

Linseed Oil

Linseed Oil is supplied in the Oils range for industrial formulation and processing enquiries.
CAS No. 8001-26-1.

DOCUMENT TYPE	Safety Data Sheet (SDS)
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Polyrheo Raw linseed oil

SDS Preparation date 04/06/2024

SAFETY DATA SHEET (SDS)

Section 1. Identification	
1.1 Product identifier	Polyrheo Raw linseed oil
1.2 CAS No (Mixtures)	8001-26-1
1.3 Other means of identification	Biobased flaxseed oil, Naturally occurring triglyceride vegetable oil derived from the seeds of the flax plant, RLO
1.4 Recommended use and restrictions on use	Coatings, Component of wood working/preservation, leather conditioning, animal feed, Food/cooking
1.5 Initial supplier identifier	Polyrheo Inc. 217 Boulevard Brunswick Point Claire, Québec, H9R 4R7, Canada Tel : +1 514 457-5004
1.6 Emergency telephone number/restriction on use	Canada – CANUTEC 24-hour# 613-996-6666
Section 2. Hazard identification	
2.1 Classification of the substance or mixture: Product definition: Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]: Not classified. See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms. 2.2 Label elements:Signal word: No signal word. Hazard statement: No known significant effects or critical hazards. General: Keep out of reach of children. Read label before use. If medical advice is needed, have product container or label at hand. Prevention: Not applicable. Precautionary statements: Response: Not applicable. Storage: Not applicable. Disposal: Dispose of contents and container in accordance with all local, regional, national and International regulations. Supplemental label elements: Not applicable. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles. Not applicable. Special packaging requirements containers to be fitted with child-resistant fastenings Not applicable. Tactile warning of danger: No applicable. 2.3 Other hazards Substance meets the criteria for PBT according to Regulation (EC) No.1907/2006, Annex XIII:	

Not applicable.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:

Not applicable.

Other hazards which do not result in classification:

None known.

Section 3. Composition/information on ingredients

3.1 Substance :

REACH registration notes : Exempt registration under Annex V.

EC number: 232-278-6

Ingredient notes: Non-classified vPvB substance.

Composition comments: This product does not contain any substances classified as Substances of Very High Concern(SVHCs). A naturally occurring triglyceride vegetable oil derived from the seed of the flax plant *Linum usitatissimum*.

3.2 Mixture :

Chemical Entity	CAS Number	Proportion (%)
Linseed Oil	8001-26-1	100

Section 4. First-aid measures

4.1 Description of necessary first-aid measures.

General:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

Inhalation:

Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin:

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners

Eyes:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Ingestion:

If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders :

No action shall be taken involving any personal risk or without suitable training.

Advice to Doctor: Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed:

There are no data available on the mixture itself.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short term and long term exposure by oral inhalation and dermal routes of exposure and eye contact.

Section 5. Fire-fighting measures

5.1. Extinguishing media:

Suitable extinguishing media:

Extinguish with foam, carbon dioxide, dry powder or water fog. Use water spray to cool surfaces exposed to fire and protect personnel.

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards:

Although the product is not classed as oxidizing there is a danger of any cloths contaminated with the oil to self combust. No specific precautions due to the small quantities handled.

Hazardous combustion products:

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentrations.

5.3. Advice for firefighters:

Protective actions during firefighting:

Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Move containers from fire area if it can be done without risk. Use water SPRAY only to cool containers! Do not allow water to contact any leaked material. Keep run-off water out of sewers and water sources. Dike for water control.

Special protective equipment for firefighters:

In case of a large fire or in confined or poorly ventilated spaces, wear full fire-resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Use protective equipment appropriate for surrounding materials.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with spilled or released material. Shut off leaks, if possible, without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Ventilate contaminated area thoroughly.

For non-emergency personnel: No specific advice required.

For emergency responders: Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

6.2 Environmental precautions:

Environmental precautions Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and materials for containment and cleaning up:

For small spills (< 1 drum), dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or appropriate disposal.

Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely in accordance with regional regulations.

Section 7. Handling and storage

7.1 Handling:

General information and precautions on handling:

Avoid contact with skin and eyes. Avoid inhalation of vapour, spray or mist.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8).
Never use pressure to empty. Container is not a pressure vessel.
Always keep in containers made from the same material as the original one.
Comply with the health and safety at work laws.
Do not allow to enter drains or watercourses.

7.2. Conditions for safe storage, including any incompatibilities :

Store in accordance with local regulations.

Notes on joint storage:

Keep away from: oxidising agents, strong alkalis, strong acids.

Storage precautions:

Avoid contact with oxidising agents.

Store in closed original container at temperatures between °C/°F (8-46.4)-(28-82.4).

Additional information on storage conditions:

Observe label precautions. Do not store below the following temperature: 0°C (32°F).

Store in a dry, cool and well-ventilated area. Keep container tightly closed.

No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Section 8. Exposure controls/Personal protection

8.1. Control parameters:

Occupational exposure limits:

According to the Suppliers MSDS this substance has no occupational exposure limit values.

Ingredient comments:

There is no data for the product as a whole.

DNEL:

No data available from supplier of the substances.

Substance not notified on REACH Registration portal.

DMEL:

No data available from the substance supplier.

Substance not notified on REACH Registration portal.

PNEC:

Substance not notified on REACH Registration portal.

No data available from the substance supplier.

