

# Material Safety Data Sheet (MSDS)

**Product Name:** Flaxseed Oil

**MSDS Generate Date:** 20-05-2017

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## Supplier:

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## 1. Identification of the Substance and Company

**Product Name:** Flaxseed Oil

**Chemical Name:** Flaxseed Oil / Linseed Oil

**Synonyms:** Linseed Oil, Flax Oil, Linum Usitatissimum Seed Oil

**CAS Number:** 8001-26-1

**Chemical Nature:** Vegetable Fixed Oil

### Recommended Use:

Food and nutritional applications, nutraceutical formulations, dietary supplements, pharmaceutical preparations, cosmetics, personal care products, and industrial applications where the specified grade is suitable.

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## 2. Hazard Identification

**GHS Classification:** Flaxseed Oil is generally not classified as hazardous under the Globally Harmonized System (GHS) when handled under normal conditions. Classification may vary according to the actual grade, additives, impurities, and intended use.

**Potential Health Effects:**

**Inhalation:** Vapors or oil mist generated during heating or processing may cause mild irritation of the respiratory tract.

**Skin Contact:** Prolonged or repeated contact may cause skin irritation or dryness in sensitive individuals.

**Eye Contact:** Direct contact may cause temporary redness, watering, and irritation.

**Ingestion:** Food-grade flaxseed oil is intended for ingestion as directed. Excessive consumption may cause gastrointestinal discomfort.

**Physical Hazards:** Flaxseed oil is a combustible organic liquid. Oil-soaked cloths, rags, paper, or other porous materials may present a fire hazard due to self-heating and possible spontaneous ignition under certain conditions.

**Environmental Hazards:** Avoid uncontrolled discharge into drains, soil, or natural waterways.

**Precautionary Statements:**

- Avoid contact with eyes.
- Avoid prolonged skin contact.
- Avoid inhalation of oil mist.
- Keep away from excessive heat and ignition sources.
- Store and handle oily absorbent materials carefully.
- Keep container tightly closed when not in use.

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### 3. Composition / Information on Ingredients

Flaxseed Oil is a natural fixed vegetable oil obtained from the seeds of *Linum usitatissimum*.

The product consists predominantly of triglycerides of fatty acids, with the principal fatty acid components generally including alpha-linolenic acid (omega-3), linoleic acid (omega-6), oleic acid, palmitic acid, and stearic acid. The exact fatty-acid profile may vary depending on seed variety, processing method, origin, and grade.

The product may contain naturally occurring minor components such as tocopherols, sterols, and other unsaponifiable materials. No hazardous additives are intentionally included unless specifically stated in the product specification.

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### 4. First Aid Measures

**Inhalation:** Move the affected person to fresh air. If irritation or breathing discomfort persists, seek medical attention.

**Skin Contact:** Wash the affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse.

**Eye Contact:** Immediately flush eyes with plenty of clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

**Ingestion:** Rinse mouth with water. For food-grade material, normal ingestion is not expected to require first aid. Seek medical advice if excessive quantities have been consumed or if discomfort develops.

**Most Important Symptoms:** Mild eye irritation, Mild skin irritation after prolonged contact, Respiratory irritation from oil mist, Gastrointestinal discomfort following excessive ingestion.

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## 5. Fire Fighting Measures

**Suitable Extinguishing Media:** Dry chemical powder, Carbon dioxide (CO<sub>2</sub>), Foam, Water spray for cooling surrounding containers.

**Unsuitable Extinguishing Media:** Avoid high-pressure water jets directed at burning oil because they may spread the fire.

**Fire Hazards:** Flaxseed oil is a combustible organic liquid. Heating can produce flammable vapors and decomposition products.

Special care is required with oil-soaked cloths, paper, absorbent materials, and other porous materials because they may self-heat and potentially ignite spontaneously.

**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, smoke, and irritating organic decomposition products may be produced during combustion.

**Protective Equipment:** Firefighters should wear self-contained breathing apparatus (SCBA) and full protective clothing.

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## 6. Accidental Release Measures

### Personal Precautions:

- Avoid direct contact with eyes and skin.
- Avoid slipping hazards caused by spilled oil.
- Keep away from heat, sparks, flames, and other ignition sources.
- Ensure adequate ventilation.
- Wear suitable protective equipment.

**Environmental Precautions:** Prevent large quantities from entering drains, sewers, soil, or natural waterways.

**Cleanup Methods:** Contain the spill using sand, earth, vermiculite, or another suitable inert absorbent. Collect the absorbed oil into suitable, closed containers for recovery or disposal.

Clean the affected surface thoroughly to remove residual oil and eliminate slip hazards.

**Important:** Oil-soaked absorbents, rags, cloths, paper, and similar porous materials should be stored in suitable covered metal containers and managed promptly because self-heating may occur.

