazette, 115, 1410, 1981)
NOR	Aug 1981	In accordance with a Royal Decree of 5 August 1977, it is prohibited to manufacture or import aerosol cans and the like where chlorofluorocarbons are employed as a propellant. The prohibition applies to manufacture both for domestic and export purposes. Certain medicinal products are exempted from this prohibition. These restrictions are based on a 1976 finding by the National Academy of Sciences that chlorofluorocarbons represent a danger to the ozone layer. Chlorofluorocarbons may be exported with no requirement of foreign notification of domestic restrictions on their use.
PHL	1983	Gases being phased out of use due to the threat to the ozone layer.
SWE	1980	Spraying devices containing aerosol propellants in the form of completely halogenated chlorofluorocarbons may not be manufactured or imported. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, 192, 1, 1980)
THA		Use in aerosols has been restricted to specific types of drug and cosmetic preparations to protect the stratospheric ozone. (Reference: (MINPT) Ministry of Public Health, 26, , 1981)
Bibliographical references		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 113, , 1990		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 126, , 1991		

Product Name		Chloric acid and chlorates	
C.A.S. number		7790-93-4	
Scientific and common names, and synonyms		CHLORINE DIOXIDE HYDRATE, FROZEN (DOT) CHLORIC ACID (DOT)	

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision	
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain chlorates (except for certain smoke mixtures and certain small devices with a total powder content of not more than 4g of which not more than 15% is potassium, sodium or barium chlorate) and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)	

Product Name		Chloroform	
C.A.S. number		67-66-3A	
Scientific and common names, and synonyms			

Legislative or regulation action

Product Name **Chloroform**

C.A.S. number **67-66-3A**

Scientific and common names, and synonyms

METHANE, TRICHLORO

TRICHLOROMETHANE

TRICHLOROFORM

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NGA	1 Feb 1985	Chloroform is not allowed in cosmetic and drug products since 1 Feb. 1985. From that date, import, export and sale of products containing chloroform became illegal. The decision was based on reports from literature of the carcinogenic effects of chloroform on animals and possible hepatotoxic and nephrotoxic effects after prolonged use by humans. (Reference: (AARNO) Administrative Action, MH.1856/S.3T, 112, 15 Sep 1983)

Bibliographical references

IARC MONOGRAPH, 1, 61, 1972

IARC MONOGRAPH, 4, 239, 1974

IARC MONOGRAPH, 20, 401, 1979

WHO FOOD ADD., 14, 24, 1980

IARC MONOGRAPH, Suppl.4, 64, 1982

IARC MONOGRAPH, Suppl.4, 87, 1982

IPCS HEALTH AND SAFETY GUIDE, 87, , 1994

IPCS ENVIRONMENTAL HEALTH CRITERIA, 163, , 1995

Product Name **Chloromethane**

C.A.S. number **74-87-3**

Scientific and common names, and synonyms

METHANE, CHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of monochloromethane is prohibited in the manufacturing of the following consumer products: cleaning agents. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography.(L'utilisation de monochlorométhane est interdite pour la fabrication des produits de consommation suivants: agents nettoyants. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Chromium**

C.A.S. number **7440-47-3**

Scientific and common names, and synonyms

CHROMIUM

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of chromium is regulated in the manufacturing of certain consumer products. The acceptable limited doses are: 1000 mg/kg of dry weight of the concerned product for protective linings; 1000 mg/kg for school supplies in plastic material; 60 mg/kg for toys; 25 mg/kg for ink for felt pens; 25 mg/kg for modelling paste and finger painting. All of the other uses are still authorized. This measure is based on the health risks described in the

Legislative or regulation action

Product Name **Chromium**

C.A.S. number **7440-47-3**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ESP	Sep 1967	<p>bibliography. (L'utilisation de chrome est réglementée pour la fabrication de certain produits de consommation. Les doses limites acceptables sont: 1000 mg/kg du poids sec du produit concerné pour les revêtements protecteurs; 1000 mg/kg pour les articles scolaires en matière plastique; 60 mg/kg pour les jouets; 25 mg/kg pour l'encre pour crayons à feutre; 25 mg/kg pour la pâte à modeler et peinture aux doigts. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.)</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p> <p>Use of the following is prohibited in toys and accessories for children: lead, zinc and potassium alloys which contain more than 10% of these metals, even when coated with inert metals, arsenic and its compounds in whatever quantity, as well as the use of dyes containing antimony, arsenic, copper, mercury, uranium, over 1 per cent of lead, chromium oxide and soluble salts or barium carbonates, cadmium, chromium and zinc. (Reference: (ESPBC) El Código Alimentario Español, Ch.IX, , Sep 1967)</p>
<p>Bibliographical references</p> <p>IPCS ENVIRONMENTAL HEALTH CRITERIA, 61, , 1988</p> <p>IARC MONOGRAPH, 49, , 1990</p>		

Product Name **Chromium (III) oxide**

C.A.S. number **1308-38-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ESP	Sep 1967	<p>Use of the following is prohibited in toys and accessories for children: lead, zinc and potassium alloys which contain more than 10% of these metals, even when coated with inert metals, arsenic and its compounds in whatever quantity, as well as the use of dyes containing antimony, arsenic, copper, mercury, uranium, over 1 per cent of lead, chromium oxide and soluble salts or barium carbonates, cadmium, chromium and zinc. (Reference: (ESPBC) El Código Alimentario Español, Ch.IX, , Sep 1967)</p>
NZL	1983	<p>No person shall manufacture, import, pack or sell any graphic material that contains more than 100 mg/kg of arsenic, antimony, cadmium, chromium, lead, mercury or selenium or of any water-soluble compound of barium.</p>

Product Name **Chromium (VI) oxide**

C.A.S. number **1333-82-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ESP	Sep 1967	<p>Use of the following is prohibited in toys and accessories for children: lead, zinc and potassium alloys which contain more than 10% of these metals, even when coated with inert metals, arsenic and its compounds in whatever quantity, as well as the use of dyes containing antimony, arsenic, copper, mercury, uranium, over 1 per cent of lead, chromium oxide and soluble salts or barium carbonates, cadmium, chromium and zinc. (Reference: (ESPBC) El Código Alimentario Español, Ch.IX, , Sep 1967)</p>
NZL	1983	<p>No person shall manufacture, import, pack or sell any graphic material that contains more than 100 mg/kg of arsenic, antimony, cadmium, chromium, lead, mercury or selenium or of any water-soluble compound of barium.</p>

Legislative or regulation action

Product Name **Chromium (VI) oxide**

C.A.S. number **1333-82-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Product Name **Copper**

C.A.S. number **7440-50-8**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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ESP	Sep 1967	Use of the following is prohibited in toys and accessories for children: lead, zinc and potassium alloys which contain more than 10% of these metals, even when coated with inert metals, arsenic and its compounds in whatever quantity, as well as the use of dyes containing antimony, arsenic, copper, mercury, uranium, over 1 per cent of lead, chromium oxide and soluble salts or barium carbonates, cadmium, chromium and zinc. (Reference: (ESPBC) El Código Alimentario Español, Ch.IX, , Sep 1967)
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Bibliographical references

WHO FOOD ADD., 17, 265, 1982

Product Name **Creosote oil**

C.A.S. number **8001-58-9**

Scientific and common names, and synonyms

CREOSOTE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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SWE	1 Jan 1986	The use of the substance is restricted. The substance is prohibited for use in horticulture and in paints intended for wood protection. The substance is still used as industrial wood protection agent. The substance is a suspected carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
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Product Name **Crude oil**

C.A.S. number **8002-05-9**

Scientific and common names, and synonyms

BASE OIL
CRUDE OIL PETROLEUM (DOT)
COAL OIL
COAL LIQUID
PETROLEUM CRUDE
ROCK OIL
SENECA OIL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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CAN	Nov 1970	The Hazardous Products Act prohibits the advertising, sale or import of toys, equipment and other products for use by the child in learning or play that have applied to them a decorative or protective coating that contains any of the following substances: a) lead
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Legislative or regulation action

Product Name **Crude oil**

C.A.S. number **8002-05-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		pigments; b) more than 0.5% weight to weight of lead in the total solids contained in such coating; c) any compound of antimony, arsenic, cadmium, selenium or barium introduced as such if more than one-tenth of one percent of such compounds dissolves in five percent hydrochloric acid after stirring for ten minutes at twenty degrees centigrade; d) any compound of mercury introduced as such; e) ethyl ether, boric acid or salts, benzene, petroleum distillates (exceeding 10% w/v) or turpentine (exceeding 10% w/v), where the substance can, under reasonably foreseeable circumstances, become accessible to a child or where the substance is a filling that may be released upon breakage or leakage. (Section 8 and 9 of Part I of the Schedule to the Hazardous Products Act).

Bibliographical references

IARC MONOGRAPH, 45, 119, 1989

Product Name **Cyanide (soluble salt) in consumer products**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		Any product containing cyanide as a soluble salt is banned as a hazardous product because it possesses such a degree of hazard that adequate cautionary labeling cannot be written and public health can only be served by keeping it out of interstate commerce. Does not apply to unavoidable manufacturing residues in other chemicals if any reasonable use does not result in atmospheric concentrations above 25 ppm. (Reference: (CFRUS) Code of Federal Regulations, 16(1500), 302, 1982)

Product Name **Cyano acrylic acid**

C.A.S. number **15802-18-3**

Scientific and common names, and synonyms

ACRYLIC ACID, 2-CYANO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of cyano acrylic acid is prohibited in the manufacturing of the following consumer products: pastes and adhesive substances. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cyanoacrylate d'alkyl est interdite pour la fabrication des produits de consommation suivants: colles et substances adhesives. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **DDT ***

C.A.S. number **50-29-3**

Scientific and common names, and synonyms

ALPHA,ALPHA-BIS(P-CHLOROPHENYL)-BETA,BETA,BETA-TRICHLOROETHANE

BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-

Legislative or regulation action

Product Name **DDT ***

C.A.S. number **50-29-3**

Scientific and common names, and synonyms

CHLOROPHENOTHANE
 DICHLORODIPHENYLTRICHLOROETHANE (USA)
 DICHLORODIPHENYLTRICHLOROETHANE
 ETHANE, 1,1,1-TRICHLORO-2,2-BIS(P-CHLOROPHENYL)
 P,P'-DICHLORODIPHENYLTRICHLOROETHANE
 TRICHLOROBIS(4-CHLOROPHENYL)ETHANE
 1,1,1-TRICHLORO-2,2-BIS(4-CHLORO-FENYL)-ETHAAN (NLD)
 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-BENZENE]
 1,1,1-TRICHLORO-2,2-BIS(4-CHLORO-FENIL)-ETANO (ITA)
 1,1,1-TRICHLORO-2,2-DI(4-CHLOROPHENYL)-ETHANE
 1,1,1-TRICHLORO-2,2-BIS(P-CHLOROPHENYL)ETHANE
 1,1,1-TRICHLORO-2,2-BIS(4-CHLOROPHENYL)ETHANE
 1,1,1-TRICHLORO-2,2-BIS(4-CHLORO-PHENYL)-AETHAN (DEU)
 2,2-BIS(P-CHLOROPHENYL)-1,1,1-TRICHLOROETHANE
 4,4'-DICHLORODIPHENYLTRICHLOROETHANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	1 Jan 1988	This substance must not form part of the composition of cosmetic products. The marketing of cosmetic products containing the substance is prohibited. EEC Directive 76/768/EEC - OJEC L262, 169, 1976 as last amended by the reference given. (Reference: (OJEC) Official Journal of the European Communities, L56, 20, 1987)
ANG	19 Aug 1990	The control action applies to the product Sacoril EC 35%. Banned for use. No remaining uses allowed. The substance is banned for health and environmental reasons (toxicity). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ANG	19 Sep 1990	The control action applies to the Sacoril-Toxa ULV 24/48 CPE. Banned for use. No remaining uses allowed. The product is banned because of the worldwide prohibition of use of DDT for health and environmental reasons (toxicity). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
AUS	21 Dec 1987	Importation of the chemical is prohibited unless specifically approved by the Government (21 December 1987). All uses on certain household pests, fruits, vegetables, tobacco, and cotton have been cancelled (dates vary from State to State). No remaining uses allowed. The persistence of the chemical makes it environmentally unacceptable. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , 1986)
AUT	20 Feb 1992	Banned since 01.01.88 in all applications where food contact is possible. Voluntarily withdrawn by manufacturer since May 1988. All uses are banned as of 20.02.92. Characteristics to persist, especially in temperate climates, and to biomagnify in the food chain and in human tissues. It has been shown to have a reproductive effect in bird and carcinogenic effects in test animals. There were concerns of a long-lived nature and uncertainty about adverse impacts on man and the environment. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
CAN	1 Jan 1985	Major reductions in use pattern in 1969. Remaining food uses phased out between 1970 and 1978. Last remaining product registration was discontinued by the registrant. Persistence and bioaccumulation. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CDR	1 Jan 1993	Banned. No remaining uses allowed.(Strictement interdit). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
CHE	1 Sep 1986	Totally banned chemical: Manufacture, supply, import and use of the substance and of

Legislative or regulation action

Product Name		DDT *
C.A.S. number		50-29-3
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		products which contain the substance is prohibited. Exemption: Import and processing of this substance for re-export is permitted. Long persistence, bioaccumulation. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBl) Bundesgesetzblatt, IS.140, , 1982)
DEU	1 Aug 1994	DDT, its isomers and its formulations that contain DDT as an active ingredient are not allowed to be produced and placed on the German market. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR	1 Jan 1984	Withdrawal of insecticidal use in home gardens and home kitchen and larder (1971). Withdrawal of use of DDT in thermal vaporisers (including continuous flow aerosols, vaporisers, electric fumigators) (1972/1973). Withdrawal of insecticidal uses in food storage practice including thermal vaporisers (1978). Withdrawal of rodenticidal uses (1980). Withdrawal of DDT in UK (1984). Uses phased out from 1971 onwards, culminating in complete withdrawal in October 1984 for environmental reasons (ability to accumulate in animals and birds). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
MYS		Registration for mosquito control only and to be sold directly to and used by the Ministry of Health. Substance is highly persistent in the environment and tends to accumulate in the food chain. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PHL	17 Aug 1978	DDT is restricted for malaria control purposes by the Department of Health. Withdrawn its use for malaria control by the Department of Health. The substance stays stable in the environment for a long time; biomagnified. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PRT	1 Jan 1974	Pesticide banned as an ingredient in household products on account of its environmental/toxicological effects. Use by the official public health services may continue. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)
THA	2 May 1995	All use categories have been banned. Use in public health still allowed. Possibly carcinogenic to humans. Persistence in environment. Bioaccumulation of residence in food chain and human tissues. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	4 Jan 1973	The substance is banned for use. Certain uses of DDT (on shade trees, on tobacco, in the home, in aquatic environments) were cancelled in 1969 after studying the persistence of DDT residues in the environment. Crop, commercial plant, wood product and building uses cancelled in 1970. The remaining DDT products and DDT-metabolites were cancelled on 04.01.73. No remaining uses allowed. DDT and its metabolites DDE and DDD are highly toxic compounds. Exposures have resulted in acute kills of aquatic invertebrates and reproductive and other sublethal effects in fish, mammals and birds. Long-term exposure can cause central nervous system poisoning. DDT produces tumors

Legislative or regulation action

Product Name		DDT *
C.A.S. number		50-29-3
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		<p>in laboratory animals and is considered a probable human carcinogen. DDT is highly persistent in the environment. It has polluted fresh water, estuaries, and oceans. Because of its stability in soils (20 years or more) it can bioaccumulate in fatty tissues and up the food chain, resulting in multiple human exposures. It is estimated that all lifeforms contain traces of DDT and its metabolites.</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
Bibliographical references		
<p>IARC MONOGRAPH, 5, 83, 1974</p> <p>IPCS ENVIRONMENTAL HEALTH CRITERIA, 9, , 1979</p> <p>IARC MONOGRAPH, SUPPL.4, 105, 1982</p> <p>WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984</p> <p>FAO PLANT PRODUCTION & PROTECTION PAPER, 62, , 1984</p> <p>IPCS ENVIRONMENTAL HEALTH CRITERIA, 83, , 1989</p> <p>FAO PLANT PRODUCTION & PROTECTION PAPER, 122, 31, 1993</p> <p>FAO PLANT PRODUCTION & PROTECTION PAPER, 124, 151, 1993</p> <p>FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 73, 1994</p> <p>FAO PLANT PRODUCTION & PROTECTION PAPER, 131/1, 363, 1994</p>		
Product Name		Dichloromethane
C.A.S. number		75-09-2
Scientific and common names, and synonyms		<p>METHANE, DICHLORO-</p> <p>METHYLENE CHLORIDE</p>
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
BEL	7 Nov 1978	<p>Halogen derivatives of hydrocarbons are prohibited for any lamp containing them for decorative purposes on the grounds that these chemicals are narcotic and very dangerous to health, in particular 1,1,2,2-tetrachloroethane, carbon tetrachloride, pentachloroethane and 1,1,2-trichloroethane.</p> <p>(Reference: (BELAR) Arrêté Royal, , , 07 Nov 1978)</p> <p>(Reference: (BELAP) Annales Pharmaceutiques belges, , , 07 Nov 1978)</p>
SWE	1 Jan 1993	<p>Banned by the Ordinance on Certain Chlorinated Solvents. (Action took effect 1993-1996.)</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>
Bibliographical references		
<p>IARC MONOGRAPH, 20, 449, 1979</p> <p>IARC MONOGRAPH, SUPPL.4, 111, 1982</p> <p>WHO FOOD ADD., 18, 59, 1983</p> <p>IARC MONOGRAPH, 41, , 1986</p>		
Product Name		Dieldrin *
C.A.S. number		60-57-1
Scientific and common names, and synonyms		<p>DIELDRINE (FRA)</p> <p>ENDO,EXO-1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4,4A,5,6,7,8,8A- OCTAHYDRO-1,4:5,8-DIMETHANONAPHTHALENE</p>

Legislative or regulation action

Product Name **Dieldrin ***

C.A.S. number **60-57-1**

Scientific and common names, and synonyms

ENDO EXO-1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4,4A,5,6,7,8,8A- OCTAHYDRO-,8-DIMETHANONAPHTHALENE
EXO-DIELDRIN
HEXACHLOROEOXYOCTAHYDRO-ENDO,EXO-DIMETHANONAPHTHALENE
1,4:5,8-DIMETHANONAPHTHALENE 1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4,6, 7,8,8A-OCTAHYDRO ENDO- EXO
1,4:5,8-DIMETHANONAPHTHALENE 1,2,3,4,10,10-HEXACHLORO-6,7-EPOXY-1,4,4A, 5,6,7,8,8A-OCTAHYDRO ENDO-,
EXO-
2,7:3,6-DIMETHANONAPHTH[2,3-B]OXIRENE, 3,4,5,6,9,9-HEXACHLORO-1A,2,2A,3,6,6A,7,7A-OCTAHYDRO-,
(1A.ALPHA.,2.BETA.,2A.ALPHA.,3.BETA.,6.BETA.,6A.ALPHA.,7

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS	21 Dec 1987	Importation of the chemical is prohibited unless specifically approved by the Government (21 December 1987). All uses including control of pests in households, timber, fruit trees, sugar-cane, turf, grapevines, tobacco and termite control have been discontinued. (Dates vary from State to State). No remaining uses allowed. The persistence of the chemical makes it environmentally unacceptable. (Reference: (AUSPAC) Pesticides and Agricultural Chemicals Committee, , , 1986)
JPN	Oct 1978	The maximum permitted dieldrin content in knitting, yarn and textile products (diaper covers, underwear, sleepwear, gloves, hosiery, intermediate wear, outer wear, cap, hat, bedding and carpet) is 30 ppm. (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , , 1982)
USA	1 May 1987	The substance is banned for use. In June 1972, EPA cancelled all registrations of products containing dieldrin except for termite control, nursery dipping of roots and tops of non-food plants and moth-proofing of woolen textile and carpets. Hearings beginning in 1974, as well as voluntary cancellations, resulted in the cancellation of all products containing dieldrin except for termite control. In 1983, EPA requested additional toxicology and exposure data to perform a complete risk assessment of termiticide uses. In May 1987, the sole manufacturer requested voluntary cancellations of the termiticide use. No remaining uses allowed. Dieldrin has caused liver tumors in mice and may pose a significant health risk of chronic liver effects to occupants of treated buildings. Dieldrin is also extremely toxic to aquatic organisms and birds. Dieldrin is persistent and bioaccumulates and may have the potential to contaminate surface water. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 5, 125, 1974
FAO PLANT PRODUCTION & PROTECTION PAPER, 10 REV., , 1977
FAO PLANT PRODUCTION & PROTECTION PAPER, 10 SUP., , 1977
IARC MONOGRAPH, SUPPL.4, 112, 1982
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
IPCS ENVIRONMENTAL HEALTH CRITERIA, 91, , 1989
FAO PLANT PRODUCTION & PROTECTION PAPER, 102, 14, 1990
FAO PLANT PRODUCTION & PROTECTION PAPER, 103/1, 17, 1990
FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 22, 1993
FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 93, 1993

Product Name **Diethylstilbestrol**

C.A.S. number **56-53-1**

Scientific and common names, and synonyms

ALPHA,ALPHA'-DIETHYL-(E)-4,4'-STILBENEDIOL
DIETHYLSTILBOESTROL
PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS-(E)-

Legislative or regulation action

Product Name **Diethylstilbestrol**

C.A.S. number **56-53-1**

Scientific and common names, and synonyms

STILBOESTROL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 6, 55, 1974
IARC MONOGRAPH, 21, 173, 1979
IARC MONOGRAPH, SUPPL.4, 184, 1982

Product Name **Dimetilan**

C.A.S. number **644-64-4**

Scientific and common names, and synonyms

CARBAMIC ACID, DIMETHYL-, 1-((DIMETHYLAMINO)CARBONYL)-5-METHYL-1H-PYRAZOL-3-YL ESTER
1,3-DIOXOLANE-4-METHANOL, 2,2-DIISOPROPYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
PRT	1 Jan 1974	Pesticide banned as an ingredient in household products on account of its environmental/toxicological effects. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 63, , 1986

Product Name **DTTB**

C.A.S. number **57648-21-2**

Scientific and common names, and synonyms

BENZIMIDAZOLE, 2-TRIFLUOROMETHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
JPN	Apr 1982	The maximum permitted DTTB content in knitting, yarn and textile products (diaper cover, underwear, sleepwear, gloves, hosiery, intermediate wear, outer wear, cap, hat, bedding and carpet) is 30ppm. (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , , 1982)

Product Name **Ethyl bromoacetate**

C.A.S. number **105-36-2**

Scientific and common names, and synonyms

Legislative or regulation action

Product Name **Ethyl bromoacetate**

C.A.S. number **105-36-2**

Scientific and common names, and synonyms

ACETIC ACID, BROMO-, ETHYL ESTER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	May not be used in jokes or hoaxes or in objects intended to be used as such, for instance as a constituent of sneezing powder and stink bombs. However, Member States may tolerate on their territory stink bombs containing not more than 1.5ml. (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
CAN	Apr 1971	Under the conditions of the Hazardous Products Act, it is prohibited to advertise, sell or import products that consist of or contain carbon tetrachloride or 1,1,2,2-tetrachloroethane, or 5 parts per million or more ethyl bromoacetate, where such products are packaged as consumer products. (Section 12 and 20 of part I of the Schedule to the Hazardous Products Act).
DZA	28 Jan 1995	The use of ethylbromoacetate is regulated in the manufacturing of certain consumer products. The acceptable limited dose is 5 pph for all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de bromoacétate d'éthyle est réglementée pour la fabrication de certain produits de consommation. La dose limite acceptable est de 5 pph pour tous les produits de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Ethyl chloride**

C.A.S. number **75-00-3**

Scientific and common names, and synonyms

ETHANE, CHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of ethyl chloride is prohibited in the manufacturing of the following consumer products: cleaning agents, products for brightening. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de chloroéthane est interdite pour la fabrication des produits de consommation suivants: agents nettoyants, produits pour faire briller. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Ethyl ether**

C.A.S. number **60-29-7**

Scientific and common names, and synonyms

ETHANE, 1,1'-OXYBIS-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	Nov 1970	The Hazardous Products Act prohibits the advertising, sale or import of toys, equipment and other products for use by the child in learning or play that have applied to them a

Legislative or regulation action

Product Name Ethyl ether

C.A.S. number 60-29-7

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		decorative or protective coating that contains any of the following substances: a) lead pigments; b) more than 0.5% weight to weight of lead in the total solids contained in such coating; c) any compound of antimony, arsenic, cadmium, selenium or barium introduced as such if more than one-tenth of one percent of such compounds dissolves in five percent hydrochloric acid after stirring for ten minutes at twenty degrees centigrade; d) any compound of mercury introduced as such; e) ethyl ether, boric acid or salts, benzene, petroleum distillates (exceeding 10% w/v) or turpentine (exceeding 10% w/v), where the substance can, under reasonably foreseeable circumstances, become accessible to a child or where the substance is a filling that may be released upon breakage or leakage. (Section 8 and 9 of Part I of the Schedule to the Hazardous Products Act).
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: toys, material and other products intended for education or for children's recreation. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: jouets, matériel et autres produits destinés à l'éducation ou à la récréation des enfants. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name Formaldehyde

C.A.S. number 50-00-0

Scientific and common names, and synonyms

ALDEHYDE FORMIQUE
FORMALDEHYDE
FORMALINA
METHANALE
METANAL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
JPN	Oct 1975	Should not be released from textile products (diapers, diaper covers, bibs, underwear, sleepwear, gloves, hosiery, intermediate wear, outer wear, cap and bedding) for babies or infants within 24 months after birth. (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , , 1982)
JPN		More than 75 ppm of this compound should not be released from textile products (underwear, sleepwear, gloves, hosiery and Japanese socks (tabi)), adhesive for wig, artificial eyelashes and false moustache (bend) and adhesive to suspend socks.
KWT	1 Jan 1980	The substance is banned for use. No remaining uses are allowed. Action was taken for health reasons. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1983	Under the provisions of the Toxic Substances Act, this product is available and preparations containing 5% or more formaldehyde must be labelled as "poison".
POL		Not allowed as a preservative for cosmetics. Up to 0.1% permitted in household chemicals for washing of surfaces not in contact with food and in limited contact with human skin and for some laundering and cleaning products.

Legislative or regulation action

Product Name **Formaldehyde**

C.A.S. number **50-00-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE		(Reference: (POLIP) Instytut Przemyslu Organicznego, , , 1987) Hair lotions and products against perspiration may not contain this substance. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)
USA	11 Aug 1982	Use of urea-formaldehyde foam for insulation in schools and residences is banned because it presents an unreasonable risk of injury from irritation, sensitization and cancer. (Reference: (FEREAC) Federal Register, 64, , 02 Apr 1982)

Bibliographical references

IARC MONOGRAPH, 29, 345, 1982
IARC MONOGRAPH, SUPPL.4, 131, 1982
IPCS ENVIRONMENTAL HEALTH CRITERIA, 89, , 1989
IPCS HEALTH AND SAFETY GUIDE, 57, , 1991
IARC MONOGRAPH, 62, 217, 1995

Product Name **Gallic acid and gallates**

C.A.S. number **149-91-7**

Scientific and common names, and synonyms

BENZOIC ACID
3,4,5-TRIHYDROXYBENZOIC ACID
3,4,5-TRIHYDROXY-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain gallic acid or gallates and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)

Product Name **HCH-mixed isomers ***

C.A.S. number **608-73-1**

Scientific and common names, and synonyms

BENZENEHEXACHLORIDE, MIXED ISOMERS
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (MIXED ISOMERS)
TECHNICAL HCH (APPROX. 64% ALPHA, 10% BETA, 13% GAMMA, 9% DELTA, 1% EPSILON ISOMERS)
1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE (MIXTURE OF ISOMERS)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)

Legislative or regulation action

Product Name HCH-mixed isomers *

C.A.S. number 608-73-1

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
PRT	1 Jan 1974	Pesticide banned as an ingredient in household products on account of its environmental/toxicological effects. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)

Bibliographical references

IARC MONOGRAPH, 5, 47, 1974
FAO PLANT PRODUCTION & PROTECTION PAPER, 15, , 1978
IARC MONOGRAPH, 20, 195, 1979
IARC MONOGRAPH, SUPPL.4, 133, 1982

Product Name Hexachlorophene

C.A.S. number 70-30-4

Scientific and common names, and synonyms

HEXACHLOROPHANE
PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-
2,2'-METHYLENEBIS(3,4,6-TRICHLOROPHENOL)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of this substance is regulated in the manufacturing of certain consumer products. The acceptable limited dose is from 0.2% of the total weight of the concerned product for antiseptics. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est réglementée pour la fabrication de certain produits de consommation. La dose limite acceptable est de 0,2% du poids total du produit concerné pour les antiseptiques. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
IND		Hexachlorophene is prohibited for manufacture and sale in cosmetic preparations for reasons of health risks associated with the use and/or questionable therapeutic value.
JPN	Mar 1972	Banned for use in preparations such as nursing powder, since edema of the brain is observed with test animals. (Reference: (JNPAB) Notice by Director General of Pharmaceutical Affairs Bureau, , , 02 Mar 1972)
PER		Prohibited for use in hygienic preparations with the exception of deodorants, which may contain as much as 0.1%, and antiseptic soaps, which may contain 0.2% of hexachlorophene.
PHL	1972	All talcum powders for infant use containing more than 0.75% hexachlorophene were withdrawn. All other products with a greater concentration shall be available on prescription basis only.
POL	1975	Not allowed as a preservative for cosmetics. (Reference: (POLIP) Instytut Przemyslu Organicznego, , , 1987)
SUN	20 Jun 1988	Hexachlorophene and products containing hexachlorophene (antimicrobial and cosmetic preparations, pharmaceuticals, household goods) are prohibited for production and use. Reasons for the control action: its teratotoxicity, embryotoxicity, neurotoxicity, photosensitizing and allergenic potential, and high transdermal absorption. (Reference: (DUSSR) Decree of the USSR Ministry of Public Health, , , 10 June 1988)

Legislative or regulation action

Product Name **Hexachlorophene**

C.A.S. number **70-30-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
TUR	1981	Withdrawn from all toothpaste formulations by the Ministry of Health due to published evidence of its harmful effects. Export of this product is prohibited.

Bibliographical references

IARC MONOGRAPH, 20, 241, 1979

Product Name **Hydrogen cyanide**

C.A.S. number **74-90-8**

Scientific and common names, and synonyms

HYDROCYANIC ACID

HYDROCYANIC ACID

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of hydrogen cyanide acid and its salts are prohibited in the manufacturing of the following consumer products: cleaning agents. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de acide hydrocyanique et ses sels est interdite pour la fabrication des produits de consommation suivants: agents nettoyeurs. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

WHO FOOD ADD., 26.65, , 1965

WHO FOOD ADD., 28.65, , 1965

Product Name **Hydroquinone**

C.A.S. number **123-31-9**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NGA	1 Feb 1983	The manufacture, import, export, distribution and sale of any cosmetic products containing hydroquinone in amounts exceeding 5% (w/w) are prohibited. Reasons for the decisions: There has been gross misuse for skin bleaching purposes of hydroquinone-containing cosmetic products, many of which contain over 5% hydroquinone. (Reference: (AARNO) Administrative Action, FDA/RU/242-2, 171, Dec 1982)

Bibliographical references

IARC MONOGRAPH, 15, 155, 1977

IPCS ENVIRONMENTAL HEALTH CRITERIA, 157, , 1994

Product Name **Ingredients in cosmetics**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name	Ingredients in cosmetics
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Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC		A list of 365 substances which must not form part of the composition of cosmetic product is available. (EEC Directives 76/768/EEC OJEC L262,169,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L56, 20, 1987)
ESP	Dec 1968	The manufacture and sale of cosmetics containing any of 528 given products (see reference) or exceeding given values, is prohibited. (Reference: (ESPRD) Real Decreto, 3339, , 1968)
FRA	1981	The Commission on Drug Monitoring of the Ministry of Health called for the withdrawal of lead oxide and lead salts from cosmetics and topically administered medicinal products, having regard to the danger of percutaneous absorption and their possible contribution to encephalopathy.
NZL		Preparations consisting of any phenylenediamine (p-,m-,o-) or toluene diamine or their salts or other coal tar dye base or coal tar dye intermediate, shall have the following precautionary labelling: "Caution: this preparation may cause serious inflammation of the skin in certain persons".
PRT		The use of aniline and 430 other products and classes of products is prohibited in the preparation of cosmetics. (Reference: (PORHW) Secretario de Estado da Saude e Assistencia, , , 1973)
SAU		Lead oxide and lead salts are prohibited for use in cosmetics and other topical uses, due to the danger of percutaneous absorption.

Product Name	Lead and lead compounds
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C.A.S. number	7439-92-1
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Scientific and common names, and synonyms
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LEAD

LEAD (GENERIC)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	13 Aug 1987	Member States shall, as soon as they consider it appropriate, reduce the maximum permitted lead content in leaded petrol to 0.15g pb/l. They shall ensure the availability and balanced distribution of unleaded petrol from 1 October 1989. Until 1 April 1990 they may allow the contamination of unleaded petrol by lead compounds to exceed 0.013g pb/l provided it does not exceed 0.020g pb/l. From 1 October 1989 the benzene content of leaded and unleaded petrol shall not exceed 5.0% by volume. At least one unleaded petrol shall have a minimum motor octane number of 85.0 and a minimum research octane number of 95.0 at the pump. Reference methods for the determination of the lead and benzene contents in petrol and of the octane ratings are mentioned. (Council Directive 85/210/EEC - OJEC L96,25,1985 as last amended by the reference given). (Directive 78/611/EEC (OJEC L197,19,1978) ceased to be applicable on 31 December 1985). (Reference: (OJEC) Official Journal of the European Communities, L225, 33, 1987)
AUS	Jan 1980	Children's toys and playthings are considered "unsafe goods" if they are coated with more than 0.1% (of the non-volatile content) arsenic or related compounds; 0.25% (of the non-volatile content) lead or related compounds; or 0.01% (of the non-volatile content) mercury or related compounds, under the Customs (Prohibited Imports) Regulations and the Trade Practices Act. "Unsafe goods" are prohibited for sale or import. (Reference: (AUSST) Australian Standard, 1647.3, , 1980)

Legislative or regulation action

Product Name	Lead and lead compounds	
C.A.S. number	7439-92-1	
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
AUS	1984	The maximum allowable lead content in unleaded petrol is 0.013 g/l. The maximum allowable lead content on leaded petrol varies from 0.15 g/l to 0.84 g/l depending on individual state legislation. (Reference: (AUSST) Australian Standard, 1876.2, , 1984)
CAN	Nov 1970	The Hazardous Products Act prohibits the advertising, sale or import of toys, equipment and other products for use by the child in learning or play that have applied to them a decorative or protective coating that contains any of the following substances: a) lead pigments; b) more than 0.5% weight to weight of lead in the total solids contained in such coating; c) any compound of antimony, arsenic, cadmium, selenium or barium introduced as such if more than one-tenth of one percent of such compounds dissolves in five percent hydrochloric acid after stirring for ten minutes at twenty degrees centigrade; d) any compound of mercury introduced as such; e) ethyl ether, boric acid or salts, benzene, petroleum distillates (exceeding 10% w/v) or turpentine (exceeding 10% w/v), where the substance can, under reasonably foreseeable circumstances, become accessible to a child or where the substance is a filling that may be released upon breakage or leakage. (Section 8 and 9 of Part I of the Schedule to the Hazardous Products Act).
CAN	Apr 1971	A product may be advertised, sold or imported if that product does not release 0.05 or more parts per million (w/w) lead when tested in the manner prescribed. (Section 3 of the Hazardous Products (kettle) Regulations).
CAN	Nov 1973	Under the provisions of the Hazardous Products Act, it is prohibited to advertise, sell or import paints, enamels and other liquid coating materials for use on the interior or exterior surfaces of buildings, furniture, or household products that contain more than 0.5% weight to weight lead, except as authorized by the regulations. It is prohibited to advertise, sell or import pencils and artists' brushes with a protective coat containing more than 0.5% w/w lead. (Section 30 of Part II and Section 17 of Part I of the Schedule to the Hazardous Products Act).
CAN	1974	The maximum permitted lead content in gasoline (except for use in aircraft) is 0.77g/l (Consolidated Regulations of Canada (1978) ch. 409). Effective 1987, this level will be 0.29g/l. Levels above this concentration would result in a significant contribution to air pollution. (Reference: (CAGAAK) Canada Gazette Part II, 118, 1988, 1984)
CHE	1972	The use of arsenic, lead or mercury, or any of their compounds, is prohibited for the treatment of textile materials for articles of clothing. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, ,)
CHE	1972	Arsenic, lead and mercury, as well as their compounds, are prohibited in water paints and non-washable distempers used for coating house walls, living spaces or household consumer goods. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, ,)
CHE	1972	The use of alkyl lead compounds for any purpose whatsoever in products for public use (substances intended for private and commercial use) or in commercial products (substances intended for use in trade and industry) is prohibited. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, , 1985)
CHE	31 Dec 1985	Maximum permitted lead content in normal grade gasoline is 0.15 g/l. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, ,)
CHE	31 Dec 1990	Maximum permitted lead content in super grade gasoline is 0.15 g/l. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, ,)
DNK	Jun 1977	By Executive Order No. 349 of the Ministry of the Environment, antimony, mercury and lead compounds are not to be used in preparations designed for surface treatment (painting, etc.) of toys and children's furniture.

Legislative or regulation action

Product Name		Lead and lead compounds
C.A.S. number		7439-92-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The control measure applies to lead and its compounds. The use of this substance is regulated in the manufacturing of certain consumer products. The acceptable limited doses are: 500 mg/kg of the total weight of the concerned product for the protective linings; 500 mg/kg for paintings; 250 mg/kg for school supplies in plastic material; 100 mg/kg for inks for felt pens; 90 mg/kg for toys; 7 pph for ceramics. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (La mesure de contrôle s'applique au plomb et ses composés. L'utilisation de cette substance est réglementée pour la fabrication de certain produits de consommation. Les doses limites acceptables sont: 500 mg/kg du poids total du produit concerné pour les revêtements protecteurs; 500 mg/kg pour les peintures; 250 mg/kg pour les articles scolaires en matière plastique; 100 mg/kg pour les encres pour crayons à feutre; 90 mg/kg pour les jouets; 7 pph pour la céramique. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DZA	28 Jan 1995	The use of plumbiferous pigments is prohibited in the manufacturing of the following consumer products: toys, materials and other products intended for education and for children's recreation. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de pigments plombifères est interdite pour la fabrication des produits de consommation suivants: jouets, matériels et autres produits destinés à l'éducation et à la récréation des enfants. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ESP	Sep 1967	Use of the following is prohibited in toys and accessories for children: lead, zinc and potassium alloys which contain more than 10% of these metals, even when coated with inert metals, arsenic and its compounds in whatever quantity, as well as the use of dyes containing antimony, arsenic, copper, mercury, uranium, over 1 per cent of lead, chromium oxide and soluble salts or barium carbonates, cadmium, chromium and zinc. (Reference: (ESPBC) El Código Alimentario Español, Ch.IX, , Sep 1967)
FIN	1985	The maximum permitted lead content in petrol is 0.15 g/l, and benzene content in petrol 5% by volume. These actions have been taken to limit the emission of lead and potentially carcinogenic hydrocarbons from automobiles. (Reference: (FICSR) Council of State Resolution, 157/83, ,)
GBR	31 Dec 1985	From 31st December 1985 the mpc in leaded petrol is 0.15g/l. The mpc in unleaded petrol is 0.020g/l until 1st April 1990 and 0.013g/l from 1st April 1990. (GBRSI 1523,1,1981 as last amended by the reference given). (Reference: (GBRSI) Statutory Instruments, 1728, 1, 1985)
JPN	May 1962	Tetralkyl lead is designated as a 'specified poisonous substance'; uses other than those designated by Cabinet Order and those for scientific research are prohibited due to its high acute toxicity. The use designated by Cabinet Order is limited to mixing in gasoline.
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
NOR	Jul 1980	Petrol containing more than 0.15 g of lead or more than 50 ml benzene per litre is not permitted to be distributed from refineries or imported. Distribution of lead in the environment through lead-based petrol additives have created serious health problems. Benzene has been shown to be both carcinogenic and very toxic. The sale or use of leaded petrol for purposes other than fuel for engines or heaters is prohibited.
NZL	1983	No person shall manufacture, import, supply or sell any furniture, other household item or toy, covered with paint or other coating containing lead in concentration of more than

Legislative or regulation action

Product Name **Lead and lead compounds**

C.A.S. number **7439-92-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
NZL	1983	5000 mg/kg (dry weight), mercury in a concentration of more than 200mg/kg (dry weight); or arsenic, cadmium, or selenium at more than 1000 mg/kg (dry weight) of the coating. No person shall manufacture, import, pack or sell any graphic material that contains more than 100 mg/kg of arsenic, antimony, cadmium, chromium, lead, mercury or selenium or of any water-soluble compound of barium.
USA	27 Feb 1978	Paint and similar surface-coating materials containing lead or its compounds in excess of 0.06% by weight of the total nonvolatile content or of the dried paint film are banned as hazardous products. Certain specified toys and other articles for children and furniture which contain such paint are also banned. (Reference: (CFRUS) Code of Federal Regulations, 16(1303), 272, 1982)
USA		To retain the effectiveness of emission control systems, the introduction of leaded fuel into motor vehicles requiring unleaded fuel is prohibited. (Reference: (CFRUS) Code of Federal Regulations, 40(80.22), , 1981)

Bibliographical references

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 IARC MONOGRAPH, 2, 150, 1973
 IARC MONOGRAPH, 2, 52, 1973
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 3, , 1977
 WHO FOOD ADD., 13, 38, 1978
 IARC MONOGRAPH, 23, 205, 1980
 IARC MONOGRAPH, 23, 325, 1980
 IARC MONOGRAPH, 23, 39, 1980
 IARC MONOGRAPH, SUPPL.4, 149, 1982
 WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
 WHO FOOD ADD., 21, 223, 1987
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 85, , 1989

Product Name **Magnesium**

C.A.S. number **7439-95-4**

Scientific and common names, and synonyms

MAGNESIUM TURNINGS
 MAGNESIUM RIBBONS
 MAGNESIUM POWERED
 MAGNESIUM PELLETS
 MAGNESIUM METAL (DOT)
 MAGNESIO (ITALIAN)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain magnesium (magnesium/aluminum alloys are permitted) and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)

Legislative or regulation action

Product Name **Mercury and mercury compounds ***

C.A.S. number **7439-97-6**

Scientific and common names, and synonyms

MERCURY

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
AUS	Jan 1980	Children's toys and playthings are considered "unsafe goods" if they are coated with more than 0.1% (of the non-volatile content) arsenic or related compounds; 0.25% (of the non-volatile content) lead or related compounds; or 0.01% (of the non-volatile content) mercury or related compounds, under the Customs (Prohibited Imports) Regulations and the Trade Practices Act. "Unsafe goods" are prohibited for sale or import. (Reference: (AUSST) Australian Standard, 1647.3, , 1980)
CAN	Nov 1970	The Hazardous Products Act prohibits the advertising, sale or import of toys, equipment and other products for use by the child in learning or play that have applied to them a decorative or protective coating that contains any of the following substances: a) lead pigments; b) more than 0.5% weight to weight of lead in the total solids contained in such coating; c) any compound of antimony, arsenic, cadmium, selenium or barium introduced as such if more than one-tenth of one percent of such compounds dissolves in five percent hydrochloric acid after stirring for ten minutes at twenty degrees centigrade; d) any compound of mercury introduced as such; e) ethyl ether, boric acid or salts, benzene, petroleum distillates (exceeding 10% w/v) or turpentine (exceeding 10% w/v), where the substance can, under reasonably foreseeable circumstances, become accessible to a child or where the substance is a filling that may be released upon breakage or leakage. (Section 8 and 9 of Part I of the Schedule to the Hazardous Products Act).
CHE	1972	Arsenic, lead and mercury, as well as their compounds, are prohibited in water paints and non-washable distempers used for coating house walls, living spaces or household consumer goods. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, ,)
CHE	1972	The use of arsenic, lead or mercury, or any of their compounds, is prohibited for the treatment of textile materials for articles of clothing. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, ,)
CHE	1 Sep 1986	Severely restricted chemical. The following uses are prohibited: a) Supply by manufacturers of products and articles containing mercury; b) Import of products and articles containing mercury as commercial goods; c) Use of elementary mercury, mercury compounds and products containing mercury. The prohibition does not apply to the supply by manufacturers of the import as commercial goods of: pharmaceutical products; seed dressing; sealing agents for trees; antiques. If there is no replacement amount product that does not contain mercury and provided that no more than the minimum amount of mercury necessary for the intended use is employed, the prohibition does not apply to the supply by manufacturers nor the import as commercial goods of: measuring, control or laboratory instruments; bulbs and light tubes; artists' colours for restoration; products for dental fillings; auxiliary substances for manufacturing processes. Special provisions apply for batteries. Bioaccumulation of organic derivatives, neurotoxicity. (Reference: (CHEOEH) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.2, , 09 June 1986)
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
DNK	Jun 1977	By Executive Order No. 349 of the Ministry of the Environment, antimony, mercury and lead compounds are not to be used in preparations designed for surface treatment (painting, etc.) of toys and children's furniture.
DZA	28 Jan 1995	The use of this substance is regulated in the manufacturing of certain consumer products. The acceptable limited doses are: 200 mg/kg of total weight of the concerned

Legislative or regulation action

Product Name		Mercury and mercury compounds *
C.A.S. number		7439-97-6
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		product for the protective linings; 100 mg/kg for school supplies in plastic material; 60 mg/kg for toys; 25 mg/kg for modelling paste and finger painting; 25 mg/kg for inks for felt pens. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est réglementée pour la fabrication de certain produits de consommation. Les doses limites acceptables sont: 200 mg/kg du poids total du produit concerné pour les revêtements protecteurs; 100 mg/kg pour les articles scolaires en matière plastique; 60 mg/kg pour les jouets; 25 mg/kg pour la pâte à modeler et peinture aux doigts; 25 mg/kg pour les encres pour crayons à feutre. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
ESP	Sep 1967	Use of the following is prohibited in toys and accessories for children: lead, zinc and potassium alloys which contain more than 10% of these metals, even when coated with inert metals, arsenic and its compounds in whatever quantity, as well as the use of dyes containing antimony, arsenic, copper, mercury, uranium, over 1 per cent of lead, chromium oxide and soluble salts or barium carbonates, cadmium, chromium and zinc. (Reference: (ESPBC) El Código Alimentario Español, Ch.IX, , Sep 1967)
GBR	1 Jan 1992	May not be used as substances/constituents of preparations intended for anti-foulant paints, preservation of wood, impregnation of heavy duty textiles and treatment of industrial waters. Control introduced under the 8th Amendment, Directive 89/677/EEC of the European Community Marketing and Use Directive 76/769/EEC. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JPN	Jan 1979	Organomercury compounds should not be detected in adhesive, paint, wax, shoe polishers, and textile products (diapers, diaper covers, bibs, underwear, sanitary panties, gloves and hosiery). (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , , 1982)
JPN	1 Jan 1980	Organomercury compounds should not be detectable by AAS (=less than 1mg/kg) in textile products such as diaper cover, underwear, gloves, hosiery, intermediate wear, outer wear, cap, hat, bedding, carpet, and knitting wool. (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , , 1980)
NGA	1 Feb 1983	Prohibition of the manufacture, import, export, distribution and sale of any cosmetic products containing mercury or any of its salts in amounts exceeding 1PPM (1mg/kg) (Calculated as hg). Reasons for the decision: Reports from literature of possible systemic toxic effects resulting from absorption of mercury through the skin. (Reference: (AARNO) Administrative Action, FDA/RU/242-2, 171, Dec 1982)
NZL	1983	No person shall manufacture, import, pack or sell any graphic material that contains more than 100 mg/kg of arsenic, antimony, cadmium, chromium, lead, mercury or selenium or of any water-soluble compound of barium.
NZL	1983	No person shall manufacture, import, supply or sell any furniture, other household item or toy, covered with paint or other coating containing lead in concentration of more than 5000 mg/kg (dry weight), mercury in a concentration of more than 200mg/kg (dry weight); or arsenic, cadmium, or selenium at more than 1000 mg/kg (dry weight) of the coating.
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain mercury salts and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)
Bibliographical references		

Legislative or regulation action

Product Name **Mercury and mercury compounds ***
C.A.S. number **7439-97-6**

IPCS ENVIRONMENTAL HEALTH CRITERIA, 1, , 1976
 WHO FOOD ADD., 13, 43, 1978
 WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
 WHO FOOD ADD., 24, 295, 1989
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 101, , 1990
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 118, , 1991
 IARC MONOGRAPH, 58, 239, 1993

Product Name **Mercury in spermicide contraceptives**
Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DOM		Authorities are in the process of cancelling the registration for products with phenylmercury acetate or phenylmercury nitrate.
PHL	Oct 1980	Phenylmercury acetate has been banned for use in jelly or suppository contraceptives due to the risk of mercury toxicity.

Product Name **Methanol**
C.A.S. number **67-56-1**
Scientific and common names, and synonyms

METHYL ALCOHOL
 METHANOL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of methanol is regulated in the manufacturing of certain consumer products. The acceptable limited dose is from 1% of the total weight of the concerned product for toys, material and other products intended for recreation or children's education. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de l'alcool méthylique est réglementée pour la fabrication de certains produits de consommation. La dose limite acceptable est de 1% du poids total du produit concerné pour les jouets, matériel et autres produits destinés à la récréation ou à l'éducation des enfants. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JPN	Apr 1982	The maximum permitted methanol content in household aerosol products is 5% by weight. (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , , 1982)
POL		Not allowed for the production of household chemicals. (Reference: (POLIP) Instytut Przemysłu Organicznego, , , 1987)
SWE	01 Jul 1973	Motor radiator fluid, windscreen cleaner fluid or other automotive fluids containing methanol may not be offered for sale or transferred unless they also contain ethanol and the methanol content is no more than 5% (wt/wt) of the ethanol quantity. (Reference: (SVENF) Svensk Foerfattningssamling, 334, 1, 1973)
SWE		Cosmetic and hygienic products may not contain this substance. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)
THA	2 May 1995	Aerosol products and products which contact human skin or food at use, containing methanol have been banned for importation, exportation, manufacture and handling.

Legislative or regulation action

Product Name		Methanol
C.A.S. number		67-56-1
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		Acute toxic effects of methanol are considered to pose hazards under local condition use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Methyl bromoacetate
C.A.S. number		96-32-2
Scientific and common names, and synonyms		
ACETIC ACID, BROMO-, METHYL ESTER		
BROMOACETIC ACID METHYL ESTER		
METHYL ALPHA-BROMOACETATE		
METHYL MONOBROMOACETATE		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	May not be used in jokes or hoaxes or in objects intended to be used as such, for instance as a constituent of sneezing powder and stink bombs. However, Member States may tolerate on their territory stink bombs containing not more than 1.5ml. (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
DZA	28 Jan 1995	The use of methyl bromoacetate is prohibited in the manufacturing of the following consumer products: toys, materials and other products intended for education or children's recreation. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de bromoacétate de méthyle est interdite pour la fabrication de produits de consommation suivants: jouets, matériels et autres produits destinés à l'éducation ou à la récréation des enfants. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		MGK Repellent 11
C.A.S. number		126-15-8
Scientific and common names, and synonyms		
4A(4H)-DIBENZOFURAN CARBOXALDEHYDE, 1,5A,6,9,9A,9B-HEXAHYDRO-		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1991	The substance was withdrawn from the market. The withdrawal was due to reproductive toxicity in experimental animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	14 Jun 1990	R-11(MGK Repellent 11) was voluntarily withdrawn by the Registrant. On June 1990 EPA granted the manufactures requests for voluntary cancellation of all products containing R-11(MGK Repellent 11). EPA also prohibited sale, distribution, or further reformulation of remaining R-11 stocks. No remaining uses allowed. Preliminary animal data associate R-11(MGK Repellent 11) exposure with adverse reproductive effects (malformations), reduced ovarian activity, and carcinogenicity (increased development of benign tumors). (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Legislative or regulation action

Product Name **Nonylphenoethoxylate**

C.A.S. number **9016-45-9**

Scientific and common names, and synonyms

CYCLOPROPANECARBOXYLIC ACID, 3-(DIHYDRO-2-OXO-3(2H)-THIEN-
POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-(NONYLPHENYL)-.OMEGA.-HYDROXY-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1 Sep 1986	Severely restricted chemical. Supply, import and use of detergents containing nonylphenoethoxylate are prohibited (applies to nonylphenol condensed with 3 or more moles ethylene oxide). Detergents mean washing agents and washing auxiliary products for textiles. This use constitutes a major industrial use of the chemical. Persistence of nonylphenol unit. Ordinance relating to Environmentally Hazardous Substances, 9 June 1986, Annex 4.1 (Reference: (CHEOE) Ordinance relating to Environmentally Hazardous Substances, Annex, 4.1, , 09 June 1986)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)

Product Name **Octylphenoethoxylate**

C.A.S. number **9036-19-5**

Scientific and common names, and synonyms

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-[(1,1,3,3-TETRAMETHYLBUTYL)PHENYL]-.OMEGA.-HYDROXY-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1 Sep 1986	Severely restricted chemical : Supply, import and use of detergents containing octylphenoethoxylate are prohibited_ (Applies to octylphenol condensed with 3 or more moles ethylene oxide). Detergents means washing agents and washing auxiliary products for textiles. This use constitutes a major industrial use of the chemical. Persistence of the octylphenol unit. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)

Product Name **O-Tricresyl-phosphate**

C.A.S. number **78-30-8**

Scientific and common names, and synonyms

O-TOTYL PHOSPHATE
PHOSPHORIC ACID, TRIS(2-METHYLPHENYL) ESTER
PHOSPHORIC ACID, TRI-O-TOLYL ESTER
TRIS(O-METHYLPHENYL)PHOSPHATE
TRIS(O-CROSYL)-PHOSPHATE
TRI-O-TOTYL PHOSPHATE
TRI-2-TOLYL PHOSPHATE
TRI 2-METHYLPHENYL PHOSPHATE

Legislative or regulatory action

Legislative or regulation action

Product Name		O-Tricresyl-phosphate
C.A.S. number		78-30-8
Country	Effective Date	Description of action taken Grounds for decision
CHE	1972	Use prohibited in paints varnishes and household products. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, , 1985)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
Product Name		Ozone
C.A.S. number		10028-15-6
Legislative or regulative action		
Country	Effective Date	Description of action taken Grounds for decision
CHE	1972	Use for ozonisation of living spaces shall be prohibited if the concentration in air exceeds 0.1 ppm. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, , 1985)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
Product Name		Parathion methyl *
C.A.S. number		298-00-0
Scientific and common names, and synonyms		
DIMETHYL PARATHION		
DIMETHYL P-NITROPHENYL MONOTHIOPHOSPHATE		
DIMETHYL P-NITROPHENYL THIOPHOSPHATE		
DIMETHYL-P-NITROPHENYL THIONOPHOSPHATE		
DIMETHYL-P-NITROPHENYL THIONOPHOSPHATE		
DIMETILPARATION		
METHYL PARATHION		
METHYL PARATHION, LIQUID (USA)		
METHYLPARATION (CSK)		
O,O-DIMETHYL-O-(4-NITRO-PHENYL)-MONOTHIOPHOSPHAT (DEU)		
O,O-DIMETHYL O-(P-NITROPHENYL)THIONOPHOSPHATE		
O,O-DIMETHYL O-P-NITROFENYLESTER KYSELINY THIOPHOS (CSK)		
O,O-DYMETHYL O-4-NITROPHENYL PHOSPHOROTHIOATE		
O,O-DIMETHYL-O-(4-NITRO-FENYL)-MONOTHIOFOSFAAT (NLD)		
O,O-DIMETHYL-O-(4-NITROPHENYL)PHOSPHOROTHIOATE		
O,O-DIMETHYL-O-(P-NITROPHENYL)-THIONOPHOSPHAT (DEU)		
O,O-DIMETHYL-O-(P-NITROPHENYL)PHOSPHOROTHIOATE		
O,O-DIMETHYL O-P-NITROPHENYL THIOPHOSPHATE		
PHOSPHOROTHIOIC ACID, O,O-DIMETHYL O-(4-NITROPHENYL) ESTER		
PARATHION METHILICO (GTM)		
PARATHION-METILE (ITA)		
PARATION METILICO (MEX)		
PHENOL, P-NITRO-, O-ESTER WITH O,O-DIMETHYL PHOSPHOROTHIOATE		

Legislative or regulation action

Product Name **Parathion methyl ***

C.A.S. number **298-00-0**

Scientific and common names, and synonyms

PHOSPHOROTHIOIC ACID O,O-DIMETHYL O-(P-NITROPHENYL) ESTER
P-NITROPHENYLDIMETHYL THIOPHOSPHATE
P-NITROPHENYLDIMETHYLTHIONOPHOSPHATE
THIOPHOSPHATE DE O,O-DIMETHYLE ET DE O-(4-NITROPHENYLE) (FRA)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JPN	12 Aug 1955	Restrictions on sale, use, import and manufacture. Protection of human safety. In accordance with Judgement Criteria for Poisonous and Deleterious Substances (those poisonous substances which have very strong toxicity and are commonly used or thought to be commonly used and are feared to be apt to cause harm are designated to be specified poisonous substances), it is found by the Central Pharmaceutical Affairs Council that these chemicals are specified poisonous substances for their very strong toxicity. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PRT	1 Jan 1974	Pesticide banned as an ingredient in household products on account of its environmental/toxicological effects. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)

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FAO PLANT PRODUCTION & PROTECTION PAPER, 116, 70, 1993
FAO PLANT PRODUCTION & PROTECTION PAPER, 118(PART1), 705, 1993
FAO PLANT PRODUCTION & PROTECTION PAPER, 127, 135, 1994
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FAO PLANT PRODUCTION & PROTECTION PAPER, 133, 162, 1995

Product Name **Pentachloroethane**

C.A.S. number **76-01-7**

Scientific and common names, and synonyms

ETHANE, PENTACHLORO-
ETHANE, PENTACHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	7 Nov 1978	Halogen derivatives of hydrocarbons are prohibited for any lamp containing them for decorative purposes on the grounds that these chemicals are narcotic and very dangerous to health, in particular 1,1,2,2-tetrachloroethane, carbon tetrachloride, pentachloroethane and 1,1,2-trichloroethane. (Reference: (BELAR) Arrêté Royal, , , 07 Nov 1978)

Legislative or regulation action

Product Name **Pentachloroethane**

C.A.S. number **76-01-7**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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(Reference: (BELAP) Annales Pharmaceutiques belges, , , 07 Nov 1978)

Bibliographical references

IARC MONOGRAPH, 41, , 1986

Product Name **Phosphorus**

C.A.S. number **7723-14-0**

Scientific and common names, and synonyms

AMORPHOUS, RED (DOT)

PHOSPHORUS

PHOSPHORUS (YELLOW)

WHITE PHOSPHORUS

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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AUT **20 Feb 1992** All uses banned. High toxicity and high risk of accidental poisoning. Phosphorous is very toxic to fish and other aquatic animals.

(Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)

DZA **28 Jan 1995** The use of white phosphorus is prohibited in the manufacturing of the following consumer products: matches, toys. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation du phosphore blanc est interdite pour la fabrication des produits de consommation suivants: allumettes, jouets. Toutes les autres utilisations sont autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.)

(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

GBR Importation of matches made with white phosphorus and use of white phosphorus in manufacture of matches are prohibited. Exposure was shown to cause acute effects on the liver if toxic quantities were absorbed; long-term absorption leads to chronic poisoning and bone necrosis.

(Reference: (GBFAA) Factories Act, 34, 67/77, 1961)

KOR **9 Aug 1982** Prohibition of manufacturing, importing, transferring, supplying and using of yellow phosphorous match. Exceptions will be made in case for the purpose of research or laboratory work. Carcinogen.

(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

SWE **1 Jul 1973** Matches whose head composition contains white or yellow phosphorous may not be offered for sale or transferred.

