

Technical Safety Data Sheet

Raw Linseed Oil

SECTION 1 Identification of the Substance/Mixture and of the Supplier

Product Identifier

Product name: BIO OILS - RAW LINSEED OIL

Botanical name: *Linum Usitatissimum*

Other means of identification: NA

Relevant identified uses: Generally used to protect untreated timber such as cricket bats, as a raw material in putty manufacture, or as a 50:50 blend with turpentine for outdoor timber coatings

Details of the supplier of the safety data sheet

Registered company name: Bio Oils New Zealand Limited

Address: 27 Dobson Street West, Ashburton, Canterbury, 7700, New Zealand

Telephone: +64 3 308 3305

Fax: +64 3 308 1910

Website: www.bio-oils.co.nz

Email: office@bio-oils.co.nz

Emergency Telephone: National Poisons Centre 0800 POISON (0800 764766)

SECTION 2 Hazards identification

Classification of the substance or mixture

Not considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.

Not regulated for transport of Dangerous Goods.

1. GHS Classification: Not Applicable

Label elements

1. GHS label elements: Not Applicable
2. Hazard pictogram(s): Not Applicable
3. Signal word: Not Applicable
4. Hazard statement(s): Not Applicable
5. Precautionary statement(s) Prevention: Not Applicable
6. Precautionary statement(s) Response: Not Applicable
7. Precautionary statement(s) Storage: Not Applicable
8. Precautionary statement(s) Disposal: Not Applicable

SECTION 3 Composition / information on ingredients

Substances/Mixtures

<u>CAS No</u>	<u>%[weight]</u>	<u>Name</u>
8001-26-1	100	linseed oil

SECTION 4 First aid measures

Emergency Telephone: NZ Poisons Centre 0800 POISON (0800 764766). NZ Emergency Services: 111

Description of first aid measures

1. Eye Contact

If this product comes in contact with eyes, wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

2. Skin Contact

If skin contact occurs, immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

3. Inhalation

If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

4. Ingestion

Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

SECTION 5 Firefighting measures

1. Extinguishing media: Foam

2. Special hazards arising from the substance:

Fire Incompatibility - Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

3. Advice for firefighters:

Fire Fighting - Alert Fire Brigade and tell them location and nature of hazard.

Fire/Explosion Hazard - Combustible.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1. Minor Spills

- Clean up all spills immediately. Slippery when spilt.
- Control personal contact with the substance, by using protective equipment.
- Remove all ignition sources.
- Contain and absorb spill with sand, earth, inert material or vermiculite.
- Wipe up. Wash area with soap and water. Take care when cleaning as area will be slippery.
- Place in a suitable, labelled container for waste disposal.

2. Major Spills

- Minor hazard. Slippery when spilt.
- Clear area of personnel.
- Alert Fire Brigade and tell them location and nature of hazard.

- Control personal contact with the substance, by using protective equipment as required.
- Prevent spillage from entering drains or water ways.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.
- Wash area and prevent runoff into drains or waterways.
- If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

1. Safe handling – DO NOT allow clothing wet with material to stay in contact with skin. Rags wet / soaked with unsaturated hydrocarbons / drying oils may auto-oxidise; generate heat and, in-time, smoulder and ignite.
2. Other information - Store in original containers.

Conditions for safe storage, including any incompatibilities

1. Suitable container - Metal, polyethylene or polypropylene container.
2. Storage incompatibility –
 - Stable under normal conditions. Avoid strong oxidisers and incompatible materials.
 - Avoid sources of heat, ignition and open flames.
 - Dispose of oil covered materials eg. cleaning cloths with caution as under certain conditions, spontaneous combustion can occur. Oily rags should be washed regularly and kept away from direct sunlight.

Packaging Material Incompatibilities – Not available

SECTION 8 Exposure controls / personal protection

Control Parameters

1. OCCUPATIONAL EXPOSURE LIMITS (OEL) – Not Available
2. INGREDIENT DATA - Not Available
3. EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Linseed oil	Linseed oil	Not Available	Not Available	Not Available

Exposure Controls

1. Appropriate engineering controls - Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
2. Personal protection
 Eye protection and gloves are recommended when handling.
 Overalls and safe footwear should be worn in commercial production or handling environments.
 Use in a well-ventilated area.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Physical State:	100% oil/liquid
Appearance:	Golden/yellow/brown liquid
Odour:	Characteristic, fatty oil
Acid Value	≤4.5 mg KOH/g
Iodine Value	160 to 200 Wijs
Refractive index	About 1.480
Saponification Value	188 to 195 mg KOH/g
Relative Density	0.92 - 0.93 g/cm ³
Water Content	<0.1%
Boiling Point:	> 316°C
Flash Point:	>230°C
Solubility in Water:	Immiscible
Properties:	Linseed oil is a seed oil with a high portion of unsaturated fatty acids: typically 50 – 60% linolenic acid, 14 - 18% linoleic acid and 14 - 20% oleic acid.

SECTION 10 Stability and reactivity

1. **Reactivity:** See section 7
2. **Chemical stability:** Product is considered stable and hazardous polymerisation will not occur.
3. **Possibility of hazardous reactions:** See section 7
4. **Conditions to avoid:** See section 7
5. **Incompatible materials:** See section 7
6. **Hazardous decomposition products:** See section 5

SECTION 11 Toxicological information

Information on toxicological effects

1. **Inhaled** - The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Not normally a hazard due to non-volatile nature of product
2. **Ingestion** - The material has **NOT** been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
3. **Skin Contact** - The liquid may be able to be mixed with fats or oils and may decrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives.
4. **Eye** - Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
5. **Chronic** - Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless, exposure by all routes should be minimised as a matter of course.

Acute Toxicity X

Skin Irritation/Corrosion X

Serious Eye Damage/Irritation X

Respiratory or Skin sensitisation X

Mutagenicity X

Carcinogenicity X

Reproductivity X

STOT - Single Exposure X

STOT - Repeated Exposure X

Aspiration Hazard X

Legend: X – Data either not available or does not fill the criteria for classification

SECTION 12 Ecological information

1. Toxicity - When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water.
2. Persistence and degradability –
Persistence: Water/Soil: No Data available for all ingredients
Persistence: Air: No Data available for all ingredients
3. Bio accumulative potential - Bioaccumulation: No Data available for all ingredients
4. Mobility in soil - Mobility: No Data available for all ingredients

SECTION 13 Disposal considerations

Waste treatment methods

1. Product / Packaging disposal - Legislation addressing waste disposal requirements may differ by country, state and/ or territory.
2. Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

SECTION 14 Transport information

Labels Required

- | | |
|---------------------|----------------|
| 1. Marine Pollutant | NO |
| 2. HAZCHEM | Not Applicable |

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

SECTION 15 Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard – Not Available

HSR Number

linseed oil (8001-26-1) is
found on the following
regulatory lists

Group Standard

"New Zealand Inventory of Chemicals (NZIoC)"

Hazardous Substance Location

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

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

Certified Handler

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

Class of substance - Not Applicable
Quantities - Not Applicable

Refer Group Standards for further information

SECTION 16 Other information

This document is based on information obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While we have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, we accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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