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## 7. Handling and Storage

### Handling

- Avoid unnecessary contact with eyes and skin.
- Avoid inhalation of oil mist generated during heating or spraying.
- Keep away from open flames, sparks, and excessive heat.
- Maintain good industrial hygiene.
- Clean spills immediately to prevent slip hazards.
- Keep oil-soaked materials in suitable covered containers.

### Storage

Store in tightly closed containers in a cool, dry, clean, and well-ventilated area.

Protect from direct sunlight, excessive heat, moisture, oxygen exposure, and contamination.

Where product quality requires it, minimize exposure to air and light to reduce oxidation and rancidity.

### Recommended Storage Temperature:

Preferably cool conditions, generally around 15°C to 25°C unless otherwise specified by the product specification.

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## 8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide adequate general ventilation. Use local exhaust ventilation where oil mist or aerosol may be generated.

### Personal Protective Equipment:

- **Respiratory Protection:** Normally not required for routine handling. Use an appropriate respirator where significant oil mist is generated and adequate ventilation is unavailable.
- **Eye Protection:** Safety glasses or chemical splash goggles where splashing is possible.
- **Hand Protection:** Protective gloves, especially during prolonged or repeated contact.
- **Skin Protection:** Suitable protective clothing and footwear as required by workplace conditions.

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## 9. Physical and Chemical Properties

**Appearance:** Clear to slightly hazy yellow to golden-yellow oily liquid

**Odor:** Characteristic mild vegetable oil odor

**Physical State:** Liquid oil

**pH:** Not applicable

**Specific Gravity:** Typically approximately 0.92–0.94 at ambient temperature

**Density:** Approximately 0.92–0.94 g/cm<sup>3</sup> at ambient temperature

**Solubility:** Insoluble or practically insoluble in water; soluble in many organic solvents

**Viscosity:** Varies with temperature and grade

**Melting/Pour Point:** Typically low; exact value depends on grade and fatty-acid composition

**Boiling Point:** Decomposes before or during high-temperature boiling

**Flash Point:** Typically above approximately 200°C; exact value depends on grade and test method

**Auto-Ignition Temperature:** Not established for the specific product

**Explosive Properties:** Not explosive under normal conditions

**Oxidizing Properties:** None

**Vapor Pressure:** Very low at ambient temperature

**Vapor Density:** Not applicable or very low

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## 10. Stability and Reactivity

**Reactivity:** Stable under recommended storage conditions.

**Chemical Stability:** Stable under normal ambient conditions, but the oil is susceptible to oxidation when exposed to air, heat, light, or metals.

**Conditions to Avoid:** Excessive heat, Direct sunlight, Prolonged exposure to air, Strong oxidizing conditions, Contamination, Contact with ignition sources.

**Incompatible Materials:** Strong oxidizing agents and materials that may promote oxidation or decomposition.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, smoke, aldehydes, ketones, and other irritating oxidation or thermal decomposition products may form under severe heating or combustion.

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## 11. Toxicological Information

**Acute Toxicity:** Low acute toxicity expected under normal conditions of use.

**Skin Irritation:** Generally not expected to cause significant irritation; prolonged or repeated contact may cause irritation in sensitive individuals.

**Eye Irritation:** Direct contact may cause temporary irritation and watering.

**Respiratory Effects:** Oil mist may cause respiratory irritation if inhaled in significant quantities.

**Sensitization:** Not generally expected to cause skin sensitization; however, individual sensitivity may vary.

**Carcinogenicity:** Not classified as carcinogenic under normal intended conditions of use.

**Mutagenicity:** No known mutagenic effects are expected from the finished product.

**Reproductive Toxicity:** No specific reproductive toxicity is expected from the finished product under normal intended conditions of use.

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## 12. Ecological Information

**Ecotoxicity:** Large uncontrolled releases may adversely affect aquatic and terrestrial environments by forming an oil film and reducing oxygen transfer.

**Persistence and Degradability:** Vegetable oil is expected to undergo natural biodegradation over time.

**Bioaccumulative Potential:** Significant bioaccumulation of the triglyceride components is not expected.

**Mobility:** The product is immiscible with water and may spread across water surfaces if released.

**Environmental Precautions:** Prevent release into drains, rivers, lakes, groundwater, and soil.

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## 13. Disposal Considerations

Dispose of unused product, contaminated absorbents, and packaging in accordance with applicable local, regional, and national regulations.

Do not discharge significant quantities into drains, sewers, surface water, or soil.

Where permitted, uncontaminated product may be recovered for its intended use.

Oil-contaminated absorbents, cloths, rags, and paper should be collected and disposed of safely. Do not leave oil-soaked porous materials in uncontrolled piles because of the potential for self-heating and ignition.

Contaminated packaging should be emptied and disposed of according to applicable regulations.