(Reference: (SVENF) Svensk Foerfattningssamling, 334, 1, 1973)

USA Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain white phosphorus and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce.

(Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)

USA Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain red phosphorous (except for caps and party poppers) and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce.

(Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)

Legislative or regulation action

Product Name **Picric acid**

C.A.S. number **88-89-1**

Scientific and common names, and synonyms

CARBAZOTIC ACID
NITROXANTHIC ACID
PICRONITRIC ACID
PHENOL TRINITRATE
1,3,5-TRINITROPHENOL
2-HYDROXY-1,3,5-TRINITROBENZENE
2,4,6-TRINITROPHENOL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1972	The use of paraphenylene diamine, picric acid and other toxic substances which, when used as components of textile materials, are easily absorbed through the skin and liable to damage health, shall be prohibited for the treatment of articles of clothing. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, , 1985)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain picric acid or picrates and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)

Product Name **Polybrominated biphenyls (PBBs)**

C.A.S. number **59536-65-1**

Scientific and common names, and synonyms

BPP
BIPHENYLES POLYBROMURES
FIREMASTER FF1
PBBS
1,1'-BIPHENYL,2,2',3,3' 4,4' 5,5' 6,6'-DECABROMO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	19 Nov 1984	The control action applies to PBBs. PBBs may not be used in textile articles, such as garments, undergarments and linen, intended to come into contact with the skin. Major uses related to flame retardation are still permitted. PBBs may constitute serious risks to health and the environment. (Directive 83/264/EEC of 16.5.83) (Reference: (OJEC) Official Journal of the European Communities, L147/9, , 06 June 1983)
@EC	31 Dec 1987	May not be used in textile articles such as garments, under-garments and linen intended to come into contact with the skin. (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
GBR	5 Feb 1985	Ban of supply of polybrominated biphenyls. Action taken for consumer protection. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
HUN	01 Jan 2001	The chemical is banned. PBBs may not be used for the production of textile articles

Legislative or regulation action

Product Name **Polybrominated biphenyls (PBBs)**

C.A.S. number **59536-65-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		(clothes, underwear, bedclothes, etc.) to come into contact with human skin. All other uses than the use in textile articles intended to come in contact with the skin are continued. PBBs cause weight loss, liver damage, porphyria, effects on the central nervous system, skin, eyes and the immune system, effects on reproduction, they are weakly teratogenic (embryotoxic) in cattle and laboratory animals. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)

Bibliographical references

IARC MONOGRAPH, 18, 107, 1978
IARC MONOGRAPH, 41, , 1986
IPCS HEALTH AND SAFETY GUIDE, 83, , 1993
IPCS ENVIRONMENTAL HEALTH CRITERIA, 152, , 1994

Product Name **Polychlorinated biphenyls (PCBs) ***

C.A.S. number **1336-36-3**

Scientific and common names, and synonyms

POLYCHLORINATED BIPHENYLS (GENERIC)
PCBS
1,1'-BIPHENYL, CHLORO DERIVS.

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
SWE	1 Jan 1989	Severely restricted. Products containing PCBs may not be offered for sale, transferred or used in the course of business activities without a permit: 1) paints, printing inks, caulking or sealing compounds. 2) Hydraulic oil, lubricating oil, cutting oil. 3) Heat-transfer media. 4) Separate capacitors with a rating of two kilovolt ampere or less. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	2 Jul 1979	The substance is severely restricted for use. Virtually all uses of PCBs are prohibited. The remaining uses are an extremely minor portion of those which were previously approved. The Toxic Substances Control Act bans the manufacture and import of PCBs after January 1, 1979, and any processing and distribution in commerce of PCBs after July 1, 1979, except in a totally enclosed manner. The ban applies to both use within the US and export from the US, except for certain equipment. (Implementation was postponed until after July 2, 1979) Use of waste oil containing any detectable concentration of PCBs as sealant, coating or dust control agent is prohibited. Prohibited uses include road oiling, general dust control, use as a pesticide or herbicide carrier and use as a rust preventive on pipes. EPA regulations exclude certain PCB products from the ban, generally those that have PCB concentrations of less than 50 ppm (excluded products listed in regulation). Non-totally enclosed PCB activities which are allowed are also listed. The remaining uses are an extremely minor portion of those which were previously allowed. The control action was based on a national review of scientific data. PCBs are toxic and persistent and have been shown to have oncogenic potential in animal studies. These chemicals also may cause reproductive effects, developmental toxicity, and oncogenicity in humans. Also, persons exposed to PCBs may develop chloracne. In the environment, PCBs are among the most stable chemicals known and decompose very slowly. They remain in the environment and are taken up and stored in

Legislative or regulation action

Product Name Polychlorinated biphenyls (PCBs) *

C.A.S. number 1336-36-3

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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the fatty tissues or organisms. Consequently, bioconcentration can occur within species, and biomagnification can occur through the transfer of PCBs up the food chain from phytoplankton to humans.

(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 7, 261, 1974
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 2, , 1976
 IARC MONOGRAPH, 18, 43, 1978
 IARC MONOGRAPH, SUPPL.4, 217, 1982
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 140, , 1992
 IPCS HEALTH AND SAFETY GUIDE, 68, , 1992

Product Name Polychlorinated triphenyls (PCTs) *

C.A.S. number 61788-33-8

Scientific and common names, and synonyms

TERPHENYL, CHLORINATED

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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DEU 1 Oct 1980 Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority.

(Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 2, , 1976
 IPCS ENVIRONMENTAL HEALTH CRITERIA, 140, , 1992
 IPCS HEALTH AND SAFETY GUIDE, 68, , 1992

Product Name Polyvinyl chloride

C.A.S. number 9002-86-2

Scientific and common names, and synonyms

ETHYLENE, CHLORO-, POLYMER

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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PER Polyvinyl chloride is prohibited for use in containers for alcohol or for products with alcohol as an ingredient. Both vinyl chloride and polyvinyl chloride have been found to have a close relationship with the development of angiosarcoma of the liver.

Product Name Propoxur

C.A.S. number 114-26-1

Scientific and common names, and synonyms

PHENOL, 2-(1-METHYLETHOXY)-, METHYLCARBAMATE

Legislative or regulatory action

Legislative or regulation action

Product Name		Propoxur
C.A.S. number		114-26-1
Country	Effective Date	Description of action taken Grounds for decision
ANG		The control action applies to the product Baygon 20% EC. Banned for use. No remaining uses allowed. Baygon 20% EC is banned because of its toxicity and risks posed to health and the environment. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
KOR	1 May 1990	Registration withdrawn because of its potential carcinogenicity. Risk of carcinogenic effect on humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE	1 Jan 1992	Withdrawn from the market as a consumer product. No remaining uses. Withdrawal was due to the substance's carcinogenic properties. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
Product Name		Propyl-bromoacetate
C.A.S. number		35223-80-4
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	May not be used in jokes or hoaxes or in objects intended to be used as such, for instance as a constituent of sneezing powder and stink bombs. However, Member States may tolerate on their territory stink bombs containing not more than 1.5ml. (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
Product Name		Selenium and selenium compounds
C.A.S. number		7782-49-2
Scientific and common names, and synonyms		
SELENIUM		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
CAN	Nov 1970	The Hazardous Products Act prohibits the advertising, sale or import of toys, equipment and other products for use by the child in learning or play that have applied to them a decorative or protective coating that contains any of the following substances: a) lead pigments; b) more than 0.5% weight to weight of lead in the total solids contained in such coating; c) any compound of antimony, arsenic, cadmium, selenium or barium introduced as such if more than one-tenth of one percent of such compounds dissolves in five percent hydrochloric acid after stirring for ten minutes at twenty degrees centigrade; d) any compound of mercury introduced as such; e) ethyl ether, boric acid or salts, benzene, petroleum distillates (exceeding 10% w/v) or turpentine (exceeding 10% w/v), where the substance can, under reasonably foreseeable circumstances, become accessible to a child or where the substance is a filling that may be released upon breakage or leakage. (Section 8 and 9 of Part I of the Schedule to the Hazardous Products Act).
DZA	28 Jan 1995	The use of this substance is regulated in the manufacturing of certain consumer products. The acceptable limited dose for protective linings – 1000 mg/kg of total weight of the concerned product; for toys – 500 mg/kg; for modelling paste and finger painting – 500 mg/kg. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est réglementée pour la fabrication de certain produits de consommation. Dose limite acceptable pour

Legislative or regulation action

Product Name **Selenium and selenium compounds**

C.A.S. number **7782-49-2**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
		revêtements protecteurs - 1000 mg/kg du poids total du produit concerné; pour les jouets - 500 mg/kg; pour pâte à modeler et peinture aux doigts - 500 mg/kg. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR	1 Jan 1962	Uses of selenium compounds (eg selenium selenate) in agriculture, horticulture and home gardens withdrawn. The substance was banned on grounds of high acute toxic hazard to humans and livestock. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
NZL	1983	No person shall manufacture, import, pack or sell any graphic material that contains more than 100 mg/kg of arsenic, antimony, cadmium, chromium, lead, mercury or selenium or of any water-soluble compound of barium.
NZL	1983	No person shall manufacture, import, supply or sell any furniture, other household item or toy, covered with paint or other coating containing lead in concentration of more than 5000 mg/kg (dry weight), mercury in a concentration of more than 200mg/kg (dry weight); or arsenic, cadmium, or selenium at more than 1000 mg/kg (dry weight) of the coating.

Bibliographical references

IARC MONOGRAPH, 9, 245, 1975
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984
IPCS ENVIRONMENTAL HEALTH CRITERIA, 58, , 1986

Product Name **Sodium fluoride**

C.A.S. number **7681-49-4**

Scientific and common names, and synonyms

ALCOA SODIUM FLUORIDE
FLUORURE DE SODIUM (FRA)
FLUORIDE, SODIUM
FLUORID SODNY (CSK)
SODIUM FLUORIDE (NAF)
SODIUM MONOFLURIDE
SODIUM MONOFLUORIDE
SODIUM FLUORURE (FRA)

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
GBR	1 Jan 1966	Use of inorganic fluorides as food storage insecticides was withdrawn (professional and amateur uses). Action taken because of high acute toxic hazards to humans and because there were less toxic alternatives available. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PRT	1 Jan 1974	Pesticide banned as an ingredient in household products on account of its environmental/toxicological effects. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)

Product Name **Sodium hydroxide**

C.A.S. number **1310-73-2**

Legislative or regulation action

Product Name **Sodium hydroxide**

C.A.S. number **1310-73-2**

Scientific and common names, and synonyms

CAUSTIC SODA, BEAD (DOT)
 CAUSTIC SODA, DRY (DOT)
 CAUSTIC SODA, FLAKE
 CAUSTIC SODA, GRANULAR (DOT)
 CAUSTIC SODA, SOLID (DOT)
 CAUSTIC SODA
 HYDROXIDE DE SODIUM (FRENCH)
 LYE
 NATRIUMHYDROXYDE (DUTCH)
 NATRIUMHYDROXID (GERMAN)
 SODIO(IDROSSIDO DI) (ITALIAN)
 SODIUM HYDRATE
 SODIUM HYDRATE (DOT)
 SODIUM HYDROXIDE BEAD (DOT)
 SODIUM HYDROXIDE, DRY (DOT)
 SODIUM HYDROXIDE, FLAKE (DOT)
 SODIUM HYDROXIDE, GRANULAR (DOT)
 SODIUM HYDROXIDE, SOLID (DOT)
 SODIUM(HYDROXYDE DE) (FRENCH)
 SODA LYE
 WHITE CAUSTIC

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
USA		Any liquid drain cleaner containing 10% or more by weight of sodium hydroxide is banned as a hazardous product because it possesses such a degree of hazard that adequate cautionary labelling cannot be written and public health can only be served by keeping it out of interstate commerce (does not apply to cleaners packaged according to certain specified criteria). (Reference: (CFRUS) Code of Federal Regulations, 16(1500), 302, 1982)

Product Name **Strobane**

C.A.S. number **8001-50-1**

Scientific and common names, and synonyms

COMPOUND 3961
 DICHLORICIDE MOTHPROOFER
 DICHLORICIDE AEROSOL
 ENT 19,442
 INSECTICIDE 3960-X14
 TERPENE POLYCHLORINATE
 TERPENE POLYCHLORINATES
 3960-X14

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name **Strobane**

C.A.S. number **8001-50-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
PRT	1 Jan 1974	Pesticide banned as an ingredient in household products on account of its environmental/toxicological effects. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)

Bibliographical references

IARC MONOGRAPH, 5, 219, 1974
IARC MONOGRAPH, 7, 72, 1987

Product Name **Strychnine and salts**

C.A.S. number **57-24-9**

Scientific and common names, and synonyms

STRYCHNIN (DEU)
STRYCHNIDIN-10-ONE
STRICNINA (ITA)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
PRT	1 Jan 1974	Pesticide banned as an ingredient in household products on account of its environmental/toxicological effects (applies to strychnine and its salts). (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)

Product Name **Tetrachloroethylene**

C.A.S. number **127-18-4**

Scientific and common names, and synonyms

BICLORURO DE CARBONO
CARBON BICHLORIDE
CARBON DICHLORIDE
CZTEROCHLOROETYLEN (POL)
ETHYLENE TETRACHLORIDE
ETHENE, TETRACHLORO-
PERCHLORETHYLENE, PER (FRA)
PERCHLORAETHYLEN,PER (DEU)
PERCHLOROETHYLENE
PERCLOROETILENE (ITA)
PERCHLOORETHYLEEN, PER (NLD)
TETRACHLOORETHEEN (NLD)
TETRACHLORAETHEN (DEU)
TETRACHLOROETHENE
TETRACLORETENE (ITA)
1,1,2,2-TETRACHLOROETHYLENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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Legislative or regulation action

Product Name **Tetrachloroethylene**

C.A.S. number **127-18-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	May not be used in ornamental objects intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays. (Council directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
JPN	Oct 1983	The maximum permitted tetrachloroethylene content in household aerosol products and household cleansers is 0.1% by weight. (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , , 1982)
SWE	1 Jan 1993	Severely restricted by Ordinance on Certain Chlorinated Solvents. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IPCS ENVIRONMENTAL HEALTH CRITERIA, 31, , 1984
IPCS HEALTH AND SAFETY GUIDE, 4, , 1987
IARC MONOGRAPH, 63, 159, 1995

Product Name **Thallium sulphate**

C.A.S. number **10031-59-1**

Scientific and common names, and synonyms

SULFURIC ACID THALLIUM SALT

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
PRT	1974	Pesticide banned as an ingredient in household products on account of its environmental/toxicological effects. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)

Product Name **Thiocyanic acid and thiocyanates**

C.A.S. number **463-56-9**

Scientific and common names, and synonyms

HYDROGEN THIOCYANATE

SULFOCYANIDE

SULFOCYANIC ACID

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain thiocyanates and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)

Product Name **Tin and tin compounds**

C.A.S. number **7440-31-5**

Legislative or regulation action

Product Name **Tin and tin compounds**

C.A.S. number **7440-31-5**

Scientific and common names, and synonyms

TIN

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	30 Jun 1989	Organotin compounds are severely restricted: Supply and import of antifoulings containing organotin compounds (trisubstituted tin compounds) is prohibited. High aquatic toxicity. (Reference: (CHEOE) Ordinance relating to Environmentally Hazardous Substances, Annex, 3.1, , 09 June 1986)
GBR	13 Jan 1986	The retail sale, and the supply for retail sale, of certain anti-fouling paints containing organo-tin compounds is prohibited. The prohibition applies to copolymer paints if the dried paint contains more than 7.5 percent by weight of tin (subject to a limit on the amount of tin that is not part of the film-forming components), and to other types of anti-fouling paint if the dried paint contains more than 2.5 percent by weight of tin. (Reference: (GBRSI) Statutory Instruments, 201, 1, 1985)
JPN	Jan 1979	Triphenyltin and tributyltin compounds should not be detected in adhesive, paint, wax shoe polisher and textile products (diapers, diaper covers, bibs, underwear, sanitary panties, gloves and hosiery). (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , , 1982)

Bibliographical references

WHO FOOD ADD., 17, 297, 1982

WHO FOOD ADD., 24, 329, 1989

Product Name **Titanium**

C.A.S. number **7440-32-6**

Scientific and common names, and synonyms

CONTIMET 30

C.P. TITANIUM

IMI 115

NCI-C0-4251

TITANIUM METAL POWDER, DRY

TITANIUM ALLOY

TITANIUM 50A

T 40

VT 1

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain titanium (unless the particle size is greater than 100-mesh) and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous substances and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)

Product Name **Titanium trichloride**

C.A.S. number **7705-07-9**

Legislative or regulation action

Product Name **Titanium trichloride**

C.A.S. number **7705-07-9**

Scientific and common names, and synonyms
TITANIUM CHLORIDE (TiCl₃)

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of titanium trichloride is prohibited in the manufacturing of the following consumer products: cleaning agents. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de chlorure de titane est interdite pour la fabrication des produits de consommation suivants: agents nettoyants. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Toluene**

C.A.S. number **108-88-3**

Scientific and common names, and synonyms
BENZENE, METHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: pastes and adhesive substances, cleaning solvents, dilution and dyeing agents. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: colles et substances adhésives, solvants de nettoyage, agents de dilution et teintures. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Tributyltin acetate**

C.A.S. number **56-36-0**

Scientific and common names, and synonyms
STANNANE, (ACETYLOXY)TRIBUTYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
USA	27 Sep 1988	The substance is severely restricted for use. From Sept. 27 1988, the use of certain antifouling paints containing organotin, as well as the use of organotin compounds, purchased by consumers, to make such paints, is prohibited. Registrants are required to limit the release of organotin compounds and stop using these paints on all non-aluminum vessels less than 82 feet (25 meters) in length. TBT paints formulated for other uses must not be used on boats. Users must comply with the label instructions to prevent environmental contamination with removed paint and paint waste. The control action applies to the following tributyltin compounds: bis(tributyltin) adipate (CAS 7437-35-6), bis(tributyltin) dodecenyl succinate (CAS 12379-54-3), bis(tributyltin) sulfide (CAS 4808-30-4), tributyltin acetate (CAS 56-36-0), tributyltin acrylate (CAS 13331-52-7), tributyltin resinate (CAS not assigned). Retained use of TBT compounds is limited to boats of a certain type and size. Additionally, applicators must undergo specific training. Aerosol paints packaged in volumes of 16 oz. or less may only be used on underwater aluminum

Legislative or regulation action

Product Name **Tributyltin acetate**

C.A.S. number **56-36-0**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		parts of boats and are exempt from these sale and use restrictions. Users must comply with the label instructions to prevent environmental contamination with removed paint and paint waste. EPA has determined that the TBT compounds are highly toxic to a variety of aquatic organisms. Oyster shell deformities have been observed in the US, England, and France, and laboratory tests have established that TBT is toxic to fish, crustaceans, and algae at very low concentrations. The contamination of estuarine which are habitats for important shellfish species and nurseries for fish is also of concern. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **Trichloroethylene**

C.A.S. number **79-01-6**

Scientific and common names, and synonyms

ACETYLENE TRICHLORIDE
ETHYL TRICHLORIDE
ETHYLENE TRICHLORIDE
ETHYLENE TRICHLORO-
ETHENE, TRICHLORO-
TRICHLORAETHEN (DEU)
TRICHLOROETHYLEEN, TRI (NLD)
TRICHLORAETHYLEN, TRI (DEU)
TRICHLORAN
TRICHLOREN
TRICHLORETHYLENE (FRA)
TRICHLORETHYLENE, TRI (FRA)
TRICHLOROETHENE
TRICHLOROETHYLENE (USA)
TRICLORETENE (ITA)
TRICHLOROETHEN (NLD)
1,1,2-TRICHLORETHYLENE
1-CHLORO-2,2-DICHLOROETHYLENE
1,2,2-TRICHLOROETHYLENE
1,1-DICHLORO-2-CHLOROETHYLENE
1,1,2-TRICHLOROETHYLENE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	May not be used in ornamental objects intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays. (Council directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
AUT	20 Feb 1992	All uses banned. Carcinogenic effects in experimental animals (liver tumors) and central nervous system effects. Furthermore the substance is suspected to have a potential for cancer in humans. (Reference: (AUTFLG) Federal Law Gazette, No. 97, , 1992)
BEL	7 Nov 1978	Halogen derivatives of hydrocarbons are prohibited for any lamp containing them for

Legislative or regulation action

Product Name **Trichloroethylene**

C.A.S. number **79-01-6**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
		decorative purposes on the grounds that these chemicals are narcotic and very dangerous to health, in particular 1,1,2,2-tetrachloroethane, carbon tetrachloride, pentachloroethane and 1,1,2-trichloroethane. (Reference: (BELAR) Arrêté Royal, , , 07 Nov 1978) (Reference: (BELAP) Annales Pharmaceutiques belges, , , 07 Nov 1978)
JPN	Oct 1983	The maximum permitted trichloroethylene content in household aerosol products and household cleansers is 0.1% by weight. (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , ,)
POL		Not permitted for use in household chemicals. (Reference: (POLIP) Instytut Przemysłu Organicznego, , , 1987)
SWE	1 Jan 1993	Banned by the Ordinance on Certain Chlorinated Solvents. (Action takes effect 1993/1996.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

WHO FOOD ADD., 69.35, , 1969
WHO FOOD ADD., 10, 117, 1976
IARC MONOGRAPH, 11, 263, 1976
IARC MONOGRAPH, 20, 545, 1979
IARC MONOGRAPH, SUPPL.4, 247, 1982
WHO FOOD ADD., 18, 140, 1983
IPCS ENVIRONMENTAL HEALTH CRITERIA, 50, , 1985
IARC MONOGRAPH, 63, 75, 1995

Product Name **Tris(2,3-Dibromopropyl) phosphate ***

C.A.S. number **126-72-7**

Scientific and common names, and synonyms

ANFRAM 3PB
APEX 462-5
BROMKAL P 67-6HP
E5685
FYROL HB32
FIREMASTER LV-T 23 P
FIREMASTER T23P
FIREMASTER T23P-LV
FLACAVON R
FLAMEX LV-T 23P
FLAMEX T 23P
FLAMMEX AP
FLAMMEX T 23P
NCI-C03270
PHOSPHORIC ACID, TRIS(2,3-DIBROMOPROPYL) ESTER
RCRA WASTE NUMBER U235
TRIS
TRIS-BP
TRIS-2,3-DIBROMOPROPYL ESTER KYSELINY FOSFORECNE (CZECH)

Legislative or regulation action

Product Name **Tris(2,3-Dibromopropyl) phosphate ***

C.A.S. number **126-72-7**

Scientific and common names, and synonyms

TRIS(DIBROMOPROPYL) PHOSPHATE
 TRIS (FLAME RETARDANT)
 TDBPP
 TDBP (CZECH)
 T 23P
 TRIS(2,3-DIBROMOPROPYL) PHOSPHORIC ACID ESTER
 USAF DO-41
 ZETIFEX ZN
 (2,3-DIBROMOPROPYL) PHOSPHATE
 1-PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1)
 2,3-DIBROMO-1-PROPANOL PHOSPHATE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	23 Jun 1989	Tris-(2,3 dibromopropyl) phosphate may not be used in textile articles such as garments, undergarments and linen, intended to come into contact with the skin. Major uses related to flame retardation are still permitted. The regulation, although only banning minor use of the chemical, is however considered by the EU to represent a significant reduction in direct exposure and hazard to human health. Tris-(2,3 dibromopropyl) phosphate is harmful to health. (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). Directive 79/663/EEC of 24.07.79. (Reference: (OJEC) Official Journal of the European Communities, L197/37, , 08 Mar 1979)
BEL	Jun 1978	It is prohibited to place on the market articles of clothing and fabric, intended to be used for the production of clothing treated with tris. (Reference: (MOBEL) Le Moniteur Belge, 6092, , 16 June 1978)
DNK		Regulatory action in accordance with EEC Directive 76/769.
ESP	Jan 1983	The fire-proofing treatment of textiles with tris is prohibited. (Reference: (ESPRD) Real Decreto, 106, , 1985)
FIN	1 Jan 1989	The use of the chemical is generally banned. However the substance may be used for research purposes with permission of the regional authorities. Import of the substance is not regulated but since the substance may not be used in Finland it can be imported only for research purposes. Carcinogen. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
FRA	1979	Manufacture, importation, offer, sale, distribution without charge and possession of article of clothing and textiles treated with tris has been prohibited in France. (Reference: (JORF) Journal Officiel de la Republique Francaise, 1512, , 24 June 1979)
HUN	01 Jan 2001	The chemical is banned. Tris (2,3-dibromopropyl) phosphate may not be used for the production of textile articles (clothes, underwear, bedclothes, etc.) to come into contact with the human skin. All other uses than the use in textile articles intended to come into contact with the skin are continued. Sufficient evidence of carcinogenicity to animals, probably carcinogenic to humans. (Reference: (EP3) UNEP/FAO - PIC Circulars XIV, XV, XVI, XVII - 12/2001, 6/2002, 12/2002, 6/2003, , ,)
JPN		Maximum concentration in such textile products as night wear, bed-linen, curtains, and carpets. Analytical test procedure (GC with flame photometric detection) and test results (the substance must not be detected) are described. (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , , 1982)

Legislative or regulation action

Product Name **Tris(2,3-Dibromopropyl) phosphate ***

C.A.S. number **126-72-7**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
LUX	Oct 1978	Tris-treated fabric is prohibited for importation, manufacture, and sale.
NZL		This product is not currently used and does not seem to have ever been registered. The textile industry has been informed of the concerns with its use.
SWE	1 Jan 1985	This substance is severely restricted and may not be used without the permission of the National Board of Occupational Safety and Health. Substance proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	11 Mar 1987	Tris has been voluntarily withdrawn from use by industry. The Consumer Product Safety Commission banned the use of Tris in children's wearing apparel after Tris was found to be an animal carcinogen. Tris has not been manufactured in, imported into, or processed in the U.S. for commercial purposes since at least 1980. No industrial uses are allowed without notifying EPA. Consumer uses are prohibited. The control action was based on a national review of scientific data. Tris has been shown to cause significant increases in kidney-cell adenomas in rats of both sexes, but especially in males. Significant increases in malignant neoplasms in both lung and forestomach were found in male mice. EPA believes that Tris is a probable human carcinogen. It is also mutagenic in bacteria, causes testicular atrophy and damage to the liver and kidneys in rabbits, and has the potential to cause heritable genetic changes. Tris has been shown to have potential to be acutely and chronically toxic to aquatic organisms. Furthermore, the compound is expected to be more toxic to early life stages of fish than juveniles and adults. Finally, the compound is expected to bioaccumulate; ultimate biodegradation is also slow. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 20, 575, 1979
IPCS ENVIRONMENTAL HEALTH CRITERIA, 173, , 1995

Product Name **Tris(Aziridinyl) phosphine oxide**

C.A.S. number **545-55-1**

Scientific and common names, and synonyms

APHOXIDE
APO
AZIRIDINE
AZIRIDINE, 1,1',1''-PHOSPHINYLDIYNETRIS-
ENT 24915
IMPERON FIXER T
N,N',N'-TRIETHYLENEPHOSPHORIC TRAMIDE
N,N',N'-TRI-1,2-ETHANEDIYLPHOSPHORIC TRIAMIDE
N,N'-N'-TRIETHYLENEPHOSPHORAMIDE
N,N,N'-TRIETHYLENE-
NSC 9717
PHOSPHORIC TRIAMIDE, N,N',N'-TRIETHYLENE-
PHOSPHORAMIDE
PHOSPHORIC ACID TRIETHYLENEIMINE (DOT)
PHOSPHORIC ACID TRIETHYLENE IMIDE
SK-3818
TRIAZIRIDINOPHOSPHINE OXIDE
TRIS(N-ETHYLENE)PHOSPHOROTRIAMIDATE

Legislative or regulation action

Product Name **Tris(Aziridinyl) phosphine oxide**

C.A.S. number **545-55-1**

Scientific and common names, and synonyms

TRIS(1-AZIRIDINE)PHOSPHINE OXIDE
 TRIETHYLENEPHOSPHOROTRIAMIDE
 TRIETHYLENEPHOSPHORIC TRIAMIDE
 TRIAZIRIDINYLPHOSPHINE OXIDE
 TRIAETHYLENPHOSPHORSAEUREAMID (GERMAN)
 TRI(1-AZIRIDINYL)PHOSPHINE OXIDE
 TEPA
 TEF
 TAPO
 TRIETHYLENEPHOSPHORAMIDE
 1,1',1'-PHOSPHINYLDINETRISAZIRIDINE
 1,1',1'-PHOSPHINYLDINETRIS-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	May not be used in textile articles such as garments, under-garments and linen intended to come into contact with the skin. (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
CHN	1 May 1994	Severely restricted for registration, production, sale and industrial use as any product. Highly toxic and persistent. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
GBR	5 Feb 1985	Ban of supply of tris(arizidinyl)phosphine oxide. Action taken for consumer protection. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JPN	Jan 1978	This compound should not be detected in textile products (sleepwear, carpets, bedding and curtains). (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , , 1982)

Bibliographical references

IARC MONOGRAPH, 9, 75, 1975

Product Name **Turpentine**

C.A.S. number **8006-64-2**

Scientific and common names, and synonyms

TURPENTINE, OIL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	Nov 1970	The Hazardous Products Act prohibits the advertising, sale or import of toys, equipment and other products for use by the child in learning or play that have applied to them a decorative or protective coating that contains any of the following substances: a) lead pigments; b) more than 0.5% weight to weight of lead in the total solids contained in such coating; c) any compound of antimony, arsenic, cadmium, selenium or barium introduced as such if more than one-tenth of one percent of such compounds dissolves in five percent hydrochloric acid after stirring for ten minutes at twenty degrees centigrade; d) any compound of mercury introduced as such; e) ethyl ether, boric acid or salts, benzene, petroleum distillates (exceeding 10% w/v) or turpentine (exceeding 10% w/v), where the substance can, under reasonably foreseeable circumstances, become

Legislative or regulation action

Product Name **Turpentine**

C.A.S. number **8006-64-2**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	<p>accessible to a child or where the substance is a filling that may be released upon breakage or leakage. (Section 8 and 9 of Part I of the Schedule to the Hazardous Products Act).</p> <p>The use of this substance is regulated in the manufacturing of certain consumer products. The acceptable limited dose is 10% of the total weight of the concerned product for toys, material and other products intended for recreation or children's education. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est réglementée pour la fabrication de certain produits de consommation. La dose limite acceptable est 10% du poids total du produit concerné pour les jouets, matériel et autres produits destiné à la récréation ou à l'éducation des enfants. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.)</p> <p>(Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)</p>

Product Name **Uranium**

C.A.S. number **7440-61-1**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
ESP	Sep 1967	<p>Use of the following is prohibited in toys and accessories for children: lead, zinc and potassium alloys which contain more than 10% of these metals, even when coated with inert metals, arsenic and its compounds in whatever quantity, as well as the use of dyes containing antimony, arsenic, copper, mercury, uranium, over 1 per cent of lead, chromium oxide and soluble salts or barium carbonates, cadmium, chromium and zinc.</p> <p>(Reference: (ESPBC) El Código Alimentario Español, Ch.IX, , Sep 1967)</p>

Product Name **Vinyl chloride**

C.A.S. number **75-01-4**

Scientific and common names, and synonyms

ETHENE, CHLORO-

ETHYLENE, CHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
@EC	27 Mar 1978	<p>The marketing or use as an aerosol propellant is not allowed.</p> <p>(Reference: (OJEC) Official Journal of the European Communities, L262, 201, 1976)</p>
@EC	1 Jan 1988	<p>This substance must not form part of the composition of cosmetic products. The marketing of cosmetic products containing the substance is prohibited. EEC Directive 76/768/EEC - OJEC L262, 169, 1976 as last amended by the reference given.</p> <p>(Reference: (OJEC) Official Journal of the European Communities, L56, 20, 1987)</p>
CAN	Jan 1981	<p>Under the conditions of the Hazardous Products Act, it is prohibited to advertise, sell or import disposable metal containers that contain a pressurizing fluid composed in whole or in part of vinyl chloride and that are designed to release pressurized contents by the use of a manually operated valve that forms an integral part of the container. (Section 21 of Part I of the Schedule to the Hazardous Products Act).</p>

Legislative or regulation action

Product Name **Vinyl chloride**

C.A.S. number **75-01-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	27 Jul 1978	Marketing of vinyl chloride as a propellant for aerosols is prohibited. (Reference: (BGBL) Bundesgesetzblatt, IS.1138, , 1978)
DZA	28 Jan 1995	The use of chloroethylene is prohibited in the manufacturing of the following consumer products: aerosols, packing used for the drying of alcohol. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography.(L'utilisation de chlorure de vinyl est interdite pour la fabrication des produits de consommation suivants: aérosols, emballages destinés au conditionnement des alcools. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
JPN	Jun 1974	Vinyl chloride is banned as an ingredient in aerosols and cosmetics for reasons of carcinogenicity. (Reference: (JNPAB) Notice by Director General of Pharmaceutical Affairs Bureau, 490, , 01 June 1974)
JPN	Apr 1982	This compound should not be detected in household aerosol products. (Reference: (CHPHS) Law for the Control of Household Products containing Harmful Substances, , , 1982)
NLD	Jul 1978	It is prohibited to market spray cans containing vinyl chloride monomer, on the basis of the Chemical Waste Act of 1976.
PER		Vinyl chloride is prohibited in pharmaceutical aerosol sprays. Both vinyl chloride and polyvinyl chloride have been found to have a close relationship with the development of angiosarcoma of the liver.
THA	2 May 1995	Aerosol products containing vinyl chloride monomer as propellant have been banned for importation, exportation, manufacture and handling Vinyl chloride monomer has been found to be carcinogenic to human. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA	1 Apr 1974	Vinyl Chloride (chloroethylene)is banned for use as a pesticide or in pesticidal products. Registration was cancelled for all pesticides containing vinyl chloride, whether as an active or inert ingredient, for uses in the home, food-handling establishments, hospitals, or enclosed areas in April 1974. Vinyl chloride is not allowed in any pesticidal product. Animal studies demonstrated carcinogenic effects of vinyl chloride in rats, mice and hamsters. Moreover, vinyl chloride was causally linked to angiosarcoma of the liver in workers who had close occupational contact with it. Vinyl chloride is also persistent in the air. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
USA		Any self-pressurized product intended or suitable for household use containing vinyl chloride monomer as an ingredient or in the propellant is banned as a hazardous product because it possesses such a degree of hazard that adequate cautionary labelling cannot be written and public health can only be served by keeping it out of interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1500), 302, 1982)

Bibliographical references

IARC MONOGRAPH, 7, 291, 1974
IARC MONOGRAPH, 19, 377, 1979
WHO FOOD ADD., 17, 320, 1982
IARC MONOGRAPH, SUPPL.4, 260, 1982
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984

Product Name **Zinc**

C.A.S. number **7440-66-6**

Legislative or regulation action

Product Name **Zinc**

C.A.S. number **7440-66-6**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
ESP	Sep 1967	Use of the following is prohibited in toys and accessories for children: lead, zinc and potassium alloys which contain more than 10% of these metals, even when coated with inert metals, arsenic and its compounds in whatever quantity, as well as the use of dyes containing antimony, arsenic, copper, mercury, uranium, over 1 per cent of lead, chromium oxide and soluble salts or barium carbonates, cadmium, chromium and zinc. (Reference: (ESPBC) El Codigo Alimentario Español, Ch.IX, , Sep 1967)

Product Name **Zinc phosphide**

C.A.S. number **1314-84-7**

Scientific and common names, and synonyms

PHOSPHURE DE ZINC (FRA)
TRIZINC DIPHOSPHIDE
ZINC PHOSPHIDE (ZN3P2)
ZINKPHOSPHID (DEU)
ZINKFOSFIDE (NLD)
ZINCO (FOSFURO DI) (ITA)
ZINC (PHOSPHURE DE) (FRA)

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
BLZ	28 Dec 1985	The substance is banned for use. Too toxic for domestic use; no antidote. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
PRT	1 Jan 1974	Pesticide banned as an ingredient in household products on account of its environmental/toxicological effects. (Reference: (PORTP) Comissao de Toxicologia dos Pesticidas, , , 21 Feb 1973)

Bibliographical references

FAO PLANT PRODUCTION & PROTECTION PAPER, 95, 39, 1989

Product Name **Zirconium and zirconium compounds**

C.A.S. number **7440-67-7**

Legislative or regulative action

Country	Effective Date	Description of action taken Grounds for decision
USA	Sep 1977	Withdrawn from the market and prohibited for export by the Food and Drug Administration on the basis of negative animal toxicity tests including the development of skin granulomas and toxic effects in the lungs and other organs, and an adverse benefit-to-risk ratio for humans. Zirconium compounds have caused skin granulomas and toxic effects in the lungs and other organs of experimental animals. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)
USA		Firework devices (except firecrackers) not otherwise banned as a hazardous substance must not contain zirconium and must conform to other application requirements. All such devices not conforming to the requirements are banned as hazardous and prohibited from interstate commerce. (Reference: (CFRUS) Code of Federal Regulations, 16(1507), 374, 1982)

Legislative or regulation action

Product Name **alpha-HCH**

C.A.S. number **319-84-6**

Scientific and common names, and synonyms

ALPHA-LINDANE
ALPHA-HEXACHLOROCYCLOHEXANE
ALPHA-HEXACHLORANE
ALPHA-HEXACHLORAN
ALPHA-BHC
ALPHA-BENZENEHEXACHLORIDE
ALPHA-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
BENZENE HEXACHLORIDE-ALPHA-ISOMER
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, ALPHA ISOMER
CYCLOHEXANE, ALPHA-1,2,3,4,5,6-HEXACHLORO
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, ALPHA
1-ALPHA,2-ALPHA,3-BETA,4-ALPHA,5-BETA,6-BETA-HEXACHLOROCYCLOHEXANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)

Bibliographical references

IARC MONOGRAPH, 5, 47, 1974
IARC MONOGRAPH, 20, 195, 1979
IARC MONOGRAPH, SUPPL.4, 133, 1982

Product Name **alpha-Naphthylthiourea (ANTU)**

C.A.S. number **86-88-4**

Scientific and common names, and synonyms

ALPHA-NAPHTHYLTHIOUREA
ALPHA-NAPHTHYLTHIOCARBAMIDE
ALPHA-NAPHTHOTHIGUREA
ANTU
N-(1-NAPHTHYL)-2-THIOUREA
THIOUREA, 1-NAPHTHALENYL-
UREA, 1-(1-NAPHTHYL)-2-THIO
1-NAPHTHYL-THIOHARNSTOFF (DEU)
1-NAPHTHYL THIOUREA
1-NAPHTHYL THIGUREE (FRA)
1-NAFTYLTHIOUREUM (NLD)
1-NAFTIL-TIOUREA (ITA)
1-(1-NAPHTHYL)-2-THIOUREA

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
POL		No longer used in sanitary hygiene. (Reference: (POLIP) Instytut Przemyslu Organicznego, , , 1987)

Legislative or regulation action

Product Name **alpha-Naphthylthiourea (ANTU)**

C.A.S. number **86-88-4**

Bibliographical references

IARC MONOGRAPH, 30, 347, 1983

Product Name **beta-HCH**

C.A.S. number **319-85-7**

Scientific and common names, and synonyms

BETA-LINDANE
BETA-ISOMER
BETA-HEXACHLOROCYCLOHEXANE
BETA-HEXACHLOROBENZENE
BETA-BHC
BETA-BENZENEHEXACHLORIDE
BETA-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
CYCLOHEXANE, BETA-1,2,3,4,5,6-HEXACHLORO
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, TRANS
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, BETA
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (BETA-ISOMER)
TRANS-ALPHA-BENZENEHEXACHLORIDE
1-ALPHA,2-BETA,3-ALPHA,4-BETA,5-ALPHA,6-BETA-HEXACHLOROCYCLOHEXANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)

Bibliographical references

IARC MONOGRAPH, 20, 195, 1979
IARC MONOGRAPH, SUPPL.4, 133, 1982

Product Name **delta-HCH**

C.A.S. number **319-86-8**

Scientific and common names, and synonyms

CYCLOHEXANE, DELTA-1,2,3,4,5,6-HEXACHLORO
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, DELTA-ISOMER
DELTA-LINDANE
DELTA-HEXACHLOROCYCLOHEXANE
DELTA-BHC
DELTA-BENZENEHEXACHLORIDE
DELTA-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
DELTA-(AEEEEEE)-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
1-ALPHA,2-ALPHA,3-ALPHA,4-BETA,5-ALPHA,6-BETA-HEXACHLOROCYCLOHEXANE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is

Legislative or regulation action

Product Name		delta-HCH
C.A.S. number		319-86-8
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
Bibliographical references		
IARC MONOGRAPH, 20, 195, 1979		
IARC MONOGRAPH, SUPPL.4, 133, 1982		
Product Name		gamma-HCH (Lindane) *
C.A.S. number		58-89-9
Scientific and common names, and synonyms		
BENZENE HEXACHLORIDE-GAMMA-ISOMER		
BENZENE HEXACHLORIDE, GAMMA		
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1.ALPHA.,2.ALPHA.,3.BETA.,4.ALPHA.,5.ALPHA.,6.BETA.)-		
CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO- (1ALPHA,2ALPHA,3BETA,4ALPHA, 5ALPHA,6BETA)-		
GAMMA-HEXACHLOROCYCLOHEXANE		
GAMMA-HEXACHLOROBENZENE		
GAMMA-HEXACHLORAN		
GAMMA-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE		
GAMMA BENZENE HEXACHLORIDE		
HEXACHLORAN		
LINDANE		
1-ALPHA,2-ALPHA,3-BETA,4-ALPHA,5-ALPHA,6-BETA-HEXACHLOROCYCLOHEXANE		
1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE,GAMMA-ISOMER		
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
CYP	12 Dec 1987	Severely restricted pesticide. Only formulations of Lindane containing less than 20% of gamma-HCH in gasoline or paints are registered for the protection of wood (control of termites and other insects). This use constitutes about 10% of all previously allowed uses. Risk associated with human health and the contamination of the environment, due to its persistence and accumulation of residues in mammalian tissues. (Reference: (CYPPCB) Decision of the Pest Control Products Board, , 1987)
DEU	1 Oct 1980	Anti-fouling paints which contain: mercury compounds, arsenic compounds, DDT, HCH, PCB, or PCT may not be used except when no substitute is available and permission is given by the appropriate authority. (Reference: (BGBL) Bundesgesetzblatt, IS.140, , 1982)
DEU	18 Jul 1986	Use is limited to 0.3% with the exception of shampoo, which may contain up to 1% since exposure time is limited to 4 minutes.
DNK	1 Jul 1995	The authorization for the product containing lindane as an active substance has been withdrawn from the market in 1995 and a further use of products containing lindane as an active ingredient has been banned from 01 July 1995. No uses are allowed. For other categories than agriculture a written authorization has to be obtained. No authorization are today given for other purposes. In oxygen-rich conditions in the soil, the persistence of lindane is not acceptable, with half-lives ranging from 42 to 980 days. In deoxidized conditions half-lives are assessed to be 37 days. Since lindane is not mobile, it will normally occur in the oxygen-rich upper soil layers. Lindane evaporates easily and thus spreads to non-agricultural areas. Moreover, lindane may easily accumulate in living

Legislative or regulation action

Product Name		gamma-HCH (Lindane) *
C.A.S. number		58-89-9
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
		animals. Lindane is very toxic to birds, and risk assessments indicate that it may be dangerous for birds to swallow dressed rape seed. Lindane is also very toxic to aquatic organisms. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
LKA	1 Aug 1986	Lindane is a severely restricted pesticide. All crop uses are banned. Use in shampoos allowed if approved by the Cosmetic Devices and Drugs Committee. All regulatory decisions have been made on the basis of published toxicological and exotoxicological data. (Reference: (LKAPFC) Meeting of the Pesticide Formulary Committee, , , 1986)
Bibliographical references		
FAO PLANT PRODUCTION & PROTECTION PAPER, 20, , 1979		
IARC MONOGRAPH, 20, 195, 1979		
FAO PLANT PRODUCTION & PROTECTION PAPER, 20 SUP., , 1979		
IARC MONOGRAPH, SUPPL.4, 133, 1982		
WHO GUIDELINES FOR DRINKING WATER QUALITY, 2, , 1984		
FAO PLANT PRODUCTION & PROTECTION PAPER, 99, 33, 1989		
FAO PLANT PRODUCTION & PROTECTION PAPER, 100, 199, 1990		
FAO PLANT PRODUCTION & PROTECTION PAPER, 100/2, 141, 1990		
IPCS ENVIRONMENTAL HEALTH CRITERIA, 124, , 1991		
IPCS HEALTH AND SAFETY GUIDE, 54, , 1991		
Product Name		o-Nitrobenzaldehyde
C.A.S. number		552-89-6
Scientific and common names, and synonyms		BENZALDEHYDE, 2-NITRO- 2-NITROBENZALDEHYDE
Legislative or regulatory action		
Country	Effective Date	Description of action taken Grounds for decision
@EC	31 Dec 1987	May not be used in jokes or hoaxes or in objects intended to be used as such, for instance as a constituent of sneezing powder and stink bombs. However, Member States may tolerate on their territory stink bombs containing not more than 1.5ml. (Council Directive 76/769/EEC - OJEC L262,201,1976 as last amended by the reference given). (Reference: (OJEC) Official Journal of the European Communities, L375, 1, 1985)
GBR	5 Feb 1985	Ban of supply of o-nitrobenzaldehyde for consumers. The substance is designed to afford amusement to any person by causing discomfort to any other person by means of inducing sneezing. Action taken for consumer protection. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **p-Aminodiphenylamine**

C.A.S. number **101-54-2**

Scientific and common names, and synonyms

N-PHENYL-P-AMINOANILINE
P-PHENYLENEDIAMINE, N-PHENYL-
P-ANILINOANILINE
4-AMINODIPHENYLAMINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
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SWE		Cosmetic and hygienic products may not contain this substance. (Reference: (SOSFS) Socialstyrelsens Foerfattningssamling, (M)89, 1, 1981)
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Product Name **p-Phenylenediamine**

C.A.S. number **106-50-3**

Scientific and common names, and synonyms

BASF URSOL D
BENZOFUR D
C.I. 76060
C.I. DEVELOPER 13
C.I. OXIDATION BASE 10
DURAFUR BLACK R
DEVELOPER 13
DEVELOPER PF
FUTRAMINE D
FURRO D
FUR YELLOW
FUR BROWN 41866
FUR BLACK 41867
FOURRINE D
FOURRINE 1
FENYLENODWUAMINA (POLISH)
FOURAMINE D
NAKO H
OXIDATION BASE 10
ORSIN
PELTOL D
P-BENZENEDIAMINE
PARAPHENYLEN-DIAMINE
P-AMINOANILINE
PHENYLENEDIAMINE, PARA, SOLID (DOT)
PELAGOL GREY D
PELAGOL DR
P-DIAMINO BENZENE
PELAGOL D
P-PHENYLENEDIAMINE (ACGIH)
PARA
PPD

Legislative or regulation action

Product Name **p-Phenylenediamine**

C.A.S. number **106-50-3**

Scientific and common names, and synonyms

RENAL PF
 RODOL D
 SANTOFLEX IC
 TERTRAL D
 USAF EK-394
 URSOL D
 UN 1673 (DOT)
 VULKANOX 4020
 ZOBA BLACK D
 1,4-BENZENEDIAMINE
 1,4-PHENYLENEDIAMINE
 1,4-DIAMINO BENZENE
 4-AMINOANILINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CHE	1972	The use of paraphenylene diamine, picric acid and other toxic substances which, when used as components of textile materials, are easily absorbed through the skin and liable to damage health, shall be prohibited for the treatment of articles of clothing. (Reference: (RSCHE) Recueil Systématique du Droit Federal, 814.839, , 1985)
LIE		Liechtenstein forms a customs and economic union with Switzerland; the same laws concerning chemicals apply. (Reference: (LIEAG) Administration Gouvernementale, , , 1987)
NZL	1978	Under the restricted drugs amendment, out of concern for public safety, every preparation containing this substance must be labelled "poisonous".
SWE		Cosmetic and hygienic products may not contain this substance. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Bibliographical references

IARC MONOGRAPH, 16, 125, 1978

Product Name **p-Toluylenediamine**

C.A.S. number **95-70-5**

Scientific and common names, and synonyms

P.M-TOLYLENEDIAMINE
 P-TOLUENEDIAMINE
 TOLUENE-2,5-DIAMINE
 2-METHYL-P-BENZENEDIAMINE
 2-METHYL-1,4-BENZENEDIAMINE
 4-AMINO-2-METHALANILINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE		Cosmetic and hygienic products may not contain this substance (except in hair dyes at concentrations up to 8%). (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Legislative or regulation action

Product Name **1,1,2,2-Tetrachloroethane**

C.A.S. number **79-34-5**

Scientific and common names, and synonyms

ETHANE, 1,1,2,2-TETRACHLORO-

ETHANE, 1,1,2,2-TETRACHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	7 Nov 1978	Halogen derivatives of hydrocarbons are prohibited for any lamp containing them for decorative purposes on the grounds that these chemicals are narcotic and very dangerous to health, in particular 1,1,2,2-tetrachloroethane, carbon tetrachloride, pentachloroethane and 1,1,2-trichloroethane. (Reference: (BELAR) Arrêté Royal, , , 07 Nov 1978) (Reference: (BELAP) Annales Pharmaceutiques belges, , , 07 Nov 1978)
CAN	Apr 1971	Under the conditions of the Hazardous Products Act, it is prohibited to advertise, sell or import products that consist of or contain carbon tetrachloride or 1,1,2,2-tetrachloroethane, or 5 parts per million or more ethyl bromoacetate, where such products are packaged as consumer products. (Section 12 and 20 of part I of the Schedule to the Hazardous Products Act).
GBR	1 Jan 1970	Agricultural, horticultural and home garden uses as an insecticide withdrawn. Action taken because the substance is an acute (narcotic) and chronic (liver damage) hazard to humans. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 20, 477, 1979

Product Name **1,1,2-Trichloroethane**

C.A.S. number **79-00-5**

Scientific and common names, and synonyms

ETHANE, 1,1,2-TRICHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
BEL	7 Nov 1978	Halogen derivatives of hydrocarbons are prohibited for any lamp containing them for decorative purposes on the grounds that these chemicals are narcotic and very dangerous to health, in particular 1,1,2,2-tetrachloroethane, carbon tetrachloride, pentachloroethane and 1,1,2-trichloroethane. Produces acute lung oedema when breathed in relatively high concentrations over quite a long time.

Bibliographical references

IARC MONOGRAPH, 20, 533, 1979

IARC MONOGRAPH, 52, 337, 1991

Product Name **1,1-dichloroethylene**

C.A.S. number **75-35-4**

Scientific and common names, and synonyms

ETHENE, 1,1-DICHLORO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of vinyl chloride is prohibited in the manufacturing of the following consumer

Legislative or regulation action

Product Name **1,1-dichloroethylene**

C.A.S. number **75-35-4**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
		products: articles in plastic material. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation du chlorure de vinylidène est interdite pour la fabrication des produits de consommation suivants: articles en matière plastique. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **2,4-Diaminoanisole**

C.A.S. number **615-05-4**

Scientific and common names, and synonyms

P-METHOXY-M-PHENYLENEDIAMINE
1,3-BENZENEDIAMINE, 4-METHOXY-
1,3-DIAMINO-4-METHOXYBENZENE
2,4-DAA
3-AMINO-4-METHOXYANILINE
4-METHOXY-M-PHENYLENEDIAMINE
4-METHOXY-PHENYLENEDIAMINE
4-METHOXY-1,3-BENZENEDIAMINE

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE	1 Jan 1985	2,4-diaminoanisole is severely restricted and may not be used without the permission of the National Board of Occupational Safety and Health. Substance proved to be a human carcinogen or to have carcinogenic effects in experimental animals. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)
SWE		Cosmetic and hygienic products may not contain this substance. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)
Bibliographical references		
IARC MONOGRAPH, 16, 111, 1978		
IARC MONOGRAPH, 16, 51, 1978		
IARC MONOGRAPH, 27, 103, 1982		

Product Name **2,4-Diaminotoluene**

C.A.S. number **95-80-7**

Scientific and common names, and synonyms

TOLUENE-,4-DIAMINE
1,3-BENZENEDIAMINE, 4-METHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
SWE		Cosmetic and hygienic products may not contain this substance. (Reference: (SOSFS) Socialstyrelsens Foerfattningsamling, (M)89, 1, 1981)

Legislative or regulation action

Product Name **2,4-Diaminotoluene**

C.A.S. number **95-80-7**

Bibliographical references

IARC MONOGRAPH, 16, 83, 1978

Product Name **2,4-Dinitroanisole**

C.A.S. number **119-27-7**

Scientific and common names, and synonyms

BENZENE,1-METHOXY-2,4-DINITRO-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	Pesticides for household and public health use containing this chemical have been banned for importation, exportation, manufacture and handling. Possible effects of the chemical on human beings are considered to be too dangerous to justify its use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **2-Phenyl cyclohexanol**

C.A.S. number **1444-64-0**

Scientific and common names, and synonyms

CYCLOHEXANOL, 2-PHENYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	Pesticides for household and public health use containing this chemical have been banned for importation, exportation, manufacture and handling. Possible effects of the chemical on human beings are considered to be too dangerous to justify its use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name **3,3'-Dimethoxybenzidine in sneezing preparations**

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
CAN	Jan 1981	Under the conditions of the Hazardous Products Act, it is prohibited to advertise, sell or import any substance used to induce sneezing , whether or not called "sneezing powder", that contains this chemical or any of its salts.

