



# SAFETY DATA SHEET

Issue date 30 Nov. 2007

Supersedes 22 Jun. 2006

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

<b>Product name</b>	<b>Linseed oil putty</b>
	This MSDS is for both raw and boiled linseed oil
Use	For diluting linseed paint or surface treatment of unpainted or painted surfaces.
<b>Manufacture/responsible import within the EEA.</b>	Allbäck Linoljeprodukter AB
Address	Östra Balkåkravägen 18 SE-271 91 Ystad Sweden
Phone	+46-(0)411-606 02
Fax	+46-(0)411- 602 41
e-mail	allback@allbackpaint.com
Contact	Sonja Allbäck
<b>Emergency phone</b>	The UK National Poisons Information Service 0121 507 4123 Birmingham, other times 112 or 999 Additional phone numbers could be found at: <a href="http://www.npis.org">www.npis.org</a>
Issued by	Ann Martens, Ramböll Sweden AB
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## 2. HAZARDS IDENTIFICATION

### Classification:

Not classified as hazardous for health or environment.

### Most important hazards:

Risk for spontaneous combustion if linseed oil putty 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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

EC-no	CAS-no	Components name	Conc.	Classification	Comment
232-278-6	8001-26-1	Linseed oil, raw	35-55 %	--	OEL
207-439-9	471-34-1	Calcium carbonate	65-45 %	--	--

Explanation of abbreviations:

CAS-no = Chemical Abstracts Service; EU (Einecs- or Elincs number) = European inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances.

Content given in either %, %weight/weight, %vol/weight, %vol/vol, mg/m<sup>3</sup>, ppb, ppm, weight%, vol%;

T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, E = Explosive, O = Oxidizing, F+ = Extremely flammable, F = Highly flammable, N = Dangerous for the environment, Canc. = Carcinogen, Mut = Mutagen, Rep = Toxic to Reproduction



OEL = The product has an occupational exposure limit, PBT = The product is a PBT or vPvB substance.

Comments: Substances are declared according to directive 99/45/EG and amendments.  
 Linseed oil contains mainly of natural triglycerides from oleic, linoleic, cetylic acid, linolenic acid and stearic acid

For risk phrases in full text see section 16.

#### 4. FIRST AID MEASURES

<b>Inhalation</b>	Not relevant with this product.
<b>Skin contact</b>	Wash the skin with soap or linseed oil soap and water.
<b>Eye Contact</b>	Remove contact lenses. Rinse the eyes for a couple of minutes. If symptoms persist, seek a physician.
<b>Ingestion</b>	Drink copious amount of milk or water. The product is a laxative in large amounts, but no risk for intoxication.
<b>First aid equipment</b>	Access to water for rinsing eyes at the working place.

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide, powder, water spray.
<b>Extinguishing media which must not be used for safety reasons</b>	Water jet.
<b>Fire and explosion hazards</b>	Self extinguishing at 343°C. Avoid smoke from the combustion.
<b>Special protective equipment for fire-fighters</b>	Wear self contained breathing apparatus for fire fighting if necessary.
<b>Other information</b>	Remove combustible material, Cool surfaces and containers exposed to fire.
<b>ADR. If fire during transport</b>	Switch of the motor. Keep away ignition sources. Fire extinguisher should be present during transportation.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Measurements for personal protection</b>	Wash with soap or linseed oil soap and water.
<b>Measurements for environmental protection.</b>	The product can be removed mechanically.
<b>Methods for cleaning up.</b>	Make embankments with sand, soil or similar and collect. Small amounts could be washed away with water. The product is not hazardous waste and is easily biodegradable in nature.
<b>Not suitable cleaning methods.</b>	If organic fibrous material is used for cleaning it is a fire risk and the material should be soaked in water.
<b>Measurement when accident during transport. ADR</b>	Switch of the motor. Keep away ignition sources. Make embankments as above.



## 7. HANDLING AND STORAGE

<b>Handling</b>	Be aware of fire hazard in porous organic materials. Immerse rags in water.
<b>Storage</b>	Store at room temperature. Keep away from children.
<b>Preventing action</b>	None
<b>Specific use</b>	See point 1

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National Occupational Exposure Limits, EH40

There is not any occupational exposure value relevant for this product.