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## 14. Transport Information

Flaxseed Oil is generally not classified as dangerous goods for routine transportation under major international transport regulations when supplied as a conventional vegetable oil. It is not normally classified as a corrosive, toxic, or environmentally hazardous transport substance.

Nevertheless, the product is a combustible organic oil, and transportation should be carried out in clean, sealed, compatible containers with protection from excessive heat, direct sunlight, ignition sources, and physical damage.

Particular attention should be given to oil-contaminated rags, cloths, paper, absorbents, and other porous materials because flaxseed oil can undergo oxidative self-heating under suitable conditions.

**UN Number:** Not regulated for typical shipments.

**UN Proper Shipping Name:** Not regulated.

**Transport Hazard Class:** Not regulated.

**Packing Group:** Not applicable.

**Environmental Hazard:** Not normally classified as environmentally hazardous for transport.

**Marine Pollutant:** No, under typical transport classification.

**Road Transport (ADR/RID):** Flaxseed Oil is generally not regulated as dangerous goods for road or rail transport. Transport in clean, dry, tightly sealed food-grade or compatible containers such as drums, bottles, intermediate bulk containers, or approved bulk vessels.

Protect containers from puncture, excessive heat, direct sunlight, contamination, and physical damage.

Cargo should be securely restrained to prevent movement, container damage, and leakage during transportation.

Vehicles should be clean and suitable for the transportation of edible or non-hazardous vegetable oils, as applicable to the product grade.

**Sea Transport (IMDG):** Flaxseed Oil is generally not classified as dangerous goods under the International Maritime Dangerous Goods (IMDG) Code for conventional shipments.

Containers should remain tightly closed and protected from seawater, excessive heat, direct sunlight, contamination, and physical damage. Bulk transportation should use suitable tank equipment designed for edible or technical vegetable oils, as applicable.

Any spilled oil should be prevented from entering the marine environment because significant releases may create an oil film on the water surface.

**Air Transport (IATA):** The product is generally not regulated as dangerous goods under IATA requirements when supplied as conventional flaxseed oil.

Use leak-resistant, securely closed packaging suitable for air transportation. Packaging should be adequately protected against impact, vibration, temperature variation, and leakage.

**Special Transport Precautions:**

- Keep containers tightly closed during transportation.
- Protect from excessive heat and direct sunlight.
- Avoid prolonged exposure to oxygen and high temperatures where product quality is important.
- Prevent physical damage to bottles, drums, and bulk containers.
- Keep away from open flames, sparks, and ignition sources.
- Protect from contamination by chemicals or foreign materials.
- Transport in clean and dry vehicles.
- Secure cargo properly to prevent movement and leakage.
- Clean oil spills immediately because spilled oil creates a slip hazard.
- Store oil-soaked rags, cloths, paper, and absorbents in suitable covered containers and manage them promptly to minimize self-heating and potential fire risk.
- Do not transport damaged, leaking, or badly contaminated containers.

**Transport in Bulk According to MARPOL Annex II and IBC Code:** Not applicable for standard packaged shipments. Bulk transport should be conducted only in suitable vessels or tanks designed for the relevant vegetable-oil grade and in accordance with applicable maritime requirements.

**Emergency Transport Information:** In the event of accidental leakage or spillage during transportation, isolate the affected area and eliminate potential ignition sources. Prevent the oil from entering drains, waterways, or soil. Contain the spill using suitable inert absorbent material and collect it into properly closed containers.

Clean the affected surface thoroughly to remove residual oil and prevent slip hazards.

Oil-soaked cloths, paper, rags, or absorbents should not be left in piles or enclosed spaces where self-heating could occur. Place them in suitable covered containers and manage them promptly in accordance with applicable fire-safety and waste-disposal procedures.

Personnel involved in cleanup should wear suitable gloves, eye protection, protective clothing, and respiratory protection where oil mist or fumes are present.

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## 15. Regulatory Information

- Flaxseed Oil should be handled in accordance with applicable food safety, occupational safety, environmental protection, transportation, and chemical-handling regulations.
- Where supplied as food-grade material, it should also comply with the applicable requirements for edible vegetable oils and the intended country and application.
- The product is generally not classified as hazardous under GHS under normal conditions of use, subject to the actual formulation and grade.

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## 16. Other Information

The information contained in this Material Safety Data Sheet is based on general knowledge of flaxseed oil and is intended to provide guidance for the safe handling, storage, transportation, and disposal of the product.

The exact physical properties, fatty-acid profile, flash point, stability, and quality parameters may vary according to the source of the flaxseed, extraction method, refining process, grade, and storage history. The product specification and Certificate of Analysis should therefore be consulted together with this MSDS.

This MSDS does not constitute a guarantee of product properties or suitability for any particular application. Users are responsible for ensuring compliance with all applicable local, national, and international laws and regulations.

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- **Website:** [www.rawpharmabiz.com](http://www.rawpharmabiz.com)
- MSDS are based on the manufacturer's provided information.