Product Name **4-Aminodiphenyl**

C.A.S. number **92-67-1**

Scientific and common names, and synonyms

P-XENYLAMINE
P-PHENYLANILINE
P-BIPHENYLAMINE
P-AMINODIPHENYL
P-AMINOBIIPHENYL
XENYLAMINE
[1,1'-BIPHENYL]-4-AMINE

Legislative or regulation action

Product Name **4-Aminodiphenyl**

C.A.S. number **92-67-1**

Scientific and common names, and synonyms

(1,1'-BIPHENYL)-4-AMINE (9CI)

4-PHENYLANILINE

4-BIPHENYLLAMINE

4-BIPHENYLAMINE (8CI)

4-AMINOBIIPHENYL

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
DZA	28 Jan 1995	The use of this substance is prohibited in the manufacturing of the following consumer products: all consumer products. All of the other uses are still authorized. This measure is based on the health risks described in the bibliography. (L'utilisation de cette substance est interdite pour la fabrication des produits de consommation suivants: tout produit de consommation. Toutes les autres utilisations sont encore autorisées. Cette mesure repose sur les risques pour la santé décrits dans la bibliographie.) (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Bibliographical references

IARC MONOGRAPH, 1, 74, 1972

IARC MONOGRAPH, SUPPL.4, 37, 1982

Product Name **4-methoxy-3-methylacetophenone**

C.A.S. number **10024-90-5**

Scientific and common names, and synonyms

ACETOPHENONE, 4'-METHOXY-3'-METHYL-

Legislative or regulatory action

Country	Effective Date	Description of action taken Grounds for decision
THA	2 May 1995	Pesticides for household and public health use containing this chemical have been banned for importation, exportation, manufacture and handling. Possible effects of the chemical on human beings are considered to be too dangerous to justify its use. (Reference: (EP1) UNEP/FAO - PIC Circular X - 12/1999, , ,)

Product Name 1,1,2,2-Tetrachloroethane
C.A.S. number 79-34-5

Trade and brand names

Bonoform	Cellon	Bonoform
Cellon	Bonoform	Cellon

Enterprise Name	Based in	Trade Name
ENI SPA	ITA	
FISHER SCIENTIFIC CO.	USA	
MERCK KGaA	DEU	
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 342

Product Name 1,2-Dibromo-3-Chloropropane (DBCP)
C.A.S. number 96-12-8

Trade and brand names

Aqro-sano dbcp	Bbc 12	Femalour I
Fumaqon	Fumazone 86 e	Nemabrom
Nemacur	Nemacure tecnico	Nemafume
Nemaqon	Nemahuil 81.2	Nemanax
Nemapaz	Nemaset	Nematocide
Nemato-iansa 500	Nematoquim 25	Nematozol
Nemazol	Nemazon	Os 1897
Oxy dbcp	Super nematon	

Enterprise Name	Based in	Trade Name
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 342

Product Name 2,4,5-T *
C.A.S. number 93-76-5

Trade and brand names

Aaherba-dpt-fluid	Aherba-mpt-fluid	Alltex super flow
Amine 2,4,5-t for rice	Anikil 5	Arboricida z
Arboricida-z	Arbustol	At 3020
Ban-dock	Basagran plus	Bcf-bushkiller
Blackentilger fluessig/anti-rumex liquid	Brennesselgranulat spiess urania	Brush killer
Brush rhap	Brush-off 45 low volatile brush killer	Brush-tox
Celatox tm	Cla 6909h	Crystal t-500
D2-t2	Dacamine	Debrousol l.v.
Debroussailant as	Debroussailant I	Debroussailant p 80
Debroussailant 4323	Debroussailant concentre	Debroussailant q 2
Decamine 4t	Ded-weed brush killer	Devit 400/700
Dicopur spezial	Dicotex royal	Dikofaq mpt fluessig
Dikofaq tm	Dpt fluessig	Durtok 2-1
Envert-t	Erpanol combi	Espanol-combi
Esteral 2-1	Esteral 5	Estericide t-245
Esteron	Esteron 2 4 5	Esteron brush killer os
Esteron mataarbustos 2-1	Esteron mataarbustos 50-50	Extin 50 wp
Falitox mpt fluessig	Farmco	Farmco fence rider

Product Name 2,4,5-T *
C.A.S. number 93-76-5

Trade and brand names

Farron	Fedearroz 400	Fence rider
Fenotri	Forron	Forst u-46
Fortex	Fruitone a	Gesinal
Gold coin 2,4,5-t	H emas weedone	Hedapur dpt fluessiq
Hedapur mpt fluessiq	Herbamix-dpt 450	Herbamix-mpt 350
Herbicida mataarbustos	Herbicruz arbustos a-35	Herbizid-marks mpt
Herbotox bv	Hierbattox 2-1	Hora kv-t
Invert 155	Inverton 245	Jetfix dpt
Lainqord	Lignopur d neu	Line rider
Low volatile ester	Luoxyl	Luxan 2,3,5-t liquide
Marks brushwood killer	Mata arbustos baja volatilidad 21	Matacombinado
Matamaleza	Mcpp + 2,4,5 -t sandoz	Mouticida
Mpt fluessiq	Mt 24-13 wacker	Phortox
Phytosyl broussaille	Primatol bb	Primatol forte
Proponex dpt	Proponex tm spezial	Reddon
Reddoox	Rhodia low volatile brush killer no. 2	Rubox t
Rushtox	Salital	Saminol extra spritzpulver
Sekuron tm	Selectox royal	Selest
Semparol	Semparol 1167 spritzpulver	Sepimone debroussaillant
Shell dp-t	Shell mp-t	Silvapron t
Sper d weedon	Spica 400	Sponto 234 300 900
Spontox	Superbhex	Sylvoxone 850
Synpran 111	Ternet debroussaillant	Tesoxane
Tippon	Tm berghoff	T-nox
Top kh schering	Tordon 225	Tormona 100
Tormona 80	Transamine	Tributon 60 ec
Tributyl	Trifen/trioxone	Trinoxol
Trixoxone	Trixoxyl	U 46
U 46 brushkiller	U 46 especial	U-46-kv t fluid
Unkraut-vernichter fuer den rasen	Utox bk	Vaisoxan 250
Veon	Verton 2t	Visko rhap low volatile ester
Weedar	Weedone	Weedone debroussaillant
Yerbavin		

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS	USA	
UNITED-GUARDIAN, INC		

For regulatory information, see page 348

Product Name 2,4-DB
C.A.S. number 94-82-6

Trade and brand names

2,4-db	Aqrichem db plus	Alistell
Amigram	Barcotex	Bell clo
Butirex	Butoxon	Butyrac
Butyrac 118	Campbell's redgor	Campbell's db datraight
Campbell's redgor	Clovacorn extra	Embutone
Embutone as	Embutox	Farmon 2,4-db plus
Horco I	Legumex extra	Malerbane prati

Product Name 2,4-DB
C.A.S. number 94-82-6

Trade and brand names

Malerbane prati s	Mindex 50 as	Mss 2,4-db + mcpa
Sys 67 b	Sys 67 buctril db	Sys buratal
Topshot		

Enterprise Name	Based in	Trade Name
BASF AG.	DEU	Campogran
RIVERSIDE/TERRA CORP.	USA	2,4-DB 200

For regulatory information, see page 353

Product Name 2,4-Diaminoanisol
C.A.S. number 615-05-4

Trade and brand names

C.i. 76050	C.i. oxidation base 12	Furro I
C.i. oxidation base 12	Furro I	Pelaqol da
Pelaqol da	Pelaqol grey I	C.i. 76050
Pelaqol grey I		

Enterprise Name	Based in	Trade Name
MERCK KGaA	DEU	

For regulatory information, see page 445

Product Name 2,4-Dinitrophenol
C.A.S. number 51-28-5

Trade and brand names

2,4-dinitrophenol	Aldifen	Chemox pe
Dinofan	Fenoxyl carbon n	Nitro kleenup
Solfo black b	Tetrasulphur black pb	

Enterprise Name	Based in	Trade Name
ICN PHARMACEUTICALS INC.	USA	
MALLINCKRODT, INC.		
MERCK KGaA	DEU	
MITSUI & Co., Ltd	JPN	
PFALTZ AND BAUER INC	USA	

Aldifen Tech

SIGMA-ALDRICH FINE CHEMICALS
 UNITED-GUARDIAN, INC

For regulatory information, see page 354

Product Name 2-Methoxyethylmercury chloride
C.A.S. number 123-88-6

Trade and brand names

Aqallol	Aqallolat	Aretan 6
Atiran	Baqalol	Cekusit universal c
Ceranit	Ceranit 12	Ceresan universal wet
Ceresan universal-nassbeiz	Chelasan	Curesan
Emisan 6	Gramisan	Higosan
Merchlorate	Panogen m	Sedresan
Tafasan 6w	Tayssato	Vegoll

Product Name 2-Methoxyethylmercury chloride
C.A.S. number 123-88-6

Trade and brand names

For regulatory information, see page 356

Product Name 3,3'-Dichlorobenzidine
C.A.S. number 91-94-1

Trade and brand names

Curithane c 126

For regulatory information, see page 447

Product Name 4-Dimethylaminoazobenzene
C.A.S. number 60-11-7

Trade and brand names

Butter yellow	C.i. 11020	C.i. solvent yellow 2
Cerasine yellow qq	Dab	Dimethyl yellow
Dmab	Enial yellow 2q	Fast oil yellow b
Fat yellow	Fat yellow r	Grasal brilliant yellow
Iketon yellow extra	Methyl yellow	Oil yellow 20
Oil yellow 2625	Oil yellow 2q	Oil yellow bb
Oil yellow d	Oil yellow fn	Oil yellow q
Oil yellow ii	Oil yellow n	Oil yellow pel
Oleal yellow 2q	Organol yellow adm	Orient oil yellow qq
Petrol yellow wt	Resinol yellow qr	Silotras yellow t 2q
Somalia yellow a	Stear yellow jb	Sudan yellow qq
Toyo oil yellow q	Waxoline yellow ads	Yellow q soluble in grease

Enterprise Name	Based in	Trade Name
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BASF AG.	DEU	
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 450

Product Name Acrylonitrile
C.A.S. number 107-13-1

Trade and brand names

Acritet	Acrylofume	Carbacry
Ventox		

Enterprise Name	Based in	Trade Name
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ASAHI CHEMICAL INDUSTRY CO. LTD., (AS	JPN	
BASF AG.	DEU	
BAYER AG.		
BP AMOCO PLC	GBR	
DSM NV	NLD	
E. I. DUPONT DE NEMOURS & CO.	USA	
E.ON AG	DEU	acrylonitrile
ENI SPA	ITA	
FISHER SCIENTIFIC CO.	USA	
HELM AG	DEU	
ISCA UK Ltd.	GBR	
KANEMATSU CORPORATION	JPN	
MARUBENI CORPORATION		

Product Name Acrylonitrile
C.A.S. number 107-13-1

Trade and brand names

Enterprise Name	Based in	Trade Name
MERCK KGaA	DEU	
MITSUBISHI CHEMICAL CORPORATION	JPN	
MITSUBISHI RAYON CO., Ltd.		
MITSUI & Co., Ltd		
NEFTOCHIM	BGR	
REPSOL-YPF, S.A.	ESP	
SHOWA DENKO K.K.	JPN	
SIGMA-ALDRICH FINE CHEMICALS	USA	
SUMITOMO KAGKU KOGYO (SUMITOMO CH	JPN	
TOKYO KASEI KOGYO Co. Ltd.		
WHYTE CHEMICALS Ltd.	GBR	

For regulatory information, see page 38

Product Name Alachlor
C.A.S. number 15972-60-8

Trade and brand names

Afalon-kombi	Aqaril	Aqer alachlor
Alacolor & atrazina ba	Alacolor bayer	Alagrex
Alagrex extra	Alahlor e-48 zupa	Alahlor ec-48
Alaklor ec-48	Alaklor/atrazin-t	Alaklor/radazin-t
Alaklor-48	Alanex	Alanex 48 ec
Alanox	Alapin	Alarsol
Alasip	Alazine	Alazin-wp
Alfanje	Aracloro super	Atralax
Bravo	Brida	Chimiclor
Ciatral cs-i	Cropstar	Espot
Fitosanitarios	Hermais	Hermithor
Hiaclor	Ipiclor	Lagran
Lariat	Lasso	Lasso + atrazina
Lasso 10 q ec	Lasso at	Lasso ec
Lasso qd	Lasso qd granule	Lasso lasso/linopin-ec
Lasso n 40 ec	Lasso/10-q	Lasso/atrazin fluessiq
Lasso/atrazin-q	Lasso/atrazin-ks	Lasso-ec
Lazo	Lazo granulade	Lisamon
Malertox mais I	Naworol	Nudor
Nudor extra	Pillarzo	Primdal
Propaclor doble	Rambo	Satoklor
Satoklor 480 ec	Traton	Trilox
Trilox agro	Zeachlor	Zelas
Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Naworol Microincapsulato
CONAGRA INC.	USA	Stall
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Alanex EC
		Alanex Technical grade
		Alazine
MICRO FLO COMPANY	USA	Alachlor 4EC
PHARMACIA		

Product Name Alachlor
C.A.S. number 15972-60-8

Trade and brand names

Enterprise Name	Based in	Trade Name
		Bronco
		Bullet
		Freedom
		Lariat Flowable
		Lasso
		Lasso II Granular
		Lasso Micromix
		Lasso Microtech
		Lasso Microtech DF
		Lasso MT
		Lazo (Micro Tech)
		Micro-Tech
		Partner WGD

SIGMA-ALDRICH FINE CHEMICALS

TH INTERNATIONAL HOLDING B.V.

NLD

For regulatory information, see page 38

Product Name Aldicarb
C.A.S. number 116-06-3

Trade and brand names

Aqral	Aldecarbe	Aldicarb
Aldicarb 10 g	Aldicarb union carbide temik 5 g	Ambush 12
Carbamolate	Carbanolate 12	Cebeco ad
Cebeco-aldicarb 10 g gypsum	Oms	Sentry
Temik	Temik	Temik 10 g
Temik 10 g gypsum	Temik 10 granulat	Temik 15 g
Temik 150	Temik 5 g	Temik q
Temik ld	Temik m	Tranid
Uc 21149	Union carbide 21149	

Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Temik
CEBECO-HANDELSRAAD	NLD	Mitigan (Acarin) Technical
SIGMA-ALDRICH FINE CHEMICALS	USA	Aldicarb, 1MG, NEAT

For regulatory information, see page 39

Product Name Aldrin *
C.A.S. number 309-00-2

Trade and brand names

Aqrichem aldrin 30	Al 120	Aldersten ec 30
Aldocit	Aldrex	Aldrex
Aldrex 2 emulsion	Aldrex 30	Aldrex 40
Aldrex 5	Aldrex 600	Aldrex streu- und staeubemittel
Aldrimul	Aldrin 1.25% dust	Aldrin 30
Aldrin dispersivel	Aldrin dust	Aldrin reis
Aldrin sandoz	Aldrin tecnico	Aldrine-sandoz
Aldripoudre g	Aldrite	Aldrosol

Product Name Aldrin *
C.A.S. number 309-00-2

Trade and brand names

Algran	Alttox	Altrite
Banqald	Brabant aldrin stuif 2.5%	Compound 118
Drinox	Farmon aldrin 30	Geiqy 95
Hhdn	Hortaq aldrin dust	Kortofin
Luxan aldrin 2.5% strooipoeder	Murphy aldrin dust	Octalene
Rasayaldrin	Sd 2794	Seedrin liquid
Shell aldrin stuifpoeder 2.5%	Soilgrin	Solodrine
Supradine	Tatuzinho	Tipula

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS VULCAN MATERIALS COMPANY,	USA	

For regulatory information, see page 42

Product Name alpha-Naphthylamine
C.A.S. number 134-32-7

Trade and brand names

C.i. 37265	C.i. azoic diazo component 114	Fast garnet base b
Naphthalidam		

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 433

Product Name alpha-Naphthylthiourea (ANTU)
C.A.S. number 86-88-4

Trade and brand names

Alrato	Antu	Anturat
Antu	Anturat	Bantu
Bantu	Chemical 109	Dirax
Chemical 109	Dirax	Kill kantz
Kill kantz	Kripid	Krysid
Kripid	Krysid	Naphtox
Naphtox	Rattrack	Rat-tu
Rattrack	Rat-tu	Seesana
Seesana	U-5227	Alrato
U-5227		

Enterprise Name	Based in	Trade Name
PFALTZ AND BAUER INC	USA	

For regulatory information, see page 332

Product Name Aluminium phosphide
C.A.S. number 20859-73-8

Trade and brand names

Al-phos	Celphide	Celphine
Celphos	Cyanosil	Delicia
Deliciabeutel	Delicia gastoxin	Delicia gas-toxin
Delicia gas-x-t	Delicia korkaeferbgasungspraeparat	Delicia tasak
Delicia-beutel	Detia gas ex b	Detia gas ex-b

Product Name Aluminium phosphide
C.A.S. number 20859-73-8

Trade and brand names

Detia gas ex-t	Detia gas-ex-b	Detia pellets fosfamina
Detia tasak	Detia-beutelrolle	Detia-kornmotten-gas-ex
Fumitoxin	Fumitoxin comprimés	Fumitoxin pastilles
Fumitoxine comprimés	Fumitoxin	Gastion
Gastoxin	Kiltin fosforbrinte	Luxan mollentabletten
Mortalin muldvarpe-oq-mosegrise gas	Neudophosphid s	Neudo-phosphid s
Neudorosphid 5	Phoatoxin	Phosfume
Phostosin	Phostosin pilule	Phostoxin
Phostoxin degesch mod kornskadedyr	Phostoxin degesch muldvarpegift	Phostoxin pellets
Phostoxin wmr	Phostoxin-beutel	Phostoxin-pilule
Phostoxin-plates + cyanosil	Phostoxin-plates + zyklon	Phostoxin-prepacs + zyklon
Phostoxin-prepacs+zyklon	Phostoxin-t	Phostoxin-tabletten+haltox
Phstoxin tabletten	Quickphos	Reducymol
Rentokil phostoxin	Skadedyrcentralens delicia gastoxine	Skadedyrcentralens delicia-gastoxin m
Super-schachtox	Tanaco patners gastoxin mod kornskd	Tanaco-partners gastoxin mod kornska
Tritox	Wuehlmaus pille	Zedesa pellets
Zedesa-tabletten	Zuf-fosforbrinte	Zyklon
Zyklon b		

Enterprise Name	Based in	Trade Name
DETIA DEGESCH	DEU	
ICN PHARMACEUTICALS INC.	USA	
PFALTZ AND BAUER INC		

For regulatory information, see page 48

Product Name Aminocarb
C.A.S. number 2032-59-9

Trade and brand names

A 363	Bay 44646	Matacil
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For regulatory information, see page 49

Product Name Amitraz
C.A.S. number 33089-61-1

Trade and brand names

Acadrex	Acarac	Acarex 20
Actx	Amitraz estrella	Asepta tetranx
Azadieno	Baam	Bizlce
Bumetran	Ecto-dex	Edrizar
Foracren 20 ec	Lan	Maitac 20
Mitac	Mitac 20	Mitac 20 ce
Mitac 20 ec	Mitac 20% ec	Mitex 20 ec
Taktic	Tic	Triatox
U-36059	Vamin	

Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Bumetran Mitac W Ovasyn
NUFARM	AUS	Opal DUO

Product Name Amitraz
C.A.S. number 33089-61-1

Trade and brand names

Enterprise Name	Based in	Trade Name
		Opal EC
		Opal ULV

For regulatory information, see page 49

Product Name Amitrole
C.A.S. number 61-82-5

Trade and brand names

3,a-t	371 dba	371 dbh
Aa 104560 h	Aa 10460 h	Aa tisin
Aa tisin spuitbus	Aadimitrol	Aadimitrol fluessiq
Aadimitrol-sb	Aakarzol	Aamitrol vloeibaar tc
Aavarol vloeibaar	Aqrichim amitrol liquide	Aqrosyl sm wp
Aqrosyl wp	Alcatraz	Alltex super flow
Amerol	Amidron wp	Aminalon ultra d
Amino dhai	Aminosol	Aminosin super
Aminotriazol	Aminotriazol 'bayer'	Aminotriazol gorsac
Aminotriazol permutadora	Aminotriazol spuitpoeder bayer	Aminotriazol valaqro
Amitra	Amitra concentre liquide	Amitrex
Amitril 90	Amitril tl	Amitrol
Amitrol 50 h.b.	Amitrol t	Amitrol tl chimac
Amitrol vl	Amitrol-vl	Amizina
Amizine	Amizol	Amizol forte
Amizol h	Amozol 60 wp	Anox m
Anox m granulat	Anox s-granulat	Aran wp
Asepta tetranx	At 3020	At liquid
Ata	Atauron 40-20	Atazel 90
Atlazin	Atlazin flowable	Atol sc
Atraflo plus	Atraflow plus	Atrall flowable
Atralon wp	Atramin 54 wp	Atrizol 95
Azaplant	Azaplant kombi	Azolan
Azole	Baysol desherbant liquide	Baysol desherbant total
Baysol desherbant total 60	Baysol desherbant total liquide	Blitol-total-unkrautfrei wege
Boutanex	Boutanex flow	Brabant amitrol extra
Brabant amitrol vloeibaar	Bullseye	Bullseye cda
Bundasol ad 25-25	Butazol	Butazol zx
Caliser 20-50	Caliser 90	Campaprim s
Carazol	Certicide	Certricide
Chemelin	Chimazole ta	Cidax tl
Cilezol	Cimeka tx	Cirex op
Clairsol	Clairsol 85	Cleanazole
Cleanazole ta	Cleanweed	Cleanweed I
Clearway	Compo super herbicide total	Compo total-unkrautmittel
Compo total-unkraut-spray	Cutralin	Cutralint
Cytrole	Das 65 wp	Datapron
Datapron ec	Dendrozal-70	Desherbant ideal s
Desherbant liquide 50 50	Desherbant total granule s	Desherbant totol s umupro
Diaminoagrex	Diaryl wp	Diatan

Product Name	Amitrole	
C.A.S. number	61-82-5	
Trade and brand names		
Dimatrol special	Dirazol x	Ditrol
Diurrol	Diuron super	Domatol
Domatol spezial	Drb 153	Edol
Edrizar	Egesa total-unkrautvernichter	Eldol
Elmasil	Emisol	Erditotal
Ermatol	Ervax 4020	Ervisan
Etizol	Etizole	Extragri
Extragri el	Extraminol el	Extravril el
Farabin	Farmco	Farmco amitrol t
Farmco amazine aa	Fenamin	Fenavar
Finamine	Fison Herbixol	Fisons desherbant total s liquide
Fisons herbazin plus sc	Fisons herbazin special	Fisons hernazin plus
Fisons mauvaises herbes	Fisons new improved problem weeds k	Fisons path spot weed killer
Fisons path weeds killer	Fisons total unkraut spray	Fisons total-ukrautvernichter
Fisons total-unkrautvernichter	Foracren 20 ce	Frankol-i-granulat neu
Gallusane 40	Gallusane I 40	Gallusine pm
Galluzole ta	Geigy ukurchtsmiddel	Gesopral 90
Granamet-t	Granusol total	Granutex
Groundhoq	Harilad 60 q.o.p.	Harilak 60 q.o.p.
Hedit neu	Herba total	Herban 52 wp
Herbicida as-50	Herbicida citricos	Herbicida t super
Herbicida total 25-25	Herbicruz duat	Herbidal total
Herbifruit doble	Herbilane	Herbilane forte
Herbinexa-ms	Herbiobro doble 25-25	Herbirail tx
Herbitrol	Herbitrol 90	Herbivinha
Herbizole	Herbotal	Herbotal concentrado
Hergaroz	Heritrol pm	Hermoo amitrol tl
Hertac	Hertin atrami el	Hertin spring el
Hertirol forte-flow	Hertox	Hertyl
Herzol forte-flow	Hytrol	Integral hebazol
Jardi desherbant total	K-15	Kabaprim
Kabaprim 1544	Karpesin ad	Katben
Kb herbonex deshebant total	Kb herbonex desherbant total	Kb herbonex granule
Kb herbonex granules	Kb mauvaises herbes	Keytrol
Kleer-lot	Kortal	Kvk amitrol 95
Kytrol	Kytrol sd	Labiazole ta
Labo'sol I	Liro amitrol	Lobo'sol pm
Luxan amitrol 75% spuitpoeder	Luxan amitrol 75% sputpoeder	Luxan sitrol qpuitpoedereder
Luxan sitrol spuitpoeder	Luxan uracom spuitpoeder	Luxan uracum spuitpoeder
Maiblu total-ukrautfrei gegen	Minazol	Mitac 20
Mitchell 360	Mitron 70 wp	Mizol
Neterox	Novaxon m	Novorail
Nu-sol	Nu-sol sr	Occi 1018 desherbant total
Occi total herbes poudre mouillable	Olivar 50 wp	Olmex g
Olmex liquid	Olmex liquide	Olmex-super
Orbitox neu	Orchard herbicide	Orga-414
Oterb	Pathclear	Phyt cide truffaut
Polytril liquide	Primatol 21	Primatol 220
Primatol ad 85 wp	Primatol ata	Primatol ata granules

Product Name	Amitrole	
C.A.S. number	61-82-5	
Trade and brand names		
Primatol se 500 fw	Primatol td 400	Prolan doble
Radoxone tl	Remizol	Remuron tx
Repto	Saminol	Saminol 1089
Saminol 2702	Saminol 40/20 liro	Sani atl
Sani atlc	Sanizole ta	Sarapron
Seltoran 80 wp	Serasol	Seumin
Siaazol wp	Silvicide	Simalon wp
Simanix wp	Simata	Simatrin 54 wp
Simatrol	Simatrol 55 wp	Simazol
Simazole	Simex wp	Simflo plus
Simflow plus	Sitracon	Snapper cda
Solchim I	Solchim lc	Solnet choc 2 liquide
Solnet granule desherbant total	Solution concentrate t271	Soria
Sovisol liquide	Sovisol pm	Sparton 55 qr
Spica 103 suspension	Spica 103 vps	Spica liquide
Spicadam	Spicafor	Spicaqgrass pm
Spicamat	Spicatrak	Sumex-ata
Super herbicide liquide	Super herbicine liquide	Super herboxy
Super herboxy desherbant total	Super herboxy granule	Super remuron liquide
Super sanzerb	Super solnet entretien liquide	Super ternet entretien liquide
Super vaisoxan liquide	Sup'erb	Surfassol
Td 82	Terbuclor	Ternet choc 2 liquide
Ternet graminees aqua	Ternet granule super	Terponel liquide
Terzyne	Topazol h	Topazol tl liquide
Torapron	Torpi pa	Total weed
Total-unkrautvernichter ektorex	Total-unkrautvernichter ektorex	Tradianol dc
Triadiazole ta	Traubinol	Triazol super
Triazolamine	Trinovin	Trisila
Troxex	Tue-herbe 80 granule	Unkrauteur auf qwgen und plaetzen
Unkraut-ex'frappant	Unkrautvernichtungsmittel 371	Unkrautvernichtungsmittel 447-68 dbs
Ustilan	Ustilan qw20	Ustilan t6-granulat
Ustinex	Ustinex f	Ustinex ql
Ustinex kr	Ustinex pa	Ustinex pa spuitpoeder
Ustinex speciaal	Ustinex t granulat	Ustinex t-gr
Vaisoxan suspension	Vamitrol	Vegestop 225
Vegestop d 874	Veqosol td	Vinaqard
Vinerba d	Vinidor	Vinoril wp
Vitosan td	Vorox (i) 630	Vorox (i) granulat
Vorox (i) granulat 371 streumittel	Vorox (s) neu	Vorox plus
Vorox plus fluessiq konz	Vorox td	Vorox unkrautvertilger
Wedazol tl	Weedar ads super	Weedar ata tl
Weedazat tl	Weedazol	Weedazol super
Weedazol super granule	Weedazol td	Weedazol tl
Weedazol ts	Weedazol-tl	Weedex
Weedex granulat	Weedex poudre	Weedoclor
Widol	X-all liquid	Zanovit td
Zanovit-td	Zizol	Zizole
Zolezine	Zolzine	

Product Name Amitrole
C.A.S. number 61-82-5

Trade and brand names

Enterprise Name	Based in	Trade Name
BASF AG.	DEU	
BAYER AG.		Advance Rapir WG Stall
FISHER SCIENTIFIC CO.		
ICN PHARMACEUTICALS INC.	USA	
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Azolan SP Azolan Technical Grade Simazol SL Simazol WP
NUFARM		Amitrole T Nu-Zinole AA Flowable
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		
TOTALFINAELF	FRA	

For regulatory information, see page 50

Product Name Anabasin
C.A.S. number 494-52-0

Trade and brand names

Canabasin

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 51

Product Name Aramite
C.A.S. number 140-57-8

Trade and brand names

88r	Acaracide	Aracide
Aramit	Aramite	Aratrion
Aratron	Ces	Compound 88r
Niaqaramite	Niaqarmite	Ortho-mite

For regulatory information, see page 52

Product Name Arsenious acid, sodium salt
C.A.S. number 14060-38-9

Trade and brand names

Arsenaqrex sodico	Arsenat	Arsenicros
Arsenito ert	Arsenito sodico	Permussenito
Prodalomnol double	Pyral rep double	Pyralesca r
Pyralumnol 2000	Pyrsarsene concentre	Radox-ameisenfresslack d 1

Enterprise Name	Based in	Trade Name
MALLINCKRODT, INC.	USA	

For regulatory information, see page 57

Product Name Asbestos (Crocidolite *)
C.A.S. number 1332-21-4

Trade and brand names

Acid washed Amphibole Acid washed
 Amphibole

Enterprise Name	Based in	Trade Name
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ASARCO INC.	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 360

Product Name Azinphos-ethyl
C.A.S. number 2642-71-9

Trade and brand names

Aqrotox 50 siapa	Azin 40 ec	Azinophos-ethyl
Azinos	Azintox-e-fc	Bionex
Contex	Contion-ethyl ec	Cotinon-ethyl
Dianazinophos e-40 ec	Ertazinofos le	Ethyl contion 20 ec
Gusagrex 2	Gusapor	Guset ec
Gusethyl 40 ec	Gutex	Guthyl extra wp
Insectisol liq	Kition-e ec	Lathion 40 ec
Lathion combi wp	Merphitheio ec	Taxene
Toxation etil		

Enterprise Name	Based in	Trade Name
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MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Vapam
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 58

Product Name Azinphos-methyl
C.A.S. number 86-50-0

Trade and brand names

Aasectin	Acifon 20 pm	Aqer azimetil 20 ec
Aqronexa m pm	Amirox	Asepta azinphos-methyl
Azidem	Azifene pb	Azimet pb
Azimet wp	Azimil 20	Azin 25 wp
Azin pb 30	Azinfene liquido	Azinfene pm
Azinfol 20 pm	Azinfos 25m schering	Azinophos-metile
Azinphos m	Azinphos-d-agriben	Azinprop
Azinuqec	Azinuqec poudre mouillable	Aziser 25 pb
Azithion	Azithion pb	Bafos
Benzafos	Brabant azinfos-methyl	Carfene bouilie concentree
Cerathion pb	Chimition	Coopazinfos le
Corpathion	Cotnion	Cotnion m 25
Cotnion m 50	Cotnion methyl	Cotnion-ethyl- methyl 40 wp
Croszintox 20 pm	Crysthion 2l	Cuisathion 25 wp
Dbd	Dianazinophos special 40 ec	Dianazinophos special wp
Dianazinphos special 40 ec/wp	Duphar azinfos spuitpoeder	Duphar azinfos/dimethoaat
E-m 40 ec	Fosazin 20 pm	Fosvan
Gothnion	Gupol 25	Gusacarb
Gusadeen	Gusagrex 2 ,m,	Gusagrex 20 le
Gusathion	Gusathion k forte	Gusathion m

Product Name	Azinphos-methyl	
C.A.S. number	86-50-0	
Trade and brand names		
Gusathion m 40	Gusathion m wp 25	Gusathion methyl wp 25
Gusathion ms	Gusathion perfekt	Gusathion spritzpulver
Gusation ruiskutejauhe	Gusation-ruiskutejauhe	Gusatox ms
Gusmethyl 20 ec	Gutam	Gutene
Guthiben	Guthion	Guthyl extra wp
Insecticida tilfos pm	Insecticida tolfos le	Kition 30
Laitom	Lathion combi wp	Lathion metil
Liro azinphos	Luxan asinphos spuitpoeder	Luxan azinphos 25%
Luxan azinphos 25% spritzpulver	Luxan azinphos spuitpoeder	Luxan azinphos-d-spruitpoeder
Megatox ec	Metafos	Metafos pm
Metathion pb	Metazin 20 le	Metazintox 20
Methyl cotinon 20 ec	Methylazinphos	Methylqusathion
Metilazinphos hl 25	Metil-cotnion 25 wp	Metilfit
Metiltriazotion	Metoxid	Multapon
Orofos 20 le	Pamir	Pancid pm
Pancide	Patatol metazintox 20 pm	Plk-azinphos-methyl 50
Probel q-20	Prpbel q-3	R 1582
Raqumon pb 25	Remaphos	Rhodiattox kombi
Rhoiattox kombi	Rospin	Rumition pb
Sandomit	Sartion	Sepizin ac
Sepizin m	Shell azinphos spuitpoeder	Solthion 25 wp
Solthion 25wp	Stizinfos 25	Supervelax 20
Supervelax 20 pm	Techn'inphos pm	Thione 20
Tiornide	Toxation m20	Toxation pb/m 20
Toxatrin 25wp	Verdecion az pm	Verdecion az-20 le
Verdecion az-20 pm	Zeltiafos 20 pm	

Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Gusathion perfekt
		Gusathion Polvo Bagnabile
		Guthion 2L
		Guthion 2s
		Guthion 3 Flowable
CONAGRA INC.	USA	Guthion 50% Wettable Powder
		Sniper 50W Azynphos Methyl
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Cotnion-Methyl Dust formulation
		Cotnion-Methyl EC
		Cotnion-Methyl SC
		Cotnion-Methyl Technical Grade
		Cotnion-Methyl WP
MICRO FLO COMPANY	USA	Vapam HL
		Azinphos Methyl 2 EC
		Azinphos Methyl 50W soluble
PILKINGTON BROTHERS LTD.	GBR	
ROHM & HAAS CO.	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 59

Product Name Azobenzene
C.A.S. number 103-33-3

Trade and brand names

Azobenzol

Enterprise Name	Based in	Trade Name
PFALTZ AND BAUER INC	USA	

For regulatory information, see page 60

Product Name Azocyclotin
C.A.S. number 41083-11-8

Trade and brand names

Bay bue 1452 Peropal Peropal 25 wp
 Peropal fluesseq Peropal sc 500

Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Peropal Sprout Stop

For regulatory information, see page 61

Product Name Benomyl
C.A.S. number 17804-35-2

Trade and brand names

98% tech.	Afungil	Ager bemil
Agrichem benomyl	Agrocit	Bel-cap wp
Benagrex	Benagro	Bendazol
Benex	Benlate	Benlate 50 wp
Benlate 75 df	Benlate benomyl fungizid	Benlate df
Benlate fungicida	Benlate t 20	Benlate wp
Benocar	Benomilo 50	Benomilo ficoop
Benomilo kern	Benomyl wp-50	Benomyl-imexyl
Benomylo-50a	Benor	Benosan
Benox	Benox 50	Cellcid
Cerealsan	Chinoin-fundazol 50 wp	Colvoo benomyl
Du pont 1991	Du pont benlate	Du pont benomyl
Fibenzol	Fitomyl p.b.	Fundazol
Fundazol 50 wp	Fungochrom	Fusatox royal
Gesal-antimehltau	Hermoo benomyl	Plonemil s-50
Sivamil f	Sivamis p.b.	Tersan
Tersan 1991 df	Vaneenennamm benomyl	

Enterprise Name	Based in	Trade Name
E. I. DUPONT DE NEMOURS & CO.	USA	Benlate
SIGMA-ALDRICH FINE CHEMICALS		
SYNGENTA	CHE	Tersan 1991
TAKEDA CHEMICAL INDUSTRIES LTD., (TAK	JPN	
TH INTERNATIONAL HOLDING B.V.	NLD	

For regulatory information, see page 62

Product Name beta-Propiolactone
C.A.S. number 57-57-8

Trade and brand names

For regulatory information, see page 436

For regulatory information, see page 64

For regulatory information, see page 65

H	Hd	Kampstoff "lost"
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
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42	42	42
43	43	43
44	44	44
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46	46	46
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64	64	64
65	65	65
66	66	66
67	67	67
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87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

Product Name **Bis (2-Chloroethyl) sulphide**
C.A.S. number **505-60-2**

Trade and brand names

Lost iprit	Mustard gas	Mustard hd
Mustard sulfur	Mustard vapor	S mustard
Schwefel-lost	Senfgas	S-lost
Sulfur mustard	Sulfur mustard gas	Sulphur mustard
Sulphur mustard gas	S-yperite	Yellow cross liquid
Yperitte		

For regulatory information, see page **371**

Product Name **Bis (Chloromethyl) ether**
C.A.S. number **542-88-1**

Trade and brand names

Bcme	Bis-cme
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For regulatory information, see page **372**

Product Name **Bromocyclen**
C.A.S. number **1715-40-8**

Trade and brand names

Alugan conc.	Alugan concentre	Bromodan
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For regulatory information, see page **67**

Product Name **Bromomethane**
C.A.S. number **74-83-9**

Trade and brand names

Aerobrom	Aerobrom ax	Anti pa metylbromide
Aerobrom ax	Anti pa metylbromide	Anticimex methylbromid
Anticimex methylbromid	Anticimex metylbromid	Anti-pa methylbromid
Anticimex metylbromid	Anti-pa methylbromid	Asahimethylbromide
Asahimethylbromide	B m 2 c	Bm 2 c
B m 2 c	Bm 2 c	Bromek methylu
Bromek methylu	Bromek metylu	Bromethyl 980
Bromek metylu	Bromethyl 980	Brometo de metilo
Brometo de metilo	Bromo	Brom-o-gas
Bromo	Brom-o-gas	Brom-o-qaz
Brom-o-qaz	Brom-o-sol	Bromothyl 980
Brom-o-sol	Bromothyl 980	Bromuro de metilo
Bromuro de metilo	Bromuro de metilo aporta	Bromuro demetilo
Bromuro de metilo aporta	Bromuro demetilo	Broomchemie b.v. methylbromide
Broomchemie b.v. methylbromide	Celfume	Ceresan kuivapeittausaine
Celfume	Ceresan kuivapeittausaine	Curafume
Curafume	Detia gas ex m	Dowfume
Detia gas ex m	Dowfume	Dowfume 100
Dowfume 100	Dowfume mc 2	Dowfume mc 2 sanac
Dowfume mc 2	Dowfume mc 2 sanac	Dowfume mc-2
Dowfume mc-2	Dowfume mc-2soilfumigant	Edco
Dowfume mc-2soilfumigant	Edco	Embafume
Embafume	E-methylbromid	E-methylbromide
E-methylbromid	E-methylbromide	Fumigant-1

Product Name	Bromomethane	
C.A.S. number	74-83-9	
Trade and brand names		
Fumigant-1	Giftgas methylbromid	Grimetilo
Giftgas methylbromid	Grimetilo	Halon 1001
Halon 1001	Haltox	Haltox degesch
Haltox	Haltox degesch	Holland fumigation methyl bromide
Holland fumigation methyl bromide	Iscobrome	Kayafume
Iscobrome	Kayafume	Mb
Mb	Mbx	Mc2
Mbx	Mc2	Mebr
Mebr	Metabrom	Metabrom 980
Metabrom	Metabrom 980	Metafume
Metafume	Methogas	Meth-o-gas
Methogas	Meth-o-gas	Methybrom
Methybrom	Methyl brom d.c.	Methyl bromide
Methyl brom d.c.	Methyl bromide	Methyl bromide-liq
Methyl bromide-liq	Methyl chloro d.c.	Methylbrom
Methyl chloro d.c.	Methylbrom	Methyl-brom d.c.
Methyl-brom d.c.	Methylbromid helm	Methylbromide 100-cebeco
Methylbromid helm	Methylbromide 100-cebeco	Methylbromid-liq
Methylbromid-liq	Methylbromid-mit chlorpikrin icc	Methylbromid-su
Methylbromid-mit chlorpikrin icc	Methylbromid-su	Methyl-chloro d.c.
Methyl-chloro d.c.	Metilfum	Metilfume
Metilfum	Metilfume	Monobromomethane
Monobromomethane	Pest master	Pestmaster
Pest master	Pestmaster	Phostoxin pellets + haltox
Phostoxin pellets + haltox	Phostoxin-beutel+haltox	Phostoxin-tabletten+haltox
Phostoxin-beutel+haltox	Phostoxin-tabletten+haltox	Profume
Profume	Rentokil Methybromide 2A	Rentokil methylbromide
Rentokil Methybromide 2A	Rentokil methylbromide	Rotox
Rotox	Saibrom o	Tanaco partners giftgas
Saibrom o	Tanaco partners giftgas	Terabol
Terabol	Terabol(buechsverfahren	Ter-o-gas 100
Terabol(buechsverfahren	Ter-o-gas 100	Terr o gas
Terr o gas	Terrabol	Terr-o-gas
Terrabol	Terr-o-gas	Terr-o-gas 67
Terr-o-gas 67	Tezabol	Zedesa
Tezabol	Zedesa	Zedesa methylbromid
Zedesa methylbromid	Zytox	Aerobrom
Zytox		

Enterprise Name	Based in	Trade Name
ASAHI GLASS CO., Ltd. (ASAHI GLASS K.K.)	JPN	
BRIAN JONES & ASSOCIATES Ltd.	GBR	Bromomethane 100%
DETIA DEGESCH	DEU	
ETHYL CORP.	USA	
GREAT LAKES CHEMICAL CORP.,		
NIPPON KAYAKU CO. Ltd	JPN	
PFALTZ AND BAUER INC	USA	
		Embafume
RIVERSIDE/TERRA CORP.		MBC 67-33 (3377-17-9779)

Product Name Bromomethane
C.A.S. number 74-83-9

Trade and brand names

Enterprise Name	Based in	Trade Name
		MBC 67-33 (5785-24-9779)
		MBC 75-25 (3377-30-9779)
		MBC 75-25 (5785-40-9779)
		MBC 80-20 (5785-47-9779)
		MBC 98-2 (3377-16-9779)
		MBC 98-2 (5785-22-9779)
SIGMA-ALDRICH FINE CHEMICALS		
TAKEDA CHEMICAL INDUSTRIES LTD., (TAK	JPN	
TOTALFINAELF	FRA	Agro-O-gas 50
		Fumyl-O-gas
		Sobrom 100
		Sobrom 67
		Sobrom 98

For regulatory information, see page 68

Product Name Cadmium and cadmium compounds
C.A.S. number 7440-43-9

Trade and brand names

Caddy	Cadmium	Cad-trete
Cadmium	Cad-trete	Vi-cad
Cad-trete	Vi-cad	Caddy
Vi-cad	Caddy	Cadmium
Enterprise Name	Based in	Trade Name
CERAC INC.	USA	
FISHER SCIENTIFIC CO.		
ICN PHARMACEUTICALS INC.		
MERCK KGaA	DEU	
MITSUI & Co., Ltd	JPN	
PFALTZ AND BAUER INC	USA	
		Cadmium Chunk
		Cadmium Foil Varied Thickness
		Cadmium Mossy 99.95%
		Cadmium Powder 99% - Carc
		Cadmium Rods 99.99%
		Cadmium Shot 99.999%
SIGMA-ALDRICH FINE CHEMICALS		
SPEX CERTIPREP, INC.		Cadmium shots

For regulatory information, see page 71

Product Name Calcium arsenate
C.A.S. number 7778-44-1

Trade and brand names

Chip-cal	Cucumber dust	Granular
Pencal	Pen-cal	Spra-cal
Turf-cal	Turf-cal flowable	Zeltacal espolvoreo
Enterprise Name	Based in	Trade Name

Product Name Calcium arsenate
C.A.S. number 7778-44-1

Trade and brand names

Enterprise Name	Based in	Trade Name
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CERAC INC.	USA	
ICN PHARMACEUTICALS INC.		
PFALTZ AND BAUER INC		

For regulatory information, see page 73

Product Name Calcium cyanide
C.A.S. number 592-01-8

Trade and brand names

A-dust	Cyanoqas	Degesch calcium cyanide-a dust
Degesch calcium cyanide-q		

Enterprise Name	Based in	Trade Name
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ICN PHARMACEUTICALS INC.	USA	
PFALTZ AND BAUER INC		

For regulatory information, see page 73

Product Name Camphechlor (Toxaphene) *
C.A.S. number 8001-35-2

Trade and brand names

Agricide maggot killer (f)	Alltox	Attac
Attac 8	Camfochlor	Camphoclor
Camphofene huileux	Camphophene huileux	Chem-phene
Chlor chem t-590	Chlorocamphene	Clor chem t-590
Compound 3956	Crestoxo	Cristoxo
Delicia-fribal-emulsion	Delicia-texylodruchzestaeuber	Diptic
Duo-tox	Estonox	Fasco-terpene
Geniphene	Gy-phene	Hercules 3956
Hercules toxaphene	M5055	Melipax do zamglawiania
Melipax plynnv	Melipax-aerokonz	Melipax-spritzmittel
Miller's toxaphene	Motox	Multiosus visa
Nci-c00259	Oeniphene	Oxafeno
Pcc	Penphene	Phenacide
Phenatox	Phenoryl	Salvadrin
Salvatox 5% c.e.	Strobane t-90	Strobane-90
Strobane-t	Strobane-t90	Strobano
Synthetic 3956	Toxa-dragon 71.3% c.e.	Toxadust
Toxafeen	Toxakil	Toxaphen
Toxaphen-spritz und staubemittel	Toxon 63	Vertac toxaphene 90

Enterprise Name	Based in	Trade Name
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ICN PHARMACEUTICALS INC.	USA	
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 74

Product Name Captafol *
C.A.S. number 2425-06-1

Trade and brand names

Product Name	Captafol *	
C.A.S. number	2425-06-1	
Trade and brand names		
A botryl op 80	Abotril op 80	Abotryl op 80
Acritan	Afuqan combi	Aqrotec
Alfloc 7046	Arborseal	Atlas captaspor
Atlas junospor	Barcap	Basf septoria fungicide
Baume cicatrisant	Baum-kanker-balsam	Bayfidan cf
Bayfidan triple	Bayleton cf	Bayleton cf epi
Bayleton df	Bayleton triple	Bc-captafol flo
Bumuclan	Caldor I	Caltan c
Caltan plus	Campbell's captafol 50% flowable	Capatol liquide
Captafol	Captafol 48 flowable	Captafol eurofyto
Captafol lq	Captotol eurofyto	Captol liquide
Ceretal liquide	Cerobin-combi	Cillus captafol
Codicap	Corbel epi	Corbel top
Crisflotatan	Crisfolatan	Cs 5623
Desmel plus	Di focap	Dicofol
Diflotan ortho	Difocap	Difolatan
Difolatan 80 wp	Difolpet	Difoltox
Diforam	Difosan	Difosan flo
Drawipas	Dycarfol	Faltocur 80
Folcid	Foltaf	Foltapet
Foltapet I 27-7	Foltapet ramato	Ftalinol 80
Funaben 4	Fungizid/fongicide-gesal	Furesan
Haipen	Hermoo captafol vl	Hortosan
Impact extra	Impact t	Impact t sopra
Kuenstliche rinde lac balsam	Luxan captafol sc	Merpafol
Merpafol 48 sc	Merpafol 480	Microcapfol pb 80
Microdifolatan sti	Milcap	Mycodifol
Mycodifol 23/54	Mycodifol f	Mycodifol liquide
Mycodifol liquido	Mycodifol wp	Mycosan pb
Nalco 7046	Necobol	Nobilene
Ortho difocap	Ortho difolatan	Ortho difolatan 80
Ortho difolatan s	Ortho difolatan sk	Ortho difolatan tecni
Ortho difolatan-80	Orthodifolatan	Ortho-difolatan
Ortho-difolatan 80	Ortho-difolatan 80 pm	Ortho-difolatan flowable
Orthodifolatan liquide	Ortho-difolatan liquide	Ortho-difolatan liro
Ortho-difolatan s	Pa conquest	Pbi captafol flowable
Petafol	Proxel ef	Sandar sm
Sanseal	Sanspor	Sanspor 80 wp
Sanspor ramato	Santar sm	Sipafol I
Siparam sl	Sirdate	Sprill
Sulpheimide	Syqan	Syqan I
Syphal	Terrazol	Tilt
Tilt 2 captafol	Tilt 60 wp	Topadin fluessiq
Tripart captafol 48	Vigil t	Vignor
Vitifol	Zz-mycodifol	Zz-mycodifol liquido

Product Name	Captan	
C.A.S. number	133-06-2	
Trade and brand names		
A specian	Aacaptan	Aacaptan m
Aacaptan m	Aacaptan s	Aacaptan vloeibaar
Aacaptan s	Aacaptan vloeibaar	Actan
Actan	Afrocap 10	Afrocap 50
Afrocap 10	Afrocap 50	Afrocap 50 pm
Afrocap 50 pm	Aqricap 83	Aqrichim captan soufre
Aqricap 83	Aqrichim captan soufre	Aqrichim captan-soufre
Aqrichim captan-soufre	Aqro captan 83	Aqrocapt 85
Aqro captan 83	Aqrocapt 85	Aqroptan
Aqroptan	Aqrosol	Aqrox 2-way
Aqrosol	Aqrox 2-way	Aqrox d-l plus
Aqrox d-l plus	Aliette csp	Aliette extra
Aliette csp	Aliette extra	Aliette sd
Aliette sd	Amercide	Antipilz pulver mioplan
Amercide	Antipilz pulver mioplan	Antipilz-pulver/pulverisation fongicide
Antipilz-pulver/pulverisation fongicide mi	Apitium	Apron 70 sd
Apitium	Apron 70 sd	Aseptacaptan
Aseptacaptan	Aseptazalin	A-specian
Aseptazalin	A-specian	Barcap
Barcap	Basf-captan 83	Baycap
Basf-captan 83	Baycap	Baycor c
Baycor c	Baycor captan	Baycor-captan
Baycor captan	Baycor-captan	Bayleton ca 75
Bayleton ca 75	Bean seed protection	Bel-cap wp
Bean seed protection	Bel-cap wp	Belpron c 10
Belpron c 10	Belpron c-50	Bencaptan 85
Belpron c-50	Bencaptan 85	Bercema captan 80
Bercema captan 80	Bercema-captan 80	Biocap
Bercema-captan 80	Biocap	Bioqold
Bioqold	Brabant captan 83%	Brabant captan-zwavel
Brabant captan 83%	Brabant captan-zwavel	Brugsen qulerodspudder
Brugsen qulerodspudder	Brugsen insekt og svempepudder	Buvisild k
Brugsen insekt og svempepudder	Buvisild k	Buvisild k
Buvisild k	Cafudan 50 wp	Calirame pm
Cafudan 50 wp	Calirame pm	Calyram
Calyram	Camostan	Cap 50
Camostan	Cap 50	Cap 50 wp
Cap 50 wp	Capcide 50	Capidol
Capcide 50	Capidol	Capidol-t
Capidol-t	Capluq	Capluq 50
Capluq	Capluq 50	Capnebe
Capnebe	Captafor 50	Captagrex 10
Captafor 50	Captagrex 10	Captagrex 85
Captagrex 85	Captalon 50 wp	Captalon 83 wp
Captalon 50 wp	Captalon 83 wp	Captan
Captan	Captan 47.5f	Captan 50
Captan 47.5f	Captan 50	Captan 50 agrotec
Captan 50 agrotec	Captan 50 argos	Captan 50 pm cag
Captan 50 argos	Captan 50 pm cag	Captan 50 rumianca

Product Name	Captan	
C.A.S. number	133-06-2	
Trade and brand names		
Captan 50 rumianca	Captan 50 w	Captan 50 wp
Captan 50 w	Captan 50 wp	Captan 50/83 cta
Captan 50/83 cta	Captan 600 sc fluessig	Captan 80 w
Captan 600 sc fluessig	Captan 80 w	Captan 80 wp
Captan 80 wp	Captan 83	Captan 83 aqriben
Captan 83	Captan 83 aqriben	Captan 83 aqriphar
Captan 83 aqriphar	Captan 83 aqrotec	Captan 83 cta
Captan 83 aqrotec	Captan 83 cta	Captan 83 h.b.
Captan 83 h.b.	Captan 83 lq	Captan 83 stauffer
Captan 83 lq	Captan 83 stauffer	Captan 83%
Captan 83%	Captan 83% kwizda	Captan 83% spuitpoeder
Captan 83% kwizda	Captan 83% spuitpoeder	Captan 83-o.t.c.
Captan 83-o.t.c.	Captan 83-sba	Captan 84 wp
Captan 83-sba	Captan 84 wp	Captan bayer
Captan bayer	Captan bayer 85	Captan diana 83 wp
Captan bayer 85	Captan diana 83 wp	Captan fifty
Captan fifty	Captan gefex	Captan granular
Captan gefex	Captan granular	Captan 'linz'
Captan 'linz'	Captan plus molybdenum	Captan serpiol 85 pm
Captan plus molybdenum	Captan serpiol 85 pm	Captan wp-50
Captan wp-50	Captan z schering	Captan zineb
Captan z schering	Captan zineb	Captan-50
Captan-50	Captan-bayer 50 wp	Captan-burri
Captan-bayer 50 wp	Captan-burri	Captan-capteneet 26 538
Captan-capteneet 26 538	Captane	Captan-efthymiadis 83 wp
Captane	Captan-efthymiadis 83 wp	Captanex
Captanex	Captan-hoko	Captano hl 50
Captan-hoko	Captano hl 50	Captanol 83
Captanol 83	Captan-zinebe	Captaspor
Captan-zinebe	Captaspor	Captazel
Captazel	Captazel espolv	Captazel semillas
Captazel espolv	Captazel semillas	Captazim 2 wp
Captazim 2 wp	Capteran 50	Capteran 85
Capteran 50	Capteran 85	Captex
Captex	Capthion	Capticol
Capthion	Capticol	Capticol plus
Capticol plus	Capt'n molly	Capt'n moly
Capt'n molly	Capt'n moly	Captocide
Captocide	Captol	Captolate
Captol	Captolate	Captolate 60
Captolate 60	Captolate ac 4d	Captionin wp
Captolate ac 4d	Captionin wp	Captoran 83 wp
Captoran 83 wp	Captosan	Captosan 85
Captosan	Captosan 85	Captyssem pm
Captyssem pm	Carbamix	Cekutan 50
Carbamix	Cekutan 50	Chemagri captan 83
Chemagri captan 83	Ciptal wp	Clomitane
Ciptal wp	Clomitane	Clorimid 50
Clorimid 50	Clorocarb pm	Cm 4035 komby-cap

Product Name	Captan	
C.A.S. number	133-06-2	
Trade and brand names		
Clorocarb pm	Cm 4035 komby-cap	Codicap
Codicap	Colosan	Colvoo captan 83 w p
Colosan	Colvoo captan 83 w p	Colvoo captan 83 wp
Colvoo captan 83 wp	Coop captan p	Coop captan pm
Coop captan p	Coop captan pm	Cormaison c.f.l.e co
Cormaison c.f.l.e co	Cormaison fi	Cormaison simple f.i.
Cormaison fi	Cormaison simple f.i.	Corry's hormone rooting powder
Corry's hormone rooting powder	D-264 plus captan	Di focap
D-264 plus captan	Di focap	Diasaat
Diasaat	Diefesan	Diefital
Diefesan	Diefital	Difocap
Difocap	Ditacap	Ditiver captan pm
Ditacap	Ditiver captan pm	Doff hormone rooting powder
Doff hormone rooting powder	Doff hormone rooting powder	Drexel captan
Doff hormone rooting powder	Drexel captan	Dubon 50
Dubon 50	Emelfos	Enocaptan 50
Emelfos	Enocaptan 50	Erisan
Erisan	Erisan super	Estermilo
Erisan super	Estermilo	Eversheild cm
Eversheild cm	Eversheild cm	FI-80 + karnak
Eversheild cm	FI-80 + karnak	FI-80+karnak
FI-80+karnak	Flit 406	Floradix n
Flit 406	Floradix n	Fungicap-83
Fungicap-83	Fungicida or-mil	Fungitan 50
Fungicida or-mil	Fungitan 50	Fungoro 50
Fungoro 50	Fungus ban type ii	Fursarin
Fungus ban type ii	Fursarin	Gamasat
Gamasat	Gammalex	Geoptan 50/83 wp
Gammalex	Geoptan 50/83 wp	Geoptan 83 wp
Geoptan 83 wp	Germinate csp	Germinate special mais
Germinate csp	Germinate special mais	Germinol
Germinol	Glydex	Goldenon
Glydex	Goldenon	Goldenon 80
Goldenon 80	Granoplus	Gustafson captan 30-dd
Granoplus	Gustafson captan 30-dd	Hexacap
Hexacap	Honqal	Honqal 50 pm
Honqal	Honqal 50 pm	Hy-t
Hy-t	Ici captan 83	Imidan captan 12-16 wp
Ici captan 83	Imidan captan 12-16 wp	Imidan-captan
Imidan-captan	Imidan-captan 12-16 wp	Ipecap
Imidan-captan 12-16 wp	Ipecap	Kapitol
Kapitol	Kaptan 4-f	Kaptan sp-4
Kaptan 4-f	Kaptan sp-4	Kaptan zawiesinowy 50
Kaptan zawiesinowy 50	Kaptazor 50 wp	Kapto dragon
Kaptazor 50 wp	Kapto dragon	Kaptogal-80
Kaptogal-80	Karnak 85	Keriroot
Karnak 85	Keriroot	Kill it
Kill it	Kill it puder	Kill-it havepudder
Kill it puder	Kill-it havepudder	Kill-it havesprojtemiddel

Product Name	Captan	
C.A.S. number	133-06-2	
Trade and brand names		
Kill-it havesproejtemiddel	Kvk captan 83	Liro captan
Kvk captan 83	Liro captan	Loncap
Loncap	Luxam captan 83% poudre mouillable	Luxan captan 83%
Luxam captan 83% poudre mouillable	Luxan captan 83%	Luxan captan 83% poudre mouillable
Luxan captan 83% poudre mouillable	Luxan captan 83% spuitpoeder	Luxan captan-zwavel spuitpoeder
Luxan captan 83% spuitpoeder	Luxan captan-zwavel spuitpoeder	M special
M special	M special/m spezial	Malipur
M special/m spezial	Malipur	Mancotan
Mancotan	Matas rose-oq havesproejtemiddel	Merpan
Matas rose-oq havesproejtemiddel	Merpan	Merpan 50 wp
Merpan 50 wp	Merpan '83'	Merpan 83 wp
Merpan '83'	Merpan 83 wp	Merpan-'83'
Merpan-'83'	Micospor p 5	Micoter
Micospor p 5	Micoter	Micro-check 12
Micro-check 12	Miltene	Misan
Miltene	Misan	Misan 50
Misan 50	Monceren combi	Motecide c-50
Monceren combi	Motecide c-50	Murphy captan 83
Murphy captan 83	Murphy combined seed dressing	Murphy hormone rooting powder
Murphy combined seed dressing	Murphy hormone rooting powder	Negal-extra
Negal-extra	Neo-combisan	Neodan wp
Neo-combisan	Neodan wp	Neracid
Neracid	Nexion I	Nexion-I-kombi-beize
Nexion I	Nexion-I-kombi-beize	Nitrosol
Nitrosol	Obstspritzmittel orthocid 50	Ortho mix nieuw
Obstspritzmittel orthocid 50	Ortho mix nieuw	Orthocid
Orthocid	Orthocid 10 pudder	Orthocid 50
Orthocid 10 pudder	Orthocid 50	Orthocid 50 pm
Orthocid 50 pm	Orthocid 50 wp	Orthocid 75
Orthocid 50 wp	Orthocid 75	Orthocid 75 w
Orthocid 75 w	Orthocid 83	Orthocid 83 poudre mouillable
Orthocid 83	Orthocid 83 poudre mouillable	Orthocid 83 wp
Orthocid 83 wp	Orthocid 83-rp	Orthocide
Orthocid 83-rp	Orthocide	Orthocide 10 dust
Orthocide 10 dust	Orthocide 50	Orthocide 50 pm
Orthocide 50	Orthocide 50 pm	Orthocide 50 w
Orthocide 50 w	Orthocide 83	Orthocide 83 agro
Orthocide 83	Orthocide 83 agro	Orthocide 83 qorsac
Orthocide 83 qorsac	Orthocide 83 p	Orthocide 83 poudre mouillable
Orthocide 83 p	Orthocide 83 poudre mouillable	Orthocide 83 rp
Orthocide 83 rp	Orthocide 83 wp	Orthocide 83% qorsac
Orthocide 83 wp	Orthocide 83% qorsac	Orthocide kaptan
Orthocide kaptan	Orthocide stuifpoeder	Orthocide-83
Orthocide stuifpoeder	Orthocide-83	Orthocide-83 spuitpoeder
Orthocide-83 spuitpoeder	Orthofof	Orthoscam 50
Orthofof	Orthoscam 50	Orthozid/orthocide 83
Orthozid/orthocide 83	Osocide	Quinolate mais fl
Osocide	Quinolate mais fl	Oximipiol 50 pm
Oximipiol 50 pm	P. p. captan 83	Pallicap

Product Name	Captan	
C.A.S. number	133-06-2	
Trade and brand names		
P. p. captan 83	Pallicap	Pallicap m
Pallicap m	Pallinal c	Partner
Pallinal c	Partner	Philocap 50/83 wp
Philocap 50/83 wp	Philocap 83 wp	Phytocape 82
Philocap 83 wp	Phytocape 82	Phytocape 83
Phytocape 83	Plantvax c	Plk captan 83
Plantvax c	Plk captan 83	Pomodorin
Pomodorin	Pomodorin 85 pm	Pomuran
Pomodorin 85 pm	Pomuran	Pp captan 83
Pp captan 83	Praksis 67 kreaturrensmiddel	Prevalan
Praksis 67 kreaturrensmiddel	Prevalan	Probelte 4-5
Probelte 4-5	Prodacap 50	Prodacap 83
Prodacap 50	Prodacap 83	Protekcid 80
Protekcid 80	Pulco captan 83	Quinolate mais fl
Pulco captan 83	Quinolate mais fl	Radokaptan sc-48 ts
Radokaptan sc-48 ts	Rh captan 50	Rondo
Rh captan 50	Rondo	Rooting powder
Rooting powder	S 572	Sandomil c
S 572	Sandomil c	Santhane
Santhane	Sarcap	See shield
Sarcap	See shield	Seftal 50 pb
Seftal 50 pb	Sembral zelmais	Sepicap
Sembral zelmais	Sepicap	Sepravax
Sepravax	Shell captan	Shell captan 83
Shell captan	Shell captan 83	Sipcaplant
Sipcaplant	Sm 55 maneb	Sm-55
Sm 55 maneb	Sm-55	Sm-55/maneb
Sm-55/maneb	Sonax c 52 wp	Sonax c52 wp
Sonax c 52 wp	Sonax c52 wp	Sorene pb 83
Sorene pb 83	Sr 406	Stauffer captan
Sr 406	Stauffer captan	Strike hormone rooting powder
Strike hormone rooting powder	Supertol spritzpulver	Systane c
Supertol spritzpulver	Systane c	Tebecap
Tebecap	Techn'ap 83	Tetracap
Techn'ap 83	Tetracap	Thiocap-maneb
Thiocap-maneb	Topas c	Topaz fruit 35 wp
Topas c	Topaz fruit 35 wp	Topaz m extra 50 wp
Topaz m extra 50 wp	Topaz speciaal 35 wp	Topaze c
Topaz speciaal 35 wp	Topaze c	Topaze c 50
Topaze c 50	Tridal cap	Trimeqol 50
Tridal cap	Trimeqol 50	Uqecap 50/83
Uqecap 50/83	Uqecap 83	Ukorzeniacz
Uqecap 83	Ukorzeniacz	Unicrop flowable captan
Unicrop flowable captan	Vancide	Vancide 89
Vancide	Vancide 89	Vangard k
Vangard k	Venosal	Venotex nouveau
Venosal	Venotex nouveau	Venturin-50
Venturin-50	Vitavax 2 c	Vitavax 2c
Vitavax 2 c	Vitavax 2c	Vitavax 300

Product Name	Captan	
C.A.S. number	133-06-2	
Trade and brand names		
Vitavax 300	Vitavax 38/38	Vitavax k wp
Vitavax 38/38	Vitavax k wp	Vitavax-k wp
Vitavax-k wp	Voncaptan	Vond captan-zwavel
Voncaptan	Vond captan-zwavel	Vond-captain 83 spuit-en venevelbarr p
Vond-captain 83 spuit-en venevelbarr p	Vond-smc with maneb	
Vond-smc with maneb	A specian	Aacaptan
Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	
BASF AG.	DEU	
COMPTON CORPORATION	USA	Gustafson Captan 30-DD Seed Protectant Gustafson Captan 400 Seed Protectant Gustafson Rival flowable Gustafson Vitavax PC fungicide
CONAGRA INC.		2Captan 7.5 Dust Captan 5% Captan 7.5
HELENA CHEMICAL CO.		Captan Moly Seed Protectant Vitavax M DC
ISHIHARA SANGYO CO., (ISHIHARA SANGY	JPN	
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Merpan SC Merpan Technical Grade Merpan WDG Merpan WP
MERCK KGaA	DEU	
MICRO FLO COMPANY	USA	Captan 50W Captan 80 Wettable Powder Captec 4L
RIVERSIDE/TERRA CORP.		Captan-Moly Kernel Guard
ROCHE HOLDING LTD.	CHE	
SIGMA-ALDRICH FINE CHEMICALS	USA	Wet-Sol 99 #235
For regulatory information, see page 81		

Product Name	Carbaryl	
C.A.S. number	63-25-2	
Trade and brand names		
A n 69	Aa fleur super	Aarupsin 50% spuitpoeder
Aesse l	Afracid 85	Aqlukon tegen rupsen
Aqrex s-50	Aqrex s-7.5	Aqrex s-85
Agro 45 wp	Aqrocros sevin 50	Aqrocros sevin 7.5
Aqrocros sevin 85	Aqronexa sl espolv	Aqronexa sl espolvoreo
Aqronexa sl pm	Agro-ravin	Amonn sevin 85 pm
An 69	Ant and Insect Powder	Argosvin 85
Arvin	As p	Aseptacarpon
Aseptacarpron	Atoxan 5	Automn toplawn
Autumn toplawn	Avermil 50	Avermina

