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1. PRODUCT NAME

OIL, CORN

PRODUCT RISK

LOW

MEDIUM

HIGH

2. DESCRIPTION



Corn oil is oil derived from maize germ (the embryos of *Zea mays* L.). Corn oil is composed primarily of glycerides of fatty acids being obtained only from corn.

3. INGREDIENTS

3.1. ESSENTIAL INGREDIENTS

Corn oil is composed primarily of glycerides of fatty acids being obtained only from the germ of corn (maize).

It may contain small amounts of other lipids such as phosphatides, of unsaponifiable constituents and of free fatty acids naturally present the oil.

Optional: may be fortified.

Free from Genetically Modified Organisms (GMO)

3.2. OTHER PERMITTED INGREDIENTS

Food Additives: See Codex General Standard for Food Additives (GSFA) Database and where permitted, only those individual additive(s) indicated for the product shall apply and only within the limits specified.

4. PROCESSING

Processing

4.1. CODEX "CAC/RCP 1-1969, Rev. 4-2003; Code of Practice- General Principles of Food Hygiene including annex on HACCP systems and guidelines for application.

5. MICROBIOLOGICAL CRITERIA

FOOD SAFETY PARAMETERS

The product shall comply with any microbiological criteria established in accordance with Codex Guideline CAC/GL: 21-1997 "Principles for the Establishment and Application of microbiological criteria for food;

The product shall be free from microorganisms in amounts which may represent a hazard to health and shall be free from any substance originating from microorganisms in amounts which may represent a hazard to health.

6. CHEMICAL CRITERIA

SAFETY PARAMETERS


MAXIMUM LIMITS

Erucic acid	≤ 20 g/kg
Iron (Fe)	≤ 1.5 mg/kg
Copper (Cu)	≤ 0.1 mg/kg

QUALITY PARAMETERS

LIMIT

Matter volatile substances at 105°C	≤ 0.2 % m/m
Insoluble impurities	≤ 0.05 % m/m
Acid value (mg KOH/g Oil)	≤ 0.6
Free fatty acid (expressed as oleic acid)	≤ 0.15 %
Peroxide value	≤ 10 milliequivalents of active oxygen/Kg oil
Soap content	< 0.005 % m/m

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7. PHYSICAL CRITERIA

PARAMETER	LIMIT
Appearance and colour	Uniform, Transparent, free from sediment, and light to medium yellow colour.
Odour or flavour	Appropriate to the product, odorless, and without bitterness.
Texture	Pale fluid.
Foreign matter	Shall have no foreign matter and rancid odour and taste.
Storage and Transportation Temperature	15°C to 25°C

8. CONTAMINANTS

8.1 The products covered by this Standard shall comply with the Maximum Levels for contaminants that are specified for the product in General Standard for Contaminants and Toxins in Food and Feed (CODEX STAN 193-1995).

8.2 The product covered by this Standard shall comply with maximum residue limits established by Codex Alimentarius (See: CAC / MRL: 2009 Maximum residue Limits (MRLs) for pesticides).

8.3 Polycyclic Aromatic Hydrocarbons (PAH)

PAH Total (sum of benzo(a)pyrene,benz(a)anthracene, benzo(b)fluoranthene and chrysene) ≤ 10 ppb

Benzo(a)pyrene ≤ 2 ppb

9. NUTRITIONAL FACTS (Approximate values per 100 g)

NUTRIENTS	AMOUNT PER 100 g OF PRODUCT (Approximate)
Energy	890 kcal
Fats	100 g

10. PACKAGING

PARAMETER	LIMITS
Primary packaging	Food grade can/plastic container or equivalent recyclable/biodegradable packaging that maintains the integrity, sanitary and organoleptic qualities of the product and withstands the rigor of transport and handling.
Secondary packaging	Corrugated paper box or packing that protects integrity of the primary packages and withstands the rigor of transport and handling.
Primary packaging net weight	1 L to 3 L
Warranty at delivery location	Minimum 4 months

11. LABELLING

11.1. UNSTD-GEN-02 "UN Product Labelling"

12. OTHER REQUIREMENTS

12.1. CODEX-STAN 210-1999, "Codex Standard for named vegetable oils"

12.2. CAC/RCP 68-2009 Code of Practice for the Reduction of Contamination of Food with Polycyclic Aromatic Hydrocarbons (PAH) from smoking and direct drying processes

12.3. UNSTD-GEN-03: "UN Inspection"

12.4. UNSTD-GEN-04: "UN Certification"