

# SAFETY DATA SHEET

Issue date: 24 Sep. 2012 Supersedes: 10 Feb. 2010

Section 1: Identification of the substance/mixture and of the

company/undertaking

1.1. Product identifier	Linseed Oil
REACH registry number	Exempted from registration
CAS number	8001-26-1
EC number	232-278-6
1.2 Relevant identified uses of	For diluting linseed oil paint or surface treatment of
the substance or mixture and	painted or unpainted surfaces.
uses advised against	This MSDS is for both raw and boiled linseed oil
	Sector Use - SU:
	SU19 Building and construction work
	SU20 Health services
	SU21 Private households (= general public = consumers)
	SU22 Professional uses: Public domain
	Chemical Product Category: PC9a Coatings and paints
	Process categories [PROC]: PROC10 Roller application
	or brushing
	Environmental Release Categories:
	ERC 8C Wide dispersive indoor use resulting in inclusion
	into or onto a matrix (paint)
	ERC 8F Wide dispersive outdoor use resulting in inclusion
	into or onto a matrix (paint)
1.3 Details of the supplier of the	
safety data sheet	
Supplier/Importer EU	Allbäck Linoljeprodukter AB
Address	Östra Balkåkravägen 18
	SE-271 91 Ystad
	Sweden
Telephone number	+46-411-606 02
Fax	+46-411-602 41
Contact person	Sonja Allbäck
e-post	allback@allbackpaint.com
1.4 Emergency telephone	24 hours service is available at NHS Direct in UK:
number	Phone 0845 46 47 or call 112 or 999
	See. www.nhsdirect.nhs.uk
MSDS issued by	Ann Martens, Ramböll Sverige AB,
	+46 (0)10-615 54 47

# Section 2: Hazards identification

2.1 Classification of the substance or mixture Not classified as hazardous for health or environment.



#### 2.2 Label elements

No hazard label required.

Other label required according to DSD

"Interior and exterior minimal build woodstains, category f, VOC < 38 g/l. Limit Phase II, from 2010." Eller?

#### 2.3 Other hazards

Risk for spontaneous combustion if the linseed oil is absorbed by porous organic material (cotton waste or rag). This oxidation, which give rise to heat, can happen even at room temperature, but raised temperature increases the risk.

### Section 3: Composition/information on ingredients

#### 3.1 Substances

#### 3.2 Mixtures

EC-no	CAS-no	Reg-	Name of	Conc.	Classification	Com.
		no	component	wt/wt		
		REACH				
232-	8001-26-	See	Linseed oil	100 %	-	-
278-6	1	section 16				
240-	15956-	Not	2-Ethylhexanoic acid,	0,07	CLP: Skin Irrit 2,	
085-3	58-8	known	manganese salt	mg/litre	H315	
			(only in boiled	paint	DSD:	
			linseed oil)		Xi; R38	

Explanation of abbreviations:

CAS-nr. = Chemical Abstracts Service; EU-nr (Einecs- or Elincsnumber) = European Inventory of Existing Commercial Chemical Substances or European Llst of Notified Chemical Substances, DSD = Dangerous Substance Directive. CLP = Regulation Classification and Labelling of Packages.

Content specified as; %, %wt/wt, %vol/wt, %vol/vol, mg/m³, ppb, ppm, wt%, vol%.

WEL = The product have a workplace exposure limit, PBT = The product is declared since it 's a PBT- or a vPvB-substance.

Comments: Linseed oil contains mainly natural triglycerides from oleic, linoleic, cetylic acid, linolenic acid and stearic acid. CAS 8554-56-3 is also possible for the product.

For risk phrases in plain text, see section 16.

#### Section 4: First aid measures

4.1 Description of first aid	
measures	
Inhalation	Not relevant, except when spraying the product. If
	irritation occurs, move to fresh air and rest.
Skin contact	Wash the skin with water and linseed soap.
Eye contact	Remove contact lenses. Rinse the eyes for a couple of
	minutes. If symptoms persist, seek a physician.
Ingestion	Drink copious amounts of milk. The product is a laxative

<sup>&</sup>quot;Safety data sheet for professional users available upon request"



	in large amounts, but no risk for intoxication.
4.2 Most important symptoms	
and effects, both acute and	
delayed	
Inhalation	May cause some transient irritation to the respiratory
	tract.
Skin contact	Has no effect on skin.
Eye contact	Can give transient mild irritation.
Ingestion	Laxative.
4.3. Indication of any immediate	Access to water for rinsing eyes at the working place.
medical attention and special	
treatment needed	

# Section 5: Firefighting measures

E 1 Extinguishing modia	
5.1 Extinguishing media	
a. Recommended Extinguishing	a. Extinguish with foam, carbon dioxide, powder or water
media	spray depending on what is burning
b. Not Recommended Extinguishing	b. Foam containing substances that are harmful for the
media	environment, i.e. Perfluoro octane sulfonate (PFOS) and
	Nonyl ethoxylate
5.2 Special hazards arising from	None
the substance or mixture	
5.3 Advise for firefighters	Wear self-contained breathing apparatus for fire fighting
	if necessary.