Product Name	Carbaryl	
C.A.S. number	63-25-2	
Trade and brand names		
Balanin 20	Bavin 85	Bavistin
Bayer carbaryl	Bercema akafunin	Bercema nmc staub
Bercema spritzpulver nmc 50	Bilcan	Boots garden insect powder
Brabant carbaryl	Cabor 5 q	Cabor 50 pb
Carba	Carbal	Carbamal
Carbamin	Carbaran 50 wp	Carbaril 85
Carbaryl	Carbaryl agropharmaceutiki 10 d	Carbaryl ate 10 d
Carbaryl emulsion	Carbaryl eurofyto	Carbaryl geopharamcerutiki 10 d
Carbaryl geophyt. 10 d	Carbaryl phyt/ki	Carbaryl-agrotex 10 d
Carbaryl-zeltia 50	Carbatox 10 dust	Carbatox 85 wp
Carbavit	Carbavit m	Carbezal 10 d
Carbezal 85 wp	Carbinex 10 dust	Carbinex 60-40 wp
Carbinex 85 wp	Carbinol 10 dust	Carbinol 85 wp
Carbisan	Carbital	Carbodin
Carbomatil 50%	Carbomatil 85	Carbotin 5 q
Carbovis	Carbovis p 5	Carpation
Caryl 10 dust	Caryl 85 wp	Cekubaryl
Chemaqri carbaryl	Chemin p 5	Chemin p 50
Cillus	Cillus carbaryl	Cocosol forte
Corbel	Cortix dust	Cotton dust ate
Cotton-dust	Cotton-dust ate	Cotton-dust-5-40-diana
Cotton-dust-8-40 diana	Cotton-dust-aeehpl	Cotton-dust-ellagret
Cotton-dust-geochem d	Delsene	Denapon
Derosal	Devicarb	Dicarbam
Dicarbam 50	Dicarbam 85	Dicarbam forte
Digitex-agrumi	Ditrin 50	Dory-mildiou pulveisation concentre
Dory-mildiou pulverisation concentre	Drexel carbaryl	Du-cryl spuitpoeder
Duo	Effa ya kipous ke lachanika	Effa ya klimataries
Eltarin 10	Emelcar 50	Emetres
Escaravine	Essevi 50	Eurocarb
Fibaril 50 pm	Fibaril 85 pm	Forcarb 50 pb
Fruttal	Gammakarbatox 50 wp	Gammakarbatox pylisty
Gammakarbatox zawieinowy	Gebin 50 pm	Glodi rosa oq skrautplontuudi
Glodi rosa- oq skrautplontuudi	Grovex d 593 sevin dust	Grovex d593 sevin dust
Hermoo carbaryl	Hexavin	Hortamon p
Hortamon s.r. p.	Hortamon s.r.p	Isagricol 85
Karbaryl emulsion	Karbaspray	Karbatox extra p 75
Karbatox zawiesinowy	Karbatox-extra p 75	Kb jardim batateira
Kb jardim batateria	Konker	Kvk carbaryl
Kwp61	Laivin 85	Liro-carbaryl
Lorsban c	Lumaqrill	Luxan carbaryl 50%
Luxan carbaryl 50% poudre mouillable	Luxan carbaryl 50% spuitpoeder	Mastif
Matahormiqas	Microsev 5 polvere	Microseve 50 pb
Minotor mixte t	Monsur	Monsur na 50 sprutpulver
Murphy lawn wormkiller	Murphy wasp destroyer	Murvin
Murvin 85	Nac	Naftane bouillie
Naftane poudrage m	Naftene	Naftene 5
Naftil acaricide	Naftil micronizzato	Naftilo
Nekavin 85%	Netox 5 g	Nevisox 50

Product Name	Carbaryl	
C.A.S. number	63-25-2	
Trade and brand names		
Nuvaton larvicida polvere	Panam	Panam p 5
Panam pb 50	Pantrin	Parasitex dust
Patatol activado 5-2 espolv	Patatol activado 5-2 espolvoreo	Permutex
Piral	Plusex 80	Pomex
Ponnax	Promildor	Prosevit
Prosevor 85	Prosin 7.5	Ravyon
Rentokil ant & crawling insect powder	Rentokil insect powder	Rentokil wasp nest killer
Ryltex	Sandocar	Sanol 5 p
Sanol 50	Sanol 85 granuli	Scaros 25 ds
Sedit 5 dust	Semaqrex	Semivin
Semul 50	Semul 85	Sepraform
Septene	Seviqor	Sevilan
Sevimol	Sevimole	Sevin
Sevin 10 d	Sevin 20% bait	Sevin 20% cebo
Sevin 50 s	Sevin 50 w	Sevin 85
Sevin 85 s	Sevin 85 wp	Sevin appat
Sevin flow	Sevin I 85 cp	Sevin micron
Sevin mixed	Sevin soufre 70	Sevin xlr
Sevin85 w	Sevinil	Sevin-mixte
Sevinol	Sevin-xlr	Sevisol 5 p
Sevisol 50	Sevithion	Sevitox 50
Shell carbaryl spuitmiddel	Shell carbaryl stuipoeder	Sivamcarb
Sonaptil	Stiryl p 5	Stiryl pb 50
Strel	Striyl p b 50	Strobion d
Suvamil 85 micron	Suvamin I	Tecnicid
Tercyl	Terfit 50	Terfit p 5
Thinsec	Tornado	Tricarnam 50% wp
Tricarnam spuitpoeder	Uc 7744	V 5 ps
Visene	Wasp nest killer	Zeltia sevin 84 pm
Zeltia sevin 85 pm	Zz-reforzado	
Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Chipco Sevin Sevin
BASF AG.	DEU	Adios Slam
CONAGRA INC.	USA	Carbaryl 4L Carbaryl 50 WP Carbaryl 80 WDG
DIACHEM Spa.	ITA	Sedit 5 dust Sedit F 43.5
FISONS LTD.	GBR	
GROUPE LIMAGRAIN	FRA	
LESCO INC.	USA	Fertilizer with Sevin Brand Insecticide Sevin 4% + 22-3-7 Sevin 6.3 Granular Sevin SL
MICRO FLO COMPANY		Adios

Product Name Carbaryl
C.A.S. number 63-25-2

Trade and brand names

Enterprise Name	Based in	Trade Name
		Slam, Micro flo
NIPPON SODA CO. LTD. (NIPPON SODA K.	JPN	
NUFARM	AUS	Carbaryl 500 Flowable
PFALTZ AND BAUER INC	USA	
RIVERSIDE/TERRA CORP.		Carbaryl 90DF
SIGMA-ALDRICH FINE CHEMICALS		
TAKEDA CHEMICAL INDUSTRIES LTD., (TAK	JPN	
THE SCOTTS COPANY	USA	Scotts Proturf Fluid Insecticide Scotts Proturf Insecticide V
UNITED HORTICULTURAL SUPPLY		Sevin 10G

For regulatory information, see page 82

Product Name Carbofuran
C.A.S. number 1563-66-2

Trade and brand names

Bay 70143	Brifur	Bripoxur
Carbasip 5 q	Carbasol	Carbodor
Carbofuran farmoplant lidal	Carbofuran- granulaat	Carbosip
Carbosol	Carbostin	Cama
Chinofur	Chinofur 40 fw	Chinofur 5 q
Crisfuran	Cupfuran 5 q	Curater
Curater 10 q	Curater granular	Curater granulare
Curater sk	Curater-granulaat	Curaterr
Curaterr 5 granulado	Curaterr forte	Curaterr granulat
Curaterr uno	Curater-strooimiddel	Curater-vloeibaar
Delex	Diafuran	Fmc 10242
Furacarb	Furacid	Furadan
Furadan 10 q	Furadan 3 f	Furadan 35 st
Furadan 350 f	Furadan 5 q	Furadan 5-q
Furadan 75 dbs	Furadan 75 wp	Furadan fluessiq
Furaqrex 5 q	Furalin 5-q	Furazin
Geocid 5-q	Intrasol	Kenofuran
Microter	Nex	Pillarfuran
Talinex 5 q	Yaltox	
Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Bullet Furadan Granulat Lariat Flowable Lasso Manolate Manolate Corbeaux Telone C-35 Tordon 242
DOW CHEMICAL CO., THE	USA	Sanfuran 350SC
ENI SPA	ITA	
FMC CORPORATION	USA	

Product Name Carbofuran
C.A.S. number 1563-66-2

Trade and brand names

Enterprise Name	Based in	Trade Name
		Furadan 10 G
		Furadan 3 G (GR)
		Furadan 4F
		Furadan 5 G (GR)
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Carbodan
		MSMA Plus H.C.
MITSUBISHI CHEMICAL CORPORATION	JPN	CBF
		Diafuran
		Diafuran 35 ST
		Diafuran 75 TP
MONTEDISON S.P.A.	ITA	Vitavax CT Flowable
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 84

Product Name Carbon disulfide
C.A.S. number 75-15-0

Trade and brand names

Cerenone I	Deqorqoqil sulfopron	Desqorqoqil
Solforo di carbinio		

Enterprise Name	Based in	Trade Name
ENTEK CORPORATION	USA	Enzone
		Enzone X2
FISHER SCIENTIFIC CO.		
MALLINCKRODT, INC.		
MERCK KGaA	DEU	
NIPPON SODA CO. LTD. (NIPPON SODA K.	JPN	
PFALTZ AND BAUER INC	USA	
PPG INDUSTRIES INC. CHEMICALS		
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 85

Product Name Carbon tetrachloride
C.A.S. number 56-23-5

Trade and brand names

Aqroqas	Cerelin	Cerenone I
Cerelin	Cerenone I	Desqorqil sulfopron
Cerenone I	Desqorqil sulfopron	Desqorqoqil
Desqorqil sulfopron	Desqorqoqil	Dm 34 forte
Desqorqoqil	Dm 34 forte	Granosan
Dm 34 forte	Granosan	Vertox
Granosan	Vertox	Aqroqas
Vertox	Aqroqas	Cerelin

Enterprise Name	Based in	Trade Name
ASAHI GLASS CO., Ltd. (ASAHI GLASS K.K.)	JPN	
DOW CHEMICAL CO., THE	USA	
ENI SPA	ITA	

Product Name Carbon tetrachloride
C.A.S. number 56-23-5

Trade and brand names

Enterprise Name	Based in	Trade Name
FISHER SCIENTIFIC CO.	USA	
HELM AG	DEU	
HUELS AG		
ICN PHARMACEUTICALS INC.	USA	
KUREHA CHEMICAL INDUSTRY CO. LTD. (K	JPN	
MALLINCKRODT, INC.	USA	
MERCK KGaA	DEU	
MITSUI & Co., Ltd	JPN	
MONTEDISON S.P.A.	ITA	
NIPPON SODA CO. LTD. (NIPPON SODA K.	JPN	
PFALTZ AND BAUER INC	USA	
SHIN-ETSU CHEMICAL CO. Ltd.	JPN	
SIGMA-ALDRICH FINE CHEMICALS	USA	
SOLVAY S.A.	BEL	
TOTALFINAELF	FRA	
VULCAN MATERIALS COMPANY,	USA	

For regulatory information, see page 86

Product Name Carbophenothion
C.A.S. number 786-19-6

Trade and brand names

Acarithion	Acarsivam 34 s	Aracnol e 71
Ararsivam 34 s	Carbotran	Carpathion
Daqadip	Eleophenothion	Endyl
Garrathion	Hexathion	Lethox
Lethox ec	Liro-trithion spuitbus n	Mist-o-matic trithion liquid seed treatme
Nephocarp	Oleokarithion	Paraqrin t
Phencapton	Phenothion 25 wp	R 1303
Soufre aero acaricide	Spider spray 20 le	Stauffer r-1,303
Sufre aero acaricida	Trimeton ec	Trimidan
Trithion	Trithion k 1-3 p	Trithion kelthane 8-32
Trithion oil ec	Viticarb	Yphos vigne

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 88

Product Name Carbosulfan
C.A.S. number 55285-14-8

Trade and brand names

Advantage	Carbosulfan	Carbosulfan tec sat 3001(15/83)
Fmc 35001	Marshal 10 q	Marshal 10 mq
Marshal 25 ec	Marshal 25 le	Marshal 40 db
Marshal 5 g	Marshal fort	Poss 40-ts
Posse 1,5-p	Posse 25-ec	Sheriff

For regulatory information, see page 88

Product Name Chloralhydrate
C.A.S. number 302-17-0

Trade and brand names

Shell rizovin

Enterprise Name	Based in	Trade Name
ENI SPA	ITA	
ICN PHARMACEUTICALS INC.	USA	
MERCK KGaA	DEU	
ROCHE HOLDING LTD.	CHE	
SCHWEIZERHALL HOLDING AG.		
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 89

Product Name Chloralose
C.A.S. number 15879-93-3

Trade and brand names

Aqc	Alfamat	Alfa-z
All muis kill	Alpha 4	Alphachloralose pure
Alphakil	Alphakil musegift	Aphosal
Chip-cal	Chloralosane	Dulcidor glucochloral
Glucochloralose	Kalmettumsomniferum	Krakalos
Murex	Occi taupes	Rcr alphachloralose pure
Rentokil Alphachloralose	Rentokil alphachloralose Concentrate	Rentokil Alphachloralose Technical
Rentokil alphakil	Rodent alphakil	Somio
Tudor corbo	Tudor-corbo	

Enterprise Name	Based in	Trade Name
FISHER SCIENTIFIC CO.	USA	
ICN PHARMACEUTICALS INC.		
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		
UNITED-GUARDIAN, INC		

For regulatory information, see page 90

Product Name Chloranil
C.A.S. number 118-75-2

Trade and brand names

Chloranil	Coversan	Dow seed disinfectant no 5
G-25804	G-444e	Geigy-444e
Oroquinone	Psorisan	Quinone tetrachloride
Reranil	Spergon	Vulcloril
Vulklor		

Enterprise Name	Based in	Trade Name
COMPTON CORPORATION	USA	
FISHER SCIENTIFIC CO.		
ICN PHARMACEUTICALS INC.		
MERCK KGaA	DEU	
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		
UNITED-GUARDIAN, INC		

Spergon I Practical - Carc

Product Name Chloranil
C.A.S. number 118-75-2

Trade and brand names

For regulatory information, see page 94

Product Name Chlorbicyclen
C.A.S. number 50-13-5

Trade and brand names

Aijil	Alodan	Antidurool
Chlorbbicyclen	Chlorbicyclen	Demerol
Dispadol	Doiantal	Doiantol
Doiaren	Doiargan	Dointtn
Dolenal	Dolenol	Dolestine
Dolin	Doloqal	Doloneurine
Dolopethin	Dolosal	Dolvanol
Donoontral	Edine	Endoiat
Gentralqin	Lidol	Lydol
Medal	Mefedina	Mepadin
Modolin	Operidine	Pantalqine
Pentantin	Pettdin	Piridosal
Sauteralqyl	Syneiaudine	Wy 554

For regulatory information, see page 94

Product Name Chlordane *
C.A.S. number 57-74-9

Trade and brand names

Belt	Chlor kil	Chlordane 25
Chlordane lawn worm killer	Chlortox	Clordisol
Cloroxone	Corodane	Fitacloro
Fomimata	Formidane 50	Gold crest c-100
Grovex qx 255 chlordane miscible	Grovex qx2555 chlordane miscible	Kilex lindane
Kypchlor	Nippon ant destroyer powder	Octachlor
Octa-klor	Ortane 50	Sydane 25
Sydane granular	Synklor	Termiseal
Topiclor 20	Velsicol 1068	

Enterprise Name	Based in	Trade Name
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MERCK KGaA	DEU	
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 95

Product Name Chlordecone
C.A.S. number 143-50-0

Trade and brand names

Chlordecone	Ciba 8514	Clordecone
Compound 1189	Curlone	Decachloroketone
Epone	Gc 1189	General chemical 1189
Merex		

Enterprise Name	Based in	Trade Name
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SIGMA-ALDRICH FINE CHEMICALS	USA	
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For regulatory information, see page 100

Product Name Chlordecone
C.A.S. number 143-50-0

Trade and brand names

Product Name Chlordimeform *
C.A.S. number 6164-98-3

Trade and brand names

Acaron	Bermat	C 8514
Ent 27567	Ep-333	Fundal
Fundex	Galecron	Ovatoxion
Sn 36268	Spanone	

For regulatory information, see page 102

Product Name Chlorfenethol
C.A.S. number 80-06-8

Trade and brand names

Bcpe	Bpe	Chlorfenethol
Dcpc	Dcpe	Defense
Dimite	Dmc	Erysit super
Fac super	Micasin	Mikazene
Mitram	Mitran	Mitran 50 wp
Neosappiran	Qikron	Trichlorfenson
Votromite 58e		

Enterprise Name	Based in	Trade Name
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FISHER SCIENTIFIC CO.	USA	
ICN PHARMACEUTICALS INC.		
NIPPON SODA CO. LTD. (NIPPON SODA K.	JPN	
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 106

Product Name Chlorfenson
C.A.S. number 80-33-1

Trade and brand names

Acarbinex 60-40 wp	Acaricydol e 20	Acriben
Alborol special	Arborol special	Benzosulfonat
C 1,006	Carbinex 60-40 wp	Ccs
Corotran	Cpcbs	D 854
Danicut	Defense	Difenson
Dow k-6,451	Ephirsulphonate	Erysit
Ester sulfonate	Estonmite	Fac super
Genite 883	K 6451	K-101
Lethalaire q-58	Miticide k-101	Mitran 50 wp
Naftil acaricide	Niagaratran	Onex
Orthotran	Otracid	Ovatran
Ovatron	Ovex	Ovochlor
Ovotran	Roztoczol fluid	Sappiran
Sigmaton	Tediclor	Trichlorfenson
Votromite 58	Votromite 58 e	

For regulatory information, see page 106

Product Name Chlorfensulphide
C.A.S. number 2274-74-0

Trade and brand names

Mikasin Milbex

For regulatory information, see page 107

Product Name Chlorinol
C.A.S. number 2122-77-2

Trade and brand names

Klorinol Tcpe

For regulatory information, see page 108

Product Name Chlorobenzilate *
C.A.S. number 510-15-6

Trade and brand names

Acar	Acaraben	Acarben 4e
Acarozil 25 ec	Akar	Akar 338 ec
Benzan ec	Benzilan	Benz-o-chlor
Chlorbenzilat	Chloroben ec	Compound 338
Eftetrex 25 ec	Folbex	Folbex paper strips
G 23992	G 338	Geiqy 338
Gesapint	Heliocar	Kariver clorobencilato le
Kop-mite	Rospin 25 ec	Smoke-strips
Sr-300	Toxacar 25 ec	

Enterprise Name	Based in	Trade Name
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KUREHA CHEMICAL INDUSTRY CO. LTD. (K	JPN	
SUMITOMO KAGKU KOGYO (SUMITOMO CH		

For regulatory information, see page 108

Product Name Chloropicrin
C.A.S. number 76-06-2

Trade and brand names

Acquinite	Aeroborom	Aerobrom
Bm 33 c	Bromek metylu	Bromo
Brom-o-gas	Bromuro de metilo aporta	Chloro
Chlor-o-pic	Chloropicrine	Chlor-o-pil
De ceuster c.p.	Di-trapex-cp	Doiyopicrin
Dolochlor	Dowfume mc 2	Dowfume mc 2 sanac
Dowfume mc-2	G 25	Giftgas methylbromid
Klorpikrin	Larvacide	Larvacide 100
Methyl chloro d.c.	Methylbrom	Methyl-brom d.c.
Methylbromid	Methylbromid helm	Methylbromid mit chlorpikrin icc
Methyl-chloro d.c.	Microlysin	Pest master
Pic-clor	Picfume	Picride
Profume a	Ps	S 1
Telone	Terabol	Terrabol
Terr-o-gas	Terr-o-gas 67	Terr-o-gel
Tri-clor		

Enterprise Name	Based in	Trade Name
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FISHER SCIENTIFIC CO.	USA	
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Product Name Chloropicrin
C.A.S. number 76-06-2

Trade and brand names

Enterprise Name	Based in	Trade Name
GREAT LAKES CHEMICAL CORP., ICN PHARMACEUTICALS INC. MITSUI & Co., Ltd MITSUI CHEMICALS, Inc.	JPN	Chroloplctape Dorochlor Nemachlophen Sollean
NIPPON KAYAKU CO. Ltd NIPPON SODA CO. LTD. (NIPPON SODA K. PFALTZ AND BAUER INC RIVERSIDE/TERRA CORP.	USA	MBC 67-33 (3377-17-9779) MBC 67-33 (5785-24-9779) MBC 75-25 (3377-30-9779) MBC 75-25 (5785-40-9779) MBC 80-20 (5785-47-9779) MBC 98-2 (3377-16-9779) MBC 98-2 (5785-22-9779)
SIGMA-ALDRICH FINE CHEMICALS TAKEDA CHEMICAL INDUSTRIES LTD., (TAK TOTALFINAELF	JPN FRA	Agro-O-gas 50 Sobrom 67 Sobrom 98

For regulatory information, see page 111

Product Name Chloropropylate
C.A.S. number 5836-10-2

Trade and brand names

Acaralate	Basudin special 400-ec	Chlormite
G 24,163	Gesakur	Gesal-rosenpray
Gesal-rosenspray	Rospan 25	Rospan 25 ec
Rospin	Rospin 25	Rospin 25 ec
Rospine	Tespin ec	

For regulatory information, see page 112

Product Name Chlorthal-dimethyl
C.A.S. number 1861-32-1

Trade and brand names

Cepos	Ceptal	Chlorthal-dimethyl
D 75	Dac 4	Dac-893
Dacthal	Dacthal 75 procida	Dacthal 75 w
Dacthal w 75	Dacthalor	Dcpa
Decimate	Decthal w-75	Disort 75 pb
Fatal	Ramothal	Reftal 75
Rid	Tctp	Toxer cipoille
Toxer cipoille	Verbaten	Veronica-verdelger met gazonmest
Yerbaten		

Product Name Chlorthal-dimethyl
C.A.S. number 1861-32-1

Trade and brand names

Enterprise Name	Based in	Trade Name
CENEX/LAND O'LAKES AGRONOMY COMPA	USA	Weeder Yardmaster Lawn and Garden
ISHIHARA SANGYO CO., (ISHIHARA SANGY	JPN	Dacthal Flowable Dacthal W-75 Dymethyl-T

For regulatory information, see page 113

Product Name Chlorthiophos
C.A.S. number 21923-23-9

Trade and brand names

Asepta celathion 25% vloeibaar	Cela s 2957	Celamerck s 2957
Celathion	Celathion 18 ec	Celathion combi
Celathion spritzpulver	Cm s 2957	Ent27635
Oms 1342	S 2957	

For regulatory information, see page 114

Product Name Copper acetoarsenite
C.A.S. number 12002-03-8

Trade and brand names

Basle green	C.i. 77410	C.i. pigment 21
Emerald green	French green	Genuine paris green
Imperial green	Kings green	Meadow green
Methyl green	Mineral green	Mitis green
Moss green	Mountain green	Neuwied green
New green	Ortho p-q bait	Paris green
Parrot green	Patent green	Powder green
Schweinfurt green	Sowbug cutworm control	Swedish green
Vienna green	Wuerzberg green	Zwickau green

For regulatory information, see page 115

Product Name Crimidine
C.A.S. number 535-89-7

Trade and brand names

Adoc campagnols mulots	Adoc campagnols/mulots	Anti mus roede musecorn
Anticimex crimidinbete	Anti-mus roede musekron	Appat souris super actif mortis
Asepta crimidin korrels	Asepta crimidine korrels	Asepta sovitaup
Castrix	Castrix pellets	Castrix-koerner
Castrix-korrels	Crimidin	Crimidina
Crimtox	Kastrix	Kastrix-myyransyotti
Kiltin crimidin mosegrise:majis	Kiltin crimidine mosegrise:majis	Kiltin musekron med crimidin
Luxan muizendood	Morsegran bla musekron	Mortalin crimidinhvede mod mus
Mortalin crimidinmajis mod mosegrise	Myyransyott	Rapid tox souris
Rapid'tox souris	Skadedyrcentralens roede musekron	Skadedyrcentralens roede musekron
Souricide rapid tox	Suxan muizendood	Tanaflash grains souris
Zufa k. mosegrise:gift	Zufa k. mosegrise:gift	

Product Name Crimidine
C.A.S. number 535-89-7

Trade and brand names

Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Brestamid

For regulatory information, see page 117

Product Name Cyanide
C.A.S. number 57-12-5

Trade and brand names

Bri-cyde	Calcid	Calcid n
Calcyan	Cymaq	Liro cynoqas
Liro cynoqas q	Liro-cyanoqas	Rieved

For regulatory information, see page 118

Product Name Cycloheximide
C.A.S. number 66-81-9

Trade and brand names

Acti-aid	Actidion	Acti-dione
Acti-dione tqf	Actispray	Hizarocin
Kaken	Naramycin	Neocycloheximide
Nsc-185	Tb192	Tza

Enterprise Name	Based in	Trade Name
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 118

Product Name Cyhexatin
C.A.S. number 13121-70-5

Trade and brand names

Acarox	Acarpec	Acarpec 600
Acarstin	Acrisol	Agrichem cyhexatin-2
Akarstin 25 wp	Akkran 23 pb	Cuprofol p
Dorvert	Dowco 213	Draca
Gladiator	Luxan cyhexatin spuitpoeder	Metaran
Mitacid	Mitran	Only
Only 12 flowable	Plictran	Plictran 25 w
Plictran 25 wp	Plictran 60 f	Plictran 600 f
Plictran 600 f fluessiq	Plictran 600 fl	Plictran 80
Plictran 80 dry flowable acaricide	Plidion	Tartan 60 la
Tartan pb 25	Techn'acid	Triran
Triran fa	Trithin	

Enterprise Name	Based in	Trade Name
ICN PHARMACEUTICALS INC.	USA	

For regulatory information, see page 119

Product Name DDD
C.A.S. number 72-54-8

Trade and brand names

Product Name **DDD**
C.A.S. number **72-54-8**

Trade and brand names

Ddd	Dilene	Me1700
Rhothane	Rothane	Tde

For regulatory information, see page **126**

Product Name **DDT ***
C.A.S. number **50-29-3**

Trade and brand names

Aavero-extra	Aerosol-15	Aqritan
Aerosol-15	Aqritan	Aqrotox 75 mojabe
Aqritan	Aqrotox 75 mojabe	Anofex
Aqrotox 75 mojabe	Anofex	Antelope
Anofex	Antelope	Arkotin
Antelope	Arkotin	Arkotine
Arkotin	Arkotine	Azofeno ce
Arkotine	Azofeno ce	Azotox m-33
Azofeno ce	Azotox m-33	Bab-o-fly and mosquito killer
Azotox m-33	Bab-o-fly and mosquito killer	Bercema aero super
Bab-o-fly and mosquito killer	Bercema aero super	Bercema becosal
Bercema aero super	Bercema becosal	Bercema spritzaktiv emulsion
Bercema becosal	Bercema spritzaktiv emulsion	Bercema-aero-super
Bercema spritzaktiv emulsion	Bercema-aero-super	Bercema-becosal
Bercema-aero-super	Bercema-becosal	Black leaf 11 36 insect killer
Bercema-becosal	Black leaf 11 36 insect killer	Bonkil insecticide powder
Black leaf 11 36 insect killer	Bonkil insecticide powder	Bontox
Bonkil insecticide powder	Bontox	Bosan supra
Bontox	Bosan supra	Bovidermol
Bosan supra	Bovidermol	Brayton's residual insecticide
Bovidermol	Brayton's residual insecticide	Brulin's 4-x concentrate
Brayton's residual insecticide	Brulin's 4-x concentrate	Brulin's roach & ant toxicant
Brulin's 4-x concentrate	Brulin's roach & ant toxicant	Canfeno ddt
Brulin's roach & ant toxicant	Canfeno ddt	Celbane m-3
Canfeno ddt	Celbane m-3	Certo-kill
Celbane m-3	Certo-kill	Cesarex
Certo-kill	Cesarex	Chem-fog
Cesarex	Chem-fog	Chlofenotan
Chem-fog	Chlofenotan	Chlorophenothane
Chlofenotan	Chlorophenothane	Chlorphenotoxum
Chlorophenothane	Chlorphenotoxum	Cit thermosol
Chlorphenotoxum	Cit thermosol	Citox
Cit thermosol	Citox	Clofenotane
Citox	Clofenotane	Cock
Clofenotane	Cock	College brand household spray
Cock	College brand household spray	Cometox
College brand household spray	Cometox	Cook's real-kill mothproofers
Cometox	Cook's real-kill mothproofers	Cornell residual household spray
Cook's real-kill mothproofers	Cornell residual household spray	Cotton dust 3-10-40
Cornell residual household spray	Cotton dust 3-10-40	Cotton spray 3-9-0
Cotton dust 3-10-40	Cotton spray 3-9-0	Dairy-mist fly spray concentrate

Product Name	DDT *	
C.A.S. number	50-29-3	
Trade and brand names		
Cotton spray 3-9-0	Dairy-mist fly spray concentrate	Dampo
Dairy-mist fly spray concentrate	Dampo	Dawson #4 insecticide
Dampo	Dawson #4 insecticide	Ddt 25 ec
Dawson #4 insecticide	Ddt 25 ec	Ddt 75% wdp
Ddt 25 ec	Ddt 75% wdp	Ddt tech
Ddt 75% wdp	Ddt tech	Ddt technical
Ddt tech	Ddt technical	Dedelo
Ddt technical	Dedelo	Ded-tox dust
Dedelo	Ded-tox dust	Dee-dex "25"
Ded-tox dust	Dee-dex "25"	Demoxo
Dee-dex "25"	Demoxo	Deoval
Demoxo	Deoval	Detox
Deoval	Detox	Detoxan
Detox	Detoxan	Diamekta
Detoxan	Diamekta	Dibovin
Diamekta	Dibovin	Dicophane
Dibovin	Dicophane	Didiqam
Dicophane	Didiqam	Didimac
Didiqam	Didimac	Difanil
Didimac	Difanil	Digmar
Difanil	Digmar	Dodat
Digmar	Dodat	Double swallow
Dodat	Double swallow	Dow grain bin spray
Double swallow	Dow grain bin spray	Duplitox 5 + 3
Dow grain bin spray	Duplitox 5 + 3	Duricide ddt
Duplitox 5 + 3	Duricide ddt	Dykol
Duricide ddt	Dykol	Dyocide 8
Dykol	Dyocide 8	End-o-pest rose dust
Dyocide 8	End-o-pest rose dust	Estonate
End-o-pest rose dust	Estonate	Fedetox ddt 40-20
Estonate	Fedetox ddt 40-20	Flea-foil flea powder
Fedetox ddt 40-20	Flea-foil flea powder	Flit fly and mosquito killer
Flea-foil flea powder	Flit fly and mosquito killer	Flit moth proofer
Flit fly and mosquito killer	Flit moth proofer	Foretox 1
Flit moth proofer	Foretox 1	Foretox 3
Foretox 1	Foretox 3	Genidust d-10 dust
Foretox 3	Genidust d-10 dust	Genitol
Genidust d-10 dust	Genitol	Genitox
Genitol	Genitox	Gesafid
Genitox	Gesafid	Gesapon
Gesafid	Gesapon	Gesarex
Gesapon	Gesarex	Gesarol
Gesarex	Gesarol	Gnb
Gesarol	Gnb	Go-nex
Gnb	Go-nex	Guesapon
Go-nex	Guesapon	Guesarol
Guesapon	Guesarol	Gyron
Guesarol	Gyron	Haviland 3d insecticide
Gyron	Haviland 3d insecticide	Hep 5% insect killer

Product Name	DDT *	
C.A.S. number	50-29-3	
Trade and brand names		
Haviland 3d insecticide	Hep 5% insect killer	Hildit
Hep 5% insect killer	Hildit	Insektenil anti resistant
Hildit	Insektenil anti resistant	Insektenil di
Insektenil anti resistant	Insektenil di	Insektenil fluessiq v
Insektenil di	Insektenil fluessiq v	Insektenil insektentoeter
Insektenil fluessiq v	Insektenil insektentoeter	Ivoran
Insektenil insektentoeter	Ivoran	Ixodex
Ivoran	Ixodex	Jap beetle killer
Ixodex	Jap beetle killer	Kerfex r
Jap beetle killer	Kerfex r	Ketokil no. 2
Kerfex r	Ketokil no. 2	Killer dust d-10
Ketokil no. 2	Killer dust d-10	Knoxout insect spray and powder
Killer dust d-10	Knoxout insect spray and powder	Kopsol
Knoxout insect spray and powder	Kopsol	Lethalaire q-57
Kopsol	Lethalaire q-57	Little david insect spray
Lethalaire q-57	Little david insect spray	Micro ddt 75
Little david insect spray	Micro ddt 75	Miller's ddt household spray
Micro ddt 75	Miller's ddt household spray	Miller's spray-o-cide
Miller's ddt household spray	Miller's spray-o-cide	Monsanto santobane
Miller's spray-o-cide	Monsanto santobane	Mothene
Monsanto santobane	Mothene	Mutoxan
Mothene	Mutoxan	Neocid
Mutoxan	Neocid	Neocidol
Neocid	Neocidol	New larvex
Neocidol	New larvex	P,p'-ddt
New larvex	P,p'-ddt	Palsatox no. 79
P,p'-ddt	Palsatox no. 79	Panda
Palsatox no. 79	Panda	Parachlorocidum
Panda	Parachlorocidum	Patterson's household fly spray
Parachlorocidum	Patterson's household fly spray	Peb1
Patterson's household fly spray	Peb1	Penick roach insecticide no. 2
Peb1	Penick roach insecticide no. 2	Pentachlorin
Penick roach insecticide no. 2	Pentachlorin	Pentech
Pentachlorin	Pentech	Penticidum
Pentech	Penticidum	Peprothion
Penticidum	Peprothion	Pest-b-qon spray
Peprothion	Pest-b-qon spray	Pestroy
Pest-b-qon spray	Pestroy	Planter's truk-dust
Pestroy	Planter's truk-dust	Pp 175
Planter's truk-dust	Pp 175	R 50
Pp 175	R 50	Residol
R 50	Residol	Rohm & haas mosquito larvicide no. 30
Residol	Rohm & haas mosquito larvicide no. 30	Rukseam
Rohm & haas mosquito larvicide no. 30	Rukseam	Sani-deth will-kill water bug death
Rukseam	Sani-deth will-kill water bug death	Santobane
Sani-deth will-kill water bug death	Santobane	Stay-dee dusting powder
Santobane	Stay-dee dusting powder	Stratilon
Stay-dee dusting powder	Stratilon	Super-five
Stratilon	Super-five	Swift's gold bear d-b-e

Product Name **DDT ***
C.A.S. number **50-29-3**

Trade and brand names

Super-five	Swift's gold bear d-b-e	Tafidex
Swift's gold bear d-b-e	Tafidex	Technical granular ddt
Tafidex	Technical granular ddt	Top
Technical granular ddt	Top	Toxafeno ddt 40-20
Top	Toxafeno ddt 40-20	Toxametil 4-2-1
Toxafeno ddt 40-20	Toxametil 4-2-1	Tree-mist
Toxametil 4-2-1	Tree-mist	Twin light no spray
Tree-mist	Twin light no spray	Velan d
Twin light no spray	Velan d	Viscafeno ddt 40-20 ce
Velan d	Viscafeno ddt 40-20 ce	Zeidane
Viscafeno ddt 40-20 ce	Zeidane	Zerdane
Zeidane	Zerdane	Aavero-extra
Zerdane	Aavero-extra	Aerosol-15

Enterprise Name	Based in	Trade Name
ICN PHARMACEUTICALS INC.	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page **128**

Product Name **Demeton (O and S)**
C.A.S. number **8065-48-3**

Trade and brand names

Bay10756	Demeton	Demeton-o & demeton-s
Demox	Devisystox	E 1059 systemox
Ent 17,295	Ethyl systox	Guthion ms
Mercaptophos	Meta sytox	Meta sytox r
Meta sytox r special	Systox	

For regulatory information, see page **135**

Product Name **Demeton-S-Methyl**
C.A.S. number **8022-00-2**

Trade and brand names

Azidem	Bay 21/116	Bayer 15203
Bayer 21/116	Campbell's dsm	Cfc demeton-s-methyl 50
Chafer azotox 580	Demetox	Demetox sm
Duratox	Gusatox ms	Meta-dipterex
Meta-iso sytox	Meta-isosystox	Meta-isosytox
Metasystox	Meta-systox	Metasystox (i)
Metasystox (i) 200	Metasystox forte	Metasytox
Metasytox forte	Methyl demeton	Methyl sytox
Methylmercaptophos	Metoxide	Mifatox
Multapon	Pandox 63 ec	Remaphos
Rhodiatox kombi	Rospin	Symetox 50 ec
Tetratox 50 ec	Trimeton ec	Tripart systemic insecticide

For regulatory information, see page **137**

Product Name Dialifos
C.A.S. number 10311-84-9

Trade and brand names

Dialifor	Fendik	Hercules 14503
Rakatop	Rogana tk	Thorak e
Torak	Torak 48 ec	

For regulatory information, see page 138

Product Name Diallate
C.A.S. number 2303-16-4

Trade and brand names

Avadex	Cp 15,336	Datc
Diallat	Diallatre	Hermoo diallate
Pyradex	Pyradex fl	Pyradex fluid

Enterprise Name	Based in	Trade Name
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PHARMACIA	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 138

Product Name Dianisidine
C.A.S. number 119-90-4

Trade and brand names

Acetamine diazo navy rd	Amacel developed navy sd	Azoqene fast blue b
Blue base irga b	C.i. bazette diazo navy blue 28	C.i. disperse black 6
Cellitazol b	Diacel navy dc	Fast blue b base
Hiltonil fast blue b base	Kayaku blue b base	Lake blue b base
Naphthanil blue b base	Setacyl diazo navy r	

Enterprise Name	Based in	Trade Name
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PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 387

Product Name Dichlofenthion
C.A.S. number 97-17-6

Trade and brand names

Aatifon	Aatiram-combi-neu	Dichlofention
Dichlofenthion	Diclofenthion	Diclofention
Diclophenthion	Tri-vc13	Vc-13 nemacide

Enterprise Name	Based in	Trade Name
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PFALTZ AND BAUER INC	USA	O-(2 4-Dichlorophenyl)O o-Diethylphosphorothionate 90%
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For regulatory information, see page 140

Product Name Dicofof
C.A.S. number 115-32-2

Trade and brand names

Aa-fleur spuitbus 10251	Aa-fleur super	Aa-kelthane ap
Acafor	Acarcid	Acared 40s
Acarfen	Acaricida dite	Acaricida duplo zeltia
Acaricida h	Acaricida hoechst	Acaricida hoescht

Product Name	Dicofol	
C.A.S. number	115-32-2	
Trade and brand names		
Acaricida jovitam	Acaricida oro doble	Acaricida polivalente basf
Acaricida rumianca	Acaricida sandoz	Acaricida total permutadora
Acarin 42 ec	Acarit	Acarkil
Acarkit	Acarnet ec	Acaroil e-3
Acaroil k	Acarox	Acarox forte
Acarpolv 1-3	Acarsivam 34 s	Acarsivam kt
Acarsivan 34 bis	Acartal-t	Acarthane
Acarthane ec	Acartop	Acartot
Acartotal	Acatox kt	Acavers 35
Acriben	Adiakar 250	Aqer akar kt
Aqer akar kt 18	Aqer akar kt 18 pb	Aqer akar kt 42
Aqrex k-48	Aqrex kt-22	Aqrex kt-4
Akatox 35	Aracnol e 71	Aracnol k
Aramin	Aranol	Aratane 48 e
Aratane w 35	Atetran om caffaro	Bercema akafunin
Bercema-akafunin	Bomba total kb jardin	Brabant dicofol spuitpoeder
Callifol	Carbax 360	Carbinox 35 w
Carkil	Cekudifol	Certan
Childion	Childion e	Compo-rozen-spray-roses
Cpca	Cupraqrol ds	Decofol
Dicaron	Dicofol	Dicofol 4 ec
Dicofol doble 16-6	Dicophyt	Dicophyt 50 el
Dicothion	Dicotion	Dicoveex le
Difol 18.5 wp	Difon ec	Dimop 200
Ditrix	Dtmc	Duphar kelthane ap
Duphar kelthane ap spuipoederr	Duphar kelthane ap spuitpoeder	Elkar
Emanol	Eno acar 22	Ertane
Ertane compuesto	Fenilan	Fenilan caffaro
Ficotradifol le	Fisons araignees rouges	Foldic 18.5 ec
Folimat tk	Fumite dicofol	Fumite dicofol smoke
Fw 293	Fw-293	Hilfol
Hs 186	Juanox	Kadizol 6-16
Kadizol triple	Kariver doble tk le	Kariver le
Kb araignee rouge	Kb araignee rouge s	Kb bomb total
Kb bombe total	Kedion-sti	Kelcide
Kelmor s	Keltane 35 w	Keltanoide
Keltd	Keltefor	Kelthane
Kelthane 20 E	Kelthane 25 rhodia	Kelthane 35 pm
Kelthane 35 w	Kelthane 50 sandoz liquide	Kelthane aa-stuifpoeder
Kelthane ap 19-22.5 wp	Kelthane e 30	Kelthane hoechst
Kelthane m f	Kelthane MF	Kelthane mf 48
Kelthane mf w	Kelthane mixte	Kelthane mixte p
Kelthane polv	Kelthane spiess	Kelthane spiess-urania
Kelthane spritzpulver	Kelthane spritzpulver/mouillable	Kelthane sproeytepulver
Kelthane W	Kelthane w 35	Kelthane w 35 littorale
Kelthanoide	Kelthion	Kelthion ec
Keltnaethanol	Keraton	Kilthion 22 ec
Kt 22	Lairana adulticide	Lairana total con tetradifon
Laitri	Mataranha total	Metarex el

Product Name **Dicofol**
C.A.S. number **115-32-2**

Trade and brand names

Milbol ec	Mitekil 22	Mitekil r
Mitiqan	Mition c galactoma	Miton c galctoma
Mitox 18.5 ec	Mitox 42 ec	Mota-kvalster
Oicar 30	Ovacid	Ovacide
Oxfor	Parasoufre acaricide 1.5%	Paraxen new spray
Pbi dicofol 20	Pentasol nf	Pflanzol
Pflanzol kaltnebel	Probel 3-60	Probel doble
Probel k	Probelte 3-1	Remadion 25
Remadion s	Remanol	Sigmaton
Sovifol	Spintox	Superdust
Taxene	Tedane	Tedane combi pb
Tediclor	Tedion kelthane ec	Tedion kelthane p
Tekel	Tekeldion le	Tetram om
Thiocide m acaricide	Total grima	Tricimite
Trithion k 1-3 p	Trithion kelthane 6-16 le	Trithion kelthane 8-32
Turbair acaricide	Turbair dicofol	Tuver acaricide
Vinipur extra	Vitigan	Zz-acaricida doble emuls

Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Kelthane
BASF AG.	DEU	
CONAGRA INC.	USA	Dicofol 4 EC
FISONS LTD.	GBR	
GROUPE LIMAGRAIN	FRA	
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Mitigan (Acarin) Technical Mitigan EC Mitigan Technical Grade Mitigan WP
ROCHE HOLDING LTD.	CHE	
ROHM & HAAS CO.	USA	Kelthane 35 Kelthane 50 Kelthane 50 WSP Kelthane MF Kelthane MF-B Kelthane T/O
SIGMA-ALDRICH FINE CHEMICALS		
TH INTERNATIONAL HOLDING B.V.	NLD	

For regulatory information, see page 141

Product Name **Dicrotophos**
C.A.S. number **141-66-2**

Trade and brand names

Bidrin	Bidrin 24	C 709
Carbicron	Carbomicon	Ciba 709
Diapadrin	Dicrotofos	Ektafos
Etaphos	Karbicron	Nemaphos
Oleobidrin	Sd 3562	Shell sd-3562
Trans-bidrin	Ultacron	

Product Name Dicrotophos
C.A.S. number 141-66-2

Trade and brand names

Enterprise Name	Based in	Trade Name
AMVAC CHEMICAL CORPORATION	USA	Bidrin 8 Water Miscible
ICN PHARMACEUTICALS INC.		
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 143

Product Name Dieldrin *
C.A.S. number 60-57-1

Trade and brand names

Aldrin epoxide	Alvit	Compound 497
Alvit	Compound 497	Dieldrex
Compound 497	Dieldrex	Dieldrin permetezo
Dieldrex	Dieldrin permetezo	Dieldrite
Dieldrin permetezo	Dieldrite	Dielmoth
Dieldrite	Dielmoth	Dorytox
Dielmoth	Dorytox	Ensodil
Dorytox	Ensodil	Exo-dieldrin
Ensodil	Exo-dieldrin	Heod
Exo-dieldrin	Heod	Illoxol
Heod	Illoxol	Insectlack
Illoxol	Insectlack	Kombi-albertan
Insectlack	Kombi-albertan	Matas insektlak
Kombi-albertan	Matas insektlak	Mortalin giftlak mod krybende
Matas insektlak	Mortalin giftlak mod krybende	Moth snub d
Mortalin giftlak mod krybende	Moth snub d	Octalox
Moth snub d	Octalox	Panoram d-31
Octalox	Panoram d-31	Permetezo
Panoram d-31	Permetezo	Pestex
Permetezo	Pestex	Quintox
Pestex	Quintox	Red shield
Quintox	Red shield	Sd 3417
Red shield	Sd 3417	Shell dieldrin
Sd 3417	Shell dieldrin	Sheldrite mothproofer
Shell dieldrin	Sheldrite mothproofer	Talox
Sheldrite mothproofer	Talox	Termitox
Talox	Termitox	Aldrin epoxide
Termitox	Aldrin epoxide	Alvit

Enterprise Name	Based in	Trade Name
ICN PHARMACEUTICALS INC.	USA	
MERCK KGaA	DEU	
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 144

Product Name Dienochlor
C.A.S. number 2227-17-0

Trade and brand names

Dienox	Lunan dienochlor spuitpoeder	Luxan dienochloor 500 fc
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Product Name Dienochlor
C.A.S. number 2227-17-0

Trade and brand names

Luxan dienochloor 500 fceder	Luxan dienochloor spuitpoeder	Pentac
Pentac 50-plant	Pentac aquaflow	Pentac flowable 500 fw
Pentac wp quino		

Enterprise Name	Based in	Trade Name
SYNGENTA	CHE	Pentac Aquaflow Miticide Pentac Wettable Powder Miticide

For regulatory information, see page 150

Product Name Difenzoquat methyl sulfate
C.A.S. number 43222-48-6

Trade and brand names

Avenge	Avenge 150 I	Avenge 2
Avenge 200	Avenge 200/300	Avenge 200-e
Avenge 400-a	Avenge sp	Finaven
Ludocyan 25	Meganet	Superaven 33 pm
Yeh-yan-ku		

Enterprise Name	Based in	Trade Name
BASF AG.	DEU	Avenge

For regulatory information, see page 151

Product Name Dimefox
C.A.S. number 115-26-4

Trade and brand names

23465 rp	Emetres	Hanane
Rp	Terra-sytam	

For regulatory information, see page 152

Product Name Dimethoate
C.A.S. number 60-51-5

Trade and brand names

Aadimethoat	Aaflystal vloeibaar	Ac-12880
Ace-thios	Acethios 40	Afidon
Afidrex 3 p	Afidrex 40	Afidrex 40 ce
Afithion	Aflix	Aqer dimetoato 20
Aqror	Araqol I 40	Asepta roxanex
Asepta roxion	Azinphos plus	Azinphos-d-agriben
Basf dimethoate 40	Bi 58 ec	Bi 58 ec cekuthote
Bio long last	Bio long-last	Blattlaus spray
Boots greenfly and blackfly killer	Brabant dimethoate	Campbell's dimethoate 40
Carpul	Celathion combi	Ceritox
Certox	Chemathoate	Chemathoate 96%
Chimac dim	Chimac dimethoat 40	Clifton dimethoate 40
Clinex	Compo insektenvernichter	Croptex dimethoate
Crysthyon 2I	Cyanotril	Cygon
Dacol	Dacol I 20	Dacol I 40
Dafene 20 pm	Dafene I-40	Dafene polvo
Dafenil	Dantox 20 ec	Daphene

Product Name	Dimethoate	
C.A.S. number	60-51-5	
Trade and brand names		
Decis d	De-fend	Demecor
Demos	Demos-l40	Demuscan 60
Deviqon	Diqor	Dim I 20
Dim lc	Dimelfan	Dimet
Dimetal	Dimetec	Dimethoat-40-aqriben
Dimethoat	Dimethoat amonn	Dimethoat blau
Dimethoat ici	Dimethoat na 40	Dimethoate
Dimethoate aqriben	Dimethoate bayer 10	Dimethoate blau
Dimethoate du pont	Dimethoate ici	Dimethoate technisch 95%
Dimethugec	Dimetoat amonn 3 p	Dimetoato 25
Dimetoato 40	Dimetoato 40 bayer	Dimetoato 40 e
Dimetoato amonn 38	Dimetoato valagro	Dimetoato valagro ec
Dimetogen	Dimezyl	Diostop
Duphar azinfos/dimethoat	Duphar azinphos/dimethoat spuitpoed	Eliqor 20
Emeldac	Etisso combi	Etisso combi duengerstaebchen
Etisso insektenvernichter	Etisso-insektenvernichter	Finetyl d
Finetyl-d	Fino 40 ec	Fisons greenfly and blackfly killer
Fisons pucerons s	Flutrin	Folimat tk
Folimat-rosen-spray	Gesal-rosenspray	Guthiben r
H.h. dimethoat	H.h.dimethoat	Hortamon s.r. p.
Hortamon s.r.p.	Insector b	Insekten spuitmiddel roxion
Jebodimethoat	Kb jardim insecticida para plantas	Kb jardim insecticida para plants
Kb pucerons	Keriquards	Ko mouche 33
Ko mouche df	Kvk dimethoat 400	Lizetan-zierpflanzenspray
Luxan azinophos-spuirpoeder	Luxan azinphos-d-spuirpoeder	Luxan dimethoate
Luxan stalvliegendood	Malix combi	Malix-combi
Maxima pflanzenschutz	Metrol 48 ec	Mitekil r
Multexol	Multivall 40	Muscaton 50
Muskitol-e 28	Noita karpasruiskute	Noita-karpasruiskute
Pamir	Pancide d	Perfekthion
Perfekthion s	Phosan plus	Phytocur
Phytocur v	Posidor	Prodathoate
R-3	Racusan 40 le	R-dimetoaatti
R-dimetoaatti basf	RI 40	Rodoqan 14
Roqatox	Roqodan	Roqodan 14
Roqodial	Roqor	Roqor 40
Roqor as	Roqor e	Roqor fly kombi
Roqor I 40	Roqor I 40 ec	Roqor I 50
Roqor me	Roqor pb	Roqor r-40
Roqor-fly-kombi	Roqosol	Romefos 40
Roxion	Roxion 40	Roxion 40 ulv
Roxion le	Roxion s	Salut
Seviqor	Shell dimethoat	Shell dimethoat 28
Shell thigor 40	Sistematon 40	Sistematon e-3
Substral pflanzenschutzspray	Systhoate 400	Systoate
Systoate 40	Systoate 400	Techn'oate 40
Teletox 40	Terodim	Thioate
Tiorog pb	Totalene	Trimethox
Trimetion	Turbair systemic insecticide	Vitex

Product Name Dimethoate
C.A.S. number 60-51-5

Trade and brand names

Xilin 72 Zeltion 40 Zeltion pm

Enterprise Name	Based in	Trade Name
BASF AG.	DEU	BI 58 Perfekthion Salut Saluthion
CONAGRA INC.	USA	Clean Crop Dimethoate 25W Clean Crop Dimethoate 400 Dimethoate 2.67 EC
FISONS LTD.	GBR	
HELENA CHEMICAL CO.	USA	Dimethoate 4EC Dimethoate, 5 lb
ICN PHARMACEUTICALS INC.		
MICRO FLO COMPANY		Dimethoate 267 Dimethoate 4E
NUFARM	AUS	Dimethoate
OCCIDENTAL PETROLEUM CORP.	USA	
PFALTZ AND BAUER INC		
RIVERSIDE/TERRA CORP.		Dimate 4E
SETRE CHEMICAL COMPANY		Dimethoate 4EC
SIGMA-ALDRICH FINE CHEMICALS		
SUMITOMO KAGKU KOGYO (SUMITOMO CH	JPN	
TAKEDA CHEMICAL INDUSTRIES LTD., (TAK		

For regulatory information, see page 153

Product Name Dinoseb *
C.A.S. number 88-85-7

Trade and brand names

Aalotox	Aatox	Aqro dinoseb 500
Ancrack	Aresin combi	Aresin combi pm
Aresin kombi	Aretit	Aretit ce
Aretit fluessiq	Aretit fluessiq/liquide	Aretit neste
Aretit pm	Asepta dnbp	Asepta dnbp loofdoder extra
Asepta dylopheen	Barenbruq dnbp	Barenbruq dndp
Basanite	Berner-dinoseb	Bnp 20
Bruelex forte	Butaphene	Butifene
Butilfene	Butyl-gelb	Caldon
Chemox	Chemox general	Chemox pe
Chemsect dnbp	Chimac dnbp 120	Chimac fane
Chimac loofdood	Chimac tufane	Destbuxol
Dibudrin 10	Dibutox	Dillex fluessiq
Dinamite	Dinitrall	Dinitro
Dinitro 3	Dinitro general	Dinopec
Dinoseb 1,3,5	Dinoseb forte	Dinoseb oel
Dinoseb-agriben	Dinoseb-in-olie-agriben	Dinugec s
Dn 289	Dnbp fluessig acier	Dnosbp
Donoseb	Dow general weed killer	Dow selective weed killer
Duphar dinoseb in olie	Dynamyte	Dytop

Product Name **Dinoseb ***
C.A.S. number **88-85-7**

Trade and brand names

Elgetol 318	Enid dinitro	Fanicide sp
Farmon desicoil 25	Farmon dnbp (amine)	Gebutox
Gebutox valaqro	Hel-fire	Herbasol 375
Hivertox	Hoechst dinoseb amine	Hoechst dnbp in oil 25
Horco I	Ivorin super	Ivosit
Ivosit vloeibaar basf	Jeboloofdood-dnbp	Kabrol
Kiloseb	Knoxweed	Kvk-dinoseb
Ladob	Laseb	Liro-dnbp vloeibaar
Liromort dnbp in olie	Liromort qc	Luxan dinoseb olie conc.
Marks dnbp in oil 25	Napto	Nerb 40pb
Nitro d 36	Nitropone c	Nixol da
Oleofanan	Oxyfane 275	Pe
Persevtex	Phenotan	Phytoxone
Premerge 3	Premilan	Sanjosan
Sanjosan 10	Selective sandoz	Selectweed
Sevton	Shell dinoseb 500	Shell dnbp in olie
Shell wn 250	Sinox general	Solamort
Sparic	Spurge	Subitex
Super fanox	Super lovitox	Superfanox
Super-kabrol	Techn'ofane	Technofane 275
Tribusan I	Triherbide dnbp-vloeibaar	Tufane extra
Unicrop dnbp	Vertac dinitro weedkiller5	Vertac general weed killer
Vond dinoseb olie qc	Vondofanex	Vondofanex pdt
Weedkiller lapa	Wsx-8365	

Enterprise Name	Based in	Trade Name
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A.H. MARKS & CO. LTD

GBR

ICN PHARMACEUTICALS INC.

