Safety Data Sheet
Linseed Stand Oil

Version
1.0

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

1.1 Product identifier

Trade name	:	Linseed Stand Oil 50-55 dPa s
Substance name	:	Linseed oil, polymerized
CAS-No.	:	67746-08-1
EC-No.	:	614-114-9

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

Use of the Substance/Mixture	:	Paint additive, Wood preservatives

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 persisten

SECTION 3: Composition/information on ingredients

3.1 Substances

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Substance name	:	Linseed oil, polymerized
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EC-No.	:	614-114-9

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	:	Remove person to fresh air. If signs/symptoms continue, get medical attention. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	Wash off with warm water and soap.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. 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	:	Carbon dioxide (CO2) Sand Dry powder

Foam

Unsuitable extinguishing media : High volume water jet

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.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use a water spray to cool fully closed containers.

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.
Mark the contaminated area with signs and prevent access to unauthorized personnel.

6.2 Environmental precautions

Environmental precautions : Prevent spreading over a wide area (e.g. by containment or oil barriers).
Remove from surface water (e.g. by skimming or siphoning).

Prevent further leakage or spillage if safe to do so.
Do not allow contact with soil, surface or ground water.
If the product contaminates rivers and lakes or drains inform respective authorities.

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.

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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. Dispose of rinse water in accordance with local and national regulations. In very fine dispersion in contact with air possible danger of 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 product and empty container away from heat and sources of ignition. Normal measures for preventive fire protection.
Hygiene measures	:	Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. 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.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Linseed oil, polymd.	Workers	Inhalation	Long-term systemic	1.76 mg/m3

			effects	
	Workers	Skin contact	Long-term systemic effects	5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0.43 mg/m3
	Consumers	Skin contact	Long-term systemic effects	2.5 mg/kg
	Consumers	Ingestion	Long-term systemic effects	0.25 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Hand protection
Material : Nitrile rubber

Remarks : Protective gloves

Skin and body protection : Work uniform or laboratory coat.

Respiratory protection : No personal respiratory protective equipment normally required.
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : viscous

Colour : light yellow

Odour : characteristic

pH : Not applicable

Melting point/range : -42 °C
(1,013 hPa)

Boiling point/boiling range : Decomposition at boiling point.

Flash point : > 328 °C

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Vapour pressure	:	0.000133 hPa (20 °C)
Density	:	0.95 - 0.97 g/cm3 (20 °C) Method: ISO 2811-3
Solubility(ies)		
Water solubility	:	0.001 g/l (20 °C)
Partition coefficient: n-octanol/water	:	log Pow: 6 (20 °C)
Viscosity		
Viscosity, dynamic	:	ca. 5,000 - 5,500 mPas (20 °C) Method: ISO 12058-1
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive

9.2 Other information

Flammability (liquids)	:	Sustains combustion
Self-ignition	:	425 °C 1,013 hPa

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.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed.

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): > 4,897 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LD50 Dermal (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Method	:	OECD Test Guideline 431
Result	:	No skin irritation

Serious eye damage/eye irritation

Product:

Method	:	OECD Test Guideline 437
Result	:	No eye irritation

Respiratory or skin sensitisation

Product:

Test Type	:	Local lymph node assay (LLNA)
Method	:	OECD Test Guideline 429
Result	:	Does not cause skin sensitisation.

Germ cell mutagenicity

Product:

Genotoxicity in vitro	:	Test Type: Ames test Method: OECD Test Guideline 471 Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Test Type: gene mutation test

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Method: OECD Test Guideline 476
Result: negative

Carcinogenicity

Product:

Remarks : No data available

Reproductive toxicity

Product:

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Developmental Toxicity: NOAEL: 150 mg/kg body weight
Method: OECD Test Guideline 421
Remarks: Not classified due to inconclusive data.

STOT - single exposure

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single 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 : > 1,000 mg/kg
Application Route : Ingestion
Method : OECD Test Guideline 422

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	:	EL50 (Daphnia magna (Water flea)): > 100 mg/L Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/L Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC50 (activated sludge): > 100 mg/L Exposure time: 3 h Method: OECD Test Guideline 209

12.2 Persistence and degradability

Product:

Biodegradability	:	Result: Not readily biodegradable. Method: OECD Test Guideline 301D

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

Product:

Distribution among environmental compartments	:	log Koc: > 4.96 Method: QSAR Remarks: The product is insoluble and floats on water.

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 persisten.

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.

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 remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

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.

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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
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
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	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; AIIC - 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 Stand-

ardization; 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 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