# Section 6: Accidental release measures

6.1 Personal precautions,	
protective equipment and	
emergency procedures	
6.1.1. For non-emergency personnel	For personal protection equipment see section 8. Wash
	skin or contaminated clothes with water.
6.1.2 For emergency responders	Wash with water.
6.2 Environment precautions	Prevent discharge to the sewage system.
6.3 Methods and material for	Make embankments with sand or other inert absorbent
containment and cleaning up	and collect. Small amounts can be washed away with
6.3.1. Surrounding embankment	water. The product is easily biodegradable in nature.
/sealing	
6.3.2 Recommended cleaning up	
measures	
6.3.3 Non-recommended measures	
6.4 Reference to other sections	For personal protection see section 8. For disposal of
	waste, see section 13.

# Section 7: Handling and storage

7.1 Precaution for safe handling	Avoid spills and prevent large quantities of the product to
	reach sewage system or surface water. Avoid eating,



	drinking and smoking in the working area. Wash hands after using the product. Remove contaminated clothing before meals.
7.2 Condition for safe storage,	Store the product at room temperature. Store out of
including any incompatibilities	reach of children and away from food.
7.3 Specific end use(s)	No specific end uses.

# Section 8: Exposure controls/personal protection

#### 8.1 Control parameters

National occupational exposure limits values, EH 40, 2005 with updates No workplace exposure values for lined oil.

PNEC and DNEL/DMEL not established for linseed oil.

Biological limit values	None
Recommended surveillance	None
procedure	

8.2 Exposure controls

0.2 Exposure controls	
8.2.1 Recommended technical	None
control measures	
8.2.2 Individual protection	
measures, e.g. personal	
protection equipment	
Eye/face protection	None. When spraying the product, use safety goggles.
Skin protection	i) None.
i) Hand protection (material,	ii) Normal working clothes. No special protection
thickness, breakthrough time)	
ii) Other protection	
Respiratory protection	If spraying the product, use a half mask with particle
	filter P2.
8.2.3 Environmental exposure	Avoid large leakage to surface water or sewage system
limits	

# Section 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance/Form /State	Liquid
Odour	Characteristic linseed oil.
рН	8.5-9
Melting point/freezing point	Appr19 ℃
Initial boiling point and boiling	Appr. 316 °C
range	
Flash point	206 ℃
Evaporation rate	Not determined
Flammability	Not determined
Sel ignition temperature	343 ℃
Upper/lower flammability or	Not determined



explosive limits	
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	0.99 kg/l
Solubility	Linseed oil will only emulsify in water. Low water
	solubility <1 g/l. The product is partly soluble in several
	solvents, but it is not recommended to mix with organic
	solvents.
Partition coefficient n-	Not determined
octanol/water	
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	None
Oxidizing properties	None
VOC content	< 38 g/l

#### 9.2 Other information

Emission Factor, Volatile organic	64 μg/(m <sup>2</sup> xh) after 4 drying time of linseed oil paint (pure
compounds, TVOC	linseed oil is not tested), 18 µg/(m²xh) after 26 week
	drying time.

# Section 10: Stability and reactivity

10.1 Reactivity	The product is not reactive during normal handling and
	storage conditions.
10.2 Chemical stability	Stable at normal storing conditions
10.3 Possibility of hazardous	None
reactions	
10.4 Conditions to avoid	Do not store above normal room temperature.
10.5 Incompatible materials	Strong acids, bases and oxidizing agents.
10.6 Hazardous decomposition	None
products	

# Section 11: Toxicological information

#### Substances

11.1 Information on toxicological effects

#### a) Acute toxicity

Short term exposureLinseed oil LD50, rat > 15000 mg/kg body weight.

Ingestion: The product is probably a mild laxative and ingestion of small amounts will not give any symptoms.

Inhalation: Not relevant. Only a risk when spraying the product. The product could in this case cause minor irritation to respiratory tracts.

Eye contact: Could cause mild transient irritation if contact with the eyes

Skin contact: Gives no effect on the skin

Long term exposure: Ingestion: No known effect.

Inhalation: If spraying the product mild irritation of respiratory tracts.



Eye contact: Repeated exposure may cause irritation to the eyes, but will probably not give any remaining effect on the eye.