USA

SIGMA-ALDRICH FINE CHEMICALS

For regulatory information, see page **155**

Product Name **Dinoseb-acetate**
C.A.S. number **2813-95-8**

Trade and brand names

Agrichem dinoseb-acetaat	Aresin combi pm	Aresin kombi
Aretit	Aretit 50 ec	Aretit ce
Aretit em	Aretit fluessiq	Aretit fluessiq/liquide
Aretit pm	Aretit tekuty	Aretit wp
Aretit/aretite	Aretit-spritzpulver	Avosit
Bruelex forte	Chimac dino	Dillex fluessiq
Dinoceb-acetaat-vloeibaar	Hoe 02904	Ivorin super
Ivosit	Ivosit vloeibaar	Ivosit vloeibaar basf
Phenotan	Phenotan liquide	

For regulatory information, see page **159**

Product Name **Dinoterb**
C.A.S. number **1420-07-1**

Trade and brand names

Dm 68	Dm 88	Ektar forte
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Product Name Dinoterb
C.A.S. number 1420-07-1

Trade and brand names

Extra forte	Fluessiq herboqil	Herboqil
Herboqil fluessiq	Herboqil liquide	Herboqil liquide d
Herboqil super	Luxan tolkan v	Phenoterb
Stirpan forte	Super herboqil	Tolkan a
Tolkan as	Tolkan s	Tolkan super
Tolkan v	Ultracron	

For regulatory information, see page 160

Product Name Dioxacarb
C.A.S. number 6988-21-2

Trade and brand names

Elocron	Famid
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For regulatory information, see page 161

Product Name Disulfoton
C.A.S. number 298-04-4

Trade and brand names

Acaphyd q	Campbell's disulfoton	Campbell's disulfoton fe 10
Campbell's disulfoton p10	Dimaz	Disulfoton
Disyston	Di-syston	Disyston 10 g
Disyston granulat	Disyston p-10	Dithiodemeton
Dithiosystox	Doubledown	Dution
Ekatina	Ekatina td	Ethyl thiometon
Ethylthiometon b	Frumin	Glebofos
Knave	M 74	Mocap super 15 g
S 276	Solvigran 10	Solvirex
Solvirex 10 g	Sytosol	Terraclor super-x plus qr
Tetrachlor super-x plus qr	Thiodemeton	Thiodemetron
Twinspan	Vuaqt 1-4	

Enterprise Name	Based in	Trade Name
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BASF AG.	DEU	
BAYER AG.		Disyston
		Di-syston 15% granular
		Di-syston 8 (Low odor)
COMPTON CORPORATION	USA	Terraclor 6.5 plus Disyston 6.5% Granular
		Terraclor Super X plus Di-syston EC
ENI SPA	ITA	
FISONS LTD.	GBR	
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 163

Product Name Diuron
C.A.S. number 330-54-1

Trade and brand names

Cekiuron	Cekuron	Crisuron
Dailon	Decimax	Diater
Di-on	Ditox-800	Diurex

Product Name Diuron
C.A.S. number 330-54-1

Trade and brand names

Diurrol	Diuron	Diuron bayer
Doilate	Drexel diuron 4l	Dynex
Farmco diuron	Herbixol	Karmex
Krovar	Marmer	Ronex
Tigrex	Unidron	Ustinex
Vonduron		

Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Drop Ultra Ginstar EC
BASF AG.	DEU	Sahara DG Topsite 2.5G
BAYER AG.		Rapir WG Ustinex G Neu
CONAGRA INC.	USA	Diuron 80 WDG
DOW CHEMICAL CO., THE		Dirimal Diuron 4L Herbicide IVM Diuron 80DF herbicide (IVM) Quintet Sanuron 80PH
DREXEL CHEMICAL CO.		
FISONS LTD.	GBR	
ICN PHARMACEUTICALS INC.	USA	
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Cottonex D Diurex SC Diurex Technical Grade Diurex WP
NUFARM	AUS	Diuron 900DF Diuron Flowable
PFALTZ AND BAUER INC	USA	
RIVERDALE CHEMICAL COMPANY		Dibro 2+2 Riverdale Topsite 2.5G
RIVERSIDE/TERRA CORP.		Diuron 4L Diuron 80 DF Total
SIGMA-ALDRICH FINE CHEMICALS		
SYNGENTA	CHE	Fenican FW Impi Macot SC

For regulatory information, see page 164

Product Name DNOC
C.A.S. number 534-52-1

Trade and brand names

Aadinol vloebaar	Aaetzmittel 'marktredwitz'	Aalomort gc
Abc	Aceite amarillo argos	Agrofitol giallo
Alborol special	Antinonin	Antinonnin
Araborol	Arborol	Arborol m
Arborol special	Arbre sain	Asepradenol

Product Name	DNOC	
C.A.S. number	534-52-1	
Trade and brand names		
Asepta molyso vier	Aseptadenol	Benitrol creme
Biticide 50	Bonitril creme	Bonitrol creme
Brabant dnoc vloeibaar	Bruelex	Bruelex fluessiq/liquide
Capsine	Carbofort 3	Casoron 133 (r) combi
Casoron 133(r)combi	Ceral	Chemaqri d n o c liquide
Chemsect dnoc	Chmsect dnoc	Cresol
Cresylex creme	Dca 50	Degrassan
Dekrysil	Detal	Diallolio
Dicopur dnoc	Dicresol	Dillex
Dinirania	Dinitosol	Dinitro
Dinitrodendroxal	Dinitrokarbolineum staehler	Dinitrol
Dinitrol 3	Dinoc	Dinomon flydende
Dinurania	Diserval	Dital
Ditrosol	Ditrosol-karbol 'schacht'	Dn
Dnc	Dn-dry mix no2	Dno creme valagro
Dnoc (creme) valagro 46	Dnoc 50 hoko	Dnoc agro fluid
Dnoc ammoniumzout	Dnoc eurofyto	Dnoc fluessiq/liquide
Dnoc(creme)valagro	Dnoc-burriel	Docnol
Duphar dnoc vloeibaar	Duphar vloeibare dnoc	Dwulitro-o-krezol
Dytrol	Dytrol 50	Dytrol ff
Effusan	Elqetiver active	Elqetol
Elqetol 30	Elipol	Erbitox giallo pasta
Etzel	Extar a fluid	Extar lin fluid
Extra a fluide	Extra a fluidecombi	Extra lin fluide
Extra sandoz vln	Extrar	Flavina sandoz
Fulmit especial amonn	Gelbkarbol 3/carbol jaune 3	Gelbkarbol3 / carbol jaune 3
Giallo spray	Giallolio	Hedolit
Hedolite	Hedolit-konzentrat	Herbogil creme
Hercynia gelb	Hercynol	Hermoo dnoc liquide
Ibortox pasta	Jackyl s	K iii
Karbolina dnk	Krenite	Kreozan
Kresamone	Krezoto l50	Lipan
Liro dnoc poudre mouillable 80	Lutin-neu-winterspritzmittel	Luxan dnoc
Luxan dnoc 40% creme	Malertox grano giallo	Neudroff dn 50
Nitrador	Nitricide 50	Nitrofan
Nitromin 50	Nitruqec	Novensnda
Ocrol	Oftan fluessiq	Oftan-fluessiq/liquide
Olidoc	Onutex	Plk trifocid 50 flydende
Prokarbol	Rafex	Raphatox
Rumesan	Sanac dnoc 46% creme	Sandolin a
Sandoline	Sandoline a fluide	Selinon
Selinon 50 liquido	Selinon liquide	Selinox
Seppic verger	Seppic vigne	Shell dnc vloeibaar
Shell dnoc-f	Shell wn 101	Sigmaton
Sincex	Sinox	Skill
Sovion traitement d'hiver	Stripan 50	Superelgetol liquide
Supersinox liquide	Supersinox vloeibaar	Suprerlgetol liquide
Techn'ocolor	Tecsan amarillo	Traitement d'hiver umupro
Trifanex	Trifanex l	Trifccide

Product Name **DNOC**
C.A.S. number **534-52-1**

Trade and brand names

Trifocid f	Trifocide	Trifocide creme
Trifocide liquide	Trifocide pasta	Trifocide vloeibaar dnoc
Trifocide vloeibare dnoc	Trifrina	Trinoc
Triscam	Universol	Veralin 1,5
Veralin 3 fluide	Veralin f	Veraline 3 fluide
Veraline f	Volck invierno multiple	Winter wash
Yellow cil	Yellow paste	

Enterprise Name	Based in	Trade Name
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A.H. MARKS & CO. LTD	GBR	
FISHER SCIENTIFIC CO.	USA	
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page **165**

Product Name **Drazoxolon**
C.A.S. number **5707-69-7**

Trade and brand names

Drazaxolon	Ganocice	Hydrazolon
Jf 1633	Milcol	Milcol
Mil-col 30	Pp 781	R 22395
Saisan	Saisan 30	Saison
Sopracol		

For regulatory information, see page **167**

Product Name **Endosulfan**
C.A.S. number **115-29-7**

Trade and brand names

Adevin	Afidan m-40	Aflix
Aqer dam-35	Aqrichim endosulfon 36% liquide	Atrchim endosulfan spp
Azosan	B 404 emulsion	Basf rosenstanzmittel universal
Bayer endosulfan	Benzoepin	Beosit
Beosit 35 fluessiq	Beosit 35 spritzpulver	Bio 5,462
Brabant endosulfan 35%vloeibaar	Ceregam total	Chemian q 10
Chemian p 5	Chimac endo	Chimac endo 350
Chloroble fort superfix d	Chlorthiepan	Chlorthiepin
Cloca	Cloca ec 35	Cotolita tio
Crisulfan	Cuprolate mq liquide	Cuprolate plus mq
Cuprolate plus mq 3	Cuprolate plus t4	Cyclodan
Cyclodan hoechst emulgerbar	Cyclodan hoechst sprutpulver	Decasulfan
Devisulphan	Dimelfan	Diothan 35% e
Dorital	Drexel endosulfan	Drifebe ap
Ekadrine	Ekadrine pe	Endamon
Endo 35 pb	Endocel	Endocerac
Endofex	Endomed	Endosan
Endosele	Endosivam pb	Endosol
Endosulfan	Endosulfan 35 pb bayer	Endosulfan 5g wb
Endosulfan bayer	Endosulfan eurofyto 350I-vl	Endosulfan protex
Endosulfanol	Endoter	Endotrin 35 ec

Product Name	Endosulfan	
C.A.S. number	115-29-7	
Trade and brand names		
Endovis 35 pb	Endox	Ensure
Entomofin	Eptane	Eptane 30
Eptane I	Gammoran rouge b	Gammoran tmc
Ganerdon	Germinate mq liquide	Germinate t4 liquid
Germinate total	Granella verde	Helm endosulfan e.c.
Hermoo endosulfan wp	Hexasulfan	Hildan
Hoe 2671	Idrolin pb	Indosaiaf
Insecticida agricola	Insectophene	Insektenstaeubemittel hortex neu
Insekten-staeubemittel hortex neu	Kop thiodan	Kopthiodan
Litocide f	Lusadon	Lusadon caffaro
Luxan endosulfan	Luxan endosulfan 50%	Malix
Malix combi	Mandops endosulfan 35	Melophen-emulsion
Mendene	Metendox	Metofan
Minotor mixte t	Mitac e	Msj endosan 35 ec
Nia 5462	Niaqara 5462	Oleo-endolulfan
Oleo-thiodan	Oms 570	Palsatox no. 167 liquido
Parasitan staub	Paredan	Pexos
Phaser	Pirox neu	Posidor
Pp thiodan liquid	Prometen plynny	Quinolate mq
Quinolate mq fl	Quinolate plus mq safi	Rasayansulfan
Rhodan 35 ec	Rhodan super	Rioverde
Risaqro v	Rogodan	Sd 4314
Serk	Sialan 35 ec	Spendos
Suldan	Sulfadan	Sulfadan pb
Sulfadan terra	Sulfanex	Sulfonex
Sutene 35 ec	Tebuzate mq liquide	Tebuzate mqc
Tech	Techn'ufan	Thifor
Thiiometilan	Thimul	Thioate
Thiodan	Thiodan 3% espolv	Thiodan 35 ce
Thiodan 35 ec	Thiodan 35 em.	Thiodan 47% wp
Thiodan combi	Thiodan emulgierbar	Thiodan emulsion
Thiodan extra ec	Thiodan fluessiq	Thiodan giftkoeder
Thiodan granulato	Thiodan granule	Thiodan molhavel
Thiodan plynny 35	Thiodan po valagro	Thiodan polv.
Thiodan rooktablet	Thiodan spritzpulver	Thiodan spritzpulver 35
Thiodan staub	Thiodan-staub	Thiodex 50 wp
Thiofar	Thiofor	Thiomat 4 d
Thiometilan	Thiomul	Thionate
Thionex	Thionex po	Thiosulfan
Thiotox 10 d	Thiotox 35 ec	Thiotox insecticide
Thioval	Tionex	Tiovel
Toxidian	X700 red label	
Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Phaser Thiodan
FMC CORPORATION	USA	Golden Leaf Tobacco Spray Thiodan 3 EC Thiodan 50 WP

Product Name Endosulfan
C.A.S. number 115-29-7

Trade and brand names

Enterprise Name	Based in	Trade Name
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Thiodan CO Cottonseed Oil 2EC
		Methofan EC
		Methofan ULV
		Thionex Dust
		Thionex EC
		Thionex Granular
		Thionex ULV
		Thionex WP
MICRO FLO COMPANY	USA	Thionex Technical Grade
		Endosulfan 3EC
		Endosulfan 50WP
NUFARM	AUS	Endosulfan 350 EC
RIVERSIDE/TERRA CORP.	USA	Thirethrin

For regulatory information, see page 167

Product Name Endothal-sodium
C.A.S. number 129-67-9

Trade and brand names

Accelerate	Aquathol granular	Aquathol k
Asepta prebetox	Des-i-cate	Endothal turf herbicide
Herbicide 273	Hydrothol 191 granulare	Hydrothol qr
Pennthal 19		

For regulatory information, see page 169

Product Name Endothion
C.A.S. number 2778-04-3

Trade and brand names

Enocide	Exothine	Exothion
Phosphopyran	Phosphopyron	

For regulatory information, see page 169

Product Name Endrin
C.A.S. number 72-20-8

Trade and brand names

Accelerate	Agrine	C00157
Compd	Compound 269	Endrex
Endrical	Endricol	Endrin
Endrin 19.5 ec	Endrin 2q	Endrin-20
Endrine	Endrotox	Enpar
Envel	Experimental insecticide 269	Hexadrin
Insectrin	Isodrin epoxide	Luxan endrin 20%
Luxan endrin 20% vloeibaar	Mendrin	Multitox 19.5% c.e.
Nendrin	Oktanex	Oms 197
Palmarol	Pinodrin	Sd 3419
Shell endrex	Velsical	

Enterprise Name	Based in	Trade Name
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Product Name Endrin
C.A.S. number 72-20-8

Trade and brand names

Enterprise Name	Based in	Trade Name
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SIGMA-ALDRICH FINE CHEMICALS	USA	
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For regulatory information, see page 170

Product Name EPN
C.A.S. number 2104-64-5

Trade and brand names

Buitrol 500	Epanitro tecnico	Epengro-50
Epenthion	Epn	Epn 300
Ethyl mercury chloride	Kumiphos	Pin
Veto		

Enterprise Name	Based in	Trade Name
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NIPPON SYNTHETIC CHEMICAL INDUSTRY	JPN	
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For regulatory information, see page 175

Product Name Ethoprofos
C.A.S. number 13194-48-4

Trade and brand names

Di-syston	Etolin	Fenix 10 q
Hellacap 10 q	Jolt	Mocap
Mocap 10 q	Mocap 10 qr	Mocap 15 q
Mocap 20 ce	Mocap 20 ec	Mocap 20 q
Mocap ec	Mocap plus 42 ec	Profos
Prophos	Vc 9-104	

Enterprise Name	Based in	Trade Name
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AVENTIS CORPORATION	FRA	Chipco Mocap
		Mocap
BAYER AG.	DEU	Mocap

For regulatory information, see page 177

Product Name Ethylene dibromide (EDB) *
C.A.S. number 106-93-4

Trade and brand names

Aadibroom	Aqroqas	Bromofume
Aqroqas	Bromofume	Celmide
Celmide	Dbe	Dibrome
Dbe	Dibrome	Dibromide
Dibromide	Dm 34 forte	Dowfume
Dm 34 forte	Dowfume	Dowfume 40
Dowfume 40	Dowfume edb	Dowfume mc-2
Dowfume edb	Dowfume mc-2	Dowfume w-90
Dowfume w-90	E.d.b. 90 ec	Edabrom
E.d.b. 90 ec	Edabrom	Edabrom 1720
Edabrom 1720	Edabrom ec	Edb-85
Edabrom ec	Edb-85	E-d-bee
E-d-bee	Edesol	Ethylene dibromide
Edesol	Ethylene dibromide	Fumo-gas

Product Name Ethylene dibromide (EDB) *
C.A.S. number 106-93-4

Trade and brand names

Fumo-gas	Granosan	Granovil 75
Granosan	Granovil 75	Iscobrome d
Iscobrome d	Kopfume	Nemaclor
Kopfume	Nemaclor	Nematosol
Nematosol	Nematosol ec	Nephis
Nematosol ec	Nephis	Pestmaster edb-85
Pestmaster edb-85	Sanhyum	Sariafume
Sanhyum	Sariafume	Soilbrom
Soilbrom	Soilbrom-100	Soilfume
Soilbrom-100	Soilfume	Tradiafume
Tradiafume	Unifume	Aadibroom
Unifume		

Enterprise Name	Based in	Trade Name
GREAT LAKES CHEMICAL CORP., OCCIDENTAL PETROLEUM CORP. PFALTZ AND BAUER INC SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 179

Product Name Ethylene dichloride
C.A.S. number 107-06-2

Trade and brand names

Brocide	Dichloro-mulsion	Dutch liquid
Edc		

Enterprise Name	Based in	Trade Name
BASF AG.	DEU	Prowl 3.3 EC Squadron NF Steel
DOW CHEMICAL CO., THE PFALTZ AND BAUER INC TOTALFINAELF	USA FRA	Pendimax 3.3

For regulatory information, see page 182

Product Name Ethylene oxide *
C.A.S. number 75-21-8

Trade and brand names

Adhesol	Cartox	Epoxyethane
Etox	Etoxiat	Leutox
Mojante b	Oxiran	Oxyfume
Shellstol liquido	Sterilant	

Enterprise Name	Based in	Trade Name
BASF AG. CENEX/LAND O'LAKES AGRONOMY COMPA	DEU USA	CL OR1 Class Preference Class Spray Booster S
DOW CHEMICAL CO., THE FISHER SCIENTIFIC CO.		

Product Name Ethylene oxide *

C.A.S. number 75-21-8

Trade and brand names

Enterprise Name	Based in	Trade Name
ICN PHARMACEUTICALS INC.		
MITSUI & Co., Ltd	JPN	
OCCIDENTAL PETROLEUM CORP.	USA	
PFALTZ AND BAUER INC		
SCHAEFFER MANUFACTURING COMPANY		Wet-Sol 99 #235
SIGMA-ALDRICH FINE CHEMICALS		
THE ROYAL DUTCH/SHELL GROUP OF COM	GBR	

For regulatory information, see page 183

Product Name Ethylene thiourea

C.A.S. number 96-45-7

Trade and brand names

Na 22	Pennac cra	Rhenogran etu
Rhodanin s 62	Soxinol 22	Vulkacit npv/c
Warecure c		

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 395

Product Name Ethylenimine

C.A.S. number 151-56-4

Trade and brand names

TI 337

Enterprise Name	Based in	Trade Name
MITSUI & Co., Ltd	JPN	

For regulatory information, see page 395

Product Name Ethylformate

C.A.S. number 109-94-4

Trade and brand names

Areginal

Enterprise Name	Based in	Trade Name
PFALTZ AND BAUER INC	USA	

For regulatory information, see page 185

Product Name Ethylmercury chloride

C.A.S. number 107-27-7

Trade and brand names

Fb 7

Enterprise Name	Based in	Trade Name
PFALTZ AND BAUER INC	USA	

For regulatory information, see page 186

Product Name Fenarimol
C.A.S. number 60168-88-9

Trade and brand names

Alliance	Bloc	Cuprofol p
Detia rosen-und zierpflanzenspray	Detia zierpflanzenspray	Drawisan
EI-222	Erisan super	Etisso balkonpflanzenspray combi
Fenarimal	Fenasip 6 pb	Fenasip combi
Fenzol	Pflanzen-paral gegen blattlaeuse	Rimidin
Rimidin 6 wp	Rozen und z ierpflazenspray spies	Rubigan
Rubigan 12	Rubigan 12 ec	Rubigan 12 sc
Rubigan 4	Rubigan 6 pb	Rubigan combi
Rubigan plus	Rubigan spuitpoeder	Rubigan vloebaar
Senegil	Solfasan effe	Splendor fl
Tebulan	Van eenennaam fenarimol	

Enterprise Name	Based in	Trade Name
DOW CHEMICAL CO., THE	USA	Isocel GD Rimidin 12 SC Rubigan 12 SC Rubigan 4 Rubigan 50WSP Rubigan A.S. Rubigan E.C, Twosome Flowable Patchwork
LESCO INC. RIVERDALE CHEMICAL COMPANY		

For regulatory information, see page 186

Product Name Fenazaflor
C.A.S. number 14255-88-0

Trade and brand names

Fenoflurazole	Fisons nc 5016	Lavozal
Lovozal	Nc 5016	Tarzol

For regulatory information, see page 187

Product Name Fenpropathrin
C.A.S. number 39515-41-8

Trade and brand names

Danitol	Danitol 10 ec	Fenpropanate
Herald	Kilumal	Meiothrin
Meothrin	Ortho danitol	Rody
Rody 10 ce	S-3206	Sd 3206
Sd 41706	WI 41706	Xe-938

Enterprise Name	Based in	Trade Name
VALENT USA CORPORATION	USA	Danitol 2.4 EC Spray Tame 2.4 EC Spray

For regulatory information, see page 187

Product Name Fenson
C.A.S. number 80-38-6

Trade and brand names

Acarol	Aracid	Cpbs
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Product Name Fenson
C.A.S. number 80-38-6

Trade and brand names

Facarol	Fensomite 55 ec	Fenson
Gc-928	H-ovicida	H-triplice effetto
Kelmor s	Keraton	Malcar
Mithal ec	Murvesco	Murvis
Murvite	Novocar	Oleometation
Omite fenson 55 e	Omite-fenson 55	Ovicide seppic
Ovotox	Oxfor	Parafenizon
Pcbs	Pci	Pcpbs
Peosol a	Peronal-a	Phenizon
Sarmite	Sepiclar liquide	Tricimite
Trifenson	Verecar	

For regulatory information, see page 188

Product Name Fensulfothion
C.A.S. number 115-90-2

Trade and brand names

Aqricur	B 25141	Daconit
Dasanit	Dasanit+di-dyston	Di-syston
Dmsp	Nemacur-dasanit	S 767
Terracur	Vuaqt 108	Zz-doricida

Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Dymethyl-T

For regulatory information, see page 188

Product Name Fentin hydroxide
C.A.S. number 76-87-9

Trade and brand names

Aqatal	Anticercospora	Brestan ds
Brestan flow 200	Du ter-m	Du-ter
Du-ter 50	Du-ter emancozeb spuitpoeder	Du-ter extra
Du-ter extra spoeitpolver	Duter extraspritzpulver	Duter qorsac
Duter m poudre mouillable	Du-ter spuitpoeder	Du-ter wp extra
Du-ter-m agro	End spray	Farmatin 50
Flo tin 4l	Griffin super tin	Hermoo fentin hydroxide
Hydroter	Maneb fort	Phenostat-h
Sanatir	Super tin	Suzu h
Terratin qorsac m	Terratin z	Tinhydroxide qorsac
Tinhydroxyde hoechst 20	Tptoh	Tptp
Triple tin	Triple tin 4l	Ts 20 caffaro
Tunotin	Tupsuc	Ucetin 20

Enterprise Name	Based in	Trade Name
PFALTZ AND BAUER INC	USA	
PHILIPP BROTHERS CHEMICALS		Agri Tin
ROHM & HAAS CO.	USA	Agri Tin
SYNGENTA	CHE	Antares

For regulatory information, see page 190

Product Name Fluorbenside
C.A.S. number 405-30-1

Trade and brand names

Hrs 860 Metcx Rd 2195

For regulatory information, see page 191

Product Name Fluoroacetamide *
C.A.S. number 640-19-7

Trade and brand names

1081	Afl 1081	Baran
Fluorakil 3	Fluoroacetamide	Flutritex 1
Fullos	Fussol	Megatox
Metcx	Navron	Rd 2195
Rentokil fluorakil 3	Rodex bait	Yanok

Enterprise Name	Based in	Trade Name
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FISHER SCIENTIFIC CO.
 ICN PHARMACEUTICALS INC.
 PFALTZ AND BAUER INC
 SIGMA-ALDRICH FINE CHEMICALS

USA

For regulatory information, see page 191

Product Name Flutriafol
C.A.S. number 76674-21-0

Trade and brand names

Early impact	Ferrax	Ferrax os
Impact	Impact clt	Impact excel
Impact r	Impact sopra	Pp 450
Vincit lu		

Enterprise Name	Based in	Trade Name
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SYNGENTA	CHE	Antares Cicero Early Impact Impact Impact R Sopra Impact Sopra Yellow
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For regulatory information, see page 194

Product Name Folpet
C.A.S. number 133-07-3

Trade and brand names

A botryl op 80	Abotril op 80	Abotryl op 80
Acritene	Acryptane	Acylon super f autosuspensible
Adiafix f	Adiapel 50	Ager faltan 50
Alimet pb	Alliance	Alved 70
Amarel folpet	Amarel kupfer	Anteor
Anticrittogamico mc	Asperol	Assitan
B.t.f.	Belpron f-50	Beltasur 30-16
Biofol	Bordofix	Bordoile-alapanyag
Bortene f	Bumucan	Buvicid f

Product Name	Folpet	
C.A.S. number	133-07-3	
Trade and brand names		
Caltan	Caltan c	Caltan fl
Caltan plus	Codicap	Coop faltan
Cormason c fl eco	Cosan t	Crioram f combi
Cupertine folpet	Cupraqrol ds	Cuprofal
Cuprofix f active	Cuprofol	Cuprofos
Cuprolex	Cuprolex wp	Cuprosan
Cuprosan 3 f	Cuprosan fluid	Curifol
Curzate f	Daryl	Delsan f
Di focap	Dicarfol	Difocap
Difolpet	Difolpet liquido	Dipet
Dy fonate 20 q	Dycarfol	Effican
Effican blu	Efisan	Ertimix
Eucritt f	Faltan	Faltex
Faltocure	Folafan	Folcap
Folcarb combi	Foldicryl	Foldition m
Folqan	Folnit	Folpan
Folpan 50	Folpan 50 wp	Folpax
Folpec 50	Folpet	Folpet 5 p solplant
Folpet 50 aaphalim	Folpet 50 aqrotec	Folpet 50 fahlberg
Folpet 50 w	Folpet 500 sc	Folpet hi 50
Folpet hl 50	Folpet ramato blu bayer	Folpetan
Folpetan fluessiq	Folpete 505	Folpomix lq
Folprame	Foltamin	Foltan
Foltan 50	Foltan sti	Foltane
Foltapet	Foltapet l 27-7	Foltapet ramato
Foltazip	Foltene	Folticryl wp
Folticuvre	Foltimil	Foltiseb
Fopel	Ft-2f	Ftalan
Ftalim	Funqitrol 11	Funqizid/fonqicide-pirox
Galben	Galben f	Galben f 8/50
Galben f 8-50 blu	Galben f-8-50 blu	Gesal-staeubemittel (m-1487 b)
Glodi rosa oq skrauplontuudi	Golden scab rosso	Hopfen-folpet
Inavid	Intercide tmp	Kb total poudre
Kupfer folpet fluessiq	Kupfer-phaltan	Laincobre ultra
Mancofol	Manderol	Manfosar
Metifol	Mical ps	Micosen f
Microdifolatan sti	Mikal	Mollona
Mycocid	Mycodifol	Mycodifol 23-54
Mycodifol f	Mycodifol liquide	Mycodifol liquido
Mycodifol wp	Mycodifol-l	Mycosan pb
Mycosan pb bleu	Mycotox	Nobilene
Nospor fluid	Nospor-f wp	Nospor-schwefel ac
Notaret	Novofix f active	Orqanil 648
Ortho phaltan 50	Ortho phaltan 50 w	Ortho phaltan 75
Ortho phaltan 80	Ortho-faltan 50	Ortho-phaltan
Orthophaltan 50	Ortho-phaltan 50	Ortho-phaltan 50 pm
Ortho-phaltan 75	Ortho-poudrol	Parasoufre f
Perolan super	Petafol	Phaltan
Phaltan 50 wp	Phaltan agro	Phaltan pluess-stauffer

Product Name **Folpet**
C.A.S. number **133-07-3**

Trade and brand names

Phaltane	Phaltane 500 l	Phaltan-sandoz
Phaltan-siegfried	Phaltocide 80 rp	Phaltocuvre bx
Phaltozid/phaltocide	Phomopsin 50 wp	Phthaltan
Plural ps	Prodapel	Quinaris
Remiltine f	Ridomil combi	Ridomil combi 60 wp
Ridomil-folpet	Ryl 50	Ryl special fluide
Sanavit	Sanfol	Serinal
Shell folpet 50	Siparam sl	Sipcavit
Sipcavit l	Sirdate	Sivamil f
Sofol ps	Soraf pb	Spolacid
Sulfastop	Super macclesfield f 23.35	Syqan
Tairel	Tairel f 8-50 blu	Tebefol
Techn'ifol	Tepata combi	Tepeta 5 dust
Tepeta combi	Thiophal	Tifotal
Tioftal	Tolpel	Topaze multi
Trimifol	Tri-miltox b 50	Turbofal
Turbofal liquido	Uvassa	Valiant
Vamin	Vinicoll	Vinipur spezial fluid
Vitacryl 50	Vital f	Vitan
Vitan extra	Viti combi	Viti-combi
Vitifol	Viti-folpet pulver	Vitipec
Vitorqan	Zz-mycodifol	Zz-mycodifol liquido

Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Vamin
BASF AG.	DEU	
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Bumper F Folpan SC Folpan Technical Grade Folpan WDG Folpan WP
ROCHE HOLDING LTD.	CHE	
SIGMA-ALDRICH FINE CHEMICALS	USA	
SYNGENTA	CHE	Ridomil Gold combi WP

For regulatory information, see page 194

Product Name **Fomesafen**
C.A.S. number **72178-02-0**

Trade and brand names

Flex	Pp 021	Reflex
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Enterprise Name	Based in	Trade Name
SYNGENTA	CHE	Flex Flextar HL Tornado

For regulatory information, see page 195

Product Name Fonofos
C.A.S. number 944-22-9

Trade and brand names

Cudgel	Difonate	Difonatul
Dyfonat	Dyfonate	Dyfonate 10 q
Dyfonate 10/20 q	Dyfonate 25 ec	Dyfonate 4 ec
Dyfonate 5 q	Dyfonate 5 q stauffer	Dyfonate 5 granuli
Dyfonate ms	Dyphonate	Folane
Fonofos dyfonate 5 q	Fonofos dyfonate 5 q stauffer	Fonofos seed treatment
Fonofos shell dyfonate 5 granuli		

Enterprise Name	Based in	Trade Name
LESCO INC.	USA	Crusade 5G
		Mainstay 2G

SIGMA-ALDRICH FINE CHEMICALS

For regulatory information, see page 196

Product Name gamma-HCH (Lindane) *
C.A.S. number 58-89-9

Trade and brand names

Aa-fleur super	Aalindan-emulgeerbare olie 21%	Aalindan-inkrusta
Aa-fleur super	Aalindan-emulgeerbare olie 21%	Aalindan-inkrusta
Aa-fleur super	Aalindan-emulgeerbare olie 21%	Aalindan-inkrusta
Aalindan-rooktabletten	Aameltex-korrels	Aaritna
Aalindan-rooktabletten	Aameltex-korrels	Aaritna
Aalindan-rooktabletten	Aameltex-korrels	Aaritna
Aarupex	Aascab	Abavit-gamma beize
Aarupex	Aascab	Abavit-gamma beize
Aarupex	Aascab	Abavit-gamma beize
Abavit-gamma-beize	Abrochol	Aerosol
Abavit-gamma-beize	Abrochol	Aerosol
Abavit-gamma-beize	Abrochol	Aerosol
Aescab	Aficide	Aqrex 48-2
Aescab	Aficide	Aqrex 48-2
Aescab	Aficide	Aqrex 48-2
Aqriscab	Aqrisol	Aqrocide 2
Aqriscab	Aqrisol	Aqrocide 2
Aqriscab	Aqrisol	Aqrocide 2
Aqrocide inodoro granulare	Aqrolene 26 wp	Aqrone-spezial
Aqrocide inodoro granulare	Aqrolene 26 wp	Aqrone-spezial
Aqrocide inodoro granulare	Aqrolene 26 wp	Aqrone-spezial
Aqrone	Aqrone 60 pm	Aqrone emulsionable
Aqrone	Aqrone 60 pm	Aqrone emulsionable
Aqrone	Aqrone 60 pm	Aqrone emulsionable
Aqrone r espolv	Aqrone r granulado	Aqrone sl espolv
Aqrone r espolv	Aqrone r granulado	Aqrone sl espolv
Aqrone r espolv	Aqrone r granulado	Aqrone sl espolv
Aqrone sl espolvoreo	Aqrone sl pm	Aqrone-gamma
Aqrone sl espolvoreo	Aqrone sl pm	Aqrone-gamma
Aqrone sl espolvoreo	Aqrone sl pm	Aqrone-gamma
Aqrone	Aqrone-oelspritzmittel	Aqrone-spezial
Aqrone	Aqrone-oelspritzmittel	Aqrone-spezial

Product Name	gamma-HCH (Lindane) *	
C.A.S. number	58-89-9	
Trade and brand names		
Aqronexit	Aqronex-oelspritzmittel	Aqronex-spezial
Aqrox 3-way	Aqrox d-l plus	Allidan
Aqrox 3-way	Aqrox d-l plus	Allidan
Aqrox 3-way	Aqrox d-l plus	Allidan
Ambrocide	Ameienmittel	Ameisen-ex
Ambrocide	Ameienmittel	Ameisen-ex
Ambrocide	Ameienmittel	Ameisen-ex
Ameisenmittel	Ameisenmittel hortex	Ameisenmittel schering
Ameisenmittel	Ameisenmittel hortex	Ameisenmittel schering
Ameisenmittel	Ameisenmittel hortex	Ameisenmittel schering
Ameisenmittel 'schering'	Ameisen-streunex l	Ameisen-streu-und giessmittel schacht
Ameisenmittel 'schering'	Ameisen-streunex l	Ameisen-streu-und giessmittel schacht
Ameisenmittel 'schering'	Ameisen-streunex l	Ameisen-streu-und giessmittel schacht
Ameisentod	An 69	Aparasin
Ameisentod	An 69	Aparasin
Ameisentod	An 69	Aparasin
Aphtaria	Aphtiria	Aplidal
Aphtaria	Aphtiria	Aplidal
Aphtaria	Aphtiria	Aplidal
Arbitex	Arbosan universal trockenbeize mit kra	Arcotin
Arbitex	Arbosan universal trockenbeize mit kra	Arcotin
Arbitex	Arbosan universal trockenbeize mit kra	Arcotin
Aretol streugranulat	Asepta lindaan	Asepta lindaan flowable
Aretol streugranulat	Asepta lindaan	Asepta lindaan flowable
Aretol streugranulat	Asepta lindaan	Asepta lindaan flowable
Atan	Basiment	Basiment 450 ekstra n
Atan	Basiment	Basiment 450 ekstra n
Atan	Basiment	Basiment 450 ekstra n
Basiment 450-extra	Bbh	Benexane
Basiment 450-extra	Bbh	Benexane
Basiment 450-extra	Bbh	Benexane
Ben-hex	Bensan	Bentox 10
Ben-hex	Bensan	Bentox 10
Ben-hex	Bensan	Bentox 10
Benzahex	Benzex	Bercema
Benzahex	Benzex	Bercema
Benzahex	Benzex	Bercema
Bercema-aero-super	Bercema-spritzaktiv-emulsion	Berta 30-5
Bercema-aero-super	Bercema-spritzaktiv-emulsion	Berta 30-5
Bercema-aero-super	Bercema-spritzaktiv-emulsion	Berta 30-5
Bexol	Bodip	Bomba total kb jardim
Bexol	Bodip	Bomba total kb jardim
Bexol	Bodip	Bomba total kb jardim
Bomba total kb jardin	Boots ant destroyer	C b ho neu staub
Bomba total kb jardin	Boots ant destroyer	C b ho neu staub
Bomba total kb jardin	Boots ant destroyer	C b ho neu staub
Castaway plus	Ceregam ac bouillie	Ceregam anticorbeaux
Castaway plus	Ceregam ac bouillie	Ceregam anticorbeaux
Castaway plus	Ceregam ac bouillie	Ceregam anticorbeaux

Product Name	gamma-HCH (Lindane) *	
C.A.S. number	58-89-9	
Trade and brand names		
Ceregam super 2	Ceregam total	Ceregamma p
Ceregam super 2	Ceregam total	Ceregamma p
Ceregam super 2	Ceregam total	Ceregamma p
Certan	Chimac I 200	Chimac I200
Certan	Chimac I 200	Chimac I200
Certan	Chimac I 200	Chimac I200
Chimac lindaan flow	Chimac-lindaan	Chlorben
Chimac lindaan flow	Chimac-lindaan	Chlorben
Chimac lindaan flow	Chimac-lindaan	Chlorben
Chloresene	Cinabran 25 triple	Cit thermosol
Chloresene	Cinabran 25 triple	Cit thermosol
Chloresene	Cinabran 25 triple	Cit thermosol
Cloresene	Cloresene granulare	Cocusol forte
Cloresene	Cloresene granulare	Cocusol forte
Cloresene	Cloresene granulare	Cocusol forte
Codechine	Cometox	Compo ameisenvernichter
Codechine	Cometox	Compo ameisenvernichter
Codechine	Cometox	Compo ameisenvernichter
Compound 666	Cooper multispray	Cortilan neu
Compound 666	Cooper multispray	Cortilan neu
Compound 666	Cooper multispray	Cortilan neu
Crawling insect killer	Cuidador	Cuprolate mq liquide
Crawling insect killer	Cuidador	Cuprolate mq liquide
Crawling insect killer	Cuidador	Cuprolate mq liquide
Cuprolate plus mq 3	Cuprolate plus t3 li	Cuprolate plus t4
Cuprolate plus mq 3	Cuprolate plus t3 li	Cuprolate plus t4
Cuprolate plus mq 3	Cuprolate plus t3 li	Cuprolate plus t4
Cuprolate triple pr	Curoxan triple	Dana gamex e
Cuprolate triple pr	Curoxan triple	Dana gamex e
Cuprolate triple pr	Curoxan triple	Dana gamex e
Dathion	Dbh	Delicia py-aerosol 61 b
Dathion	Dbh	Delicia py-aerosol 61 b
Dathion	Dbh	Delicia py-aerosol 61 b
Delicia texyl druchzersraeuber	Delicia tipp fix 82	Delicia-py-aerosol 61
Delicia texyl druchzersraeuber	Delicia tipp fix 82	Delicia-py-aerosol 61
Delicia texyl druchzersraeuber	Delicia tipp fix 82	Delicia-py-aerosol 61
Delicia-texyl-druckzerstaeuber	Delicia-texyl-spray	Delicia-tipp fix 82
Delicia-texyl-druckzerstaeuber	Delicia-texyl-spray	Delicia-tipp fix 82
Delicia-texyl-druckzerstaeuber	Delicia-texyl-spray	Delicia-tipp fix 82
Delindol	Delindol 5q	Deltol-lack
Delindol	Delindol 5q	Deltol-lack
Delindol	Delindol 5q	Deltol-lack
Dennick gamma bhc 75%	Desantin	Detmol rauch
Dennick gamma bhc 75%	Desantin	Detmol rauch
Dennick gamma bhc 75%	Desantin	Detmol rauch
Diazolin	Diblecar	Diblecar 'mn'
Diazolin	Diblecar	Diblecar 'mn'
Diazolin	Diblecar	Diblecar 'mn'
Dicarbam forte	Dithane c 90	Dol granule

Product Name	gamma-HCH (Lindane) *	
C.A.S. number	58-89-9	
Trade and brand names		
Dicarbam forte	Dithane c 90	Dol granule
Dicarbam forte	Dithane c 90	Dol granule
Dolacide	Dolmix	Dratex
Dolacide	Dolmix	Dratex
Dolacide	Dolmix	Dratex
Drill tox -spezial aqlucon	Dual murqanic rpb	Duphar lindaan
Drill tox -spezial aqlucon	Dual murqanic rpb	Duphar lindaan
Drill tox -spezial aqlucon	Dual murqanic rpb	Duphar lindaan
Duphar lindaan m.o.	Duplex poudrage	Egesa-pflanzenspray
Duphar lindaan m.o.	Duplex poudrage	Egesa-pflanzenspray
Duphar lindaan m.o.	Duplex poudrage	Egesa-pflanzenspray
Ekadonal	Ekadonol	Elentol
Ekadonal	Ekadonol	Elentol
Ekadonal	Ekadonol	Elentol
Emetres	Entomoxan	Eruzin staub mit lindan
Emetres	Entomoxan	Eruzin staub mit lindan
Emetres	Entomoxan	Eruzin staub mit lindan
Erydol combi 20	Esca reqina	Esoderm
Erydol combi 20	Esca reqina	Esoderm
Erydol combi 20	Esca reqina	Esoderm
Exacarol	Exaqama	Exaqamma 90 micron
Exacarol	Exaqama	Exaqamma 90 micron
Exacarol	Exaqama	Exaqamma 90 micron
Examul	Fekama-spezial neu	Fenzalate triple
Examul	Fekama-spezial neu	Fenzalate triple
Examul	Fekama-spezial neu	Fenzalate triple
Fifanon ubv	Filalex s	Fimor
Fifanon ubv	Filalex s	Fimor
Fifanon ubv	Filalex s	Fimor
Fisons courtilieres	Fisons greenfly & blackfly killer	Fluxol 100
Fisons courtilieres	Fisons greenfly & blackfly killer	Fluxol 100
Fisons courtilieres	Fisons greenfly & blackfly killer	Fluxol 100
Fluxol 20	Folane	Foral-q
Fluxol 20	Folane	Foral-q
Fluxol 20	Folane	Foral-q
Forlin	Fruits s	Fumite smoke loft quard
Forlin	Fruits s	Fumite smoke loft quard
Forlin	Fruits s	Fumite smoke loft quard
Fumite tecnalín smoke cones	Fumite tecnalín smoke generators	Funqisem
Fumite tecnalín smoke cones	Fumite tecnalín smoke generators	Funqisem
Fumite tecnalín smoke cones	Fumite tecnalín smoke generators	Funqisem
Galition plus	Galloqama	Gama puro
Galition plus	Galloqama	Gama puro
Galition plus	Galloqama	Gama puro
Gamacid	Gamakarbatox pylisty	Gamapol
Gamacid	Gamakarbatox pylisty	Gamapol
Gamacid	Gamakarbatox pylisty	Gamapol
Gamasat	Gamaterr	Gamatin
Gamasat	Gamaterr	Gamatin

Product Name **gamma-HCH (Lindane) ***
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Trade and brand names

Gamasat	Gamaterr	Gamatin
Gambex	Gamene	Gameron 232 w
Gambex	Gamene	Gameron 232 w
Gambex	Gamene	Gameron 232 w
Gamexane no 16	Gamma hexa	Gamma hexane
Gamexane no 16	Gamma hexa	Gamma hexane
Gamexane no 16	Gamma hexa	Gamma hexane
Gamma saatqutpuder	Gamma saatqutpueder bayer	Gamma sc 800
Gamma saatqutpuder	Gamma saatqutpueder bayer	Gamma sc 800
Gamma saatqutpuder	Gamma saatqutpueder bayer	Gamma sc 800
Gamma spritzpulver byer	Gamma staeubemittel bayer	Gamma streumittel bayer
Gamma spritzpulver byer	Gamma staeubemittel bayer	Gamma streumittel bayer
Gamma spritzpulver byer	Gamma staeubemittel bayer	Gamma streumittel bayer
Gamma streumittel 'bayer' granuliert	Gamma strunex	Gamma tresex 100 fw
Gamma streumittel 'bayer' granuliert	Gamma strunex	Gamma tresex 100 fw
Gamma streumittel 'bayer' granuliert	Gamma strunex	Gamma tresex 100 fw
Gamma-ceresan	Gamma-col	Gamma-col 80
Gamma-ceresan	Gamma-col	Gamma-col 80
Gamma-ceresan	Gamma-col	Gamma-col 80
Gamma-col turf	Gammactif 5	Gammakarbattox 50 wp
Gamma-col turf	Gammactif 5	Gammakarbattox 50 wp
Gamma-col turf	Gammactif 5	Gammakarbattox 50 wp
Gammalex	Gammalin	Gamma-saatqutpuder
Gammalex	Gammalin	Gamma-saatqutpuder
Gammalex	Gammalin	Gamma-saatqutpuder
Gamma-saatqutpuder 'bayer'	Gammasan	Gammasan 30
Gamma-saatqutpuder 'bayer'	Gammasan	Gammasan 30
Gamma-saatqutpuder 'bayer'	Gammasan	Gammasan 30
Gammasect	Gamma-spritzpulver 'bayer'	Gamma-staeubemittel 'bayer'
Gammasect	Gamma-spritzpulver 'bayer'	Gamma-staeubemittel 'bayer'
Gammasect	Gamma-spritzpulver 'bayer'	Gamma-staeubemittel 'bayer'
Gamma-streunex	Gammater	Gammathio 2
Gamma-streunex	Gammater	Gammathio 2
Gamma-streunex	Gammater	Gammathio 2
Gammatox	Gammatorol-supra-spritzpulver	Gammex
Gammatox	Gammatorol-supra-spritzpulver	Gammex
Gammatox	Gammatorol-supra-spritzpulver	Gammex
Gammexane	Gammexane rookontwikkelaar no.25	Gammexane-rookontwikkelaar no. 25
Gammexane	Gammexane rookontwikkelaar no.25	Gammexane-rookontwikkelaar no. 25
Gammexane	Gammexane rookontwikkelaar no.25	Gammexane-rookontwikkelaar no. 25
Gammexide	Gammophele foq	Gammophele320
Gammexide	Gammophele foq	Gammophele320
Gammexide	Gammophele foq	Gammophele320
Gammoran fixograin anticorbeaux	Gammoran rouge b	Gammoran tmc
Gammoran fixograin anticorbeaux	Gammoran rouge b	Gammoran tmc
Gammoran fixograin anticorbeaux	Gammoran rouge b	Gammoran tmc
Gamoline	Gamphex	Gantox farglos
Gamoline	Gamphex	Gantox farglos
Gamoline	Gamphex	Gantox farglos

Product Name	gamma-HCH (Lindane) *	
C.A.S. number	58-89-9	
Trade and brand names		
Gardol pflanzenspray	Gbh	Germate
Gardol pflanzenspray	Gbh	Germate
Gardol pflanzenspray	Gbh	Germate
Germinate t4 liquide	Germinate total	Gexane
Germinate t4 liquide	Germinate total	Gexane
Germinate t4 liquide	Germinate total	Gexane
Gorqojil	Grain store smoke	Granater I
Gorqojil	Grain store smoke	Granater I
Gorqojil	Grain store smoke	Granater I
Granebe triple	Graneril 21	Granol
Granebe triple	Graneril 21	Granol
Granebe triple	Graneril 21	Granol
Green house smoke	Grovex 219 lindane pyrethrin	Grovex d 511 lindane dust
Green house smoke	Grovex 219 lindane pyrethrin	Grovex d 511 lindane dust
Green house smoke	Grovex 219 lindane pyrethrin	Grovex d 511 lindane dust
Gy-thion 4% polvo	Hcch	Heclotox
Gy-thion 4% polvo	Hcch	Heclotox
Gy-thion 4% polvo	Hcch	Heclotox
Hexa	Hexablanc	Hexachloran
Hexa	Hexablanc	Hexachloran
Hexa	Hexablanc	Hexachloran
Hexafor	Hexaqama	Hexaklor
Hexafor	Hexaqama	Hexaklor
Hexafor	Hexaqama	Hexaklor
Hexalin	Hexapoudre	Hexatox
Hexalin	Hexapoudre	Hexatox
Hexalin	Hexapoudre	Hexatox
Hexaverm	Hexicid	Hexicide
Hexaverm	Hexicid	Hexicide
Hexaverm	Hexicid	Hexicide
Hexidol	Hexyclan	Hexyl
Hexidol	Hexyclan	Hexyl
Hexidol	Hexyclan	Hexyl
Hqi	Hilbeech	HI-spritz-und giessmittel
Hqi	Hilbeech	HI-spritz-und giessmittel
Hqi	Hilbeech	HI-spritz-und giessmittel
Hortamon p	Hortex emulsion	Hortex oelspritzmittel
Hortamon p	Hortex emulsion	Hortex oelspritzmittel
Hortamon p	Hortex emulsion	Hortex oelspritzmittel
Hortex saatgutpuder	Hortex stark rp	Hortex staub
Hortex saatgutpuder	Hortex stark rp	Hortex staub
Hortex saatgutpuder	Hortex stark rp	Hortex staub
Hortex streuer	Hortex-emulsion	Hortex-oelspritzmittel
Hortex streuer	Hortex-emulsion	Hortex-oelspritzmittel
Hortex streuer	Hortex-emulsion	Hortex-oelspritzmittel
Hortex-saatgutpuder	Hortex-stark	Hortex-staub
Hortex-saatgutpuder	Hortex-stark	Hortex-staub
Hortex-saatgutpuder	Hortex-stark	Hortex-staub
Hylogam	Hysede fl	Ica 90

Product Name	gamma-HCH (Lindane) *	
C.A.S. number	58-89-9	
Trade and brand names		
Hyloqam	Hysede fl	Ica 90
Hyloqam	Hysede fl	Ica 90
Ica 90 flo	Ica 90 liquide	Ikaqri
Ica 90 flo	Ica 90 liquide	Ikaqri
Ica 90 flo	Ica 90 liquide	Ikaqri
Inexit	Insecte	Insecte liquide
Inexit	Insecte	Insecte liquide
Inexit	Insecte	Insecte liquide
Insekten spritzpulver hortex	Insektenil fluessiq v	Insektenil-fluessiq
Insekten spritzpulver hortex	Insektenil fluessiq v	Insektenil-fluessiq
Insekten spritzpulver hortex	Insektenil fluessiq v	Insektenil-fluessiq
Insekten-spritzpulver hortex	Insekten-staubemittel hortex	Isotox
Insekten-spritzpulver hortex	Insekten-staubemittel hortex	Isotox
Insekten-spritzpulver hortex	Insekten-staubemittel hortex	Isotox
Jacutin	Jacutin foq	Jacutin spritzmittel
Jacutin	Jacutin foq	Jacutin spritzmittel
Jacutin	Jacutin foq	Jacutin spritzmittel
Jacutin-foq	Jacutin-spritzmittel	Jebolindaan mengolie 21%
Jacutin-foq	Jacutin-spritzmittel	Jebolindaan mengolie 21%
Jacutin-foq	Jacutin-spritzmittel	Jebolindaan mengolie 21%
Jebolinpar stuif	Jeboscab	K b jardim batateria
Jebolinpar stuif	Jeboscab	K b jardim batateria
Jebolinpar stuif	Jeboscab	K b jardim batateria
Kb courtiliere	Kb forumis	Kb insect sol
Kb courtiliere	Kb forumis	Kb insect sol
Kb courtiliere	Kb forumis	Kb insect sol
Kb insecte sol	Kb insecticide liquide	Kb jardim batateira
Kb insecte sol	Kb insecticide liquide	Kb jardim batateira
Kb insecte sol	Kb insecticide liquide	Kb jardim batateira
Kb jardim insectos do solo	Kb jardin insectos do solo	Kb pomme de terre
Kb jardim insectos do solo	Kb jardin insectos do solo	Kb pomme de terre
Kb jardim insectos do solo	Kb jardin insectos do solo	Kb pomme de terre
Kb poudre totale c	Kb pulverisation totale c	Kerfex granulat
Kb poudre totale c	Kb pulverisation totale c	Kerfex granulat
Kb poudre totale c	Kb pulverisation totale c	Kerfex granulat
Kerfex nebel	Kerfex-nebel	Kill it
Kerfex nebel	Kerfex-nebel	Kill it
Kerfex nebel	Kerfex-nebel	Kill it
Killqerm tetracide	Kill-it havepudder	Kill-it myrepudder
Killqerm tetracide	Kill-it havepudder	Kill-it myrepudder
Killqerm tetracide	Kill-it havepudder	Kill-it myrepudder
Kombi rosenspritzpulver	Kombicid q-5	Kotol
Kombi rosenspritzpulver	Kombicid q-5	Kotol
Kombi rosenspritzpulver	Kombicid g-5	Kotol
Kregan	Kregan liquide	Kumiteb
Kregan	Kregan liquide	Kumiteb
Kregan	Kregan liquide	Kumiteb
Kwell	Kwella da	Kwellada
Kwell	Kwella da	Kwellada

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C.A.S. number	58-89-9	
Trade and brand names		
Kwell	Kwella da	Kwellada
Lacco hi lin	Lacco lin-o-mulsion	Lawa plantevask
Lacco hi lin	Lacco lin-o-mulsion	Lawa plantevask
Lacco hi lin	Lacco lin-o-mulsion	Lawa plantevask
Leceonil	Lencid	Liactoil
Leceonil	Lencid	Liactoil
Leceonil	Lencid	Liactoil
Lidastop	Lidax flow 75	Lidazon
Lidastop	Lidax flow 75	Lidazon
Lidastop	Lidax flow 75	Lidazon
Liq 20	Linda sepol i	Lindacol
Liq 20	Linda sepol i	Lindacol
Liq 20	Linda sepol i	Lindacol
Lindaflor flo	Lindafor	Lindafor 25
Lindaflor flo	Lindafor	Lindafor 25
Lindaflor flo	Lindafor	Lindafor 25
Lindafor 90	Lindafor flo	Lindafor flo 750
Lindafor 90	Lindafor flo	Lindafor flo 750
Lindafor 90	Lindafor flo	Lindafor flo 750
Lindaqam	Lindaqrain	Lindaqranox
Lindaqam	Lindaqrain	Lindaqranox
Lindaqam	Lindaqrain	Lindaqranox
Lindalo	Lindalo 20	Lindamul
Lindalo	Lindalo 20	Lindamul
Lindalo	Lindalo 20	Lindamul
Lindamul 20	Lindan wp 80	Lindane 2 q
Lindamul 20	Lindan wp 80	Lindane 2 q
Lindamul 20	Lindan wp 80	Lindane 2 q
Lindane 20 d	Lindane 200 e	Lindane agrofarm 25 wp
Lindane 20 d	Lindane 200 e	Lindane agrofarm 25 wp
Lindane 20 d	Lindane 200 e	Lindane agrofarm 25 wp
Lindane ate 1 d	Lindane dust	Lindane emulsion concentrate 15%
Lindane ate 1 d	Lindane dust	Lindane emulsion concentrate 15%
Lindane ate 1 d	Lindane dust	Lindane emulsion concentrate 15%
Lindane q	Lindane garden spray	Lindanex 20% emulsion
Lindane q	Lindane garden spray	Lindanex 20% emulsion
Lindane q	Lindane garden spray	Lindanex 20% emulsion
Lindanex no 1 d	Lindano	Lindan-staub
Lindanex no 1 d	Lindano	Lindan-staub
Lindanex no 1 d	Lindano	Lindan-staub
Lindapoudre	Lindasect 20	Lindasect pudder
Lindapoudre	Lindasect 20	Lindasect pudder
Lindapoudre	Lindasect 20	Lindasect pudder
Linda-solo	Lindastan ec 20	Lindaterra
Linda-solo	Lindastan ec 20	Lindaterra
Linda-solo	Lindastan ec 20	Lindaterra
Lindax flow	Lindazan	Lindex
Lindax flow	Lindazan	Lindex
Lindax flow	Lindazan	Lindex

Product Name	gamma-HCH (Lindane) *	
C.A.S. number	58-89-9	
Trade and brand names		
Lindex dim	Lindex fort	Lindex huileux
Lindex dim	Lindex fort	Lindex huileux
Lindex dim	Lindex fort	Lindex huileux
Lindex-plus	Lindosep	Lin-o-sol
Lindex-plus	Lindosep	Lin-o-sol
Lindex-plus	Lindosep	Lin-o-sol
Lintox e-2	Liroqam rooktablet	Liroqam stuifpoeder 0.7%
Lintox e-2	Liroqam rooktablet	Liroqam stuifpoeder 0.7%
Lintox e-2	Liroqam rooktablet	Liroqam stuifpoeder 0.7%
Litexa 5	Litexa 90	Lop tox
Litexa 5	Litexa 90	Lop tox
Litexa 5	Litexa 90	Lop tox
Lorexane	Lorsban I 16	Lorsban liquide
Lorexane	Lorsban I 16	Lorsban liquide
Lorexane	Lorsban I 16	Lorsban liquide
Luxan dizalin ec	Luxan emeltenkorrels	Luxan lindaan 0.7% stuifpoeder
Luxan dizalin ec	Luxan emeltenkorrels	Luxan lindaan 0.7% stuifpoeder
Luxan dizalin ec	Luxan emeltenkorrels	Luxan lindaan 0.7% stuifpoeder
Luxan lindaan 20%	Luxan lindaan 21%	Luxan lindane
Luxan lindaan 20%	Luxan lindaan 21%	Luxan lindane
Luxan lindaan 20%	Luxan lindaan 21%	Luxan lindane
Luxan lindane 800	Malin 30-5 e	Maneqam
Luxan lindane 800	Malin 30-5 e	Maneqam
Luxan lindane 800	Malin 30-5 e	Maneqam
Manesan flo	Manolate corbeaux	Manolate taupins
Manesan flo	Manolate corbeaux	Manolate taupins
Manesan flo	Manolate corbeaux	Manolate taupins
Manolate triple	Marsoline	Matas myremiddel
Manolate triple	Marsoline	Matas myremiddel
Manolate triple	Marsoline	Matas myremiddel
May & baker greenhouse smoke crawlin	Mercoran fixograin anticorbeau bouillie	Merqamma
May & baker greenhouse smoke crawlin	Mercoran fixograin anticorbeau bouillie	Merqamma
May & baker greenhouse smoke crawlin	Mercoran fixograin anticorbeau bouillie	Merqamma
Merqamma 30	Merqamma p	Merqamma w
Merqamma 30	Merqamma p	Merqamma w
Merqamma 30	Merqamma p	Merqamma w
Mist-o-matic liquid seed treatment	Mohojiuurensuoja	Mole ban
Mist-o-matic liquid seed treatment	Mohojiuurensuoja	Mole ban
Mist-o-matic liquid seed treatment	Mohojiuurensuoja	Mole ban
Monacol	Monocron	Murfume lindane smoke
Monacol	Monocron	Murfume lindane smoke
Monacol	Monocron	Murfume lindane smoke
Murphy bhc smoke cone	Murphy combined seed dressing	Murphy Gamma BHC Dust
Murphy bhc smoke cone	Murphy combined seed dressing	Murphy Gamma BHC Dust
Murphy bhc smoke cone	Murphy combined seed dressing	Murphy Gamma BHC Dust
Murphy pest and disease smoke	Nacatol 200	Nacatol 90 pm
Murphy pest and disease smoke	Nacatol 200	Nacatol 90 pm
Murphy pest and disease smoke	Nacatol 200	Nacatol 90 pm
Naftilo	Necatol 90 pm	Neo scabexaan

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Trade and brand names

Naftilo	Necatol 90 pm	Neo scabexaan
Naftilo	Necatol 90 pm	Neo scabexaan
Neo-scabexaan	New hysede fl	New kotol
Neo-scabexaan	New hysede fl	New kotol
Neo-scabexaan	New hysede fl	New kotol
Nexa moelhaenger	Nexit	Nexit stark
Nexa moelhaenger	Nexit	Nexit stark
Nexa moelhaenger	Nexit	Nexit stark
Nexit staub	Nexit-stark	Nexit-staub
Nexit staub	Nexit-stark	Nexit-staub
Nexit staub	Nexit-stark	Nexit-staub
Nexol-e	Nexxa lotte	Noviaqam
Nexol-e	Nexxa lotte	Noviaqam
Nexol-e	Nexxa lotte	Noviaqam
Occi courtilieres 708	Oktaqam neu	Omnitox
Occi courtilieres 708	Oktaqam neu	Omnitox
Occi courtilieres 708	Oktaqam neu	Omnitox
Ouinoqam 75 fi	Ouinolate 15 triple	Ouinolate mq
Ouinoqam 75 fi	Ouinolate 15 triple	Ouinolate mq
Ouinoqam 75 fi	Ouinolate 15 triple	Ouinolate mq
Ouinolate v-4-x triple fi	Panoctine at 250	Paralindex
Ouinolate v-4-x triple fi	Panoctine at 250	Paralindex
Ouinolate v-4-x triple fi	Panoctine at 250	Paralindex
Para-weiss	Pbi lindane flowable	Peltoqrain orqe
Para-weiss	Pbi lindane flowable	Peltoqrain orqe
Para-weiss	Pbi lindane flowable	Peltoqrain orqe
Perfektan lindane	Pflanzenspray hortex	Pflanzol-kaltnebel
Perfektan lindane	Pflanzenspray hortex	Pflanzol-kaltnebel
Perfektan lindane	Pflanzenspray hortex	Pflanzol-kaltnebel
Pms lindane	Ponocide lindan	Pp mini leatherjacket pellets
Pms lindane	Ponocide lindan	Pp mini leatherjacket pellets
Pms lindane	Ponocide lindan	Pp mini leatherjacket pellets
Probelthion 30-4 especial	Productif	Prosem c
Probelthion 30-4 especial	Productif	Prosem c
Probelthion 30-4 especial	Productif	Prosem c
Pulvoqan	Quellada	Quinoqam 75 fi
Pulvoqan	Quellada	Quinoqam 75 fi
Pulvoqan	Quellada	Quinoqam 75 fi
Quinolate 15 triple	Quinolate 3 fl	Quinolate mq
Quinolate 15 triple	Quinolate 3 fl	Quinolate mq
Quinolate 15 triple	Quinolate 3 fl	Quinolate mq
Quinolate mq fi	Quinolate mq fl	Quinolate plus mq
Quinolate mq fi	Quinolate mq fl	Quinolate plus mq
Quinolate mq fi	Quinolate mq fl	Quinolate plus mg
Quinolate plus mg safi	Quinolate plus triple fl	Quinolate plus v-4-x triple
Quinolate plus mg safi	Quinolate plus triple fl	Quinolate plus v-4-x triple
Quinolate plus mg safi	Quinolate plus triple fl	Quinolate plus v-4-x triple
Quinolate triple kara	Quinolate tripl'eco	Quinolate v-4-x triple fi
Quinolate triple kara	Quinolate tripl'eco	Quinolate v-4-x triple fi