<b>Recommended monitoring procedures</b>	None
<b>Technical Measures/ Precautions</b>	Good ventilation during drying. The product demands oxygen when drying and therefore air thoroughly.
<b>Respiratory protection</b>	None when painting. If polishing or grinding dried product a dust mask could be used. If occupational exposure value is surpassed use half mask with particle filter and filter A.
<b>Hand protection</b>	None
<b>Material/Permeation time</b>	
<b>Eye protection</b>	None
<b>Skin protection</b>	Normal working clothes. No special protection

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance/State of aggregation</b>	Paste
<b>Colour</b>	Light grey brown
<b>Odour</b>	Linseed
<b>Density</b>	appr. 2 kg/l
<b>Boiling point</b>	349 °C (linseed oil)
<b>Melting point</b>	-19°C (linseed oil)
<b>Flash point</b>	222°C (linseed oil)
<b>Auto ignition temperature</b>	343°C (linseed oil)
<b>Oxidizing properties</b>	Oxidizing. Can self ignite in porous materials
<b>Solubility in water</b>	Can only emulsify and is not soluble in water.
<b>Solubility in other solvents</b>	The product is partially soluble in many solvents, but it is not recommended to mix with solvents.
<b>VOC content</b>	<5 g/l
<b>Emission factor, Total volatile organic compounds, TVOC</b>	64 µg/(m <sup>2</sup> xh) after 4 week of drying time of linseed oil paint (pure linseed oil is not tested). 18 µg/(m <sup>2</sup> xh) after 26 weeks of drying time oil paint. Linseed oil putty is not tested.



## 10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Do not store above room temperature and not below 4°C
<b>Material to avoid</b>	Strong acids, bases and oxidizing agents. It reacts violently with hypochlorite.
<b>Hazardous decomposition products</b>	None
<b>Stability</b>	Stable at normal storage conditions

## 11. TOXICOLOGICAL INFORMATION

**General information:** Linseed oil is a common animal nutrition additive and has no known toxicological hazards. There are even some studies that indicate positive health effects of new pressed linseed oil. The added calcium carbonate makes it however unsuitable to ingest.

**Inhalation:** Not relevant for the product. The product consumes oxygen when drying and good ventilation is necessary. If inferior ventilation exists, there is a risk for headache.

**Skin contact:** Repeated contact might dry the skin, but during normal use there is no hazard.

**Acute toxicity:** Linseed oil: >15000 mg/kg body weight.

**Ingestion:** Linseed oil is a laxative, but single ingestion will not give rise to any hazard.

**Sensitization:** Not a sensitizer.

**Carcinogenic effects:** None known.

**Reproductive toxicity:** None known.

**Mutagenic effects:** None known.

## 12. ECOLOGICAL INFORMATION

**Acute toxicity for aquatic organisms (OECD):** The product is not toxic to aquatic organisms.

**Persistency and biodegradation:** The linseed oil is easily biodegradable.

**Bioaccumulation:** The product will not bioaccumulate.

**PBT Assessment:** The product does not contain any PBT or vPvB substance.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste code EWC</b>	Depends where the waste is produced, but suitable codes are 02 02 03, 20 01 28 or 08 01 14.
<b>The product is hazardous waste</b>	No
<b>Package disposal</b>	Can be sorted as plastic (polypropylene) if properly cleaned.
<b>Suitable disposal measurements</b>	Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

## 14. TRANSPORT INFORMATION

<b>General</b>	Not classified as hazardous goods
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## 15. REGULATORY INFORMATION

**Labelling Symbols:** No hazard label required.



**Classification:** Not classified as hazardous for health or environment.

**Labelling package:**

"Safety data sheet for professional users available upon request"

## 16. OTHER INFORMATION

**This MSDS is changed in the following sections:**

MSDS changed according to REACH regulation, e.g. Section 2 and 3.

Also changes in section 8, 9,13,15,16

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**

MSDS from supplier of ingredients for this product.

IUCLID (International Uniform Chemical Information Database) Chemical Data Sheets, Data base European commission

ESIS (European chemical Substances Information System).

Prevent, Chemical Substances database, (<http://kemi.prevent.se/>)

**Other information:**

The safety data sheet is based on Annex II of the REACH regulation 1907/2006/EC and other appropriate directives for classification and labelling like 67/548/EEC and 1999/45/EC.