Skin contact: Repeated contact might dry the skin and cause irritation or atopic eczema, but during normal use the risk is low.

- b) Skin corrosion/irritation: The product i not corrosive to the skin.
- c) Serious eye damage/irritation:

The product will not give serious eye damage or eye irritation.

- d) Respiratory or skin sensitisation: The product is not sensitizing. There is no known sensitizing effect of linseed oil, but no data is found.
- e) Germ cell mutagenicity: No known effects.
- f) Carcinogenicity: No known effects.
- g) Reproductive toxicity: No known effects.
- h) STOT-single exposure No known effects.
- i) STOT-repeated exposures No known effects.
- j) Aspiration hazard No known effects.
- k) Other information -

### Section 12: Ecological information

#### 12.1 Toxicity

Acute toxicity:

Linseed oil has probably low toxicity for aquatic organisms.

Long term toxicity: The product will probably not have any adverse long term effect for the aquatic environment, but data is lacking.

Terrestrial organisms: The product is probably not harmful for terrestrial organism, but data is lacking.

Plants: The product is probably relatively harmless for plants, but data is lacking.

Effects on micro-organisms living in wastewater treatment plants

The product has no known effect on microorganism living in wastewater treatment plants.

#### 12.2 Persistence and degradability

The product is probably easily degradable, but data is lacking.

#### 12.3 Bioaccumulative potential

The product will not bioaccumulate.

#### 12.4 Mobility in soil

The product is water soluble but probably easily degradable and thus the mobility in soil will not be so high.

#### 12.5 Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substance.

#### 12.6 Other adverse effects

None known.



# Section 13: Disposal consideration

13.1 Waste treatment methods	a) Emptied plastic package are sorted as hard plastic.
	The packaging material consists of polypropylene.
	The product could be incinerated in a suitable
	incineration plant holding a permit delivered by the
	competent authorities.
	b) There are no physical/chemical properties that may
	affect the waste treatment solutions.
	c) Larger residues should not be released to the
	sewage system. No special security measures
	concerning waste treatment methods are needed.
	<u> </u>
Waste codes (EWC)	Depends where the waste is produced, but suitable
	codes are 07 01 99 or 08 01 17.
The product is classified as	No.
hazardous waste	
Waste codes (EWC) for the	A suitable code for the package is 20 01 39.
container	
A not thoroughly cleaned container	No
is considered dangerous waste	
Other information	See section 8 for personal protection during disposal of
	waste.

# Section 14: Transport information

General	Not classified as hazardous goods
14.1 UN number	-
14.2 UN Proper Shipping Name	-
14.3 Transport hazard class(es)	-
14.4 Packing group	-
14.5 Environmental hazards	-
14.6 Special precautions for users	-
14.7 Transport in bulk according to	The product is not transported in bulk, but if it will
Annex II of MARPOL 73/78 and the	happen in the future this product is listed in Annex II
IBC code	of the Marpol convention.
	Vegetable oil floating on water is also listed as IMO
	category 2. Vegetable oils pollution category Y, ship
	type 2.

# Section 15: Regulatory information

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

No relevant.

#### 15.2 Chemical safety assessment

Chemical safety assessment is not made for linseed oil as it is exempted from registration according to REACH.



### Section 16: Other information

This MSDS is changed in the following sections: Section 3: New CAS number and classification for the manganese salt. Skriv att bladet är upprättat utifrån CLP och som en följd finns det ändringar under de flesta avsnitt.

Hazard and Precautionary statements from section 2 and 3 in plain text (CLP): Skin Irrit 2 = Skin corrosion/irritation, Category 2 H315 Causes skin irritation

Risk and Safety phrases from section 2 and 3 in plain text DSD 67/548/EEC: Xi = Irritant R38 Irritating to skin.

VOC is determined according to ISO 11890-2. The volatile VOC will probably remain in the colour due to cross-binding reactions. This has been shown in emission measurements during painting with linseed oil paint.

#### Sources for data in this MSDS

- Prevent Database Chemical substances (http://kemi.prevent.se/)
- Toxnet, http://toxnet.nlm.nih.gov/
- ECHA, Guidance on information requirements and chemical safety assessment: Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system.

#### Other information:

Linseed oil is exempted from registration according to REACH Annex V. See regulation EC 987/2008.

The safety data sheet is based on the REACH regulation EC 1907/2006 and the regulation EU 453/2010. Classification according to both the CLP regulation EC 1272/2008 and directives 67/548/EEC and 1999/45/EC. Names in section 3 are given either according to harmonised classified substances in Annex VI, CLP regulation EC/1272/2008, IUPAC name or other common used named chosen by the supplier. See article 18 in the CLP regulation.