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Trade and brand names

Quinolate triple kara	Quinolate tripl'eco	Quinolate v-4-x triple fi
Raeuchermittel jacutin fog	Raeucherstaebchen jacutin	Rentokil carpet beetle killer
Raeuchermittel jacutin fog	Raeucherstaebchen jacutin	Rentokil carpet beetle killer
Raeuchermittel jacutin fog	Raeucherstaebchen jacutin	Rentokil carpet beetle killer
Rentokil carpet beetle killer and moth pr	Rentokil lindan roeq-patron t 10	Rentokil lindan roeq-patron t 40
Rentokil carpet beetle killer and moth pr	Rentokil lindan roeq-patron t 10	Rentokil lindan roeq-patron t 40
Rentokil carpet beetle killer and moth pr	Rentokil lindan roeq-patron t 10	Rentokil lindan roeq-patron t 40
Rentokil lindane	Rentokil lindane/pybuthrin dust	Rhyntox
Rentokil lindane	Rentokil lindane/pybuthrin dust	Rhyntox
Rentokil lindane	Rentokil lindane/pybuthrin dust	Rhyntox
S.o.50-10	Saindane 90	Salvaqrano polvere
S.o.50-10	Saindane 90	Salvaqrano polvere
S.o.50-10	Saindane 90	Salvaqrano polvere
Saniqran special	Scabecid	Scabicurin
Saniqran special	Scabecid	Scabicurin
Saniqran special	Scabecid	Scabicurin
Scasol e	Scasol e granule	Seman m total
Scasol e	Scasol e granule	Seman m total
Scasol e	Scasol e granule	Seman m total
Sembral semillas m-l	Sentry	Sepol lm
Sembral semillas m-l	Sentry	Sepol lm
Sembral semillas m-l	Sentry	Sepol lm
Servarin lindan	Sevidol	Shell lindaan vloeibaar 21%
Servarin lindan	Sevidol	Shell lindaan vloeibaar 21%
Servarin lindan	Sevidol	Shell lindaan vloeibaar 21%
Shell lindane 21%	Silvanol	Silvetox
Shell lindane 21%	Silvanol	Silvetox
Shell lindane 21%	Silvanol	Silvetox
Skabene	Skabex	Soldrex 2
Skabene	Skabex	Soldrex 2
Skabene	Skabex	Soldrex 2
Sopraqam	Soprocide	Stammchutzmittel gamma
Sopraqam	Soprocide	Stammchutzmittel gamma
Sopraqam	Soprocide	Stammchutzmittel gamma
Stammschutzmittel gamma	Stammschutzmittel kwizda	Sterisol cp
Stammschutzmittel gamma	Stammschutzmittel kwizda	Sterisol cp
Stammschutzmittel gamma	Stammschutzmittel kwizda	Sterisol cp
Stratilion-l-doble	Streunex granulat	Streunex-granulat
Stratilion-l-doble	Streunex granulat	Streunex-granulat
Stratilion-l-doble	Streunex granulat	Streunex-granulat
Strobion d	Submar	Suelosana 2 l
Strobion d	Submar	Suelosana 2 l
Strobion d	Submar	Suelosana 2 l
Supervelax f le	Sylvogam	Tebuzate mg liquide
Supervelax f le	Sylvogam	Tebuzate mg liquide
Supervelax f le	Sylvogam	Tebuzate mg liquide
Tebuzate mgc	Tebuzate triple	Techn'inda
Tebuzate mgc	Tebuzate triple	Techn'inda
Tebuzate mgc	Tebuzate triple	Techn'inda

Product Name	gamma-HCH (Lindane) *	
C.A.S. number	58-89-9	
Trade and brand names		
Temik ld	Temik m 5q	Terlin 3 q
Temik ld	Temik m 5q	Terlin 3 q
Temik ld	Temik m 5q	Terlin 3 q
Terrasan ameisentod	Terrasan pflanzen-spray	Top borkenkaefermittel schering
Terrasan ameisentod	Terrasan pflanzen-spray	Top borkenkaefermittel schering
Terrasan ameisentod	Terrasan pflanzen-spray	Top borkenkaefermittel schering
Total superfix	Tranid	Tranid 5 q
Total superfix	Tranid	Tranid 5 q
Total superfix	Tranid	Tranid 5 q
Tresex gamma 80	Triaqam	Tribecar 'm'
Tresex gamma 80	Triaqam	Tribecar 'm'
Tresex gamma 80	Triaqam	Tribecar 'm'
Tribecar mn	Tribecar 'mn'	Trimisem
Tribecar mn	Tribecar 'mn'	Trimisem
Tribecar mn	Tribecar 'mn'	Trimisem
Trimisem total	Turbair lindane	Typholine gamma 50
Trimisem total	Turbair lindane	Typholine gamma 50
Trimisem total	Turbair lindane	Typholine gamma 50
Uceqam p	Uceqamma	Umaqam
Uceqam p	Uceqamma	Umaqam
Uceqam p	Uceqamma	Umaqam
Umaqan	Umpro antifourmis	Umpro arbres fruitiers s
Umaqan	Umpro antifourmis	Umpro arbres fruitiers s
Umaqan	Umpro antifourmis	Umpro arbres fruitiers s
Umucortil	Umupro insecticide liquide	Umupro poudrage totale s
Umucortil	Umupro insecticide liquide	Umupro poudrage totale s
Umucortil	Umupro insecticide liquide	Umupro poudrage totale s
Umupro pulverisation totale c	Umupro sol	Umuxebe triple
Umupro pulverisation totale c	Umupro sol	Umuxebe triple
Umupro pulverisation totale c	Umupro sol	Umuxebe triple
Ungeziefer mittel jacutin fluessiq	Ungeziefer puder jacutin	Ungeziefer-mittel jacutin fluessiq
Ungeziefer mittel jacutin fluessiq	Ungeziefer puder jacutin	Ungeziefer-mittel jacutin fluessiq
Ungeziefer mittel jacutin fluessiq	Ungeziefer puder jacutin	Ungeziefer-mittel jacutin fluessiq
Unicrop leatherjacket pellets	Velan d	Verdane 90 pm
Unicrop leatherjacket pellets	Velan d	Verdane 90 pm
Unicrop leatherjacket pellets	Velan d	Verdane 90 pm
Verdegamma inodoro	Verderin e	Verindal ultra
Verdegamma inodoro	Verderin e	Verindal ultra
Verdegamma inodoro	Verderin e	Verindal ultra
Vitavax rs	Wireworm fs	Yacutin
Vitavax rs	Wireworm fs	Yacutin
Vitavax rs	Wireworm fs	Yacutin
Zaprawa nasienna gts	Zz-l 2% granulado	Zz-reforzado
Zaprawa nasienna gts	Zz-l 2% granulado	Zz-reforzado
Zaprawa nasienna gts	Zz-l 2% granulado	Zz-reforzado

Enterprise Name	Based in	Trade Name
COMPTON CORPORATION	USA	Lindane 30C flowable insecticide (w/o dye)
		Lindane 30C flowable insecticide (with dye)

Product Name gamma-HCH (Lindane) *
C.A.S. number 58-89-9

Trade and brand names

Enterprise Name	Based in	Trade Name
		Vitaflo Dual Purpose
		Vitavax Dual Solution
		Vitavax rs Dynaseal
		Vitavax rs Flowable
		Vitavax-Thiram-Lindane flowable
HELENA CHEMICAL CO.		Kick Start
MERCK KGaA	DEU	
MITSUI & Co., Ltd	JPN	
PFALTZ AND BAUER INC	USA	
		Lindane 99% - Carc
RIVERSIDE/TERRA CORP.		Kernel Guard

For regulatory information, see page 335

Product Name Guazatine triacetate
C.A.S. number 57520-17-9

Trade and brand names

Guazatine acetates	Kenopel	Murbenine plus
Panoctin spezial feuchtbeize	Panoctine 35	Panoctine 35 ec
Panoctine 35 sc	Panoctine 40	Panoctine at 250
Panoctine c fluessig	Panoctine fluessig	Panoctine plus
Panoctine super	Panoctine universal	Panolil
Panolil 60	Pantoctin 40	Tirahexa

For regulatory information, see page 199

Product Name HCH-mixed isomers *
C.A.S. number 608-73-1

Trade and brand names

Benzahex	Benzex	Dol
Benzex	Dol	Dolmix
Dol	Dolmix	Fhch
Dolmix	Fhch	Gammexane
Fhch	Gammexane	Gexane
Gammexane	Gexane	Hexablanc
Gexane	Hexablanc	Hexachlor
Hexablanc	Hexachlor	Hexafor
Hexachlor	Hexafor	Hexamul
Hexafor	Hexamul	Hexapudre
Hexamul	Hexapudre	Hexyclan
Hexapudre	Hexyclan	Hilbeech
Hexyclan	Hilbeech	Kotol
Hilbeech	Kotol	Lindacol
Kotol	Lindacol	Lindakol
Lindacol	Lindakol	Soprocide
Lindakol	Soprocide	Sorocide
Soprocide	Sorocide	Benzahex
Sorocide	Benzahex	Benzex

Product Name HCH-mixed isomers *
C.A.S. number 608-73-1

Trade and brand names

Enterprise Name	Based in	Trade Name
UNITED-GUARDIAN, INC	USA	

For regulatory information, see page 199

Product Name Heptachlor *
C.A.S. number 76-44-8

Trade and brand names

Drinox h-34	Gold crest h-60	Heptachlor 40 ec
Heptamul	Heptox	Termid

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 203

Product Name Heptachlor epoxide
C.A.S. number 1024-57-3

Trade and brand names

Epoxide	Epoxyheptachlor	Gpkh
Hce	Heptachlor epoxide	Velsico

For regulatory information, see page 208

Product Name Hexachlorobenzene *
C.A.S. number 118-74-1

Trade and brand names

Abavit universal trockenbeize	Anticarie	Bunt-cure
Bunt-no-more	Carisan	Caritex
Ceku c.b.	Ceresan schlaemmbeize	Co-op hexa
Esachlorobenzene	Falisan-hb-universal trockenbeize 69	Granow nm
Granozol	Hcb	Hcb valagro 10
Hexa c.b.	Julin's carbon chloride	No bunt
Sanocide	Smut-go	Sneciotox
Tetraquil	Tizoneb	Tritifor spuitpulver
Vitazol		

Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Novafos-M
FISHER SCIENTIFIC CO.	USA	
HODOGAYA CHEMICAL CO. LTD. (HODOGA	JPN	
ISHIHARA SANGYO CO., (ISHIHARA SANGY		Dacthal 75-W
		Dacthal Flowable
		Dymethyl-T
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 209

Product Name Hydrazine
C.A.S. number 302-01-2

Trade and brand names

Oxytreat 35

Product Name Hydrazine
C.A.S. number 302-01-2

Trade and brand names

Enterprise Name	Based in	Trade Name
OLIN CORP.	USA	
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 398

Product Name Hydrogen cyanide
C.A.S. number 74-90-8

Trade and brand names

Cianosodio	Cyanosil	Cylon
Cylon	Evercyn	Phostoxin-plates+cyanosil
Evercyn	Phostoxin-plates+cyanosil	Phostoxin-plates+zyklon
Phostoxin-plates+zyklon	Phostoxin-prepacs + zyklon	Tritox poeder
Phostoxin-prepacs + zyklon	Tritox poeder	Zyklon
Zyklon	Zyklon b	
Zyklon b	Cianosodio	Cyanosil

Enterprise Name	Based in	Trade Name
ASAHI CHEMICAL INDUSTRY CO. LTD., (AS	JPN	
BASF AG.	DEU	
DETIA DEGESCH		
DSM NV	NLD	
E. I. DUPONT DE NEMOURS & CO.	USA	
MITSUI & Co., Ltd	JPN	
PFALTZ AND BAUER INC	USA	
SHOWA DENKO K.K.	JPN	

For regulatory information, see page 214

Product Name Isobenzan
C.A.S. number 297-78-9

Trade and brand names

Cp 14,957	Fc85telodrin	Omtan
Sd 4002	Sd 4402	Shell 4402
Shell wl 1650	Telodrin	WI 1650

For regulatory information, see page 216

Product Name Isodrin
C.A.S. number 465-73-6

Trade and brand names

Compound 711	Experimental insecticide 711	Isodrin
Sd 3418		

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 217

Product Name Kadethrin
C.A.S. number 58769-20-3

Trade and brand names

Pibutoks super Ru 15525 Spray-tox

For regulatory information, see page 218

Product Name Kelevan
C.A.S. number 4234-79-1

Trade and brand names

Despirol Despirol 0.75 Staub Despirol 50 wp
 Despirol ulv General chemical 9160

For regulatory information, see page 219

Product Name Leptophos
C.A.S. number 21609-90-5

Trade and brand names

Abar Fosvel K 62-105
 Lepton Leptophos MbcP
 Nk 711 Oleophosvel Phosvel
 Phosvel 300 V c s Vcs 5-d
 Velsicol 506 Velsicol vcs 506

For regulatory information, see page 222

Product Name Linuron
C.A.S. number 330-55-2

Trade and brand names

Afalon	Afalon 20 ec	Afalon 50
Afalon 50 l	Afalon 50 wp	Afalon pm
Afalon s	Afalon special	Afalon special pm
Afalon wp	Afarin	Algrol
Aminalon ultra d	Aresin s	Atlas janus
Atlas linuron	Atralin	Avastin fl
Bochamp	Boliron	Brabant linuron
Bronox	Cahndox	Calin
Campbell's linuron 45% flowable	Campbell's solo	Campbell's trifluron
Celatox legumes 75 pm	Certrol bl	Chandor
Condor linuron 50	Cytotox legumes 75 pm	Desherbant carottes fisons
Desherbant carottes umpuro	Desherbant legumes cp 75ns	Diflur
Dualin 500 ec	Dupont desherbant 50 l	Dupont flax
Dupont herbicide 326	Dupont linuron 4l	Dupont linuron 50
Dupont linuron 50 wp	Elbanox	Emeldor
Fermax	Fitolin	Fp-linuron 50
Gadison	Hankkija afalon	Hankkija afalon-neste
Herbicruz li pm	Herlin	Inex
Kariben	Kb carox	Kb jardim hortic
Kb jardin horitic	Kombyrone-pl	Kumirol
Kumulan 70 wp	Lanray	Lifian
Linex	Linnex	Linocin
Linocin-cta	Linorox	Linozerba
Linuben	Linukey	Linurac

Product Name Linuron
C.A.S. number 330-55-2

Trade and brand names

Linuragrex	Linural 50	Linuram super
Linuraon 450 fl	Linuree special	Linurex
Linurex 50 wp	Linuron	Linuron 50
Linuron 50 wp	Linuron 50 wp enotria	Linuron chromos 50 wp
Linuron fluessiq	Linuron spuitpoeder	Linuron wp 50
Linuron zeltia	Linurox 50 wp	Liquid linuron 15
Liron s-50	Lorox	Lurontil
MI 50	Malertox luron	Malertox premerq tl
Marksman solo	Medelinon 50	Medex
Molipan	Mudekan	Nemifest
Nemifest le	Neminfest	Nilirex
Nolinex	Pacer I	Panter
Patolin	Pbi liquid linuron	Pielisam
Portman tri-lin	Pre-empt	Profalon
Propilan	Quinoter	Resiben
Rotalin	Sarclex	Sciandor
Siltrinol	Siolcid	Siplen I
Solarex	Solo	Stuiron pb 47,5
Telkar 50 wp	Tersiplene	Tok ultra3
Tolion 303	Total d	Trapan
Trapan h	Tri-farmon	Trifluran combe 36 ec
Trifluree	Trifluron	Trilin
Triluron	Trinulan	Trinuron
Trisol	Tritifen	Trizol
Valinate	Valor	Warrior
Zalin	Zealan	Zeltoxone doble

Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Afalon Condor Linuron
BASF AG.	DEU	Alazine
BAYER AG.		Liflan
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 224

Product Name Magenta
C.A.S. number 632-99-5

Trade and brand names

12418 red	Aizen magenta	Astra fuchsineb
Basic fuchsine	Basic magenta	C.i. 42510
C.i. basic violet	Calcozine fuchsine ho	Calcozine magenta rtn
Cerise b	Diabasic magenta	Diamond fuchsine
Fuchsin basic	Fuchsine	Magenta
Magenta powder n	Orient basic magenta	Rosaniline
Rosaniline hydrochloride	Rosanilinium chloride	Uchsine sbp

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 401

Product Name	Malathion	
C.A.S. number	121-75-5	
Trade and brand names		
Aerosol-50-mf	Aerозoldo szklarni	Afrathion 50
Aqer mal 57	Aqrian 50 50	Aqrichim malathion 50% em
Aqro-mix	Antigril	Apendomotini agropharmaceutiki 1d
Apendomotini agrotechnica 2 d	Apendomotini geopharmaceutiki 1d	Apendomotini korleti 1 d
Apendomotini me malathion 2% diana	Apendomotini mylonas 2 d	Aquatox orange
A-spray	Avisol-dm	Batapec
Batapec 5 r	Benathion 50	Berta 30-5
Brabant malathion 50% vlb	Callimal 50	Calmathion
Carbamal 10 db	Carbamal 50 wp	Carbetox 50 odorizat
Cekumal 50 le	Celthion	Ceratex 55 d
Cerathion 50 ec	Cerevit	Compo rozen-spray-roses
Compo spray roses	Coop malathion 50	Cortix dust
Crop saver	Cythion	Cythion ulv roses
Delicia-melon-aerosol	Denka malathion 50%	Detia malathion-emulsion
Detmol concentraat mavlb	Detmol ma96%	Detmol-mal
Diamal 50 ec	Dielathion	Dinitiol
Dithiomal lv	DIq malathion 45	Effa ya kipous ke lachanika
Effa ya thenthra	Ei 4049	Emmatos
Emmatos extra	Endomozal 50 ec	Etiol tecni
Evershield cm	Exation	Exation 4
Exation 50	Exation lv	Farmos malation
Fison artico chenille	Fitexion	Fitosan 50
Fleur rozen spuitbus	For-mal	Fosfaln ulv
Fosfaran ulv	Fosfomal 50	Fosfotion
Fosmal 50	Foszofotion	Funginex plus
Fyfanon	Gb insecticide	Geomalatox 5 d
Geosep	Geotan	Geotion
Gorgosem	Grillosep	Grovex d 585 malathion 2% dust
Grovex d585 malathion 2% dust	Grovex w422 malathion wettable pow	Hilthion
Insation 50	Insektenill-konzentrat-m	K.o. dorine
Karbofos	Karbofos 5 d	Kb cochenille
Kb cochenilles	Kb insecte-liquide	Kb traitement d'hiver
Kb traitement fin d'hiver	Keythion	Kop-thion
Kypfus	Latoox 5 d	Liro-malathion 50%vkieubaar
Liro-malathion stuifpoeder	Liro-malathion u.l.v.	Lucathion
Luqsathion 4	Luqsathion 50	Luxan malathion 50% vloeibaar
M-50	Ma 96%	Mala 50
Maladan	Maladan insekt-pudder	Maladrex ulv
Maladust 50 ec	Maladust esca	Malafin 4 espolv
Malafin 90	Malafin desodorizado	Malafos formulazione inodore
Malaqrain poudrage	Malaqrex 50	Malamar
Malan-polyte	Malan-ruiskute	Malaphele
Malasan	Malasini-polyte	Malasini-ruiskute
Malaspray	Malatane garden spray	Malatex
Malathane	Malathane-po	Malathex 25% emulsion
Malathex 50% emulsion	Malathion	Malathion 50
Malathion 50 ec	Malathion 57 pg grain protectant	Malathion 60
Malathion agropharm 1d	Malathion agropharm 5d	Malathion agropharmaceutiki 5 d
Malathion ate 5d	Malathion e-50	Malathion e-50 zupa

Product Name **Malathion**
C.A.S. number **121-75-5**

Trade and brand names

Malathion emulsion concentraat	Malathion geopharmaceutiki 5 d	Malathion greenfly killer
Malathion korleti 5 d	Malathion lapaphartm 50 ec	Malathion lvc
Malathion mylonas 5 d	Malathion na	Malathion na 50
Malathion probelte 50	Malathion rhone-poulene 50 wp	Malathion sariaf 50 wp
Malathion ulv	Malathion-efthymiadis 50 ec	Malathion-konzentrat
Malathon garden	Malathon na 50	Malathyne 25
Malatival	Malatol	Malaton 5
Malatox	Malatox 50 ec	Malatox cereali
Malatox I 500	Malavis 50 ec	Malavis I. 50
Malital	Malixol	Malixol I 50
Malmed	Maltex 5 d	Maltox
Malyphos 2	Malyphos 50 el	Matas malathion
Metal	Miraflor-spray	Mlt
Mogol	Murphy greenhouse aerosol	Murphy liquid
Murphy Liquid Malathion	Murphy Malathion Dust	Myrr
Myrr n	Neofos 60	Nodust
Nuvaton larvicida polvere	Orothion 50robelte 50	Patatol activado 5-2 espolvoreo
Perfect	Perfect plant insect spary	Phosan plus
Phytomalttox 5 d	Pirox-spray	Plk-malathion pudder
Polimal 50 ec	Prentox malthion 95% spray	Probelthion 30-4 especial
Protektion 230 maaat mavlb	Pymax puder	Pymaxol
Pyraser no 3	Pyrex insektsspray	Radotion e-50
Rcr malathion wp 25%	Rcr ulti-tip dressing wp	Rentokil malathion dusting powder
Rentokil malatox	Rexatiao po	Rindotol dp
Romal	Sadofos plynny 30	Safethion
Saitofos	Sanac plantspray	Seculral
Semaqrex t	Semesan	Sepraform pq
Silo mixte b.v.	Silothion b.v.	Skadedrecentralens malathion
Solvenal le	Spiritex dp	Spiritex vloebaar
Spritoxin a	Stimal cereali	Stiphos p 4
Sumitox	Telusol malathion 50	Thiocide m
Thiocide m acaricide	Tracapor	Tracor
Triplam	Turbair mn	Veqfru
Veqfru malatox	Verdane mat 50 le	Vintox 5 d
Weibulls bioseki 50	Weibulls bioseki p	Weibulls pyrex insektsspray
Zithiol	Zithiol e	Zithiol liquide
Zz-fostion 4% espolv	Zz-fostion 8% espolv	

Enterprise Name	Based in	Trade Name
BASF AG.	DEU	Captan Moly Seed Protectant
CENEX/LAND O'LAKES AGRONOMY COMPA	USA	Class 6% Malathion Grain Dust
		Class Malathion 5EC
CONAGRA INC.		Clean Crop Malathion 57 EC
		Malathion 8 Aquamul
		Malathion 8 EC
		Malathion ee
		Malathion Methoxychlor Spray
		Malathion ULV Concentrate (EPA 34704-18)
		Malathion ULV Concentrate (EPA 34704-565)

Product Name Malathion
C.A.S. number 121-75-5

Trade and brand names

Enterprise Name	Based in	Trade Name
HELENA CHEMICAL CO.		Cythion 5 lb. Cythion 8 lb. Fyfanon Fyfanon 8lb. Emulsion
HODOGAYA CHEMICAL CO. LTD. (HODOGA	JPN	
ICN PHARMACEUTICALS INC.	USA	
ISHIHARA SANGYO CO., (ISHIHARA SANGY	JPN	
MICRO FLO COMPANY	USA	Malathion 5EC Malathion 8 EC
MONTEDISON S.P.A.	ITA	
PFALTZ AND BAUER INC	USA	
		Malathion 95%
RIVERSIDE/TERRA CORP.		Malathion 5 Malathion ULV
SIGMA-ALDRICH FINE CHEMICALS		
SUMITOMO KAGKU KOGYO (SUMITOMO CH	JPN	
TAKEDA CHEMICAL INDUSTRIES LTD., (TAK		

For regulatory information, see page 225

Product Name Maleic hydrazide
C.A.S. number 123-33-1

Trade and brand names

Aacaptan m	Aaferzimaag stuif	Aahydraz nieuw
Aastimulan	Aatarsan	Aatulsan
Aqriben malein hydrazide	Aqriben maleine hydrazide	Antergon 30
Antyrost	Asepta marvel k	Basf mh 400
Basf-mh 400	Brabant maleine h 180	Burtolin
Chipman grass growth retarder	Cm 4035 komby-cap	Colvoo mh 360
Daconil m	De-cut	De-sprout
Drexel mh2p retard	Drexel sprout stop	Drexel sucker stuff
Du ter-m agro	Du-mazin spuitpoeder	Eimue grasstop
Fair 30	Fair plus	Fair-2
Fazor	Fitanebe	Foltiseb
Fumidor	Fumidor s	Herbicruz mh 30
Herbicruz mh-30	Hora grasstop	Hydrazide
Idrazene	Inhibiteur 360	Juolantuho special
Kmh	Liro manzeb	Liro vurex
Liro-carmazin	Liro-grassol n	Luxan hydamin
Luxan hydramin	Luxan hydramin k	Mah
Maintain 3	Malazide	Maleic acid hydrazide
Malein 30	Malepin	Malzid combi
Manconyl	Manocupryl wp	Manolate corbeaux
Manolate taupins	Manolate triple	Manzib k
Mazide	Mg-t	Mh 25 burts et harvey
Mh 30	Mh 36 bayer	Mh 40
Moloss wp	Ortho mix nieuw	Plk maleinhydrazid 30
Plk mh 300	Regulox k	Regulox w

Product Name Maleic hydrazide
C.A.S. number 123-33-1

Trade and brand names

Retard	Rimidine plus	Royal mh 30
Royal mh-30	Royal slo-qro	Shell malzide k
Slo-qro	Sm-55/maneb	Sprout off
Sprout stop	Stuntman	Sucker-stuff
Super desprout	Super sprout stop	Super stop brot
Super sucker stuff	Synchemicals mazide 25	Synchemicals mazide selective
Tricarbamix wp	Trimanzone	Trihac
Triziman d rustica	Vandalhyde	Viti-combi
Voldalhyd	Vondalhyd	Vondalhyde
Vondalhyd-k	Vondozeb	Vondrax

Enterprise Name	Based in	Trade Name
DREXEL CHEMICAL CO.	USA	Sprout Stop
FISHER SCIENTIFIC CO.		
ICN PHARMACEUTICALS INC.		
ISHIHARA SANGYO CO., (ISHIHARA SANGY	JPN	
MITSUBISHI GAS CHEMICAL CO. INC, (MITS		MH
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 226

Product Name Maneb
C.A.S. number 12427-38-2

Trade and brand names

6208 extra	Aabolan	Aacaptan m
Aamaqan-80	Aamangan	Aamasul n
Aaphythora-m	Aastaman	Aastaneb
Aastimasul	Aatarsan n	Acylon p
Acylon tabac	Adiafix m	Adianebe 80 wp
Afrocobre mz 215	Afrosan mz-8	Aqcheneb
Aqrecozin doble	Aqrex 48-2	Agrichem maneb tin 33-11
Aqrichim carbendazime-manebe	Aqrox flowable	Akzo chemie maneb
Alentisan cm	Alper	Amak extra wp
Apron 70 sd	Arbocide schering	Asepta carbapan special
Asepta maneb	Aseptamazin	Aseptasolan
Aseptazalin	Astaman	Atizon
Bancide maneb 80	Basf maneb 80	Basf-maneb spritzpulver
Bavical	Bavical f	Bavistan ms
Bavistin m	Bavistin m 72	Bavistine m
Belgrano	Belpron m-80	Beltasur extra b
Bercema maneb 80	Bitanebe c	Bledor 3 liquide
Bolda	Bolda fl	Bordoman 70
Bortene mz	Botrin m-72	Bouillie bordelaise rsr + manebe
Bouillie bordelaise rsr+manebe	Brabant carbendazim-maneb	Brabant maneb
Brabant tin super	Brabant zineb/maneb	Brestan 10
Brestan 60	Brestaneb	Bronx
Bronx t	Brugsen skimmeldraeber	Calixin m
Calixine m	Calliman	Carbamag plus
Carbendazim + maneb hoechst	Carbendazim+maneb hoechst	Carbenzip m

Product Name	Maneb	
C.A.S. number	12427-38-2	
Trade and brand names		
Carbovax	Carman	Ce-maneb 85
Ceredor	Cfm maneb 80	Chemaqri maneb
Chemneb	Chimac maneb	Chloroble m total superfix
Cillus maneb 70	Clifton maneb	Cobrever 20 s
Cobrever 208	Colvoo maneb 70%	Cosmic
Cr 3029	Critteb 80	Crosmaneb 80
Crosmaneb80	Crynebe	Cryptosan
Cryptosan cp	Cupertine	Cuprocid m-wp
Cuprofix m	Cuprofix m-wp	Cuprosagrex triple
Cuprosan 311 super d	Curzate m	Daconil m
Daryline m	Davlotan 12 wp	Davlotox d
Delsene m	Delsene m flowable	Demfu
Deroman	Derosal m 60	Derosal m beidsemiddel
Derosalin combi	Difosan	Dithane f-45
Dithane m-22	Dithiovit	Ditoneb
Dlq manebbeidse	Dory mildiou pulverisation concentre	Dory-mildiou pulverisation concentre
Dory-mildiou pulveisation concentre	Drawigran spezial	Du pont manzate
Duphar dithane m-22 spuitpoeder	Duphar maneb/tin spuitpoeder	Du-ter extra
Duter m poudre mouillable	Du-ter/m agro	Du-ter/mancozeb spuitpoeder
Efisan	Ek maneb	Enkil 80
Ephaneb	Etil manqan 80	F 10
Fapeltar	Farmaneb	Farmatin 50
Fentin supra	Fisons peltar	Folticuvre
Folticuvre wp	Foltiseb	Fumidor
Fumidor	Fumidor s	Funqapor
Funqiman 85	Funqiman 88	Funqi-maneb
Fusiman	Fytospore	Germate
Germipro v5 x	Germisan	Goldaen scab rosso
Golden scab 'rosso'	Golden scab 'verde'	Granebe triple
Granol	Granox	Granozan
Granozan d	Greenicide m	Grexx
Grexx tx	Griffin manex	Gumisan
Halcomac wp	Halkosan 311 sd	Hello 80 wp
Hoechst maneb-80	Ici maneb 80	Ici manzin-tin
Idrolene	Inaman	Kb bombe total
Kb bombe totale	Kb jardim batateira	Kb jardim bataterira
Kb jardim bataterira	Kb maladies	Kb mildiou
Kvk maneb	Kypman 80	Labilite
Liro carmazin	Liro matin	Liro-maneb-80-spruitpoeder
Liro-matin	Lirotect m	Liro-tect m
Lonocol m	Luxan captan m spuitpoeder	Luxan carbendazim m spuitpoeder
Luxan carbendazim-m-spruitpoeder	Luxan maneb spuitmiddel	Luxan maneb tin ts
Maben	Malinebe	Manacol
Managrex 80	Manam	Manasim basf
Manatam 80	Manate 80	Manate 80 wp
Mancatene 80	Mancocide	Manconyl 80 wp
Mancozan	Mancozan 60 red	Mandane 80
Maneb 50 flow	Maneb 80	Maneb 80 a
Maneb 80 pm	Maneb 80 sipcam	Maneb 80 spritzpulver

Product Name	Maneb	
C.A.S. number	12427-38-2	
Trade and brand names		
Maneb fort	Maneb montedison	Maneb na
Maneb tech.	Maneb tin aqriben	Maneb w.p. bayer
Maneb wp	Maneba	Maneb-aqro
Maneb-hi 80	Manebina	Manebina 75.15 wp
Maneb-maaq	Maneb-pluess staufer	Maneb-sandoz
Maneb-schacht	Maneb-schering 80%	Manecuire s
Manefor 80	Maneqam ac	Maneor
Manesan	Manex	Manex 80
Manezine	Manqaline	Manganil 80
Manqastan	Manqatex 80	Manqavis 80 pb
Manoc	Manocupryl	Manocupryl wp
Manoqil cp 80	Manolate corbeaux	Manolate taupins
Manolate triple	Manoran	Manoran wp
Manoxyl	Manteb	Mantrebe
Manzate	Manzate 80 wp	Manzate d
Manzeb	Manzin	Maximate
Mazimix	M-diphar	Meb
Miceb wp	Micevit p	Miltoxan spezial
Minosina	Mirotin	Moloss m
Moloss wp	Mp maneb	Mp-manebi
Multar	Multi w	Multi-w fl
Mv 4	Naftane bouillie	Naftane poudrage m
Nebrex pm	Neqal	Nereb
Nespor	Neudo funqan	Neudo-funqan
Occidor	Orblon	Orqanil 66 m
Orqanil 66 wp	Oromaneb 80	Oroseba 20-20-20
Ortho mix nieuw	Pallicap m	Palligold
Pallinal m	Pallinal m spuitpoeder	Pallinalm spuitpoeder
Paracorb m	Partner	Patafol plus
Peltar	Peltisan	Perontan
Pholozim 74 wp	Plantifoq 160m	Plantineb 80
Plantineb 80 wp	Plant-o aerosol	Plk maneb 80
Plk trimangol 80	Plk-vondocarb	Plk-vondocarb extra
Plk-vondozeb 79	Plygram m	Policritt c
Policritt m	Polyram combi m spuitpoeder	Polyram m basf
Prodante 80	Profan	Proliidor
Promildor	Prosem	Prosem c
Pulco maneb 85	Ramezin k 20	Ramezin kc
Remasan	Remasan chloroble m	Rh maneb 80
Rhodianebe	Ridomil delta 47 wp	Ridomil m
Ridomil mbc 60 wp	Rimidine plus	Rizokton
Ronilan m	Sanam m 80	Sandomil m
Saprol m prochimagro	Sari	Schering maneb tin
Segrene 408	Septal	Shell carlane mz
Shell maneb	Shell nitam	Shell zimaneb super
Silodor	Simaneb	Sirdate p
Sm 55 maneb	Sm-55/maneb	Sm-85/schering
Sopranebe	Stabineb 80	Stiman p 8
Sulfacube	Sulfanebe 2000 m	Sulfoma

Product Name	Maneb	
C.A.S. number	12427-38-2	
Trade and brand names		
Sumiscler mz	Sup 'r flo	Super macclesfield 3x15
Tebuzate m	Teman	Terratin qorsac m
Terratin m	Tersan lsr	Tilletia a 80 d
Top special wp	Topaz m extra 50 wp	Topmaneb
Topsar	Total flor	Tricarbamix
Tricarbamix especial	Tricarbamix speciaal spuitpoeder	Tricarbamix special
Tricarbamix special pm	Tricarbamix w.p.	Tricarbasul
Tricusan	Tridezol	Trimanco
Trimangol	Trimangol 80	Trimangol 80 wp
Trimangol dust	Trimanoc super	Trimanzone 85 pm
Trimanzone spuitpoeder 85%	Trimastan	Trimisem total
Tripart maneb 80	Tritogal-m	Trivax 5 m d
Triziman	Tubothane	Turbair maneb
Turbair mb	Turbo zm 75	Turbocuvire cs
Tzin	Umuxebe double	Umuxebe triple
Unicrop maneb	Valiant	Vancide maneb 80 (rt vanderbilt)
Vinhassa ultra m	Vitanebe c	Vitavax 2m wp
Vitavax m	Vitazeb	Volnebe
Vondocarb	Vondocarb extra	Vondozeb
Vondozeb-tin	Wacker maneb	Zicoluq 311
Zinamix	Zinothion-80 wp	Zz-bix

Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Brestan
BASF AG.	DEU	Bavistin M 72
		Cosmic
		Ronilan M
HELENA CHEMICAL CO.	USA	Seed Treatment For Potatoes LD
ICN PHARMACEUTICALS INC.		
PFALTZ AND BAUER INC		
SUMITOMO KAGKU KOGYO (SUMITOMO CH	JPN	
TAKEDA CHEMICAL INDUSTRIES LTD., (TAK		

For regulatory information, see page 227

Product Name Mecarbam
C.A.S. number 2595-54-2

Trade and brand names

Afos

Enterprise Name	Based in	Trade Name
TAKEDA CHEMICAL INDUSTRIES LTD., (TAK	JPN	

For regulatory information, see page 229

Product Name Mecoprop, sodium salt
C.A.S. number 19095-88-6

Trade and brand names

Aacombin	Aaherba-super-fluid	Aanetox-m
Aapropion-4	Acemeco 575	Agren spezial
Alltex super flow	Aniten-mpd	Atlas cmp

Product Name	Mecoprop, sodium salt	
C.A.S. number	19095-88-6	
Trade and brand names		
Atol sc	Atrall flowable	Au-mcpp
Au-mecoprop	Auriqal	Barenbrüg-mcpp
Basf mekoprop 720 fl	Basf-mp 575	Bentrol
Berghoff mcpp	Bh mcpp extra	Bladotyl
Blesal mc	Boots lawn weedkiller	Brabant mcpp
Brennesselgranulat neu spiess-urania	Brominal	Bromonil
Campbell's cmpp 570	Campbell's new campex	Campbell's static 500
Celatox kv	Celatox mcpp	Celatox-mecoprop
Certrol	Chafer cmpp super	Chimac cop
Chimac mcpp	Cleanacres (northern) cmpp	Clenecorn
Clifton cmpp 60	Clovotox	Compitox extra
Denka anti klaver	Denka mcpp vloeibaar	Desherban fluid
Dicopur u 46 kv	Dikofaq kv	Dikofaq p
Dikogren special	Diserbante caffaro	Dlq m-propionat 50
Dm 68	Duphar mcpp vloeibaar	Duplosan kv
Emtebe	Essanvit	Eurostop q
Evergreen Extra	Falitox-cmpp fluessiq	Farmon cmpp
Fisons engrais desherbant gazon k	Fisons Evergreen Feed & Weed	Fisons Evergreen Feed & Weed Liauid
Fisons Tritox	Fk-mecoprop flytende	Gailltox
Galium a	Galoprop-57	Hedapur kv konz.
Hedonal mcpp	Hedonal mcpp 700	Hedonal mcpp forte
Hedonal mcpp sl 560	Hedonal vloeibaar	Hedonal-mcpp
Herbalon 620	Herbaprop es 500	Herbatox-mp 500
Herbexan-mp 560	Herbivit cmpp	Herbizid marks mp
Herbizid mp du pont	Herbizid mp 'elsner'	Herboprop
Herbotal plus	Hermoo mcpp	Herrifex ds
Hoechst mcpp vloeibaar	Hora kv	Hormo-cornox 640
Hormoprop	Hymec	Iso-cornox 57
Iso-cornox extra	Jetfix-ampfer-streumittel cmpp	Kemira mekoprop 640
Klevamol	Kvk mekoprop 640	Kw cmpp
Lantmaennens mekoprop 640	Linoxone extra	Liro mcpa/mcpp
Liro mcpp-4	Liro mcpp-4 vloeibaar	Livin s 48
Lontrel	Lontryx	Lumeton forte 60 wp
Luxan mcpp fluessiq	Luxan mcpp vloeibaar	Luxan mecomix vloeibaar
Luxan mekoprop vloeibaar	Mcpp	Mcpp 56 wacker
Mcpp 640	Mcpp aqriben	Mcpp eurofyto
Mcpp sanac	Mcpp-berghoff	Mcpp-sandoz
Mecoprop-aqriben	Mecormona	Mecotex
Mega-p	Monotrel kombi	Moroqal
Mp 58 konz.	M-propionat nab	Mss cmpp amine 60
Okultin cmpp	Okultin mp	Pesconex
Plk-mp 500	Power cmpp	Proqazon 2000
Propal	Propinox-m 50	Propiormone
Proponex	Propoxone 575	Race
Runcatex-mcpp	Saturnal	Schering-mcpp vloeibaar
Seloxone	Seppic m.m.d.	Shell cmpp
Shell cmpp i	Shell koromix-n	Shell mcpp super
Stellon	Super herbogil	Sys 67 mecmin
Sys 67 mprop	Tradianet q	Tripart cmpp 60

Product Name Mecoprop, sodium salt
C.A.S. number 19095-88-6

Trade and brand names

U 46 kv fluid	U 46 kv fluid (mcpp) basf	U 46 kv fluid mcpp
U 46 kv sl	Utox cmpp	Utox cmpp spiess-urania
Weedone mcpp neu	Yerbatox	Zarqon

For regulatory information, see page 231

Product Name Menazon
C.A.S. number 78-57-9

Trade and brand names

Azidithion	Crcdithioate	Menazon
R 15,175	Saiphos	Saphicol
Saphizon	Sayfor	Sayfos
Sayphos	Syphos	

Enterprise Name	Based in	Trade Name
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FISONS LTD.	GBR	
TAKEDA CHEMICAL INDUSTRIES LTD., (TAK	JPN	

For regulatory information, see page 232

Product Name Mephosfolan
C.A.S. number 950-10-7

Trade and brand names

Ac 47470	Acitrolane 25 ec	Acytro-lane
Acytrolane 250 e	Citroline 25 ec	CI 47470
Cytrolane	Cytro-lane	Ei 47470

For regulatory information, see page 232

Product Name Mercuric chloride
C.A.S. number 7487-94-7

Trade and brand names

Abavit b	Calochlor	Corrosive sublimate
Fungchex	Mc	Sublimat
Sublimate	Sulem	TI 898

Enterprise Name	Based in	Trade Name
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CERAC INC.	USA	
FISHER SCIENTIFIC CO.		
MERCK KGaA	DEU	
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 233

Product Name Mercuric oxide
C.A.S. number 21908-53-2

Trade and brand names

Cillus a anectra tex	Kankerdood	Kankerdood-haavasuoja
Kankerex	Kankertox 3	Santar
Santar m		

Enterprise Name	Based in	Trade Name
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Product Name **Mercuric oxide**
C.A.S. number **21908-53-2**

Trade and brand names

Enterprise Name	Based in	Trade Name
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FISHER SCIENTIFIC CO.	USA	
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page **234**

Product Name **Mercurous chloride**
C.A.S. number **7546-30-7**

Trade and brand names

Calo-clor	Calo-gran	Calomel
Calomel dust	Club root control	Cyclosan

Enterprise Name	Based in	Trade Name
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ICN PHARMACEUTICALS INC.	USA	
MALLINCKRODT, INC.		
PFALTZ AND BAUER INC		

For regulatory information, see page **235**

Product Name **Mercury and mercury compounds ***
C.A.S. number **7439-97-6**

Trade and brand names

Acesan new	Ceresan	Ceresan kuivapeittausaine
Acesan new	Ceresan	Ceresan kuivapeittausaine
Acesan new	Ceresan	Ceresan kuivapeittausaine
Panogen m 12	Tayssato	Tayssato nest
Panogen m 12	Tayssato	Tayssato nest
Panogen m 12	Tayssato	Tayssato nest

Enterprise Name	Based in	Trade Name
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CERAC INC.	USA	
FISHER SCIENTIFIC CO.		
MALLINCKRODT, INC.		
MERCK KGaA	DEU	
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		
SPEX CERTIPREP, INC.		

For regulatory information, see page **401**

Product Name **Metham sodium**
C.A.S. number **137-42-8**

Trade and brand names

Aamonam	Aamonam qc	Adiapam 510
Afroland	Arapam	Arapam 40
Asepta monam	Asepta monam extra	Basf monam conc.
Brinkman monam 510	Busan	Busan 1020
Campbell's metham sodium	Clear-sol	Dicid
Fumathane blue 32.7%	Fumical	Fumigam
Fumigam 510	Geort	Hellapam
lpm 40	Ipocide v	Karbation

Product Name **Metham sodium**
C.A.S. number **137-42-8**

Trade and brand names

Kemicid	Laisol	Luxan monam geoconc.
Luxan monam geoconcentreerd	Luxan monam vloeibaar	Maposol
Maposol 510	Meta-fum	Metam
Metam na	Metam na 40	Metam na 50
Metam sodio basf	Metam sodio basf 510	Metam sodio ficoop
Metam-basf	Metam-fluid 510 q/1 basf	Metam-fluid basf
Metanex 40	Meta-sol extra	Metham-sodium
Methosan	Monam	Monam basf
N-289	Nemasol	Nematin
Nematin 30	Novam	Panko 40
Procida	Prodavapam extra	Raisan 40
Sanexter	Sepivam super	Shell nmc
Shell nmc 510	Sistan	Solasan
Solasan 50	Solasan 500	Solfum 40
Sometam	Super sistam	Terra fume
Terrasan	Trimaton	Trimaton 510
Trimaton qc	Turkan 40	V.p.m soil fumigant
Vapaqrex 40	Vapam	Vapam rh
Vapam-agrotechnica	Vapam-p	Vapasol 510
Vapazon as	Vasteril	Vpm
Zuvapin konc		

Enterprise Name	Based in	Trade Name
AMVAC CHEMICAL CORPORATION	USA	Vapam HL (AMVAC)
BASF AG.	DEU	
BUCKMAN LABORATORIES INTERNATIONAL	USA	
CONAGRA INC.		Nemasol 42%
		Nemasol 426
NUFARM	AUS	Metham
UCB SA.	BEL	

For regulatory information, see page **240**

Product Name **Methamidofos ***
C.A.S. number **10265-92-6**

Trade and brand names

Ortho monitor 60 ls Orthotox

Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Monitor 4
		Tamaron

For regulatory information, see page **241**

Product Name **Methanearsonic acid**
C.A.S. number **124-58-3**

Trade and brand names

Oleo ultracid 100 ec

For regulatory information, see page **242**

Product Name **Methidathion**
C.A.S. number **950-37-8**

Trade and brand names

Dmtp	Geigy qs 13005	Gs-13005
Medathion	Metacidine	Metacidine 40 m
Methidathion	Microcide	Mictocide ce
Minacid e/wp	Oleo ultracid	Oleo ultracid 100 ec
Radocid	Somonil	Suprac
Supracid 20 e	Supracid 40 EC	Supracid 40 wp
Supracide	Suprathion	Ultacron
Ultracid	Ultracid 20	Ultracid 20 bouillie
Ultracid 40 emulsie-liro	Ultracid 40 wp liro	Ultacron
Ustracide		

Enterprise Name	Based in	Trade Name
GOWAN COMPANY	USA	Supracide 25 WP Supracide 25-W
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Suprathion EC Suprathion Technical Graade Suprathion WP
SYNGENTA	CHE	Supracide 25 WP Supracide 2E Supracide(E) WP Supracide(E) EC Ultracide(E) WP Ultracide(E) EC

For regulatory information, see page 242

Product Name **Methomyl**
C.A.S. number **16752-77-5**

Trade and brand names

Acavers 35	Blaha fliegentod	Bogena vliegendoed
Distor ec	Dupont 1179	Golden muscamone vliegendoder
Golden nt	Ilanox	In 1179
Insecticide 1,179	Lancord	Lannate
Lannate 20 I	Lannate 20I	Lannate 25 w methomyl insektizid
Lannate 25 wp	Lannate 90 ws	Lannate I
Lannate-25 insecticida metomil	Lannate-25 wp	Lanox
Mesomile	Methomex	Methomyl
Metofos	Mortalin methomyl flueqift	Nudrin
Nudrin 90	Sd 1499	Sepiclar t
Stimyl bp 25	Terlate	Verfor

Enterprise Name	Based in	Trade Name
E. I. DUPONT DE NEMOURS & CO.	USA	Lannate
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Methofan EC Methofan ULV Methomex SL Methomex SP Methomex Technical Grade
RIVERSIDE/TERRA CORP. SIGMA-ALDRICH FINE CHEMICALS	USA	Methomyl 5G

Product Name Methomyl
C.A.S. number 16752-77-5

Trade and brand names

Enterprise Name	Based in	Trade Name
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SUMITOMO KAGKU KOGYO (SUMITOMO CH	JPN	
TAKEDA CHEMICAL INDUSTRIES LTD., (TAK		

For regulatory information, see page 243

Product Name Methoxychlor
C.A.S. number 72-43-5

Trade and brand names

Alfa-tox	Black leaf lusedreper	Blitol zimmerpflanzen-spray
Bomba total kb jardin	Chemform	Clinex
Double-m e.c.75%	Drexedl methoxychlor 4l	Erikois turma
Evershield cm	Evershield t	Flo pro mcseed protectant
Gullviks methoxyklor	Higalmetox	Kemira metoxyklor 300
Kill it insektspray	Kuoriaistuho ruiskute	Kuoriaistuho-ruiskute
Kvk methoxyklor 300	Marlate	Matas insektspray
Methoxychlor 2 e.c.	Methoxychlor 30 ec	Methoxychlor dust base
Methoxychlor-emulsion	Metidion 270	Metofos plynny
Metofos plynny 30	Mglawik	Moxie
Paloma 66	Pentox	Pflanzen paral gegen schaedlinge an t
Pirox spray	Pirox-spray	Plk methoxychlor 30
Prentox	Propotox	Propotox m aerosol
Radar insektsspray n	Radar universal e	Saitofos
Silvetox 3	Sixanol	Substral spray
Supertox	Telusol insekt spray ekstra	Telusol insektspray extra
Trimethox	U-5	Yleisaerosoli
Zimmerpflanzen-spray spieß		

Enterprise Name	Based in	Trade Name
CONAGRA INC.	USA	Malathion Methoxychlor Spray
		Methoxychlor 2EC
PFALTZ AND BAUER INC		Methoxy-Ddt Tech - Carc
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 244

Product Name Methoxyethyl mercury acetate
C.A.S. number 151-38-2

Trade and brand names

Cekusil universal a	Cinabran double liquide	Fk kvikksoelvbeis
Fk metox beis vt	Panogen	Panogen m
Panogen metox	Panogen metox 12	Panogen n

For regulatory information, see page 246

Product Name Methyl chloromethyl ether
C.A.S. number 107-30-2

Trade and brand names

Chlorodimethyl ether	Cmme
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For regulatory information, see page 403

Product Name Methyl chloromethyl ether
C.A.S. number 107-30-2

Trade and brand names

Product Name Methylmethane sulphonate
C.A.S. number 66-27-3

Trade and brand names

Nsc-50256

Enterprise Name	Based in	Trade Name
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FISHER SCIENTIFIC CO.	USA	
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For regulatory information, see page 405

Product Name Mevinphos
C.A.S. number 7786-34-7

Trade and brand names

Agrichim mevinphos	Apavinphos	Azodrin double
Barabant mevinfos	Duraphos	Fosdrin
Fosdrin 15	Fosdrin ruiskute	Fosdrin-ruiskute
Gesfid	Hermoo mevinphos	Luxan mevinfos vloeibaar
Menite	Mevinex	Mevinfos valaagro
Mevinox	Mevinphos eurofyto	Mevintox
Os-2046	Pd 5	Phosdrin
Phosdrin 10 ec	Phosdrin 24 ec	Phosdrin e.c.
Phosdrin mengolie	Phosdrin w 10	Phosdrin/phosdrine
Phosfene	Phoslit 10	Regisdrin
Shell phosdrin 50	Shell phosrrin	Systephos

Enterprise Name	Based in	Trade Name
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PFALTZ AND BAUER INC	USA	
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For regulatory information, see page 247

Product Name Mexacarbate
C.A.S. number 315-18-4

Trade and brand names

Zectran

For regulatory information, see page 249

Product Name Mirex
C.A.S. number 2385-85-5

Trade and brand names

Bichlorendo	Dechlorane	Ferriamicide
Ferriamicide	Gc-1283	Hrs 1276
Gc-1283	Hrs 1276	Mirex 300
Mirex 300	Paramex	
Paramex	Bichlorendo	Dechlorane

Enterprise Name	Based in	Trade Name
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OCCIDENTAL PETROLEUM CORP.	USA	
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 250

Product Name **Monocrotophos ***
C.A.S. number **6923-22-4**

Trade and brand names

Aqrofos sl-20	Apadrin	Azobane
Azocord	Azodrin	Azodrin 20
Azodrin 20% wsc	Azodrin 40	Azodrin 40 sc
Azodrin 40 wsc	Azodrin double	Azodrin extra
Azodrin soufre 70	Bifos	Bilobran
C 1414	Ceku-monocrotophos 40 lc	Crisodrin
Crotofit	Crotofos 40 le	Crotos 20
Crotovid	Eritox 20	Gesal-rosenspritzmittel
Gesik	Hazodrin	Inaqron
Matas resesproeitemiddel	Matas rosesproeitemiddel	Monocil
Monocron	Monocron 40 lc	Monocrotophos
Monodrin	Monofos	More-phos 73%
Novagrino	Nuvacron	Nuvacron 20
Nuvacron 40	Nuvacron 40 scw	Nuvacron 40 wsc
Pandar	Pillardrin	Plantdrin
Politrin n	Profos 40 le	S 9129
Susvin	Verdecion monocrotophos ls	

For regulatory information, see page **251**

Product Name **Monolinuron**
C.A.S. number **1746-81-2**

Trade and brand names

Afesin	Aresin	Aresin 50 wp
Aresin pm	Aresin wp	Aresin/aresine
Aricosan	Arresin	Cartex m
Gramonol	Gramonol 5	Gramonol five
Monolinuron 50 wp	Monuryl	

For regulatory information, see page **254**

Product Name **Monuron**
C.A.S. number **150-68-5**

Trade and brand names

Asb total-unkrautfrei fuer wege	Blitol rosenuenger plus	Blitol rosenuenger plus
Blitol-total-unkrautfrei fuer wege	Chlorea	Chlorfenidim
Cmu	Cmu weed killer	Karmes monuron herbicide
Lirobetarex	Monur	Monurex
Monurox	Orbitox-neu	Rosuran
Rosuron	Telvar	Telvar monuron weedkiller
Unkraut-ex 'frappant'	Uriebor	

Enterprise Name	Based in	Trade Name
ICN PHARMACEUTICALS INC.	USA	
PFALTZ AND BAUER INC		
		Monuron - Carc
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page **254**

Product Name Morfamquat
C.A.S. number 4636-83-3

Trade and brand names

Morfoxon Pp 745 Rasen-primus

For regulatory information, see page 255

Product Name Nicotine
C.A.S. number 54-11-5

Trade and brand names

Black leaf 40	Campbell's nico soap	Campbell's nicotine fumigating shreds
Emc-nik	Estratto di tabacco	Fumetoeac
Hypnol	Mach-nic	Nic-bal
Nicc-cice	Nicc-cust	Nicc-fume
Nicotine alkalcid	Nicoqen	Nicol
Nicotiinkarytenauha	Nicotin 40% shreds	Nicotin fumigating shreds
Nicotin rookpoeder	Nicotox sandoz	Nicotoxin
Niqara p a dlst	Nikal-fix	Nikotiinkarytenauha
Tendust	XI all insecticide	

Enterprise Name	Based in	Trade Name
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FISHER SCIENTIFIC CO.	USA	
ICN PHARMACEUTICALS INC.		
MALLINCKRODT, INC.		
MERCK KGaA	DEU	
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 256

Product Name Nitrofen
C.A.S. number 1836-75-5

Trade and brand names

Fw 925	Herbalt s	Mezotox
Mezotox 25 ec	Mixi-tok	Namedit
Niclofen	Nilirex	Nip
Nitraphen	Nitro far	Nitrochlor
Phenoterb	Plantulin	Tok
Tok 50 wp	Tok e 25 procida	Tok e-25
Tok ultra	Tok wp-50	Tolion 303
Trazalex	Trazalex extra	Trizilin
Trizilin 25		

For regulatory information, see page 257

Product Name o-Aminoazotoluene
C.A.S. number 97-56-3

Trade and brand names

Brasilazina oil yellow r	C.i. 11160	C.i. solvent yellow 3
Fast yellow at	Fat yellow b	Hidaco oil yellow
Oil yellow 21	Oil yellow 2681	Oil yellow 2r
Oil yellow at	Oil yellow c	Oil yellow i
Organol yellow 2t	Somalia yellow r	

For regulatory information, see page 438

Product Name o-Aminoazotoluene
C.A.S. number 97-56-3

Trade and brand names

Product Name Octachlorodipropyl ether
C.A.S. number 127-90-2

Trade and brand names

Monsanto 16226 S 421

For regulatory information, see page 259

Product Name o-Dichlorobenzene
C.A.S. number 95-50-1

Trade and brand names

Chlorben	Cloroben	Cloroden
Dcb	Di-chloricide	Dichlorobenzene, ortho liquid
Dilatin db	Dizene	Dowtherm e
Evola	Odb	Paracide
Paracrystals	Paradi	Paradow
Paramoth	Paranuqgets	Parazene
Pdb	Pdcb	Rora waste number u070
Santochlor	Special termite fluid	Termtikilb

Enterprise Name	Based in	Trade Name
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BAYER AG.	DEU	
CAMIDA Ltd.	GBR	
ENI SPA	ITA	
FISHER SCIENTIFIC CO.	USA	
HAYS CHEMICALS Ltd.	GBR	
ICN PHARMACEUTICALS INC.	USA	
KUREHA CHEMICAL INDUSTRY CO. LTD. (K	JPN	
MALLINCKRODT, INC.	USA	
MERCK KGaA	DEU	
MITSUI & Co., Ltd	JPN	
NIPPON KAYAKU CO. Ltd		
OCCIDENTAL PETROLEUM CORP.	USA	
OLIN CORP.		
PFALTZ AND BAUER INC		
PHARMACIA		
PPG INDUSTRIES INC. CHEMICALS		
SIGMA-ALDRICH FINE CHEMICALS		
STAN CHEM INTERNATIONAL Ltd.	GBR	
SUMITOMO KAGKU KOGYO (SUMITOMO CH	JPN	
TOTALFINAELF	FRA	

For regulatory information, see page 339

Product Name Omethoate
C.A.S. number 1113-02-6

Trade and brand names

Folimat	Folimat e	Folimat rosenspray
Folimat t	Folimat tk	Garten-pflanzen spray n
Lizetan-zierpflanzen spray	Zimmer pflanzen spray n	

Product Name Omethoate
C.A.S. number 1113-02-6

Trade and brand names

Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Folimat Folimat spezial

For regulatory information, see page 259

Product Name o-Tolidine
C.A.S. number 119-93-7

Trade and brand names

C.i. azoic diazo component 113 Fast drk blue base r

Enterprise Name	Based in	Trade Name
NIPPON KAYAKU CO. Ltd	JPN	
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 438

Product Name Oxyfluorfen
C.A.S. number 42874-03-3

Trade and brand names

Bronco	Dervinol	Devrinol goal 24-6 le
Dual	Gardenurs	Gardenurs q
Gardenurs q procida	Gardenurs pm procida	Goal
Goal ec	Goalapon	Koltar
Multigoal	Paraquat lasso	Rh-2915
Roundup	Surflan	

Enterprise Name	Based in	Trade Name
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Galigan
PHARMACIA	USA	Goal CT
ROHM & HAAS CO.		Delta Goal Goal 1.6E Goal 2XL Goal T/O
SIGMA-ALDRICH FINE CHEMICALS		
THE SCOTTS COMPANY		Rout Scotts Progrow Ornamental Herbicide II

For regulatory information, see page 260

Product Name Oxythioquinox
C.A.S. number 2439-01-2

Trade and brand names

Antracol m	Bayfidan mo	Camostan
Chinomethionate	Dithioquinox	Erade
Erazidon	Forstan	Morestan
Morestan generators	Morestan-ruiskutejauhe	Morestan-savupanos
Mqd	Ss 2074	

Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Morestan 25% WP

Product Name Oxythioquinox
C.A.S. number 2439-01-2

Trade and brand names

Enterprise Name	Based in	Trade Name
OLYMPIC HORTICULTURAL PRODUCTS, CO	USA	Joust

For regulatory information, see page 261

Product Name p-Aminoazobenzene
C.A.S. number 60-09-3

Trade and brand names

Brasilazina oil yellow q	C.i. 11000	C.i. solvent yellow 1
Cellitazol r	Ceres yellow r	Fast spirit yellow
Induline r	Oil soluble aniline yellow	Oil yellow ab
Organol yellow 2a	Somalia yellow 2g	Sudan yellow r

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 440

Product Name Paraquat(dichloride)
C.A.S. number 1910-42-5

Trade and brand names

Actor	Aqlukon onkruidverdelger	Agrichem paraquat f
Akariaio	Cekuquat	Chlorozon
Cillus paraquat 24	Cleansweep	Crisquat
Denka onkruidverdelger	Denka onkruidverdelger p	Dextrone
Dextrone-x	Dexuron	Dimethyl viologen chloride
Dinoquat 20 as	Diparat	Dipiril
Disseccante caffaro	Eep	Erbisec
Erbiven sp	Erbivin ap	Esgram
Farmon pdq	Flornet	Galokson
Goldquat 276	Gralat	Gramazin
Gramazine	Graminex b	Gramix
Gramixel	Gramixel c	Gramocil
Gramonol	Gramonol 5	Gramonol five
Gramoxine	Gramoxon 100	Gramoxone
Gramoxone 100	Gramoxone a	Gramoxone dichloride
Gramoxone extra	Gramoxone extra-n	Gramoxone w
Gramuron	Grasskill as	Groundhoq
Herbaxone	Herbazol	Herbazol n
Herboxone	Ici-ivosta onkruidverdelger	Kvd praquat
Kvk paraquat	Liro paraquat	Luxan paraquat-q
Methyl viologen (reduced)	Methylviologen	Mofisal
Ok 622	Ortho	Osaquat super
Parable	Paracol	Para-diquat
Paralight	Paraquat	Paraquat di(methyl sulphate) grower as
Paraquat dichloride 24%	Paraquat dichloride as	Paraquat hi
Paraquat plus	Paraquat protex	Paraquat rumianca
Paraquat-gefex 20	Paraquin	Paraquone
Parater	Parazin	Parazone as
Pardi	Pared	Pathclear
Pillaroxone	Pillarquat	Pillarxone

