

SAFETY DATA SHEET

Section 1: Identification of the Substance/Mixture and of the Supplier

Product Name:	Raw Linseed Oil
Proper Shipping Name	RL-Oil
Recommended use:	Timber sealer and protector
Company Details	Biosymph Ltd.
Address:	2287 Kakaramea Road Hamilton. New Zealand
Telephone:	+64 (0)7 829 8606 or +64 (0)22 607 6400
eMail:	admin@biosymph.co.nz
Emergency Telephone:	National Poison Centre(24 hours): 0800 POISON [764 766]
Date of preparation	18 October 2017

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. SIGNAL WORD: Not Applicable
3. Hazard statement(s): Not Applicable
4. Precautionary statement(s) Prevention: Not Applicable
5. Precautionary statement(s) Response: Not Applicable
6. Precautionary statement(s) Storage: Not Applicable
7. Precautionary statement(s) Disposal: Not Applicable

Section 3: Composition / information on Ingredients

Substances / Mixtures

CAS No	%[weight]	Name
8001-26-1	100	linseed oil

Section 4: First Aid Measures

NZ Poisons Centre 0800 POISON (0800 764 766) | 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 substrate or mixture:

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 - Slippery when spilt.

2. Major Spills - Slippery when spilt.

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

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 can or drum. Packaging as recommended by manufacturer.
2. Storage incompatibility - Contact with high pressure oxygen may cause ignition / combustion.

PACKAGE 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	Polymerized linseed oil	6 mg/m ³	66 mg/m ³	400 mg/m ³
Linseed oil	Linseed oil	22 mg/m ³	250 mg/m ³	1500 mg/m ³

Ingredient	Original IDLH	Revised IDLH
linseed oil	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 -



3. Eye and face protection - Safety glasses with side shields.
4. Skin protection - See Hand protection below
5. Hands/feet protection - Wear chemical protective gloves, e.g. PVC.
6. Body protection - See Other protection below
7. Other protection - Overalls.
8. Thermal hazards - Not Available

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

1. Appearance - Pale golden brown/ pale yellow liquid
2. Physical state - Liquid
3. Relative density - 0.92-0.93
4. Odour - Not Available
5. Partition coefficient n-octanol / water - Not Available
6. Odour threshold - Not Available
7. Auto-ignition temperature (°C) - Not Available
8. pH (as supplied) - Not Available
9. Decomposition temperature - >300
10. Melting point / freezing point (°C) - Not Available
11. Viscosity (cSt) - Not Available
12. Initial boiling point and boiling range (°C) - Not Available

13. Molecular weight (g/mol) - Not Available
14. Flash point (°C) - >150
15. Taste - Not Available
16. Evaporation rate - <1 BuAC = 1
17. Explosive properties - Not Available
18. Flammability - Not Applicable
19. Oxidising properties - Not Available
20. Upper Explosive Limit (%) - Not Available
21. Surface Tension (dyn/cm or mN/m) - Not Available
22. Lower Explosive Limit (%) - Not Available
23. Volatile Component (%vol) - 0
24. Vapour pressure (kPa) - Not Available
25. Gas group - Not Available
26. Solubility in water (g/L) - Immiscible
27. pH as a solution(1%) - Not Available
28. Vapour density - >1
29. VOC g/L - 0

Section 10: Stability and Reactivity

1. Reactivity - See section 7
2. Chemical stability - Unstable in the presence of incompatible materials.
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).
2. Ingestion - The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion".
3. Skin Contact - Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.
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 - Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

linseed oil

TOXICITY

Oral (Rat) LD50: >2000 mg/kg *

Not Available

IRRITATION

Skin (human):300 mg/3days-moderate

Not Available

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). * Akzo Nobel SDS

Section 12: Ecological Information

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.

Persistence and degradability

Linseed Oil	Persistence: Water/Soil No Data available for all ingredients	Persistence: Air No Data available for all ingredients
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Bioaccumulative potential

Linseed Oil	Bioaccumulation No Data available for all ingredients
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Mobility in soil

Linseed Oil	Mobility No Data available for all ingredients
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Section 13: Disposal Consideration

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 73 / 78 and the IBC code

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	linseed oil	Y

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 – Not Available

HSR Number

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

Group Standard

"New Zealand Inventory of Chemicals (NZIoC)"

Location Test Certificate

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations a location test certificate is required when quantity greater than or equal to those indicated below are present.

Hazard Class - Not Applicable

Quantity beyond which controls apply for closed containers - Not Applicable

Quantity beyond which controls apply when use occurring in open containers - Not Applicable

Approved Handler

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

Class of substance - Not Applicable

Quantities - Not Applicable

Section 16: Other Information**Disclaimer**

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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