



SAFETY DATA SHEET

Issue date 22 Jun. 2006

Version 1

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

Product name	Linseed oil putty
Use	For mending cracks in wood, concrete and other materials.
Manufacture/responsible import within the EES	Allbäck Linoljeprodukter AB
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Phone	+46-(0)411-606 02
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Contact	Sonja Allbäck
Emergency phone	The UK National Poisons Information Service 0121 507 4123 Birmingham, other times 112 or 999 Or look for more phone numbers at: www.npis.org
Issued by	Ann Martens, Ramböll Sweden AB
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2. COMPOSITION/INFORMATION ON INGREDIENTS

EU-no	CAS-no	Components name	Conc.	Classification	R phrases
232-278-6	8001-26-1	Linseed oil, raw	35-55%	--	--
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 Content give in either %, %weigh/weigh, %vol/weigh, %vol/vol, mg/m³, 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

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 point 16.

3. HAZARDS IDENTIFICATION

Classification:

Not classified as hazardous for health or environment.

Most important hazards:



Risk for spontaneous combustion if 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.

4. FIRST AID MEASURES

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

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Measurements for personal protection	Wash with linseed soap and water.
Measurements for environmental protection.	The product can be removed mechanically.
Methods for cleaning up.	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.
Not suitable cleaning methods.	If organic porous material is used for cleaning it give rise to a fire risk and the material should be soaked in water.
Measurement when accident during transport. ADR	Switch of the motor. Keep away ignition sources. Make embankments as above.



7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Occupational Exposure Limits

EU-no	CAS-no	Substance name	OES 8 h	MEL 5 min	OES 15 min	Year
		Oil mist	3 mg/m ³	-	3 mg/m ³	1990 Swedish value
		Oil mist	5 mg/m ³	-	10 mg/m ³ (10 min.)	UK value

The UK value is only for mineral oil, but the Swedish value is for all kind of oils. It is however wise not to exceed the OES value, even if there is no mineral oil in this product.

Recommended monitoring procedures	None
Technical Measures/ Precautions	Good ventilation during painting. The product demands oxygen when drying and therefore air thoroughly.
Respiratory protection	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.
Hand protection Material/Permeation time	None
Eye protection	None
Skin protection	Normal working clothes. No special protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/State of aggregation	liquid
Colour	Light brown
Odour	linseed
pH	10,5
Melting point	-19°C
Flash point	222°C
Auto ignition temperature	343°C



Oxidizing properties	Oxidizing. Can self ignite in porous materials
Solubility in water	Can only emulsify and is not soluble in water.
Solubility in other solvents	The product is partially soluble in many solvents, but it is not recommended to mix with solvents.
Emission factor, Total volatile organic compounds, TVOC	64 µg/(m ² xh) after 4 week of drying time of linseed oil paint (linseed putty is not tested). 18 µg/(m ² xh) after 26 weeks of drying time of linseed oil paint.

10. STABILITY AND REACTIVITY

Conditions to avoid	Do not store above room temperature and not below 4°C
Material to avoid	Strong acids, bases and oxidizing agents. The product reacts violently with hypochlorite.
Hazardous decomposition products	None
Stability	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 indicates positive health effects. The added siccative in boiled linseed oil makes it unsuitable to ingest.

Inhalation: Only a risk when spraying the product. The product could be irritating if occupational exposure limit for oil mist is surpassed. The product consumes oxygen when drying and good ventilation is necessary. If inferior ventilation, there is a risk for headache.

Skin contact: Repeated contact might dry out the skin, but at 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.

Persistence and biodegradation: The linseed oil is easily biodegradable.

Bioaccumulation: The product will not bio accumulate.

13. DISPOSAL CONSIDERATIONS

Waste code EWC	Depends were the waste is produced, but suitable codes are 02 02 03 or 20 01 28.
The product is hazardous waste	No
Package disposal	Can be sorted as plastic.
Suitable disposal measurements	Must be incinerated in a suitable incineration plant holding a permit delivered



by the competent authorities.

14. TRANSPORT INFORMATION

General

Not classified as hazardous goods

15. REGULATORY INFORMATION

Labelling Symbols: No label required.

Classification: Not classified as hazardous for health or environment.

16. OTHER INFORMATION

R-phrases in full text from point 2:

Manganese bis(2-ethylhexanoate)

R22 Harmful if swallowed.

Sources for data in this MSDS

Toxnet

Medline

Riskline

Chemical data base. Prevent etc.

Other information:

Safety data sheet according to directive 67/548/EEC, 99/45/EG, 91/155/EEC with amendments and other appropriate directives.