Product Name	Paraquat(dichloride)	
C.A.S. number	1910-42-5	
Trade and brand names		
Polyzone 24	Power paraquat	Preeglone
Preeglone extra	Priqlone	Proxon
Pyriquat special	Quatrol	R-bix
Scythe	Secantin	Seccatutto
Simaquat pasta	Simpar	Sinasil as
Soltair	Speedway	Spezial unkrautvernichter duanti
Sweep	Swep	Tdta-col
Terraklene	Terraklene b	Terraklene extra
Tota-col	Totacol extra	Total-col
Toxer total	Toxer total as	Weedol
Weedol qr	Weedol spuitkorrels (voor kleingebruik)	Zintox as
Enterprise Name	Based in	Trade Name
NUFARM	AUS	Nuquat Nuquat 250
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		
SYNGENTA	CHE	Cyclone Cyclone Concentrate Giror Gramoxone Gramoxone Extra Gramoxone Max Gramoxone Plus Preeglone Starfire Starfire Concentrate

TAKEDA CHEMICAL INDUSTRIES LTD., (TAK JPN

For regulatory information, see page 263

Product Name	Paraquat-bis (methyl sulfate)		
C.A.S. number	2074-50-2		
Trade and brand names			
Gramoxone methyl sulfate	Ok 621		Paraquat i
Pp 910			

For regulatory information, see page 264

Product Name	Parathion *	
C.A.S. number	56-38-2	
Trade and brand names		
Aat	Aatiol vloeibaar 25%	Ab 10
Ac 3422	Aqer par	Aqrofos 20 ec
Agrofos normale 3	Aqrotox 10 g	Aki paration 35
Albos 3,5	Alkron	Alleron
Alotox el	Ambinex	American cyanamid 3422
Aphamite	Aralo	Asepthion 25% spuitpoeder
Asepthion 25% vkieubaar	B 404	B 404 emulsioN
B 404 emulsion	B parathion forte agrotec	B parathion-p-o-x konzentriert
Bapar 10	Bladan e 605 ruiskutejauhe	Bladan e 605-ruiskutejauhe

Product Name	Parathion *	
C.A.S. number	56-38-2	
Trade and brand names		
Bladan extra	Bladen m	Brabant parathion 25% spuitpoeder
Brabant parathion 25% vl	Carposan	Carposan 20
Chemagri parathion 25%	Chimac par h	Citripor
Clave 1 504 paration etilico	Compound 3422	Corothion
Corposan	Corthione	Crisquat
Cyclocide	Danthion	Dethion 25% vloeibaar
Dex-uron	Dianoil	Di-thios
Di-thios wp 25	Dlq parathion 35	Dntp
Dpp	Duphar parathion	Duphar parathion spuitpoeder
E 605	E 605 forte	E 605 forte universal-insektizid
E 605 po	E 605 spritzmittel neu	E 605 staub
E combi	Ecadion 5 q	Ecadion granule
Ecatox '20' liquido	Ecombi	Eforol 2 fluessig
Eforol-spritzmittel	Efosfet 20	Eftol
Eftol sre037j	Eftol-oel	Eqodan parathion 35 ec
Eqodan parathion ec	Ekatox 20	Ekatox 20 pulver
Ekatox acaricida	Ekatox akarizid/acaricide	Ekavinol 5 p
Ent 15108	Epho emulsion	Ethionyl 25
Etilon	Ever 20	Fanoil
Folidol	Folidol 20 pm	Folidol e 605
Folidol e 605 ec	Folidol oil	Folidol olje
Folidol spuitpoeder 25	Folidol spuitpoeder	Folidol spuitpoeder 25
Folidol winteroel/huile d'hiver	Folidol-e 605 geconc	Folidol-oel
Folidol-oel-spritzmittel	Folidol-oleo	Folidol-olje
Forte	Fosdon e-20	Fosdon e-20 ec
Fosferno	Fosferno 50	Fosfet 20
Fosfex	Fosfive	Fosfosol 20 e
Fosova	Fostern	Fostox e
Fostox e 20	Fostox e-20	Fostox-e
Gemafos 10 q	Gemafos 50	Genithion
Gensol e-p	Geofos	Geofos q
Gramone	Gramuron	Hellapol
Hellatox 10 q	Herboxone	Insectdood parathion 25% emulgeerba
Jeboterra-korrels	Juurikaspolyte	Kolphos
Kriss 2.5 q	Kriss granule	Kriss poudre 1
Kvk parathion 35	Kvk parathion 35 s	Kvk paration 35
Kypthion	Lethalaire q-54	Liquifos 20
Liro parathion 25 ec	Liro paration wp	Lirothion
Lirothion-spuitpoeder	Lirothion-spuitpoeder 25%	Liebophos vloeibaar 25% vk
Luxan parathion 20% spritzpulver	Luxan parathion 25% spuitpoeder	Luxan parathion 25% vloeibaar
Malatox p 20	Meol	Metrol 48 ec
Mogran	Morphos 20 ec	Murfos
Niran	Nitrostigmine	Niuf-100
Nivol ce 3	Nourithion	Novothion 25
Nyvol ce 3	Oenithion	Oleo bladan
Oleo-folidol	Oleofos	Oleoparaphene
Oleoparathion-burri	Oleoparathion-hoko	Oleoparathion-sandoz
Oleothion sandoz	Oleovis attivato	Olio paratione sandoz
Olio-folidol	Olparin	Orthion a-48

Product Name	Parathion *	
C.A.S. number	56-38-2	
Trade and brand names		
Orthophos	Pac	Pacol 3
Pacol 4,5	Pacol 4.5	Panthion
Paracoccidol oil	Parafene rosso	Parafitanol
Parafitimol	Parafos	Parafos q
Paragrano	Paramar	Paramin p3
Paran e-20 q	Paran-e 20 q	Paraphene
Paraphos	Parath0x e 20 ec	Parathene
Parathion	Parathion 20	Parathion 20 qr
Parathion 25 l eurofyto	Parathion 50 ec	Parathion a
Parathion a-46	Parathion agrotechnica 20 qr	Parathion forte agrotec
Parathion q 10	Parathion ital agro	Parathion ph. mengolie 25%
Parathion ph. spuitpoeder 25%	Parathion p-o-x konzentriert	Parathion spuitpoeder aqriben
Parathion vloeibaar-aqriben	Parathionex	Parathion-fluessiq/liquid
Parathion-fluid	Parathox-e 20 ec	Paratiao reis
Paratiao valagro	Paratidol	Paratidol ec
Paratil	Paratoil	Paratoleo
Paratox 25 em	Paratox 25% wp	Paratox q 10
Parawet	Parethyl	Parethyl 20 ec
Paretil 20 pm	Paretox 10	Paridol
Partil 606 c.e.	Pennside 100	Penphos
Pestox plus	Pethion	Pf-50
Phoskil	Phosphemol	Phosphenol
Phosphostiomine	Plk parathion 35	Polyxane l
Pomoroleo	Pox granulat	Pox konz
Pr 20	Prephon 20 ec	Promephos 20 ec
Promildor	Rb	Rhodiatox
Rhodiatox acaricide	Rhodiatox acaricide bouillie	Rondiatox 20 ec
Saitofos	Sanac parathion 25 liquide	Sariafos 20 e
Selefos	Shell parathion 25% vloeibaar	Shell parathion 35 sp
Shell parathion spuitmiddel 25%	Shellphos 20	Shellphos 20 ec
Sivampar 10 qr microgranuli	Sivmpar 10 microgranuli	Sixty-three special e c
Sladan f	Snp	Soprathion
Spitfos 10 q	Stabilized ethyl parathion	Stathion
Strathion	Sulphos	T-47
Tacsation etilico 50%	Tamaron	Techn'ethyl qr
Tecnifos	Tecnoliofos	Terfos 10 granulare
Terfos olio	Tetrafos 10 q	Tetrafos 200
Thiomex	Thiomex 25% emulsion	Thiophos
Tiofos	Tox 47	Toxol
Trafos	Typholine d	Typhon 50 ec
Uqecoil p	Ultronal	Vapophos
Visfos 25 pb	Visfos forte	Wurmkiller
Wurm-killer	Xantolio 20 ec	Ypara qr

Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Pacol Rhodiatox
BASF AG.	DEU	
BAYER AG.		E 605 forte

Product Name Parathion *
C.A.S. number 56-38-2

Trade and brand names

Enterprise Name	Based in	Trade Name
CONAGRA INC.	USA	E 605 FT 20
		Ecombi
		Paraspray 4-E
		Paraspray 6-3
		Paraspray 8 Aquamul
HELENA CHEMICAL CO.		Paraspray 8-E
ROCHE HOLDING LTD.	CHE	Parathion Methyl Parathion 6-3
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 264

Product Name Parathion methyl *
C.A.S. number 298-00-0

Trade and brand names

8056 hc	Aqer par m 20	Aqrex 60-2
Aqer par m 20	Aqrex 60-2	A-qro
A-qro	Aqrometil	Aqrotox 50 siapa
Aqrometil	Aqrotox 50 siapa	Alenthion
Alenthion	Amathion	Aration 35
Amathion	Aration 35	Arethion 2 e
Arethion 2 e	Arethion 35	Azobane
Arethion 35	Azobane	Azodrin soufre 70
Azodrin soufre 70	Azofos	Azophos
Azofos	Azophos	Bacidal saniflor
Bacidal saniflor	Basmetil	Bladan e 605-polyte
Basmetil	Bladan e 605-polyte	Bladan m
Bladan m	Bladan m 20	Carpomon 20
Bladan m 20	Carpomon 20	Cekumethion
Cekumethion	Chimac par m	Dalf
Chimac par m	Dalf	Devithion
Devithion	Diapar	Dicothion
Diapar	Dicothion	Difadol
Difadol	Dimet 20 e	Dimetiox 20
Dimet 20 e	Dimetiox 20	Dimetol 30 pb
Dimetol 30 pb	Dimetox	Dipterex
Dimetox	Dipterex	Ditil
Ditil	Dyqun	Dypar
Dyqun	Dypar	E 601
E 601	E 605 polvere	E 605 staub
E 605 polvere	E 605 staub	Ecadion methyl
Ecadion methyl	Ecatox metil	Ecatox-metil
Ecatox metil	Ecatox-metil	Ekatox
Ekatox	Eltox 40 ec	Ever 35 r
Eltox 40 ec	Ever 35 r	Fanulen 35
Fanulen 35	Foley	Folidol 2 esp
Foley	Folidol 2 esp	Folidol e 605 geconc
Folidol e 605 geconc	Folidol e 605 stuif	Folidol e 605-stuif

Product Name	Parathion methyl *	
C.A.S. number	298-00-0	
Trade and brand names		
Folidol e 605 stuif	Folidol e 605-stuif	Folidol m
Folidol m	Folidol m 40 ec	Folidol m-2 espolv
Folidol m 40 ec	Folidol m-2 espolv	Folidol mz
Folidol mz	Folidol polvo	Fosdon 40 ec
Folidol polvo	Fosdon 40 ec	Fosferno 2 espolv
Fosferno 2 espolv	Fosferno espolv	Fosferno m 35
Fosferno espolv	Fosferno m 35	Fosferno m 50
Fosferno m 50	Fosmetile 25	Fostox metil
Fosmetile 25	Fostox metil	Fulkil
Fulkil	Gearphos	Gensol m-p
Gearphos	Gensol m-p	Geometil
Geometil	Gobathion m liquide	Grenik 720
Gobathion m liquide	Grenik 720	Hellatox m 40 ec
Hellatox m 40 ec	Kelthane mixte	Kelthane mixte p
Kelthane mixte	Kelthane mixte p	Kriss liquide m
Kriss liquide m	Laipar m	Marfos
Laipar m	Marfos	Me 605 spritzpulver
Me 605 spritzpulver	Mefos 40 ec	Mep 20
Mefos 40 ec	Mep 20	Mepan 20
Mepan 20	Mepaton	Mepatox 2
Mepaton	Mepatox 2	Mepatox 2 espolv
Mepatox 2 espolv	Mepatox 35	Meptox
Mepatox 35	Meptox	Mesthan 40 l
Mesthan 40 l	Mesthan 40 m	Metacid 50
Mesthan 40 m	Metacid 50	Metacide
Metacide	Metafir e 20	Metafos
Metafir e 20	Metafos	Metaphor
Metaphor	Metaphos	Metene
Metaphos	Metene	Methyl bladan
Methyl bladan	Methyl bladan 40	Methyl fosferno
Methyl bladan 40	Methyl fosferno	Methyl niran
Methyl niran	Methyl parathion	Methyl paretox poudrage
Methyl parathion	Methyl paretox poudrage	Methyl thiophos
Methyl thiophos	Methyl-e 605	Methyloparathion aeehpl 40 ec
Methyl-e 605	Methyloparathion aeehpl 40 ec	Methyl-paretox
Methyl-paretox	Metiamon	Metil paraben
Metiamon	Metil paraben	Metil parafene
Metil parafene	Metil paration 2 porozo	Metil paration ficoop le
Metil paration 2 porozo	Metil paration ficoop le	Metilan
Metilan	Metilico 2 tridente p/esp	Metilon 20
Metilico 2 tridente p/esp	Metilon 20	Metox 20
Metox 20	Metri 500 tridente c.e.	Metron
Metri 500 tridente c.e.	Metron	Mettyphon 20
Mettyphon 20	Morfos methyl 40 ec	M-parathion
Morfos methyl 40 ec	M-parathion	Mt 20
Mt 20	Neutrion	Neutrion extra
Neutrion	Neutrion extra	Niletar
Niletar	Nitran	Nitrox 80
Nitran	Nitrox 80	Oleo paraben

Product Name	Parathion methyl *	
C.A.S. number	298-00-0	
Trade and brand names		
Oleo paraben	Oleo parafene	Oleo paration
Oleo parafene	Oleo paration	Oleo wofatox
Oleo wofatox	Oleoparafene	Oleo-wofatox
Oleoparafene	Oleo-wofatox	Olevofotox
Olevofotox	P l k parathion methyl	P.m. 720
P l k parathion methyl	P.m. 720	Palsatox no 18
Palsatox no 18	Palsatox no 56	Palsatox no 59
Palsatox no 56	Palsatox no 59	Palsatox no 70 (liquido)
Palsatox no 70 (liquido)	Pandox 63 ec	Parafor 20
Pandox 63 ec	Parafor 20	Parafos m-50
Parafos m-50	Paragrex 35	Paraluq m 35
Paragrex 35	Paraluq m 35	Parameth 40
Parameth 40	Paramethyl 40 ec	Parametil
Paramethyl 40 ec	Parametil	Paran m-20 q
Paran m-20 q	Parapest m-50	Parasoufre
Parapest m-50	Parasoufre	Parasoufre acaricide 1.5%
Parasoufre acaricide 1.5%	Parataf	Parathion methilico
Parataf	Parathion methilico	Parathion- methyl 40%
Parathion- methyl 40%	Parathox m-40 ec	Paration metilico
Parathox m-40 ec	Paration metilico	Paratox
Paratox	Paratox m-40 ec	Parax 35
Paratox m-40 ec	Parax 35	Parenil metil
Parenil metil	Paridol t 20	Parmethyl 40 ec
Paridol t 20	Parmethyl 40 ec	Partron-m
Partron-m	Penncap m	Penncap ms
Penncap m	Penncap ms	Penntox ms
Penntox ms	Penter	Polysar mt
Penter	Polysar mt	Pox m 20
Pox m 20	Probel mp 20 pm	Prondatox 40 ec
Probel mp 20 pm	Prondatox 40 ec	Psilan
Psilan	Quinophos	Quinophos huileux
Quinophos	Quinophos huileux	Rubinol 40 ec
Rubinol 40 ec	Sinafid m48	Soufre aero acaricide
Sinafid m48	Soufre aero acaricide	Soufre aero methyl
Soufre aero methyl	Sunpara	Super acarol ec
Sunpara	Super acarol ec	Tachizolon
Tachizolon	Tacsation	Taxi-zolon
Tacsation	Taxi-zolon	Taxi-zolone
Taxi-zolone	Taxylone	Techn'athion 40
Taxylone	Techn'athion 40	Tekwaisa
Tekwaisa	Thiodan extra ec	Thiometilan
Thiodan extra ec	Thiometilan	Thiomop 40
Thiomop 40	Thionyl 40	Thiophenit
Thionyl 40	Thiophenit	Thylpar m-50
Thylpar m-50	Toll	Toxition
Toll	Toxition	Transpar
Transpar	Trimeton ec	Tuver acaricide
Trimeton ec	Tuver acaricide	Unidol
Unidol	Vention	Vention super 2

Product Name Parathion methyl *
C.A.S. number 298-00-0

Trade and brand names

Vention	Vention super 2	Verdecion par le
Verdecion par le	Verdecion para 2 p	Verecar t
Verdecion para 2 p	Verecar t	Verfor
Verfor	Veromite	Viticarb
Veromite	Viticarb	Vofatox
Vofatox	Wintol	Wofatox 50 ec
Wintol	Wofatox 50 ec	Wofatox konzentrat 50
Wofatox konzentrat 50	Wofatox porozo	Wofatox-konzentrat 50
Wofatox porozo	Wofatox-konzentrat 50	Wofotox spritzmittel
Wofotox spritzmittel	Y phos vigne	8056 hc
Y phos vigne		

Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Metil Parathion Novafos
BAYER AG.	DEU	Bladan M 20 Bladan ME ME 605 -Spritzpulver
CONAGRA INC.	USA	Methyl Parathion 4E Methyl Parathion 7.5
HELENA CHEMICAL CO.		7.5 LB. Methyl Parathion Methyl Parathion 4 lb. Parathion Methyl Parathion 6-3
MONTEDISON S.P.A.	ITA	Thionex EC
RIVERSIDE/TERRA CORP.	USA	Methyl Parathion 4 Methyl Parathion 7.2

For regulatory information, see page 267

Product Name Pentachlorophenol *
C.A.S. number 87-86-5

Trade and brand names

Antimicrobial	Chem-tol	Chlon
Chlon	Chlorophen	Cryptoqil
Chlorophen	Cryptoqil	Dow pentachlorophenol dp-2
Dow pentachlorophenol dp-2	Dowicide ec-7	Durotox
Dowicide ec-7	Durotox	Ep 30
Ep 30	Fungifen	Glazd penta
Fungifen	Glazd penta	Grundier arbezol
Grundier arbezol	Lauxtol	Liroprem
Lauxtol	Liroprem	Pcp
Pcp	Penchlorol	Penta
Penchlorol	Penta	Penta concentrate
Penta concentrate	Penta dragon 50 pino	Penta ready
Penta dragon 50 pino	Penta ready	Penta wr
Penta wr	Pentacon	Penta-kil
Pentacon	Penta-kil	Pentanol
Pentanol	Pentasol	Penwar
Pentasol	Penwar	Peratox
Peratox	Permacide	Permagard

Product Name Pentachlorophenol *
C.A.S. number 87-86-5

Trade and brand names

Permacide	Permaqard	Permasan
Permasan	Permatox	Permite
Permatox	Permite	Phenclorol
Phenclorol	Pkhf	Pol nu
Pkhf	Pol nu	Preventol p
Preventol p	Priltox	Santobrite
Priltox	Santobrite	Santophen
Santophen	Sinituho	Stam lv-sp
Sinituho	Stam lv-sp	Term-i-trol
Term-i-trol	Thompson's wood fix	Weedone
Thompson's wood fix	Weedone	Wescocide b
Wescocide b	Woodtreat a	
Woodtreat a	Antimicrobial	Chem-tol

Enterprise Name	Based in	Trade Name
FISHER SCIENTIFIC CO.	USA	
HODOGAYA CHEMICAL CO. LTD. (HODOGA	JPN	
ICN PHARMACEUTICALS INC.	USA	
MALLINCKRODT, INC.		
MERCK KGaA	DEU	
MITSUI & Co., Ltd	JPN	
NIPPON SODA CO. LTD. (NIPPON SODA K.		
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		
VULCAN MATERIALS COMPANY,		

For regulatory information, see page 270

Product Name Perthane
C.A.S. number 72-56-0

Trade and brand names

Ethylan	Flymaster kombi n	Percide
Perthane	Perthane ec	Pika-radar
Q-137	Stack n	

For regulatory information, see page 273

Product Name Phenkapton
C.A.S. number 2275-14-1

Trade and brand names

G 28029

For regulatory information, see page 273

Product Name Phenylmercury acetate
C.A.S. number 62-38-4

Trade and brand names

Agrosan	Agrosan p	Alentisan
Algimycin	Anticon	Antimucin wdr
Bufen	Cekusil	Celmer
Ceresan polvo	Ceresan universal	Ceresol

Product Name **Phenylmercury acetate****C.A.S. number** **62-38-4****Trade and brand names**

Contra cin4482me	Cosan	Dyanacide
Falisan universal fluessiqbeize	Femma	Fma
Fungicide r	Fungitox or	Gallotox
Hexasan	Hong nien	Hostaquik
Kwiksan	Leytosan	Liquiphene
Meracen	Mercron	Mercuron
Merqal a 25	Merqamma	Mersolite
Metasol 30	Mist o matic murqanic rpb liquid	Mist-o-matic murqanic rpb liquid seed
Neantina	Norforms	Nuodex
Nylmerate	Octan	Pamisan
Panomatic	Phenmad	Phix
Pma	Pmac	Pmas
Proqramin	Purasan-sc-10	Puraturf 10
Quicksan	Ruberon	Sanitized spq
Sanmicron	Sc-110	Scutl
Seed dressing r	Seedtox	Setrete
Shimmer-ex	Spor-kil	Spruce seal
Taq hl 331	Triqosan	Troysan 30
Unisan	Veqfru	Verdasan
Volpar	Zaprawa nasienna r	Ziarnik

Enterprise Name	Based in	Trade Name
FISHER SCIENTIFIC CO.	USA	
HUELS AG	DEU	
ICN PHARMACEUTICALS INC.	USA	
MERCK KGaA	DEU	
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page **274****Product Name** **Phorate****C.A.S. number** **298-02-2****Trade and brand names**

Ac 3911	Aqrimet	Aqrisol 5 q
American cyanamid 3911	Basf phorate	Byatran plus
Campbell's phorate	Campbell's phorate 10 q	Chim 5 q
Chim granulare	Darlem q	Exp. insecticide 3911
Fbc phorate granules	Foraat	Forasip 5 q
Forate caffaro	Forate chemia	Forate chimiren
Forate farmoplant	Forate farmoplant poral	Forate sipcam forasip 5 q
Forate visplant	Forato	Geomet
Geomet 5 q	Geoscam	L 11/6
Phorat	Phorate 10q	Phorate amonn darlem q
Phorate cyanamid thimet 5 q	Phorate-campbell 10 q	Rampart
Thimenox	Thimet 10 g	Thimet 5 g
Thimet g	Thiophos	Timet
Vuagt 182		

Enterprise Name	Based in	Trade Name
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Product Name Phorate
C.A.S. number 298-02-2

Trade and brand names

Enterprise Name	Based in	Trade Name
BASF AG.	DEU	Thimet 15G Thimet 20G
COMPTON CORPORATION CONAGRA INC.	USA	Terraclor 6.5% with Thimet 6.5% Granular Clean Crop Phorate 20G Rampart 10G
HELENA CHEMICAL CO. RIVERSIDE/TERRA CORP. SIGMA-ALDRICH FINE CHEMICALS		Phorate 20G

For regulatory information, see page 276

Product Name Phosacetim
C.A.S. number 4104-14-7

Trade and brand names

Drc-714

For regulatory information, see page 278

Product Name Phosmet
C.A.S. number 732-11-6

Trade and brand names

Agridan 50	Bercema-phosmet 50 wp	Decemtin ek 20
Decemtion	Effa ya thenthra	Fosdan
Fosdan 50 pm	Fosmagrex 50	Ftalofos
Imidan 50 pm	Imidan 50 spritzpulver	Imidan-captan 12-16 wp
Imidan-p5	Safidon 20 ec	Safidon 40 wp
Safidon 50 pm	Trimidan 37.5 wp	Trimidan 8-18 le
Ziatica-fos		

Enterprise Name	Based in	Trade Name
GOWAN COMPANY	USA	Imidan 70-W

For regulatory information, see page 278

Product Name Phosphamidon *
C.A.S. number 13171-21-6

Trade and brand names

Afidamon	Apamidon	C 570
C570	Detia dimecron	Dimafir 20 e
Dimecron	Dimecron 10	Dimecron 20
Dimecron 20 liro	Dimecron 50	Dimecron 50 scw
Luxan fosfamidon e.c.	Olicron	Ortho-dimecron 50
Phosron	Swat	Tidon

For regulatory information, see page 279

Product Name Phosphine
C.A.S. number 7803-51-2

Trade and brand names

Arco wuehlmaustod	Arco wuehlmaustod	Arcocid wuehlmauspille
Arrex patrone	Arrex-patrone	Delu-wuehlmausgas

Product Name	Phosphine	
C.A.S. number	7803-51-2	
Trade and brand names		
Fumia-raeucherpatron (schnellbrenner)	Fumia-raeucherpatrone	Phostoxin kwizda
Polytanol	Prontox wuehlmausgas	Prontox-wuehlmausgas
Vergasungsbrikett rekord	Vergasungsbrikett 'rekord'	Wuehlmaus ex raeucherpatrone
Wuehlmaus raus	Wuehlmaus-raus	
Enterprise Name	Based in	Trade Name
AIR PRODUCTS AND CHEMICALS INC.	USA	
PFALTZ AND BAUER INC		
For regulatory information, see page	280	

Product Name	Picloram	
C.A.S. number	1918-02-1	
Trade and brand names		
371 tordon spritzmittel	Amdon	Atladox hi
Atpc	Borolin	Ceptral
Debroussaillant 4323	Debroussaillant 43-23 dp	Debroussaillant granule 3309
Diadon	Distan d	Granamet-t
Grazon	Herbatox	Herbatox apt
Hydon	Invert 155	Invert dp
K-pin	Piclorad	Picloram spritzmittel bayer
Primatol 220	Primatol apt	Printazol n
Printazol total	Sepicil q	Seppic desherbant industriel
Spica 100 t	Spica 300 q	Spica 66
Spicacil	Toram	Tordon
Tordon 101	Tordon 22 ciba-geigy	Tordon 22 k
Tordon 225	Tordon spritzmittel	Uniran 22 k
Unkrautvertilger 4196		
Enterprise Name	Based in	Trade Name
DOW CHEMICAL CO., THE	USA	Arbuskip
		Chrono
		Combo
		Grazon DS
		Hacha
		Quron
		Tordon 242
HODOGAYA CHEMICAL CO. LTD. (HODOGA	JPN	
ISHIHARA SANGYO CO., (ISHIHARA SANGY		
SIGMA-ALDRICH FINE CHEMICALS	USA	
For regulatory information, see page 281		

Product Name	p-Phenylenediamine		
C.A.S. number	106-50-3		
Trade and brand names			
Benzofur d	C.i. 76060	C.i. developer 13	
C.i. developer 13	C.i. oxidation base 10	Developer pf	
C.i. oxidation base 10	Developer pf	Durafur black r	
Durafur black r	Fouramine d	Fourrine 1	
Fouramine d	Fourrine 1	Fur black 41867	

Product Name p-Phenylenediamine
C.A.S. number 106-50-3

Trade and brand names

Fur black 41867	Fur brown 41866	Fur yellow
Fur brown 41866	Fur yellow	Furro d
Furro d	Futramine d	Nako h
Futramine d	Nako h	Orsin
Orsin	Para	Paraphenylen-diamine
Para	Paraphenylen-diamine	P-diaminobenzene
P-diaminobenzene	Pelaqol d	Pelaqol grey d
Pelaqol d	Pelaqol grey d	Peltol d
Peltol d	Ppd	Renal pf
Ppd	Renal pf	Santoflex
Santoflex	Tertral d	Ursol d
Tertral d	Ursol d	Vulkanox
Vulkanox	Zoba black d	
Zoba black d	Benzofur d	C.i. 76060

Enterprise Name	Based in	Trade Name
E. I. DUPONT DE NEMOURS & CO.	USA	
MALLINCKRODT, INC.		
MITSUI & Co., Ltd	JPN	
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 440

Product Name Prochloraz
C.A.S. number 67747-09-5

Trade and brand names

Abavit	Ascurit	Dibavit
Octave	Omega	Prelude 20 lf
Rival	Sporqon	Sporqon 50 wp
Sportak	Sportak 45 ec	Sportak mz 2
Tenor		

Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Prelude Sportak
MAKHTESHIM AGAN INDUSTRIES LTD.	ISR	Bumper P Mirage EC Mirage Technical grade Mirage WP Mirage Zinc Complex

For regulatory information, see page 284

Product Name Pronamide
C.A.S. number 23950-58-5

Trade and brand names

Kerb	Kerb 50 w	Rh 315
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Enterprise Name	Based in	Trade Name
ROHM & HAAS CO.	USA	Kerb 50 W Kerb 50-W A Kerb WSP

Product Name Pronamide
C.A.S. number 23950-58-5
Trade and brand names
For regulatory information, see page 285

Product Name Protham
C.A.S. number 122-42-9

Trade and brand names

Aqermin	Antigemina	Antigermina
Asepta ipc 50% special	Atlas electrum	Atlas gold
Atlas pink c	B-22	Ban-hoe
Barrier	Beet-kleen	Bikartol-neu
Birgin	Birgin antiabrolhante	Brabant ipc 50%
Campbell's sugar beet herbicide	Chemagro ipc 50%	Chem-hoe
Detia kartoffel keimfrei	Dipron	Germex
Grelite viitox	Herald	Hostafume
Ipc 50% protex	Ipc s	Isortal
Keimhemmer marktredwitz	Liro ipc 50%	Luxan ipc 50% spuitpoeder
Mss sugar beet herbicide	Pisec	Premalox
Quintex	Retenox	Schering ipc spuitpoeder 50%
Shell ipc spuitmiddel 50%	Stopgerme	Tixit
Topam	Triherbide ipc	Triherbide ipc 50% wp
Triherbide ipc spuitpoeder	Tuberfon	Tuberite
Van wesemael ipc 50		

Enterprise Name	Based in	Trade Name
ICN PHARMACEUTICALS INC.	USA	
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 286

Product Name Prothoate
C.A.S. number 2275-18-5

Trade and brand names

Afidex	Aqrofac	Akuran
Erysit super	F 20	F.20
F.p. 40	Fac	Fac super
Facar e 20	Fac-montedison	Facmor
Facron	Faran	Fp 40
Granovit 75	Malacyde	Murvite
Neutron extra	Oleofac	Olifac
Ovifac	Sariafume	Tedion extra
Tetrafac	Tritlane	

For regulatory information, see page 288

Product Name Pyrinuron
C.A.S. number 53558-25-1

Trade and brand names

Dlp 87	Dp 87	Pyriminil
Pyriminyl	Pyrinuron	Rh. 787
Vacor		

Product Name **Pyrinuron**
C.A.S. number **53558-25-1**

Trade and brand names

For regulatory information, see page 289

Product Name **Quintozene**
C.A.S. number **82-68-8**

Trade and brand names

Aacunaat	Aafuma	Aagrano-droog-77
Antipilz stop	Asept pcnb spuitpoeder 75	Asepta combisan spuitpoeder
Asepta pcnb 20%	Asepta pcnb 20%	Aspa 30
Autumn toplawn	Autumn toplawn	Avicol
Avicol-polyte	Avicol-ruiskejauhe	B0trilex
Botrilex	Brabant pcnb 20%	Brabant pcnb 20%
Brassam strooi	Brassicol	Bras-sicol
Brassicol 20	Brassicol 50% super	Brassicol 60
Brassicol conc. spuitpoeder	Brassicol pm 50	Brassicol puder
Brassicol sprutpulver	Brassicol super	Brassicol super wp
Brassm 755	Ceresan p	Chintozan
Cryptonol special e	Davline	Davline 20 d
Davlinex	Davlinex 20 d	Davlitoktono pcnb 12 d
Davlitox	Davlitox 10 d	Davlitoxan b 10 d
Drawiqran plus	Drawiqran spezial	Duphar pcnb spuitpoeder
Earthcide	Fartox	Folosan
Fomac 2	Fungiclor	Gc 3944-3-4
Hoe o 26014	Kirk brassicol 20	Kobu
Kobutol	Kp 2	Liro-pcnb-struifpoeder
Luxan pcnb	Luxan pcnb 20 z	Marisan forte
Medeclorex espolvoreo	Morut	Neo davlitox no 2 d
Olpsan	Pcnb	Pcnb dust
Pentagen	Permuzan	Phomasan
Phytochlor	Pkhn	Pol terrafun
Quinosan	Quintocene	Quintozene
Quintozene 20	Quintozy 30 m	Rtu 1010
Saniclor 30	Serachlor wp	Shell pcnb 20 strooipoeder
Techn'ozene	Terra coat I-205	Terraclor
Terraclor super-x plus qr	Terracoat I/p	Terrafun
Terrafun 75	Tilcarex	Tiletole 10 d
Trifusol	Tri-pcnb	Tri-pcnb 50% wp
Tri-pcnb dust 20%	Tristan d	Tritisan 30
Tritisan d	Tuberqran	Tulipan
Voronit spezial	Voronit-speciaal	

Enterprise Name	Based in	Trade Name
AMVAC CHEMICAL CORPORATION	USA	Blocker 4F Parflo 4F PCNB 2-E
BAYER AG.	DEU	Starfire Concentrate
COMPTON CORPORATION	USA	Gustafson Rival flowable Gustafson Terra-Coat LT-2N Seed Treatment Gustafson Vitavax PCNB fungicide RTU-PNCB seed protectant

Product Name **Quintozene**
C.A.S. number **82-68-8**

Trade and brand names

Enterprise Name	Based in	Trade Name
		Terraclor 10% Granular
		Terraclor 2EC
		Terraclor 400
		Terraclor 6.5 plus Disyston 6.5% Granular
		Terraclor 6.5% with Thimet 6.5% Granular
		Terraclor 75 WP
		Terraclor Flowable Fungicide
		Terraclor Super X 18.8G
		Terraclor Super X Emulsifiable
		Terraclor Super X Granular
		Terraclor Super X plus Di-syston EC
		Terraclor 15 G
		Turficide 10% Granular
ICN PHARMACEUTICALS INC.		
LESCO INC.		Revere 75 DG
OLIN CORP.		
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		
SUMITOMO KAGKU KOGYO (SUMITOMO CH	JPN	
TAKEDA CHEMICAL INDUSTRIES LTD., (TAK		
THE SCOTTS COPANY	USA	Penstar 10G PNCB
		Penstar 75WP PNCB
		Penstar Flo
		Penstar Flo Flowable Turf Fungicide
UNITED HORTICULTURAL SUPPLY		Engage 10G
		Engage 4F
		Four Power Plus
W.A. CLEARY CHEMICAL CORPORATION		Defend 10G
		Defend 4F
		PNCB 10 G

For regulatory information, see page **290**

Product Name **Rovral TS**
C.A.S. number **58784-20-6**

Trade and brand names

Chipco	Rovral
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For regulatory information, see page **292**

Product Name **Safrole**
C.A.S. number **94-59-7**

Trade and brand names

Rhyuno oil	Safrene	Safrol
Shikimole		

Enterprise Name	Based in	Trade Name
FISHER SCIENTIFIC CO.	USA	
ICN PHARMACEUTICALS INC.		

Product Name **Safrole**
C.A.S. number **94-59-7**

Trade and brand names

Enterprise Name	Based in	Trade Name
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MERCK KGaA	DEU	
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page **293**

Product Name **Schradan**
C.A.S. number **152-16-9**

Trade and brand names

Lethalaire q-59	Octamethyl	Ompa
Ompacide	Ompatox	Ompax
Pestox iii	Scharadan	Schradan
System	Systophos	Sytam

Enterprise Name	Based in	Trade Name
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PFALTZ AND BAUER INC	USA	
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For regulatory information, see page **294**

Product Name **Scilliroside**
C.A.S. number **507-60-8**

Trade and brand names

Bloc rats souris mortis	Eradic blocs	Fisons silmine f
Fisons silmine k	Maxi-sovitox	Silmine blocs
Silmine q	Silmine pc	Silmine s
Silmurin	Silmurin 1% concentrado	Silmurin cebo
Sil'operats	Sil'souryl	Sovitox bloc

For regulatory information, see page **295**

Product Name **Silvex**
C.A.S. number **93-72-1**

Trade and brand names

2,4,5-tp	Amchem 2 4 5-tp	Aqua-vex
Begomid citrus	Color set	Compo rasenunkraut vernichter
Ded-weed	Double strength	Elam special
Fenormone	Fruition t	Garlon
Hormone tp	Kuran	Kuron ec
Kurosai	Miller nu set	Phenopal ec
Propafene 600	Propon	Silvi-rhap
Sta-fast	Stam extra	Stam lv-sp
Stayput	Trioxone 50 ec	Tumaroben

Enterprise Name	Based in	Trade Name
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A.H. MARKS & CO. LTD	GBR	
FISHER SCIENTIFIC CO.	USA	
ICN PHARMACEUTICALS INC.		
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page **295**

Product Name Sodium cacodylate**C.A.S. number** 124-65-2**Trade and brand names**

Alkarsodyl	Arsecodile	Arsicodile
Arsycodile	Bolate	Bolls-eye
Bophy	Broadside	Check-mate
Chemaïd	Ezy pick'in	Phytox 560
Rad-e-cate25		

Enterprise Name	Based in	Trade Name
FISHER SCIENTIFIC CO.	USA	
ICN PHARMACEUTICALS INC.		
MALLINCKRODT, INC.		
MERCK KGaA	DEU	
MONTEREY CHEMICAL COMPANY	USA	Cotton-aide HC Montar
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 297**Product Name** Sodium cyanide**C.A.S. number** 143-33-9**Trade and brand names**

Cyanoqran	Cymaq
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Enterprise Name	Based in	Trade Name
ASHLAND INC.	USA	
E. I. DUPONT DE NEMOURS & CO.		
E.ON AG	DEU	Cy Plus Sodium cyanide
FISHER SCIENTIFIC CO.	USA	
FMC CORPORATION		
MALLINCKRODT, INC.		
MERCK KGaA	DEU	
MITSUI & Co., Ltd	JPN	
NIPPON SODA CO. LTD. (NIPPON SODA K.		
PFALTZ AND BAUER INC	USA	
SHOWA DENKO K.K.	JPN	
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 298**Product Name** Sodium fluoride**C.A.S. number** 7681-49-4**Trade and brand names**

Aqronex-hepta	Alcoa sodium fluoride	Antibulit
Aqronex-hepta	Alcoa sodium fluoride	Antibulit
Cavi-trol	Credo	F1-tabs
Cavi-trol	Credo	F1-tabs
Fda 0101	Floridine	Florocid
Fda 0101	Floridine	Florocid
Flozenges	Fluoraday	Fluoral
Flozenges	Fluoraday	Fluoral
Fluorident	Fluorigard	Fluorineed

Product Name Sodium fluoride
C.A.S. number 7681-49-4

Trade and brand names

Fluorident	Fluorigard	Fluorineed
Fluorinse	Fluoritab	Fluorocid
Fluorinse	Fluoritab	Fluorocid
Fluor-o-kote	Fluorol	Flura drops
Fluor-o-kote	Fluorol	Flura drops
Flurcare	Flursol	Fungol b
Flurcare	Flursol	Fungol b
Gleem	Iradicav	Karidium
Gleem	Iradicav	Karidium
Lemoflur	Luride	Nafpak
Lemoflur	Luride	Nafpak
Ossalin	Ossin	Perqantene
Ossalin	Ossin	Perqantene
Phos-flur	Roach salt	T-fluoride
Phos-flur	Roach salt	T-fluoride
Thera-flur	Villiaumite	Zymafluor
Thera-flur	Villiaumite	Zymafluor

Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	
CERAC INC.	USA	
FISHER SCIENTIFIC CO.		
ICN PHARMACEUTICALS INC.		
MALLINCKRODT, INC.		
MERCK KGaA	DEU	
OLIN CORP.	USA	
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		
SPEX CERTIPREP, INC.		

For regulatory information, see page 299

Product Name Sodium fluoroacetate
C.A.S. number 62-74-8

Trade and brand names

1080 rodenticide	Compound no. 1080	Fratol
Furatol	Ratbane 1080	Rentokil sodium monofluoroacetate 10
Smfa	TI 869	Yasoknock

Enterprise Name	Based in	Trade Name
ICN PHARMACEUTICALS INC.	USA	
MERCK KGaA	DEU	
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 299

Product Name Sodium metaarsenite
C.A.S. number 7784-46-5

Trade and brand names

Chem pels c	Chem-sen 56	Kill-all
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Product Name Sodium metaarsenite

C.A.S. number 7784-46-5

Trade and brand names

Penite Prodalummol double Sodium methanearsenite

Enterprise Name	Based in	Trade Name
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PFALTZ AND BAUER INC	USA	
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For regulatory information, see page 300

Product Name Sodium methanearsonate

C.A.S. number 2163-80-6

Trade and brand names

Ansar	Ansar 170 hc	Ansar 8100
Ansar dsma liquid	Arrhenal	Arsinyl
Arsonate liquid	Bueno 6	Check-mate
Chipco crab kleen	Crab-e-rad	Daconate 6
Dal-e-rad	Dal-e-rad6	Dinate
Di-tac	Diumate	Dma
Dna 100	Dsma 65%	Dsma liquid
Dsma-lq	Gepiron	Helena msma
Herb-all	Merge 823	Mesamate vertac
Methar 30	Msma	Namate
Phyban	Silvisar 550	Sodar
Super arsonate	Suprasonate	Target 4 msma
Target msma	Transvert	Veliourini
Weed 108	Weed-e-rad	Weed-e-rad 360
Weed-hoe	Weed-loe	

Enterprise Name	Based in	Trade Name
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CONAGRA INC.	USA	MSMA 6 Plus
		MSMA 6.6
HELENA CHEMICAL CO.		MSMA Arsonate Liquid
		MSMA Plus
		MSMA Plus H.C.
ISHIHARA SANGYO CO., (ISHIHARA SANGY	JPN	Ansar 6.6
		Bueno 6
		Daconate 6
		Daconate Super
LESCO INC.	USA	MSMA 6.6
		MSMA Soluble Granules
MONTEREY CHEMICAL COMPANY		Weed-Hoe
PBI/GORDON CORPORATION		Quadmec Trimec Plus
RIVERSIDE/TERRA CORP.		120 Herbicide
		912 Herbicide
		Fluometuron + MSMA
		Prometryne + MSMA
UNITED HORTICULTURAL SUPPLY		Mec Amine-D
		MSMA Turf Herbicide

For regulatory information, see page 301

Product Name Sodium silicofluoride
C.A.S. number 16893-85-9

Trade and brand names

Arqan 500	Prodan	Rosquiver
Safsan	Super prodan 100	Super prodan 500 qr

Enterprise Name	Based in	Trade Name
ICN PHARMACEUTICALS INC.	USA	
ISHIHARA SANGYO CO., (ISHIHARA SANGY	JPN	
MERCK KGaA	DEU	
MITSUI & Co., Ltd	JPN	
OLIN CORP.	USA	
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		
SUMITOMO KAGKU KOGYO (SUMITOMO CH	JPN	

For regulatory information, see page 302

Product Name Strobane
C.A.S. number 8001-50-1

Trade and brand names

Compound 3961	Dichloricide aerosol	Dichloricide mothproofers
Dichloricide mothproofers	Terpene polychlorinate	
Terpene polychlorinate	Compound 3961	Dichloricide aerosol

For regulatory information, see page 302

Product Name Sulfotep
C.A.S. number 3689-24-5

Trade and brand names

Bladafum	Bladafum i	Bladafum ii
Bladafum rygetablet	Bladafum-it	Bladan
Bladan rygetablet	Dithio	Dithiotep
Lethalaire q-57	Pirofos	Plant dithio aerosol
Plantfume 03	Smoke generator	Sulfatep
Sulfotepp	Tedp	Tedtp
Thiotep		

Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Bladafum II
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 305

Product Name Sulprofos
C.A.S. number 35400-43-2

Trade and brand names

Bolstal	Bolstar	Helothion
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Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Bolstar 6
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 306

Product Name TCA, sodium
C.A.S. number 650-51-1

Trade and brand names

Agrichim tca	Antigram 95 gr	Antyperz plynny 38
Au-tca granulaat	Botix	Brabant tca granulaat
Calliact	Chimac tca granulaat	Dosan
Duphar natriumtrichloortriacetaat mini-q	Farmon t.c.a	Fp-tca
Herbitox t 95-q	Juolavehnantuho	Konesta
Liro-tca mini-granulair	Luxan tca minigranulair	Malertox t.c.na
Mss tca	Nata	Nata qr
Nata granules	Nata mq	Nata super granulaat
Natrilon	Prodanex	Sanata
Shell tca minigranulaat	Tca	Tca bayer
Tca eurofyto	Tca granulado	Tca-minigranulaat-aqriben
Totale rs	Tradiax qr	Trichlosept tca
Veretox	Weedonac granule	

Enterprise Name	Based in	Trade Name
FISHER SCIENTIFIC CO.	USA	
ICN PHARMACEUTICALS INC.		
MERCK KGaA	DEU	
PFALTZ AND BAUER INC	USA	
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 307

Product Name Tebuthiuron
C.A.S. number 34014-18-1

Trade and brand names

Bushwacker granules	Bushwacker spray	EI 103
Graslan	Perflan	Perflan t
Scrubmaster	Spica 103 vps	Spike

Enterprise Name	Based in	Trade Name
DOW CHEMICAL CO., THE	USA	Combine 500 SC Graslan Spike 20P Spike 40P Spike 80 DF Spike 80W
E. I. DUPONT DE NEMOURS & CO.		Greslan Spike

SIGMA-ALDRICH FINE CHEMICALS

For regulatory information, see page 308

Product Name Tetradifon
C.A.S. number 116-29-0

Trade and brand names

Acarbin	Acarcid	Acarelte forte le
Acaricida dite	Acaricida duplo zeltia	Acaricida hoechst
Acaricida jovitam	Acaricida oro doble	Acaricida oro simple
Acaricida polivalente basf	Acaricida rumianca	Acaricida sandoz
Acaricida total permutadora	Acarit	Acarkil

Product Name	Tetradifon	
C.A.S. number	116-29-0	
Trade and brand names		
Acaroil e-3	Acaroil td	Acarox forte
Acarpolv 1-3	Acarsilvam 34 s	Acarsivam kt
Acarstin combi	Acartal-t	Acartop
Acartot	Acartotal	Acartox forte
Acaryl pl	Acatox kt	Acrex super ec
Acriben	Acricida sandoz	Aqrex kt-22
Aqrex kt-4	Aqrex t-8	Agrofac
Akaritox	Akuran	Antikvalster
Antkvalster	Aracnol e 71	Aracnol k
Aralo	Aramit	Aranol
Aredion	Aredion v-8	Bellaros
Childion	Childion e	Clordyn
Cm rosenspray saprol plus	Compo rosenspray	Dibutaqrex
Dicofol doble 16-6	Dicotion 't'	Difon ec
Dkaritox	Dorver	Dorvert
Draca	Duphar	Duphar tedion v 18 mo
Duphar tedion v 18 special poudre mouil	Ekatox acaricida	Eno acar 22
Ertane compuesto	Faran	Fenilan
Fenilan caffaro	Ficotradifol le	Fmc 5488
Folimat t	Folimat tk	Funqinex plus
Hs 186	K t 22	Kadizol 6-16
Kadizol triple	Kariver doble tk le	Kedion sti
Kelcide te	Keltd	Kelthanoide
Kelthion	Kwp 61	Lairana total con tetradifon
Mataranha total	Maxiron	Mitacid t
Mitaxan lq	Mitekil 22	Mitekil r
Mitifon 8 ec	Mition c galactoma	Murfite
Nia 5488	Nzen	Ovacide
Ovicar t	Ovifac	Ovir
Pekeldrin ce	Pentasol n.f.	Pentasol nf
Pflanzen-paral fuer topfpflanzen	Plidion	Polacaritox
Pol-acaritox	Probel doble	Probelte 3-1
Remanex	Rozenspray funqinex	Roztozol extra plynny 8
Roztozol	Sepiclar t	Sigmaton
Spintox	Suisect jardim	Tarsoden ec
Tarsoden em	Tarsoden em.	Tarsoden forte pb
Tarsoden pb	Tedane	Tedion
Tedion extra	Tedion kelthane ec	Tedion v 18 emulsion
Tedion v 18 spritzpulver	Tedion v-18	Tedion v-18 ec
Tedion v-18 emulsion	Tedion v-18 m.o.	Tedion v-18 mengbare olie q.c.
Tedion v-18 mengvare olie q.c.	Tedion v-18 roekgenerator	Tedion v-18 wp
Tedion v-8	Tekel	Tekeldion le
Tekeldion ovicida	Tenysan spritzpulver	Tespin ec
Tetradichlon	Tetradifon bayer	Tetrafac
Tetragil	Tetranol 8 ec	Thiocide mecaricide
Total grima	Turbair acaricide	V-18
Verecar t	Zimmer pflanzenspray n	Zimmerpflanzenspray spiess
Zz- acaricida doble emuls	Zz-acaricida doble emuls	

Product Name Tetradifon
C.A.S. number 116-29-0

Trade and brand names

Enterprise Name	Based in	Trade Name
BASF AG.	DEU	Terraclor Super X Emulsifiable

For regulatory information, see page 309

Product Name Tetraethylpyrophosphate (TEPP)
C.A.S. number 107-49-3

Trade and brand names

Acasivam 34 bis	Aqrotepp	Bladex
Fosvex	Grisol	Hept
Hexamite	Killax	Kilmite 40
Lethalaire q-52	Lirohex	Mortopal
Neotox	Nifos	Pyrodust
Tep	Tepp	Terrasytam
Tetrastiqmine	Tetron	Vapotone

For regulatory information, see page 309

Product Name Tetrasul
C.A.S. number 2227-13-6

Trade and brand names

Aqlukon plantenspray tegen insecten en	Aqlukon tegen insecten en spint	Aqlukon tegen luis en spint
Alphos-nebeldose	Animert	Animert v 101
Animert v 101 spritzpulver	Animert v-101	Animert v-101 spritzpulver
Animert v-101 sproeipulver	Animert v-101 wp	Animert v-10k
Pentac	Pentac 50-plan	Pentac aquaflow
Phillips-duphar v-101	Tetrasul	V 101

For regulatory information, see page 311

Product Name Thallium and thallium compounds
C.A.S. number 7440-28-0

Trade and brand names

Du-ter extra spritzpulver	Ramor	Rentokil's drikkegiftpraeparat
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Enterprise Name	Based in	Trade Name
CERAC INC.	USA	
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 311

Product Name Thallium sulphate
C.A.S. number 10031-59-1

Trade and brand names

Arvitox	Infernal	Mortalin giftvand
Mortalin giftvand	Nemal grains new	Rattengifttropfen
Nemal grains new	Rattengifttropfen	Rentokil's drikkegiftpraeparat
Rentokil's drikkegiftpraeparat	Skadedyrcentralen thalliumsulfat	Skadedyrcentralens thalliumsulfat
Skadedyrcentralen thalliumsulfat	Skadedyrcentralens thalliumsulfat	Talpatox iv
Talpatox iv	Tharattin	Zekio-koerner
Tharattin	Zekio-koerner	Zelio-giftkoerner

Product Name **Thallium sulphate**
C.A.S. number **10031-59-1**

Trade and brand names

Zelio-giftkoerner	Zelio-giftpaste	
Zelio-giftpaste	Arvitox	Infernal

For regulatory information, see page **312**

Product Name **Thiometon**
C.A.S. number **640-15-3**

Trade and brand names

Ekatin	M 81	Morphothion
San 230	Thiameton	Thiometon

For regulatory information, see page **314**

Product Name **Thiram**
C.A.S. number **137-26-8**

Trade and brand names

Aalindan-inkrusta-s	Aapirol	Aapirol-80
Aapirol-staub	Aapirol-stuif	Aapirsan
Aatack	Aatack-hoko	Aatifon
Aatiram	Aatiram-combi-neu	Aatopam n
Adiamix p 20	Aqirichem flowable thiram	Aqritox plus
Aqritox-bejdse plus	Agronex ht 30	Agronex spezial
Anticloque sovilo	Anti-qnav	Asepta thiram
Aules	Basultra	Belpron t 80
Blekritt	Brabant tmtd 80	Bris pm
Caltir pm	Capidol-t	Carboxin 20% + thiram 40% d
Cariestop	Ceku-tmtd	Chipco thiram 75
Coltal konz	Cormaison stx-fl	Cunitex
Curthiram	Dana qamax e 20 d	Davlan super 20 d
Diassat	Diclotir	Ditiver t pm
Dlg thiram 80	Dom saatschutemittel	Duphar thiram-80 spuitpoeder
Effa ya thenthra	Emol	Enothiram 50
Fernasan	Fernide	Fernide 850
Frutassa	Fungi th	Fungitex 80 poudre mouillable
Gamasat	Gammalex liquid	Gammatin
Germinat td ac f1	Golden scab 'verde'	Hermosan 80
Hexathir	Hexyl	Hortex stark rp
Hydrtaquard	Hy-tl	Hy-tl turbo
Hy-vic	Kartiram	Kb cloque du pecher
Kivax	Kvk svovl-thiram	Kvk thiram f bejdse
Lentacol	Lentacol universal	Lindram 50/35 wp
Liro tmtd slurry	Liro tmtd spuitpoeder	Lop-tox
Luxan tmtd 80% poudre mouillable	Luxan tmtd 80% spuitpoeder	Mercuram
Mesuroi-combi	Metaran	Methouram 80 wp
Micropearls	Midol svovl-thiram	Mota-vilt
Mt-14 poudrage	New hysede fl	Nifam 50
Octamyl spuitpoeder	Oftanol t	Oftanol-zaadbehandeling
Pellacol	Pol-thiuram	Polygram-ultra
Pomarsol	Pomarsol 50	Pomarsol forte
Pomarsol kartoffelbeize	Pomarsol ultradispersible	Pomarsol-forte

Product Name	Thiram	
C.A.S. number	137-26-8	
Trade and brand names		
Procithio 80 pm	Prodathio	Radotiram 80 wp
Ramaq	Rhodiasan express	Ronilan t combi
Sadoplön 75	Sanac tmtd poudre a poudre	Sanugec
Seqrene 408	Seqrene 408 blu	Sialex t
Silbos df	T.m.t.d 50 borchers	Tafinex
Tebuzate pm liquide	Tech	Tedisol
Tetrapom	Tetrapom carbina tz	Tetrasol 50
Tetrasol 50 liquide	Thianosan	Thianosan 80 wp
Thianosan expres	Thianosan express	Thianosan m
Thianosan wq	Thianosan-80	Thiasol 80
Thiazan m	Thiazan m li	Thiazan wp
Thioknock	Thiosan 50 flo	Thiotex
Thiotox	Thiradia	Thiram 80% qd
Thiram forte 80 wp	Thiram fw	Thiramad
Thiramvis wp	Thirasan	Thirasan wp
Thiratox 80 wp	Thirbane	Thirsol
Thiuramin	Thylate	Thylate wp
Tideran	Tiosur 80	Tiotox
Tiotox '50'	Tiradin 75	Tiraqrex 80
Tira-hexalin	Tirama 50	Tirame permutadora
Tirampa	Tirep	Tirex
Tiuram 80 foret	Tiuram key	Tiurante
Tmtd	Tmtd 50	Tmtd 50 bianco
Tmtd 80	Tmtd 80 pm caq	Tmtd 80% pm
Tmtd burri	Tmtd csavazo	Tmtd ficoop
Tmtd oro	Tmtd stuifpoede	Tmtd zupa s-80
Tmz 88	Tophiram	Toram
Tripomol	Tripomol 80	Tripomol 80 spuitpoeder
Tripomol 80 wp	Turbair ba	Tutan tmtd
Tz-16 poudrage	Umaqam	Unicrop thiram
Urame 80	Vancide tm	Velan d
Venturin fluessiq	Vitavax + tmtd + lindan	Vitavax 200 flo
Vitavax 202	Vitavax 30 t	Vitavax-t-neste
Vitavex 30 t	Vitavex flow	Vitavex rs
Vitavex-200	Vithiram	Weibulls anti-qnaq
Wolfen thiuram 85	Zaprawa oxafun t	
Enterprise Name	Based in	Trade Name
BASF AG.	DEU	Ronilan T Combi
		Silbos DF
BAYER AG.		Pormasol 50 WG
COMPTON CORPORATION	USA	42-S Thiram fungicide
		Gustafson PRO-GRO dust seed protectant
		Gustafson RTU Baytan-Thiram
		Gustafson RTU flowable
		Raxil-Thiram Flowable
		RTU Vitavax-Thiram
		Thiram 50 WP fungicide (with dye)

Product Name Thiram
C.A.S. number 137-26-8

Trade and brand names

Enterprise Name	Based in	Trade Name
HELENA CHEMICAL CO.		Thiram 50 WP fungicide (without dye)
		Thiram 75WP
		VitaFlo 280
		VitaFlo Dual Purpose
		VITAFLO-280 fungicide
		Vitavax rs Dynaseal
		Vitavax rs Flowable
		Vitavax-Thiram-Lindane flowable
		Vivitax-200 flowable fungicide
		Vitavax CT Flowable
		Vitavax M Flowable
HODOGAYA CHEMICAL CO. LTD. (HODOGA JPN NIPPON SODA CO. LTD. (NIPPON SODA K.		
PFALTZ AND BAUER INC	USA	
RIVERSIDE/TERRA CORP.		Bean Treater LW
SIGMA-ALDRICH FINE CHEMICALS		
SYNGENTA	CHE	Premiere
		Premiere Plus
		Wakil Multi WG
THE SCOTTS COPANY	USA	Fluid Fungicide III, Pro Turf
UCB SA.	BEL	
W.A. CLEARY CHEMICAL CORPORATION	USA	Spotrete 75 WDG
		Spotrete F

For regulatory information, see page 317

Product Name Titanium
C.A.S. number 7440-32-6

Trade and brand names

Hostathion ec-40

For regulatory information, see page 511

Product Name Triazophos
C.A.S. number 24017-47-8

Trade and brand names

Hostathion	Hostathion 25 ulv	Hostathion 40 ec
Hostathion 5	Hostathion 5q	Hostathion ec
Hostathion granulare		

Enterprise Name	Based in	Trade Name
AVENTIS CORPORATION	FRA	Hostathion
		Trelka

For regulatory information, see page 320

Product Name Tridemorph
C.A.S. number 24602-86-6

Trade and brand names

Bardew	Calixin	Calixin m
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Product Name Tridemorph
C.A.S. number 24602-86-6

Trade and brand names

Dorin	Dorine	Ringer
Schering-calixin	Tridezol	

Enterprise Name	Based in	Trade Name
BASF AG.	DEU	Corbel Ultra Cosmic Cosmic FL Evrest Gemini Opus Forte Rockett Ultra Tango

For regulatory information, see page 323

Product Name Vamidothion
C.A.S. number 2275-23-2

Trade and brand names

Asytin z	Kilval	Sepaphid
Trucidor	Vamidoate	

Enterprise Name	Based in	Trade Name
TH INTERNATIONAL HOLDING B.V.	NLD	

For regulatory information, see page 324

Product Name Zinc phosphide
C.A.S. number 1314-84-7

Trade and brand names

Aazira	Aetos powder	Arrex e
Aazira	Aetos powder	Arrex e
Arrex m koeder klein	Arrex-e-koeder	Arrex-m-koeder-klein
Arrex m koeder klein	Arrex-e-koeder	Arrex-m-koeder-klein
Avenarius-giftweizen	Baur's giftweizen	Ble empoisonne
Avenarius-giftweizen	Baur's giftweizen	Ble empoisonne
Blue-ox	Cito maeuseweizen	Cito wuehlmauskieder
Blue-ox	Cito maeuseweizen	Cito wuehlmauskieder
Crittam	Delicia giftgetreide	Delicia-giftgetreide
Crittam	Delicia giftgetreide	Delicia-giftgetreide
Delicia-rattekal-paste	Delicia-wuehlmauspraeparat	Delu wuehlmauskoeder
Delicia-rattekal-paste	Delicia-wuehlmauspraeparat	Delu wuehlmauskoeder
Delusal	Delu-wuehlmaustod	Demetra
Delusal	Delu-wuehlmaustod	Demetra
Detia giftkoerner	Detia giftox	Detia maeusegiftkoerner
Detia giftkoerner	Detia giftox	Detia maeusegiftkoerner
Detia-giftkoerner	Detia-giftox	Detia-maeusegiftkoerner
Detia-giftkoerner	Detia-giftox	Detia-maeusegiftkoerner
Detia-rattekal giftpaste	Detia-wuehlmauskieder	Donatuskoerner
Detia-rattekal giftpaste	Detia-wuehlmauskieder	Donatuskoerner
Finimouse	Fosfura de zinc	Fosfuro di zinco
Finimouse	Fosfura de zinc	Fosfuro di zinco

Product Name	Zinc phosphide	
C.A.S. number	1314-84-7	
Trade and brand names		
Giftweizen neudorf	Giftweizen neudorff	Giftweizen p 140
Giftweizen neudorf	Giftweizen neudorff	Giftweizen p 140
Giftweizen wuelfel	Gopha-rid	Hermat zdm
Giftweizen wuelfel	Gopha-rid	Hermat zdm
Keraunos bait	Kilrat	Lepit gifkorrels
Keraunos bait	Kilrat	Lepit gifkorrels
Lotetu arvalin	Maeseqiftweizen 'schacht'	Maeuseqiftweizen 'schacht'
Lotetu arvalin	Maeseqiftweizen 'schacht'	Maeuseqiftweizen 'schacht'
Maibblue wuehlmausbrocken	Maibblue wuehlmausbroken	Mausan giftweizen
Maibblue wuehlmausbrocken	Maibblue wuehlmausbroken	Mausan giftweizen
Mausan-giftweizen	Mausex giftkoerner	Mausex-giftkoerner
Mausan-giftweizen	Mausex giftkoerner	Mausex-giftkoerner
Methyl zineb	Mous-con	Muscid giftweizen
Methyl zineb	Mous-con	Muscid giftweizen
Muscid-giftweizen	Mycronil	Phosvin
Muscid-giftweizen	Mycronil	Phosvin
Ratol	Rentokil zinc phosphide concentrate	Ridall-zinc
Ratol	Rentokil zinc phosphide concentrate	Ridall-zinc
Rinal-giftkoerner	Rodent bait aq	Rodent bait zp
Rinal-giftkoerner	Rodent bait aq	Rodent bait zp
Rodisan	Rumetan-wuehlmaus-koeder	Rumetan-wuehlmauskoeder
Rodisan	Rumetan-wuehlmaus-koeder	Rumetan-wuehlmauskoeder
S.o.s.	Schrozberger (wkz) quftweuzeb	Schrozberger (wlz) giftweizen
S.o.s.	Schrozberger (wkz) quftweuzeb	Schrozberger (wlz) giftweizen
Segetan giftweizen	Stutox	Swiece arrex
Segetan giftweizen	Stutox	Swiece arrex
Talpan giftkoerner	Talpan giftpulver	Talpan wuehlmausbrocken
Talpan giftkoerner	Talpan giftpulver	Talpan wuehlmausbrocken
Trizinc diphspide	Wuehlmaus koeder arrex	Wuehlmaus-koeder
Trizinc diphspide	Wuehlmaus koeder arrex	Wuehlmaus-koeder
Wuehlmauskoeder arrex	Wuehlmauskoeder arvikol	Wuehlmauskoeder wuelfel
Wuehlmauskoeder arrex	Wuehlmauskoeder arvikol	Wuehlmauskoeder wuelfel
Wuehlmauskoeder arrex	Wuehlmaustod arvicol	Wuehlmaustod arvikol
Wuehlmauskoeder arrex	Wuehlmaustod arvicol	Wuehlmaustod arvikol
Zimate	Zinc phosphide (p)	Zinc phosphide concentrate
Zimate	Zinc phosphide (p)	Zinc phosphide concentrate
Zinc phosphide mouse bait	Zincofos	Zinc-tox
Zinc phosphide mouse bait	Zincofos	Zinc-tox
Zinkcarbamate	Zirthane	Zp
Zinkcarbamate	Zirthane	Zp

Enterprise Name	Based in	Trade Name
CERAC INC.	USA	
ICN PHARMACEUTICALS INC.		
LOVELAND INDUSTRIES INC.		Prozap Zinc Phosphide Oat Bait Zinc Phosphide Pellets
PFALTZ AND BAUER INC		

For regulatory information, see page 520

Product Name	Ziram	
C.A.S. number	137-30-4	
Trade and brand names		
Aaprotect	Aavolex	Acuprico 90
Antene 90	Aprodas	Attivar 90
Carbazinc	Carbazinc express 760	Ceku-ziram 90 pm
Cillus ziram 80	Ciram s-75	Ciram s-75 zupa
Corozate	Crittam 80 wp	Crittam 90
Crosziram 80	Cuman	Drupina
Drupina 90	Emelzir	Eps-ziram 90
Ferniram r	Fruttene 90	Fruttene I 50
Fuclasin schering	Fuclasin-ultra	Fulcasin ultra
Fulit	Fungisan	Fungizir
Fungostop	Hermoo wilafweermiddel	Hexazir
Keyram	Korit fluesiqq	Kouman el
Lairam 90 tropical	Leprasin 90	Luxan repulsif contre gibier
Luxan wildafweermiddel	Mezene	Mezene r-90
Micosin 90	Micronyl	Micronyl 90
Micronyl wp	Nioxyl	Orozam 90
Pomarsol z 76 ultradispersible	Pomarsol z forte	Prodaram
Prolin	Radociram	Sanam z 90 supra
Semakor	Sepilate	Stitzir 90 pb
Thiocur	Thionam m	Thionic acid
Thionic wq	Tmz 88	Tricarbamix z
Triscabol	Triscabol spuitpoeder	Vacide-mz96
Vancide mz-96	Ventine 90	Verazin
Wiltex ziram	Zerlate	Zerlate wp
Ziaran 90 qd ultradispersible	Ziaran 90 ultradipersible	Zinagran
Zincolor pm	Ziraca pm	Ziraqrex
Ziraluq 90	Ziram 90% pm	Ziram ficoop
Ziram ooriental	Ziram zorka	Ziram/zirame
Zirame-sapac	Ziramex 90	Ziramin 86 wp
Ziramit 90	Ziramit pasta	Ziram-montedison b.s.
Ziramon	Ziramuqec	Ziramvis
Ziramvis 90 wp	Zirane	Ziranol 90 wp
Zirasan	Zirasan 90	Zirater 90
Zirberk	Zircam 90	Zirex
Zirex 90	Zirolam 90 wp	Zitox
Enterprise Name	Based in	Trade Name
BAYER AG.	DEU	Baycor Z.F. Pomasol Z WG Pomasol ZF
CONAGRA INC.	USA	Ziram 76 WDG
DREXEL CHEMICAL CO.		
ICN PHARMACEUTICALS INC.		
PFALTZ AND BAUER INC		Ziram 99% - Carc
PHARMACIA		
SIGMA-ALDRICH FINE CHEMICALS		
TOTALFINAELF	FRA	Ekaland ZDMC C Mixland ZDMC 75 GE F140

Product Name	Ziram
C.A.S. number	137-30-4

Trade and brand names

Enterprise Name	Based in	Trade Name
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UCB SA.	BEL	
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Product Name Bis-Chloroethyl ether
C.A.S. number 111-44-4

Trade and brand names

Chlorex

For regulatory information, see page 373

Product Name Hydrazine
C.A.S. number 302-01-2

Trade and brand names

Bayer hydrazine

Hyzeen

Levoxine

Enterprise Name	Based in	Trade Name
OLIN CORP.	USA	
PFALTZ AND BAUER INC		
SIGMA-ALDRICH FINE CHEMICALS		

For regulatory information, see page 398

Product Name Methanol
C.A.S. number 67-56-1

Trade and brand names

Wood alcohol

Wood alcohol

Enterprise Name	Based in	Trade Name
AIR PRODUCTS AND CHEMICALS INC.	USA	
CELANESE AG	DEU	
E. I. DUPONT DE NEMOURS & CO.	USA	
MALLINCKRODT, INC.		
SIGMA-ALDRICH FINE CHEMICALS		
TENNECO AUTOMOTIVE, INC.		

