

Safety Data Sheet

Pale Refined Linseed Oil

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Pale Refined Linseed Oil

Substance name : Linseed oil

CAS-No. : 8001-26-1

EC-No. : 232-278-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-
stance/Mixture : Paint additive, Wood preservatives

Recommended restrictions
on use : Not applicable

1.3 Details of the supplier of the safety data sheet

Company : Michael Harding Art Formulas Ltd
Unit K Springvale Ind Est
Cwmbran
NP44 5BE

Telephone : +44 (0) 1633 484700

E-mail address : accounts@michaelharding.co.uk

1.4 Emergency telephone number

Tel.: +44 (0) 1633 484700 Opening hours Mon-Thur 08:00-16:30, Fri 08:00-15:30

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent

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SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Linseed oil
CAS-No. : 8001-26-1
EC-No. : 232-278-6

Components

No hazardous ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

In case of eye contact : Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry chemical
Carbon dioxide (CO₂)
Sand

Unsuitable extinguishing media : High volume water jet

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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Carbon oxides
Acrolein

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods : In the event of fire, cool tanks with water spray.

Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use non-slip safety shoes in areas where spills or leaks can occur.
Contaminated surfaces will be extremely slippery.

6.2 Environmental precautions

Environmental precautions : Prevent spreading over a wide area (e.g. by containment or oil barriers).
Do not allow uncontrolled discharge of product into the environment.
Do not flush into surface water.
Remove from surface water (e.g. by skimming or siphoning).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Collect as much of the spill as possible with a suitable absorbent material.
Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

In very fine dispersion in contact with air possible danger of

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self ignition.
Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously a few hours later.
To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water.

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

Recommended storage temperature : 10 - 30 °C

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye protection : If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Skin and body protection : Work uniform or laboratory coat.

Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Appearance	: liquid
Colour	: yellow
Odour	: characteristic
pH	: not determined
Melting point/freezing point	: -20 °C
Setting point	ca. -13 °C
Boiling point/boiling range	: > 350 °C Decomposition at boiling point.
Flash point	: 222 °C
Evaporation rate	: not determined
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined
Vapour pressure	: not determined
Density	: 0.926 - 0.933 g/cm ³ (20 °C) Method: ISO 2811-3
Solubility(ies) Water solubility	: < 0.001 g/l (20 °C)
Partition coefficient: n-octanol/water	: log Pow: > 3
Viscosity Viscosity, dynamic	: 45 - 50 mPas (20 °C) Method: ISO 12058-1
Viscosity, kinematic	: No data available

9.2 Other information

Flammability (liquids)	: Sustains combustion
Self-ignition	: In very fine dispersion in contact with air possible danger of self ignition.

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.
In very fine dispersion in contact with air possible danger of self ignition.

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10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

Risk of self-combustion from drying oils on used towels/rags.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
Strong acids and strong bases

10.6 Hazardous decomposition products

Carbon dioxide (CO₂)

Carbon monoxide

Acrolein

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg
Remarks: Expert judgement

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation

Product:

Result : No skin irritation
Remarks : Expert judgement

Serious eye damage/eye irritation

Product:

Result : No eye irritation
Remarks : Expert judgement

Respiratory or skin sensitisation

Product:

Result : Does not cause skin sensitisation.
Remarks : Expert judgement

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Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Carcinogenicity

Product:

Remarks : No data available

Reproductive toxicity

Product:

Effects on foetal development : General Toxicity Maternal: NOAEL: > 2,000
Result: No teratogenic effects
Remarks: Based on data from similar materials

STOT - single exposure

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

STOT - repeated exposure

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Species : Rat
NOAEL : > 2,500 mg/kg
Application Route : Ingestion
Remarks : Based on data from similar materials

Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

Product:

Remarks : No data available

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SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/L
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic plants : Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms : EC10 (Pseudomonas putida): 67,000 mg/L

12.2 Persistence and degradability

Product:

Biodegradability : Result: rapidly biodegradable

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Bioconcentration factor (BCF): < 10

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: No data available

Stability in soil : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent.

12.6 Other adverse effects

Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
The product should not be allowed to enter drains, water courses or the soil.

Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously a few hours later.

To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (A) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament : Not applicable

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ment and the Council concerning the export and import of dangerous chemicals

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving da : Not applicable

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous

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Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

GB / 6N