Appropriate engineering controls:

Provide adequate ventilation



Eye/face protection:

Chemical splash goggles and face shield.

Hand protection:

Although the product is not classified as a skin irritant, the wearing of gloves is recommended for people with sensitive skin or for prolonged or repeated use. Wear protective gloves made of the following material: Nitrile rubber.

Other skin and body protection:

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures:

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Good personal hygiene procedures should be implemented.

Respiratory protection:

If used in accordance with section 7 of this MSDS the use of respiratory protection should not be required. Respiratory protection may be required if excessive airborne contamination occurs.

Thermal hazards: Not Applicable

Environmental exposure controls:

Keep container tightly sealed when not in use. Store in a demarcated bunded area to prevent release to drains and/or watercourses.

Section 9. Physical and chemical properties

Properties	Specifications
Physical State	Flowable Liquid
Appearance/Color	Light (or pale), Brown
Odor	Oil-like and slightly pungent
Initial Boiling point and Range	No data available
Viscosity °C/°F (25-77) Poise	0.5
Flash point °C/°F	>150-302
Vapor density (Air=1)	>1
Upper/Lower Flammability or Explosive Limit	Not available
Evaporation rate (butyl acetate = 1)	<1
Density g/cm ³	0.993
Relative Density: Water=1 (Liquid)	0.93 to 0.94
Bulk density kg/m ³	933
Solubility	Insoluble: Cold water and hot water Soluble : Aromatic and Aliphatic solvents
Explosive properties	Not explosive (EC A 9, closed cup)
Explosive under the influence of a flame	Not considered to be explosive

Section 10. Stability and reactivity

10.1 Reactivity:

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability:

Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid :

When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials:

Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

10.6 See Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO₂ and can be generated.

Section 11. Toxicological information

11.1. Information on toxicological effects.

Toxicological effects:

No data for the product as a whole. Expected to have a very low order of toxicity.

Acute toxicity - oral

ATE oral (mg/kg) 2,000.01

Acute toxicity - dermal

ATE dermal (mg/kg) 2,000.01

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 20.01

Inhalation: Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.

Ingestion: No specific symptoms known.

Skin contact: Prolonged contact may cause dryness of the skin.

Eye contact: May cause temporary eye irritation.

Route of exposure: Ingestion Skin and/or eye contact.

Target organs: Eyes Skin.

Medical symptoms: Dry skin.

Medical considerations: Skin disorders and allergies.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure

Potential immediate effects: No specific data.

Potential delayed effects: No specific data.

Long term exposure:

Potential immediate effects: No specific data.

Potential delayed effects: No specific data.

Potential chronic health effects:

General: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards

Section 12. Ecological information

Ecotoxicity:

There is no Ecotoxicity data for the product as a whole. Not regarded as dangerous for the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity – fish:

Not considered toxic to fish.

12.2. Persistence and degradability

Persistence and degradability:

By analogy with rapeseed oil expected to be >98% after 21 days when tested to the OECD 301B method.

12.3. Bioaccumulative potential:

No data available on bioaccumulation.

Partition coefficient:

Not applicable.

12.4. Mobility in soil:

Mobility: Not available.

12.5. Results of PBT and vPvB assessment:

This substance is considered not to be PBT and vPvB.

12.6. Other adverse effects:

Not applicable.

Section 13. Disposal considerations

13.1. Waste treatment methods:

General information:

The generation of waste should be minimised or avoided wherever possible. Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.

Disposal methods:

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical. Larger quantities should be treated in a suitable plant or disposed of via a licensed waste disposal contractor. Waste liquid components should be suitable for incineration at an approved facility.

Waste class:

Waste liquid can be classified as organic waste with the European waste code 16 03 05. Waste absorbents and wiping cloths contaminated with linseed oil should be classed as waste code 15 02 03.

Section 14. Transport information

14.1 General: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.2 Labels Required:

14.3 Marine Pollutant : No.

14.4 HAZCHEM: Not Applicable.

14.5 Transport hazard class(es): No transport warning sign required.

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

Transport in bulk according to Annex II of MARPOL and the IBC code : Not Applicable.

Not regulated as a hazardous substance for Transportation:

14.4. Packing group :

Not applicable.

14.5. Environmental hazards:

Environmentally hazardous substance/marine pollutant: No.

14.6. Special precautions for user: Not applicable.

Section 15. Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture :

This substance is to be managed using the conditions specified in an applicable Group Standard.

HSR Number : Not Applicable.

Group Standard : Not Applicable

Hazardous Substance Location :

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
Not Applicable	Not Applicable	Not Applicable

Certified Handler :

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance

Quantities

Not Applicable

Not Applicable

Refer Group Standards for further information.

Tracking Requirements :

Not Applicable.

National Inventory Status :

National Inventory Status.

Australia - AIIC	Yes
Australia - Non-Industrial Use	No (Ingredients determined to be non-hazardous)
Canada - DSL	Yes
Canada - NDSL	No (Ingredients determined to be non-hazardous)
China - IECSC	Yes
Europe -	EINEC / ELINCS / NLP Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	Yes

Legend:

Yes = All CAS declared ingredients are on the inventory.

No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets).

Section 16. Other information

Shelf life: 48 months when properly stored in closed containers.

Disclaimer:

Information provided in this Safety Data Sheet is correct to the best knowledge and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.