For regulatory information, see page 403

Product Name p-Aminoazobenzene
C.A.S. number 60-09-3

Trade and brand names

P-aminobenzene

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 440

Product Name Urethane
C.A.S. number 51-79-6

Trade and brand names

Estane 5703

Kelipaver

Leucethane

Nsc 746

Plan 2500

Pracarbamina

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS	USA	
WITCO BV.	NLD	

For regulatory information, see page 431

Product Name Capsaicin
C.A.S. number 404-86-4

Trade and brand names

Capsaisin

Enterprise Name	Based in	Trade Name
MERCK KGaA	DEU	
SIGMA-ALDRICH FINE CHEMICALS	USA	

For regulatory information, see page 472

Product Name p-Aminodiphenylamine
C.A.S. number 101-54-2

Trade and brand names

C.i. 37240	C.i. 76085	C.i. azoic diazo component 22
C.i. developer 15	C.i. oxidation base 2	Diphenyl black
Fast blue r salt	Luxan black r	Naphthoelan navy blue
Oxy acid black base	Peltol br	Petrol br ii

Enterprise Name	Based in	Trade Name
SIGMA-ALDRICH FINE CHEMICALS	USA	

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Yerbavin	532	Yleisaerosoli	625
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Zanovit td	541	Zanovit-td	541
Zaprawa nasienna gts	607	Zaprawa nasienna r	640
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Zinc phosphide mouse bait	659	Zincofos	659
Zincolor pm	660	Zinc-tox	659
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Ziragrex	660	Ziraluq 90	660
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Ziramex 90	660	Ziramin 86 wp	660
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Zolzine	541	Zp	659
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Annex I

Relevant resolutions of the General Assembly And the Economic and Social Council

General Assembly resolution 37/137

Protection against products harmful to health and the environment

The General Assembly,

Aware of the damage to health and the environment that the continued production and export of products that have been banned and/or permanently withdrawn on grounds of human health and safety from domestic markets is causing in the importing countries,

Aware that some products, although they present a certain usefulness in specific cases and/or under certain conditions, have been severely restricted in their consumption and/or sale owing to their toxic effects on health and the environment,

Aware of the harm to health being caused in importing countries by the export of pharmaceutical products ultimately intended also for consumption and/or sale in the home market of the exporting country, but which have not yet been approved there,

Considering that many developing countries lack the necessary information and expertise to keep up with developments in this field,

Considering the need for countries that have been exporting the above-mentioned products to make available the necessary information and assistance to enable the importing countries to protect themselves adequately,

Cognizant of the fact that almost all of these products are at present manufactured and exported from a limited number of countries,

Taking into account that the primary responsibility for consumer protection rests with each State,

Recalling its resolution 36/166 of 16 December 1981 and the report on transnational corporations in the pharmaceutical industry of developing countries,^a and acting in pursuance of Economic and Social Council resolution 1981/62 of 23 July 1981,

Bearing in mind in this context the work of the Food and Agriculture Organization of the United Nations, the World Health Organization, the International Labour Organisation, the United Nations Environment Programme, the General Agreement on Tariffs and Trade, the United Nations Centre on Transnational Corporations and other relevant intergovernmental organizations,

^a E/C.10/85.

1. Agrees that products that have been banned from domestic consumption and/or sale because they have been judged to endanger health and the environment should be sold abroad by companies, corporations or individuals only when a request for such products is received from an importing country or when the consumption of such products is officially permitted in the importing country;

2. Agrees that all countries that have severely restricted or have not approved the domestic consumption and/or sale of specific products, in particular pharmaceuticals and pesticides, should make available full information on these products with a view to safeguarding the health and environment of the importing country, including clear labelling in a language acceptable to the importing country;

3. Requests the Secretary-General to continue to ensure the provision of the necessary information and assistance by the United Nations system in order to strengthen the national capacities of developing countries to protect themselves from the consumption and/or sale of banned, withdrawn, severely restricted or, in the case of pharmaceuticals, non-approved products;

4. Requests the Secretary-General, based upon the work already being done within the Food and Agriculture Organization of the United Nations, the World Health Organization, the International Labour Organisation, the United Nations Environment Programme, the General Agreement on Tariffs and Trade, the United Nations Centre on Transnational Corporations and other relevant intergovernmental organizations, to the maximum extent possible within existing resources, to prepare and regularly update a consolidated list of products whose consumption and/or sale have been banned, withdrawn, severely restricted or, in the case of pharmaceuticals, not approved by Governments, and to make this list available as early as possible and, in any case, not later than December 1983;

5. Agrees that the consolidated list referred to in paragraph 4 above should be easy to read and understand and should contain both generic/chemical and brand names in alphabetical order, as well as the names of all manufacturers and a short reference to the grounds and decisions taken by Governments that have led to the banning, withdrawal or severe restriction of such products;

6. Decides, on the basis of the above-agreed criteria, to keep under review the format of the consolidated list with a view to its possible improvements;

7. Requests Governments and the relevant organs, organizations and bodies of the United Nations system to provide all the information and assistance necessary for the prompt and effective fulfillment of the task entrusted to the Secretary-General.

109th plenary meeting
17 December 1982

General Assembly resolution 38/149

Protection against products harmful to health and the environment

The General Assembly,

Recalling its resolutions 36/166 of 16 December 1981 and 37/137 of 17 December 1982,

Bearing in mind the oral report presented by the Secretariat with regard to progress made in the implementation of resolution 37/137^b

1. Takes note of the report of the Secretary-General on the exchange of information on banned hazardous chemicals and unsafe pharmaceutical products,^c and of the work being carried out by the United Nations system of organizations;

2. Notes with satisfaction that the work carried out in consultation with organizations of the United Nations system on the consolidated list of products whose consumption and/or sale have been banned, withdrawn, severely restricted or, in the case of pharmaceuticals, not approved by Governments, is in the process of being completed;

3. Requests the Secretary-General to make available the consolidated list, as established on the basis of information supplied up to now in accordance with the objectives of General Assembly resolution 37/137, and to bring it up-to-date on a regular basis;

4. Urges the relevant organs, organizations and bodies of the United Nations system, particularly the Food and Agriculture Organization of the United Nations, the World Health Organization, the International Labour Organisation, the United Nations Environment Programme, the General Agreement on Tariffs and Trade and the United Nations Centre on Transnational Corporations and other intergovernmental organizations, to continue to co-operate fully in providing information for the consolidated list and for its updated versions;

5. Appreciates the co-operation extended by Governments and urges all Governments, in particular those that have not yet done so, to provide the necessary information for inclusion in the consolidated list and its updated versions, as well as comments and views that they deem relevant;

6. Urges non-governmental organizations to extend co-operation to the Secretary-General regarding the preparation of the consolidated list, particularly in the identification of potential sources of information among national Governments and in obtaining governmental information on relevant regulatory actions;

7. Requests the Secretary-General, for purposes of review by the General Assembly at its thirty-ninth session, to submit a report on the implementation of Assembly resolution 37/137, including the consolidated list, taking into account the latest information and comments collected for possible improvement of the list, as envisaged in paragraph 6 of resolution 37/137;

8. Requests the Secretary-General to submit to the General Assembly at its thirty-ninth session, through the Economic and Social Council, a

^b Official Records of the General Assembly, Thirty-eighth Session, Second Committee, 27th meeting, paras. 1-7.

^c A/38/190-E/1983/67.

report on the exchange of information on banned hazardous chemicals and unsafe pharmaceutical products identifying elements for possible further work in this area in regard to the needs and capabilities of developing countries to monitor and control those substances in the light of the relevant observations in the report of the Secretary-General;

9. Requests the Secretary-General and the organs, organizations and other competent bodies of the United Nations system to continue to provide, within available resources, the necessary technical assistance to the developing countries, at their request, for the establishment or strengthening of national systems for better use by those countries of the information provided with regard to banned hazardous chemicals and unsafe products, as well as for an adequate monitoring of the importation of those products.

102nd plenary meeting
19 December 1983

General Assembly resolution 39/229

Protection against products harmful to health and the environment

The General Assembly,

Reaffirming its resolutions 37/137 of 17 December 1982 and 38/149 of 19 December 1983,

Taking note with satisfaction of the report of the Secretary-General on products harmful to health and the environment,^d

Bearing in mind the report of the Secretary-General on the exchange of information on banned hazardous chemicals and unsafe pharmaceutical products,^e and welcoming the effort being made in various international forums with regard to the exchange of information on such products,

1. Expresses its appreciation to the Secretary-General and commends him for the distribution of the first issue of the consolidated list of products whose consumption and/or sale have been banned, withdrawn, severely restricted or, in the case of pharmaceuticals, not approved by Governments;

2. Reiterates its appreciation for the co-operation extended by Governments in the preparation of the consolidated list, and urges all Governments that have not yet done so to provide the necessary information for inclusion in the updated versions of the list;

3. Notes with satisfaction the co-operation provided by the appropriate organs, organizations and bodies of the United Nations system and other intergovernmental organizations in the issuance of the list and urges them, particularly the Food and Agriculture Organization of the United Nations, the World Health Organization, the International Labour Organization, the United Nations Environment Programme, the General Agreement on Tariffs and Trade and the United Nations Centre on Transnational Corporations, to continue to co-operate fully in the preparation of the updated versions of the list;

4. Expresses its appreciation for the co-operation provided by non-governmental organizations in this regard, and urges them to continue to extend co-operation to the Secretary-General in the preparation of the consolidated list, particularly in the identification of potential sources of information among national Governments and in obtaining governmental information on relevant regulatory actions;

5. Decides that:

(a) An updated consolidated list should be issued annually and that the data should be made available to Governments and other users in such a form as to permit direct computer access to it;

(b) In order to keep costs to a minimum, the consolidated list should be published and made available in all the official languages of the United Nations in sets of alternating languages each year, with no more than three languages per year and with the same frequency for each language;

(c) The format of the consolidated list should be kept under continuing review with a view to its improvement, in accordance with

^d A/39/452.

^e A/39/290-E/1984/120.

General Assembly resolution 37/137, in co-operation with the relevant organs, organizations and bodies of the United Nations system, taking into account the complementary nature of the list, the experiences obtained and the views expressed by Governments on this matter, and that the next review should be submitted by the Secretary-General to the General Assembly at its forty-first session;

(d) The review of the consolidated list should cover particularly the advantages and disadvantages of introducing to the list such information as the legal, public health and commercial context of the regulatory actions, as well as complementary information on safe uses of the products;

6. Urges importing countries, bearing in mind the extensive legal, public health and safety information already provided to the United Nations Centre on Transnational Corporations, the United Nations Environment Programme, the International Labour Organisation, the Food and Agriculture Organization of the United Nations, the World Health Organization and the General Agreement on Tariffs and Trade, to avail themselves of the information provision facilities of those organizations, which include, in some cases, direct computer access;

7. Requests the Secretary-General, with the assistance of the appropriate specialized agencies, to submit to the General Assembly at its forty-first session a report on a review of the various information exchange schemes now in operation within the United Nations system;

8. Requests the Secretary-General and the competent organs, organizations and bodies of the United Nations system to continue to provide the necessary technical assistance to the developing countries, at their request, for the establishment or strengthening of national systems for managing hazardous chemicals and pharmaceutical products, as well as for an adequate monitoring of the importation, manufacture and use of those products;

9. Also requests the Secretary-General, through the Economic and Social Council, to inform the General Assembly at its forty-first session and every three years thereafter about the implementation of resolutions 37/137 and 38/149 and of the present resolution;

10. Further requests the Secretary-General to take the necessary measures for the implementation of the present resolution.

104th plenary meeting
18 December 1984

General Assembly resolution 44/226

Traffic in and disposal, control and transboundary movements of Toxic and dangerous products and wastes

The General Assembly,

Recalling its resolutions 37/137 of 17 December 1982, 38/149 of 19 December 1983 and 39/229 of 18 December 1984, as well as its decision 41/450 of 8 December 1986,

Recalling also its resolution 42/183 of 11 December 1987 on traffic in toxic and dangerous products and wastes,

Recalling further its resolution 43/212 of 20 December 1988, entitled "Responsibility of States for the protection of the environment: prevention of the illegal international traffic in, and the dumping and resulting accumulation of, toxic and dangerous products and wastes affecting the developing countries in particular",

Recalling Economic and Social Council resolutions 1988/70 and 1988/71 of 28 July 1988 and taking note of Council resolution 1989/104 of 27 July 1989,

Taking note of the report of the Secretary-General on products harmful to health and the environment^f and Economic and Social Council decision 1989/177 of 27 July 1989,

Taking note also of decisions 15/28 and 15/30 of 25 May 1989 of the Governing Council of the United Nations Environment Programme,^g

Welcoming the report of the Secretary-General on illegal traffic in toxic and dangerous products and wastes,^h

Taking note of the conclusion of the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal,ⁱ

Inviting all States to consider signing the Basel Convention without prejudice to the final positions to be taken by regional intergovernmental organizations in this regard,

Mindful of the growing threat to the environment and to human health and safety posed by the improper management and the increased generation, complexity and transboundary movement of hazardous wastes,

Convinced that illegal traffic in toxic and dangerous products and wastes poses a severe threat to the environment and to human health and safety,

Also convinced that these problems cannot be resolved without adequate co-operation among members of the international community,

Deeply concerned by the fact that cases of illegal transboundary movement and dumping of dangerous products and wastes particularly

^f A/44/276-E/1989/78.

^g See Official Records of the General Assembly, Forty-fourth Session, Supplement No. 25 (A/44/25), annex I.

^h A/44/362 and Corr.1.

ⁱ See UNEP/IG.80/3.

harmful for the environment and human health continue to occur, affecting, in particular, developing countries,

Convinced of the need to assist all countries, particularly developing countries, in obtaining all appropriate information concerning toxic and dangerous products and wastes and in reinforcing their capacity to detect and halt any illegal attempt to introduce toxic and dangerous products and wastes into the territory of any State in contravention of national legislation and relevant international legal instruments, as well as traffic not carried out in compliance with internationally accepted guidelines and principles in this field,

I

TRAFFIC IN TOXIC AND DANGEROUS PRODUCTS AND WASTES

1. Requests each regional commission, within existing resources, to contribute to the prevention of the illegal traffic in toxic and dangerous products and wastes by monitoring and making regional assessments of this illegal traffic and its environmental and health implications, on a continuing basis, in each region, and, in this context, in co-operation with and relying upon expert support and advice from the United Nations Environment Programme and other relevant bodies of the United Nations, including the International Register of Potentially Toxic Chemicals, and Ad Hoc Working Group of Experts on Prior Informed Consent and Other Modalities to Supplement the London Guidelines for the Exchange of Information on Chemicals in International Trade, and the Interim Secretariat of the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal, without prejudice to the final position to be taken by regional intergovernmental organizations on the Convention, and to report to the Economic and Social Council at its second regular session starting in 1990;

2. Also requests the regional commissions to interact among themselves and co-operate with the United Nations Environment Programme, with a view to maintaining efficient and co-ordinated monitoring and assessment of the illegal traffic in toxic and dangerous products and wastes;

3. Requests the Economic and Social Council to submit recommendations to the General Assembly on the findings and conclusions of the regional commissions, in their consideration of environmental issues;

4. Calls upon all countries to co-operate with their respective regional commissions with the aim of preventing the illegal traffic in toxic and dangerous products and wastes;

II

PROTECTION AGAINST PRODUCTS HARMFUL TO HEALTH AND THE ENVIRONMENT

1. Expresses its appreciation to the Secretary-General for his report on products harmful to health and the environment, which contains a review of the Consolidated List of Products Whose Consumption and/or Sale Have Been Banned, Withdrawn, Severely Restricted or Not Approved by Governments;

2. Notes with appreciation the co-operative relationship established between the United Nations, the World Health Organization and the United Nations Environment Programme International Register of Potentially Toxic Chemicals for the preparation of the Consolidated List;

3. Notes, in this context, the need to utilize also the work being done by the Working Group on Export of Domestically Prohibited Goods and Other Hazardous Substances established by the General Agreement on Tariffs and Trade and those activities which are currently under way within the framework of the United Nations Environment Programme and the Food and Agriculture Organization of the United Nations in connection with implementation of prior informed consent schemes for chemicals and pesticides in international trade and which implement the system of information exchange envisaged by the developers of the Consolidated List, as well as the work being done under international agreements and conventions in related areas;

4. Expresses its appreciation for the growing co-operation by Governments in the preparation of the Consolidated List, and urges all Governments that have not yet done so to provide the necessary information for inclusion in updated versions of the Consolidated List;

5. Requests the Secretary-General to ensure, within existing resources, publication of the Consolidated List in English, French and Spanish, in accordance with demand, bearing in mind its resolution 39/229;

6. Also requests the Secretary-General to undertake a special effort to ensure effective and wider dissemination of the Consolidated List in all appropriate circles;

7. Further requests the Secretary-General, in this context, to consider ways and means of ensuring more effective involvement of non-governmental organizations in promoting the dissemination and utilization of the Consolidated List;

8. Requests the Secretary-General, in the context of the preparation of his next scheduled report on the question:

(a) To make specific suggestions on ways and means of providing technical co-operation, including through appropriate United Nations organizations, to countries, in particular developing countries, to create and strengthen their capacity to utilize the Consolidated List;

(b) To study all the pending issues, such as sustainable alternatives to banned and severely restricted products and unregistered pesticides, with a focus on improving the usefulness of the Consolidated List;

III

CONTROL OF TRANSBOUNDARY MOVEMENTS OF HAZARDOUS WASTES AND THEIR DISPOSAL

1. Recognizes the necessity of developing rules of international law, as early as practicable, on liability and compensation for damage resulting from the transboundary movement and disposal of hazardous wastes;

2. Requests the Executive Director of the United Nations Environment Programme, in accordance with the resolutions adopted at the Conference of Plenipotentiaries on the Global Convention on the Control of Transboundary Movements of Hazardous Wastes, held at Basel, Switzerland, from 20 to 22 March 1989, to establish, on the basis of equitable geographical representation and in consultation with Governments, an ad hoc working group of legal and technical experts to develop, as early as practicable, elements that might be included in a protocol on liability and compensation for damage resulting from the transboundary movement and disposal of hazardous wastes and to report to the preparatory committee of the United Nations conference on environment and development and to the Governing Council of the United Nations Environment Programme, in accordance with its mandate in this regard;

3. Invites the Executive Director of the United Nations Environment Programme and the Secretary-General of the International Maritime Organization, in consultation, as appropriate, with other relevant international organizations, to review the existing rules, regulations and practices with respect to the disposal of hazardous wastes at sea, in order to harmonize the provisions of the relevant conventions as adopted in this regard;

4. Requests the Secretary-General, in co-operation with the Executive Director of the United Nations Environment Programme, to report to the General Assembly at its forty-sixth session, through the Economic and Social Council, on the progress achieved in the implementation of the provisions of the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal and of the present resolution.

85th plenary meeting
22 December 1989

Economic and Social Council resolution 1998/41

Protection against products harmful to health and the environment

The Economic and Social Council,

Recalling General Assembly resolutions 37/137 of 17 December 1982, 38/149 of 19 December 1983, 39/229 of 18 December 1984 and 44/226 of 22 December 1989, as well as Assembly decisions 47/439 of 22 December 1992 and 50/431 of 20 December 1995,

Taking note of the report of the Secretary-General on products harmful to health and the environment,^j which contains a review of the Consolidated List of Products Whose Consumption and/or Sale have been Banned, Withdrawn, Severely Restricted or not Approved by Governments,

Noting with satisfaction the continued close collaboration between the United Nations, the Food and Agriculture Organization of the United Nations, the World Health Organization and the United Nations Environment Programme in the preparation of the Consolidated List,

Taking note of the successful conclusion of the negotiations to develop a legally binding instrument for the application of the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade (Rotterdam Convention),

1. Welcomes the report of the Secretary-General on products harmful to health and the environment and notes the progress being achieved in increasing the number of countries that participate in the preparation of the Consolidated List of Products Whose Consumption and/or Sale have been Banned, Withdrawn, Severely Restricted or not Approved by Governments;

2. Expresses its appreciation for the cooperation extended by Governments in the preparation of the Consolidated List and urges all Governments, in particular those that have not yet done so, to provide the necessary information to relevant organizations for inclusion in future issues of the Consolidated List;

3. Requests the Secretary-General to continue to prepare the Consolidated List focusing on chemicals and pharmaceutical products in alternate years, with the same frequency for each official language in publishing the Consolidated List as was envisioned in General Assembly resolutions 39/229 and 44/226;

4. Also requests the Secretary-General to continue to provide the necessary technical assistance to developing countries, at their request, for the establishment and/or strengthening of national capacity for managing hazardous chemicals and pharmaceutical products;

5. Urges the adoption of the agreed text of the Rotterdam Convention at the diplomatic conference to be held in Rotterdam, the Netherlands, on 10 and 11 September 1998 and calls for a speedy ratification by the signatories of the Convention, aimed at its early entry into force;

6. Emphasizes the need to continue to utilize the work being undertaken by relevant organizations of the United Nations system and other intergovernmental organizations in this area, as well as that being

^j A/53/156-E/1998/78.

carried out under international agreements and conventions in related areas in updating the Consolidated List;

7. Requests the Secretary-General to continue to report every three years, in accordance with General Assembly resolution 39/229, on the implementation of the present resolution and of previous Assembly resolutions on the same subject.

46th plenary meeting
30 July 1998

Economic and Social Council resolution 2001/33

Protection against products harmful to health and the environment

The Economic and Social Council,

Recalling General Assembly resolutions 37/137 of 17 December 1982, 38/149 of 19 December 1983, 39/229 of 18 December 1984 and 44/226 of 22 December 1989, General Assembly decisions 47/439 of 22 December 1992 and 50/431 of 20 December 1995, and Council resolution 1998/41 of 30 July 1998,

Having considered the report of the Secretary-General on products harmful to health and the environment,^k which contains a review of the Consolidated List of Products Whose Consumption and/or Sale Have Been Banned, Withdrawn, Severely Restricted or Not Approved by Governments,¹

Taking note of the fact that an increasing number of countries participate in the preparation of the Consolidated List,

Noting with satisfaction the continued close collaboration between the United Nations, the Food and Agriculture Organization of the United Nations, the World Health Organization, the United Nations Environment Programme and the World Trade Organization in the preparation and dissemination of the Consolidated List,

1. Expresses its appreciation for the cooperation extended by Governments in the preparation of the Consolidated List of Products Whose Consumption and/or Sale Have Been Banned, Withdrawn, Severely Restricted or Not Approved by Governments,^m and urges all Governments, in particular those that have not yet done so, to provide the necessary information to relevant organizations for inclusion in future issues of the Consolidated List;

2. Requests the Secretary-General to prepare each of the two issuances of the Consolidated List, pharmaceuticals and chemicals, in all official languages – the English version in the already established format, and the versions in the other languages as a text file. In this connection, the Consolidated List should continue to include previously collected data, while at the same time making distinct entries for those products covered in the interim prior informed consent procedure, in line with the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade, and should consequently keep updating the information contained therein, in accordance with relevant action being taken by the Convention;

3. Invites multilateral and bilateral agencies to continue to strengthen and coordinate their activities for improving the capacity-building of developing countries, particularly least developed countries, including innovative methodologies for earmarking, assessing and monitoring technical assistance in the area of the sound management of hazardous chemicals and dangerous pharmaceutical products;

^k A/56/115-E/2001/92.

¹ For previous issues of the Consolidated List, see United Nations publications, Sales Nos. E.84.IV.8, E.87.IV.a, E.91.IV.4, E.94.IV.3 and E.97.IV.2.

^m UNEP/FAO/PIC/CONF/5, annex III.

4. Emphasizes the need to continue to utilize the work being undertaken by relevant organizations of the United Nations system and other intergovernmental organizations in this area, as well as that being carried out under international agreements and conventions in related areas in updating the Consolidated List;

5. Requests the Secretary-General to continue to report every three years, in accordance with General Assembly resolution 39/229, on the implementation of the present resolution and of previous Assembly resolutions on the same subject;

6. Requests the Secretary-General, within existing resources, to continue to disseminate the list as widely as possible and to look at the possibility of using online dissemination in collaboration with the World Trade Organization, the Food and Agriculture Organization of the United Nations, the World Health Organization and the United Nations Environment Programme.

*43rd plenary meeting
26 July 2001*

Economic and Social Council resolution 2004/55

Protection against products harmful to health and the environment

The Economic and Social Council,

Recalling General Assembly resolutions 37/137 of 17 December 1982, 38/149 of 19 December 1983, 39/229 of 18 December 1984 and 44/226 of 22 December 1989, Assembly decisions 47/439 of 22 December 1992 and 50/431 of 20 December 1995, and Economic and Social Council resolutions 1998/41 of 30 July 1998 and 2001/33 of 26 July 2001,

Having considered the report of the Secretary-General on products harmful to health and the environment,ⁿ which contains a review^o of the Consolidated List of Products Whose Consumption and/or Sale Have Been Banned, Withdrawn, Severely Restricted or Not Approved by Governments,^p

Taking note of the fact that an increasing number of countries participate in the preparation of the Consolidated List,

Noting with satisfaction the continued close collaboration among the United Nations, the Food and Agriculture Organization of the United Nations, the World Health Organization and the United Nations Environment Programme in the preparation and dissemination of the Consolidated List,

Taking note of commitments made and targets established regarding environmentally sound management of chemicals in the Plan of Implementation of the World Summit on Sustainable Development ("Johannesburg Plan of Implementation"),^q adopted by the Summit on 4 September 2002,

Noting the coming into force, in early 2004, of the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade^r and the Stockholm Convention on Persistent Organic Pollutants,^s

ⁿ A/59/81-E/2004/63.

^o Ibid., sect. II.

^p United Nations publications, Sales Nos. E.03.IV.9 and E.04.IV.2. For previous issues of the Consolidated List, see United Nations publications, Sales Nos. E.84.IV.8, E.87.IV.1, E.91.IV.4, E.94.IV.3, E.97.IV.2, E.02.IV.3 and E.03.IV.3.

^q *Report of the World Summit on Sustainable Development, Johannesburg, South Africa, 26 August - 4 September 2002* (United Nations publication, Sales No. E.03.II.A.1 and corrigendum), chap. I, resolution 1, annex. 5 Text available from <http://www.pic.int/en/ViewPage.asp?id=104> (accessed 22 July 2004).

^r Text available from <http://www.pic.int/en/ViewPage.asp?id=104> (accessed 22 July 2004).

^s Text available from <http://www.pops.int/>. (accessed 22 July 2004).

1. **Takes note** of the report of the Secretary-General on products harmful to health and the environment and notes the online availability^t of the Consolidated List of Products Whose Consumption and/or Sale Have Been Banned, Withdrawn, Severely Restricted or Not Approved by Governments;

2. **Expresses its appreciation** for the cooperation extended by Governments in the preparation of the Consolidated List, and urges all Governments, in particular those that have not yet done so, to provide the necessary information to relevant organizations for inclusion in future issues of the Consolidated List;

3. **Requests** the Secretary-General to continue to update the electronic version of the Consolidated List, alternating between chemicals and pharmaceuticals every year, while printing only new data to complement previously printed issues for the benefit of those, particularly in developing countries, who may not have easy access to the electronic version;

4. **Urges** all Governments to participate fully in the process of developing a strategic approach to international chemicals management by 2005, in order to achieve the 2020 target of the World Summit on Sustainable Development, as set out in paragraph 23 of the Plan of Implementation of the World Summit on Sustainable Development ("Johannesburg Plan of Implementation"), pursuant to which chemicals would be used and produced in ways that lead to the minimization of significant adverse effects on human health and the environment, using transparent science-based risk assessment procedures and science-based risk management procedures, taking into account the precautionary approach, as set out in principle 15 of the Rio Declaration on Environment and Development,^u and support developing countries in strengthening their capacity for the sound management of chemicals and hazardous wastes by providing technical and financial assistance, and calls for a more coordinated use of existing international instruments in this field, taking into account the work undertaken by the United Nations system in this regard;

5. **Encourages** countries to implement the new Globally Harmonized System of Classification and Labeling of Chemicals^v as agreed in paragraph 23 (c) of the Johannesburg Plan of Implementation as soon as possible, with a view to having the system fully operational by 2008;

6. **Urges** all Governments that have not yet done so to consider ratifying the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade and the Stockholm Convention on Persistent Organic Pollutants and to fully implement them;

7. **Invites** multilateral and bilateral agencies to continue to strengthen and coordinate their activities for improving the capacity-building of developing countries, particularly least developed countries, as well as countries with economies in transition, inter alia, through technical

^t Available from www.un.org/esa/coordination/ecosoc/Path:Publications (accessed 22 July 2004).

^u *Report of the United Nations Conference on Environment and Development, Rio de Janeiro, 3-14 June 1992*, vol. I, *Resolutions Adopted by the Conference* (United Nations publication, Sales No. E.93.I.8 and corrigendum), resolution 1, annex I.

^v United Nations publication, Sales No. E.03.II.E.25.

assistance in the area of the sound management of hazardous chemicals and dangerous pharmaceutical products;

8. **Emphasizes** the need to continue to utilize the work being undertaken by relevant organizations of the United Nations system and other intergovernmental organizations in this area, as well as that being carried out under international agreements and conventions in related areas, in updating the Consolidated List;

9. **Requests** the Secretary-General to continue to report every three years, in accordance with General Assembly resolution 39/229 of 18 December 1984, on the implementation of the present resolution, taking into account previous Assembly resolutions on the same subject, as appropriate.

*50th plenary meeting
23 July 2004*

Annex II

Criteria for the inclusion of pharmaceutical and chemical products in the Consolidated List

A. Pharmaceutical products^a

a) "Banned product"

A product that has been withdrawn from use and/or sale nationally in one or more countries by order of the competent national authority, having regard to its safety in relation to its intended use.

b) "Voluntary product"

A product that has been withdrawn from use and/or sale nationally in one or more countries by voluntary action of the manufacturer, having regard to its safety in relation to its intended use.

c) "Severely restricted"

A product containing:

(a) A substance that is controlled more rigorously than is provided for under the 1961 Single Convention on Narcotic Drugs or the 1971 Convention on Psychotropic Substances or that is subjected to analagous control at the national level before it has been considered for international scheduling,

(b) A substance that may be incorporated in pharmaceutical dosage forms only within the specific limits determined by statute;

(c) A substance that is approved by a competent national authority and is subsequently subjected to restrictions that exclude its use in a substantial proportion of the potential target population of patients having regard to its safety. A substance which from the outset has been severely restricted in its indications having regard to the known balance of safety and efficacy is excluded.

d) "Non-approved"

A product that has been formally submitted for registration by a manufacturer to a national competent authority and which has been rejected on grounds of safety.

B. Chemical products

a) "Banned"

A product that has been prohibited for all uses nationally in one or more countries by final government regulatory action because of health or environmental reasons.

b) "Withdrawn"

A product formerly in commerce that has been withdrawn for all uses nationally in one or more countries by final voluntary action of the manufacturer because of health or environmental reasons.

c) "Severely restricted"

A product for which virtually all uses have been prohibited nationally in one or more countries by final government regulatory action because of health or environmental reasons, but for which certain specific uses remain authorized.

^a Products, which are in illicit trade only, would not be considered.

Annex III

List of references cited in the regulatory text

ACMIN	MINISTRY OF AGRICULTURE C/O MARCEL J. LANIADO QUITO, ECUADOR
ADECA	ARGENTINIAN LEGISLATION, DECRETO MINIST. AGRICULTURA Y GANADERIA NACIONAL BUENOS AIRES, ARGENTINA
ADECG	ARGENTINIAN LEGISLATION, DECRETO SECR.AGRICULTURA Y GANADERIA NACIONAL BUENOS AIRES, ARGENTINA
ADECS	ARGENTINIAN LEGISLATION, DECRETO MINIST. AGRICULTURA Y GANADERIA NACIONAL SERV. NAC.DE SANIDAD VEG. BUENOS AIRES, ARGENTINA
ADISS	ARGENTINIAN LEGISLATION, DISPOSICION MINIST.AGRICULTURA Y GANADERIA NACIONAL SERV. NAC. DE SANIDAD VEG. BUENOS AIRES, ARGENTINA
AFS	ARBETARSKYDDSSTYRELSENS FOERFATTNINGSSAMLING ARBETARSKYDDSSTYRELSEN LIBER FOERLAG, 16289 STOCKHOLM, SWEDEN
ALEYA	ARGENTINIAN LEGISLATION, LEY MINIST. AGRICULTURA Y GANADERIA NACIONAL BUENOS AIRES, ARGENTINA
ALEYE	ARGENTINIAN LEGISLATION, LEY MINIST. ECONOMIA NACIONAL BUENOS AIRES, ARGENTINA
ALEYP	ARGENTINIAN LEGISLATION, LEY MINIST. ECONOMIA NACIONAL PODER EJECUTIVO NACIONAL BUENOS AIRES, ARGENTINA
AORDM	ARGENTINIAN LEGISLATION, ORDENANZA BUENOS AIRES, ARGENTINA
ARESA	ARGENTINIAN LEGISLATION, RESOLUTION MINIST. AGRICULTURA Y GANADERIA NACIONAL ARGENTINA
AUSDPS	DRUGS POISONS SCHEDULING COMMITTEE WODEN, AUSTRALIA
AUSPAC	PESTICIDES AND AGRICULTURAL CHEMICALS COMMITTEE WODEN, AUSTRALIA

List of references cited in regulatory text

AUSST	AUSTRALIAN STANDARD AUSTRALIA
AUTFLG	FEDERAL LAW GAZETTE VIENNA, AUSTRIA
BGBL	BUNDESGESETZBLATT BONN, GERMANY
BLZPC	PESTICIDES CONTROL BELIZE
BRALDA	UNIFIED HEALTH SYSTEM (SUS) ANVISA (FORMERLY SANITARY SURVEILLANCE SECRETARIAT, MINISTRY OF HEALTH) FEDERAL BODY OF ENVIRONMENT, AGRICULTURE AND HEALTH RIO DE JANEIRO 21 040, BRAZIL
CAGAAK	CANADA GAZETTE PART II CANADIAN GOVERNMENT PUBLISHING CENTER OTTAWA K1A 0S9 ONTARIO, CANADA
CHEOEh	ORDINANCE RELATING TO ENVIRONMENTALLY HAZARDOUS SUBSTANCES BERNE, SWITZERLAND
CHEOPT	ORDER CONCERNING PROHIBITED TOXIC SUBSTANCES BERNE, SWITZERLAND
CHEOS	ORDONNANCE SUR LES SUBSTANCES DANGEREUSES POUR L'ENVIRONNEMENT (OSUBST) SWITZERLAND
CHNBPR	BULLETIN OF PESTICIDE REGISTRATION BEIJING, CHINA
CHNLTC	LIST OF TOXIC CHEMICALS BANNED OR SEVERELY RESTRICTED (THE FIRST GROUP) BEIJING, CHINA
CHNMA	MINISTRY OF AGRICULTURE BEIJING, CHINA
CHNPEC	REGULATION ON PREVENTING EQUIPMENT CONTAINING PCB'S BEIJING, CHINA
CHNPFA	POINTS FOR ATTENTION ON SAFE USE OF HIGHLY TOXIC PESTICIDES BEIJING, CHINA
CHNPR	MINISTRY OF PUBLIC HEALTH BEIJING, CHINA
CHNRE	MINISTRY OF PUBLIC HEALTH BEIJING, CHINA
CHNREM	REGULATIONS FOR ENVIRONMENTAL MANAGEMENT ON THE FIRST IMPORT OF CHEMICALS AND THE IMPORT AND EXPOR BEIJING, CHINA

List of references cited in regulatory text

CHNRSU	REGULATION ON SAFE USE OF PESTICIDES BEIJING, CHINA
CHPHS	LAW FOR THE CONTROL OF HOUSEHOLD PRODUCTS CONTAINING HARMFUL SUBSTANCES AND RELATED CABINET ORDER AND MINISTERIAL ORDINANCES LAW NO. 112 OF 12 OCTOBER 1973 (ENGLISH EDITION) TOKYO, JAPAN
CMHRS	MINISTRY OF HEALTH BOGOTA, COLOMBIA
CUBMSP	MINISTRO DE SALUD PUBLICA HAVANA, CUBA
CYPAR	ASBESTOS (HEALTH & SAFETY OF PERSONS AT WORK) REGULATIONS NICOSIA, CYPRUS
CYPDDD	DECISION OF THE DIRECTOR OF THE DEPARTMENT OF AGRICULTURE NICOSIA, CYPRUS
CYPPAB	PESTICIDE AUTHORIZATION BOARD NICOSIA, CYPRUS
CYPPC	PEST CONTROL PRODUCTS BOARD NICOSIA, CYPRUS
CZEDMH	DIRECTIVE OF MINISTRY OF HEALTH PRAGUE, CZECH REPUBLIC
DCCOL	EL PRESIDENTE DE LA REPUBLICA DE COLOMBIA BOGOTA, COLOMBIA
DESC	PIC CIRCULARS XI - XIII UNEP CHEMICALS CH - 1219 CHÂTELAIN, GENEVA, SWITZERLAND
DFSK	DEUTSCHE FORSCHUNGSGEMEINSCHAFT GERMANY
DMAPC	PESTICIDE CONTROL BOARD DOMINICA
DUSSR	RUSSIAN MINISTRY OF PUBLIC HEALTH MOSCOW, RUSSIAN FEDERATION
EP1->4	PIC CIRCULARS X through XIX issued between 12/1999 and 6/2004 by the joint UNEP/FAO Secretariat for the Rotterdam Convention.
	PLANT PROTECTION SERVICE PLANT PRODUCTION AND PROTECTION FOOD AND AGRICULTURE ORGANIZATION 00100 ROME, ITALY
	UNEP CHEMICALS UNITED NATIONS ENVIRONMENT PROGRAMME CH-1219 CHATELAIN, GENEVA SWITZERLAND
ESINC	ELECTRICAL SERVICE INSPECTORATE SANTIAGO, CHILE

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ESPBC	EL CODIGO ALIMENTARIO ESPAYOL THE BASIC CODE FOR FOOD MINISTERIO DE SANIDAD Y CONSUMO/DIRECCION GENERAL DE INSPECCION DEL CONSUMO MADRID, SPAIN
ESPRD	MINISTERIO DE SANIDAD Y CONSUMO DIRECCION GENERAL DE INSPECCION DEL CONSUMO MADRID, SPAIN
FDMSA	MINISTRY OF SOCIAL AFFAIRS AND HEALTH HELSINKI, FINLAND
FDPPA	PLANT PROTECTION AGENCY HELSINKI, FINLAND
FICEI	INSPECTION CENTER FOR ELECTRICAL INSTALLATIONS NOTE T 72-85 HELSINKI, FINLAND
FICSR	COUNCIL OF STATE RESOLUTION HELSINKI, FINLAND
FINBH	NATIONAL BOARD OF HEALTH HELSINKI, FINLAND
FINPB	PESTICIDE BOARD HELSINKI, FINLAND
GAMNPR	(Part IV - National Pesticide Regulation of 1994) MINISTRY OF AGRICULTURE BANJUL, GAMBIA
GBCPR	MINISTRY OF AGRICULTURE, FISHERIES AND FOOD PESTICIDES AND INFESTATION CONTROL DIVISION GREAT WESTMINSTER HOUSE, HORSEFERRY ROAD LONDON SW11 2AE, ENGLAND
GBFAA	HER MAJESTY'S STATIONARY OFFICE 49 HIGH HOLBORN LONDON WC1V 6HB, ENGLAND
GBRSI	STATUTORY INSTRUMENTS HER MAJESTY'S STATIONARY OFFICE 49 HIGH HOLBORN LONDON WC1V 6HB, ENGLAND
GOVEN	GACETA OFICIAL DE LA REPUBLICA DE VENEZUELA CARACAS, VENEZUELA
GURIT	GAZZETTA UFFICIALE DELLA REPUBBLICA ITALIANA MINISTERIO DI GRAZIA E GIUSTIZIA, ISTITUTO POLIGRAFICO E LECC A DELLO STATO LIBRERIA DELLO STATO PIAZZA G. VERDI 10 ROME 10-00100, ITALY

List of references cited in regulatory text

HUNMA	MINISTRY OF AGRICULTURE PLANT PROTECTION AND AGROCHEMICAL DEPARTMENT BUDAPEST, HUNGARY
HUNODW	OFFICIAL DOCUMENT OF WITHDRAWAL BUDAPEST, HUNGARY
HUNOJN	OFFICIAL JOURNAL BUDAPEST, HUNGARY
ICA	RESOLUTION OF THE COLOMBIAN AGRICULTURAL AND LIVESTOCK INSTITUTE BOGOTA, COLOMBIA
INDPFA	GOVERNMENT OF INDIA NEW DELHI, INDIA
IRNPCA	MINISTRY OF AGRICULTURE TEHRAN, IRAN
IRNPSB	PESTICIDES SUPERVISION BOARD MINISTRY OF AGRICULTURE TEHRAN, IRAN
JNPAB	DIRECTOR GENERAL OF PHARMACEUTICAL AFFAIRS BUREAU MINISTRY OF HEALTH AND WELFARE TOKYO, JAPAN
JPNCO	JAPANESE CABINET ORDER TOKYO, JAPAN
JPNIS	MINISTRY OF LABOUR TOKYO, JAPAN
KEMRN	NATIONAL CHEMICALS INSPECTORATE STOCKHOLM, SWEDEN
KENPC	PEST CONTROL PRODUCTS BOARD NAIROBI, KENYA
KGTXP	GENERAL TOXICOLOGY OF PESTICIDES (OBSHEKAYA TOXICOLOGIYA PESTICID OR) KAGAN Y.S. KIEV, 'SDOROV'YA', UKRAINE
KOVHT	KOVETZ HA-TAKANOT (OFFICIAL PUBLICATIONS OF REGULATIONS) MINISTRY OF INTERIOR, ENVIRONMENTAL PROTECTION SERVICE P.O. BOX 6158 JERUSALEM 91061, ISRAEL
KRMAF	MINISTRY OF AGRICULTURE, FORESTRY AND FISHERIES SEOUL, REPUBLIC OF KOREA
KROTS	ORDINANCE RELATING TO A TOXIC SUBSTANCE SEOUL, REPUBLIC OF KOREA
KYRORD	MINISTRY OF AGRICULTURE KYRGYZSTAN

List of references cited in regulatory text

LCAPCA	PESTICIDES CONTROL ACT SAINT LUCIA
LCAPPA	PLANT PROTECTION ACT SAINT LUCIA
LKAPFC	MEETING OF THE PESTICIDE FORMULARY COMMITTEE COLOMBO, SRI LANKA
LIEAG	ADMINISTRATION GOUVERNEMENTALE LIECHTENSTEIN
MEXMP	MANUAL DE PLAGUICIDAS AUTORIZADOS PARA MEXICO CITY, MEXICO
MEXRI	REGISTRO INTERNO EN LA DIRECCION GENERAL DE SANIDAD Y PROTECCION AGROPECUARIA Y FORESTAL SARH MEXICO CITY, MEXICO
MINAC	MINISTRY OF AGRICULTURE CROPS AND LIVESTOCK DIVISION SANTIAGO, CHILE
MINAR	MINISTERE DE L'AMENAGEMENT RURAL DE LA PROTECTION DES VEGETAUX LOME, TOGO
MINED	MINISTRY FOR THE ENVIRONMENT COPENHAGEN, DENMARK
MINHS	MINISTRY OF HEALTH 55 CUPPAGE ROAD, CUPPAGE CENTRE SINGAPORE
MININ	NOTIFICATION OF THE MINISTRY OF INDUSTRY MINISTRY OF PUBLIC HEALTH OFFICE OF THE NATIONAL ENVIRONMENT BOARD SOI PRACHA-SUMPUN 4, RAMA VI ROAD BANGKOK 10400, THAILAND
MINPT	MINISTRY OF PUBLIC HEALTH C/O ARTHORN SUPHAPODOK, DEPUTY SECRETARY GENERAL OFFICE OF THE NATIONAL ENVIRONMENT BOARD, RAMA VI ROAD BANGKOK, THAILAND
MINSC	MINISTERIO DE SALUD SANTIAGO, CHILE
MMNLD	MINISTRY OF HOUSING, PHYSICAL PLANNING AND ENVIRONMENT AMSTERDAM, NETHERLANDS
MOBEL	MONITEUR BELGE BRUSSELS, BELGIUM

List of references cited in regulatory text

MYSMA	PESTICIDES ACT KUALA LUMPUR, MALAYSIA
NAFEP	NOTICE OF APPROVAL ISSUED UNDER PART III OF THE FOOD AND ENVIRONMENT PROTECTION ACT MINISTRY OF AGRICULTURE LONDON, ENGLAND
NETMAF	DECREE OF THE MINISTRY OF AGRICULTURE AND FISHERIES MINISTERIAL ORDER AMSTERDAM, NETHERLANDS
NLDDC	MINISTRY OF AGRICULTURE AND FISHERIES AMSTERDAM, NETHERLANDS
NLDGG	GOVERNMENT GAZETTE AMSTERDAM, NETHERLANDS
NLDRC	MINISTRY OF AGRICULTURE AND FISHERIES AMSTERDAM, NETHERLANDS
NLDSB	NETHERLANDS STAATSBLAD BULLETIN OF ACTS, ORDERS AND DECREES AMSTERDAM, NETHERLANDS
NZLABM	AGRICULTURAL BOARD MINUTES WELLINGTON, NEW ZEALAND
NZLACB	AGRICULTURAL CHEMICALS BOARD MINUTES WELLINGTON, NEW ZEALAND
NZLCPO	CUSTOMS PROHIBITION ORDER WELLINGTON, NEW ZEALAND
NZLPBM	PESTICIDES BOARD MINUTES WELLINGTON, NEW ZEALAND
NZLTSR	TOXIC SUBSTANCES REGULATIONS WELLINGTON, NEW ZEALAND
OJEC	OFFICIAL JOURNAL OF THE EUROPEAN COMMUNITIES COMMISSION OF THE EUROPEAN COMMUNITIES LUXEMBOURG
ONEBT	OFFICE OF THE NATIONAL ENVIRONMENT BOARD RAMA VI ROAD BANGKOK 10400, THAILAND
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION WASHINGTON, D.C., USA
OSUMH	MINISTRY OF HEALTH MOSCOW, RUSSIAN FEDERATION
PANADM (1->6)	AGRICULTURAL DEVELOPMENT MINISTRY PANAMA CITY, PANAMA

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1. DECREE NO. 074 OF 18 SEPTEMBER 1997.
 2. LAW NO. 12 OF 14 JUNE 2000. (ROTTERDAM CONVENTION)
 3. LAW NO. 1 OF 10 JANUARY 2001.
 4. EXECUTIVE DECREE NO. 305 OF 9 SEPTEMBER 2002.
 5. RESOLUTION 124 OF 20 MARCH 2001 AND 195 OF 4 OCTOBER 2001.
 6. LAW NO. 66 OF 10 NOVEMBER 1947. NOTIFIED ON 1998. (SANITARY CODE)
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|--------|--|
| PANPA | LISTADO DE PRODUCTOS AGRO-QUIMICOS PROHIBIDOS
PANAMA CITY, PANAMA |
| PHPEC | PESTICIDE CIRCULAR
FERTILIZER AND PESTICIDE AUTHORITY
MANILA, PHILIPPINES |
| PKB | PRODUKTKONTROLLNAEMNDEN, STATENS NATURVAARDSVERK
P.O. BOX 1302,
SMIDESV. 5, S-17125
STOCKHOLM, SWEDEN |
| POLIP | INSTYTUT PRZEMYSŁU ORGANICZNEGO
WARSAW, POLAND |
| PORHW | SECRETARIO DE ESTADO DA SAUDE E ASSISTENCIA
(SECRETARY OF STATE FOR HEALTH AND WELFARE)
LISBON, PORTUGAL |
| PORTP | COMISSAO DE TOXICOLOGIA DOS PESTICIDAS
(COMMISSION ON PESTICIDE TOXICOLOGY)
LISBON, PORTUGAL |
| PRNEN | PESTICIDE REGISTRATION NOTICE
WASHINGTON, D.C., USA |
| RNCOL | EL GERENTE GENERAL
INSTITUTO COLOMBIANO AGROPECUARIO "ICA"
BOGOTA, COLOMBIA |
| RSCH | RECEUIL SYSTEMATIQUE DU DROIT FEDERAL
(SYSTEMIC COMPILATION OF FEDERAL LAW)
CHANCELLERIE FEDERALE DIFFUSION
BERN, SWITZERLAND |
| RTSCM | TOXIC SUBSTANCES COMMITTEE
BANGKOK, THAILAND |
| SDNPCD | PESTICIDES COMMITTEE DOCUMENT
KHARTOUM, SUDAN |
| SOSFS | SOCIALSTYRELSENS FORFATTNINGSSAMLING
SOCIALSTYRELSEN FACK
S-10630 STOCKHOLM, SWEDEN |
| SVENF | SVENSK FOERFATTNINGSSAMLING
LIBER
REGERINGSG 12
111 53 STOCKHOLM, SWEDEN |

List of references cited in regulatory text

TZAPAR 4TH PESTICIDES APPROVAL AND REGISTRATION TECHNICAL COMMITTEE
DARESSALAAM, TANZANIA

Annex IV

Questionnaire

Dear Reader,

Both the Economic and Social Council and the General Assembly of the United Nations have expressed interest in ascertaining the use which is being made of the Consolidated List. They have also requested that the Secretariat keep the format of the List under continuing review. The present questionnaire has been prepared with a view to obtaining this information, which will be reported to the Economic and Social Council and the General Assembly; comments regarding the format of the List will be taken into account in the preparation of future editions.

Please mail the questionnaire as soon as possible to: United Nations Secretariat, DESA/DESC/EICB, One United Nations Plaza, Room DC1-1438, New York, NY 10017, United States of America.

Name and address of ministry/organization/institution/company/university:

A. In what capacity do you use the Consolidated List?

Government:

☐ Regulator ☐ Customs enforcement ☐ Policy maker

Other:

☐ Academic ☐ Media
☐ International organization ☐ NGO/public intersecretariat group
☐ Manufacturer ☐ Other: _____

B. For which category of products have you used the List?

☐ Agricultural chemicals ☐ Industrial chemicals
☐ Consumer products

C. 1. Has the information provided in the List prompted any action on your part?

☐ Yes ☐ No

If "yes" please describe the nature of this action either in general terms or in relation to specific products.

2. What is the nature of this action? (Information on the following points is particularly requested from national regulatory authorities)

- ☐ Review of licensing provisions for chemical products
- ☐ Review of regulations for already regulated products
- ☐ Review of enforcement of laws and regulations
- ☐ Regulation of previously unregulated products
- ☐ Meeting with manufacturers/distributors
- ☐ Other actions (please describe)

D. Are you aware of any additional products or restrictive regulatory actions that should be included in the List?

☐ Yes ☐ No

If “yes” please specify or attach a copy of any such regulation.

E. Are you aware of any additional trade and manufacturing data that should be included in the List?

☐ Yes ☐ No

If “yes” please specify.

F. Do you find the following items of information useful?

	Yes	No
Product category listing	_____	_____
CAS numbers	_____	_____
Synonyms	_____	_____
Date of decision	_____	_____
Citation of national regulations/decisions	_____	_____
Trade names/manufacturer information	_____	_____
WHO comment	_____	_____
Bibliographic references	_____	_____

G. Which other sources do you use to obtain information on banned and severely restricted products?

H. Would you be interested in and have the facilities to obtain on-line access to the List?

_____ Yes _____ No

I. What are your suggestions regarding the use of the List?

J. What are your suggestions regarding the preparation of the List?

K. Do you have any other comments?

Consolidated List of Products
Whose Consumption and/or Sale
Have Been Banned, Withdrawn,
Severely Restricted
or Not Approved by Governments

A unique list of restrictive regulatory actions taken by one hundred fifteen Governments on over eleven hundred pharmaceuticals and agricultural and industrial chemicals, as well as consumer products.

This comprehensive and informative book was produced in response to General Assembly resolutions aimed at protecting the world against products harmful to health and the environment.

Now updated and printed annually with an ever-expanding coverage of countries and products.

According to the previously determined schedule, yearly focus alternates between pharmaceuticals and chemicals. The current issue is entirely devoted to chemicals.