

SAFETY DATA SHEET

Issue date 10 Feb. 2010 Supersedes 4 Feb. 2008

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

Product name	Linseed oil paint	
Use	For outdoor and indoor painting. For painting on wood, concrete	
	wallpaper and other materials.	
	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)	
Manufacture/responsible	Allbäck Linoljeprodukter AB	
import within the EEA.		
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	
Emergency phone	NHS Direct 0845-4647	
	NHS 24: 08454 242424 (24 hrs service)	
	Information may also be obtained from	
	www.npis.org	
	The UK National Poisons Information Service	
	4123 Birmingham	
Issued by	Ann Martens, Ramböll Sweden AB	
Phone	+46-(0)40-10 54 47	

2. 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.



3. COMPOSITION/INFORMATION ON INGREDIENTS

EC-no	CAS-no	-		Comments	
232-278-6	8001-26-1	Linseed oil	35-55%		OEL
		Manganese drying	< 0,09		
		agent (siccative)	mg /litre		
		Content: Manganese	paint	Xn, R22	-
236-562-0	13434-24-7	bis(2-			
		ethylhexanoate)			
236-675-5	13463-67-7	Titan dioxide	Varies		OEL
			with the		
			colour		
215 270 6	1217 (5.2	Challe (Calairea	20-40 %		
215-279-6	1317-65-3	Chalk (Calcium	Varies		
		carbonate)	with the		
			colour		
		Diamant dan andian	15-30 %		
		Pigment depending on colour			
		White – no extra			
		pigment			
		Old White –			
		iron oxide			
		Sea Mist - iron oxide			
		Parchment –			
		iron oxide			
		earth pigment			
		Custard - iron oxide			
		Barley White -			
		iron oxide			
		Buttermilk -			
		iron oxide			
		Houghton Brown -			
		iron oxide			
		Silver Grey -			
		iron oxide			
		Old Gold - iron oxide			
		Sprauce Green –			
		iron oxide			
		chrome oxide			OEL
215-160-9	1308-38-9				522
		Lichen - iron oxide			
215-160-9	1308-38-9	Chrome oxide			OEL
		Wild Sage -			
	1000 05 5	iron oxide			05:
215-160-9	1308-38-9	Chrome oxide			OEL
		Linseed Blue -			
		Iron oxide			

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247-304-1	25869-00-5	Milori blue,		
237-875-5	14038-43-8	Ammonium iron(3+)		
		hexakis(cyano-		
		C)ferrate(4-),		
		Fe(CN)6Fe NH4		
		Midnight Blue –		
		iron oxide		
247-304-1	25869-00-5	Milori blue,		
237-875-5	14038-43-8	Ammonium iron(3+)		
		hexakis(cyano-		
		C)ferrate(4-),		
		Fe(CN)6Fe NH4		
		Old Blue – Iron oxide		
247-304-1	25869-00-5	Milori blue,		
237-875-5	14038-43-8	Ammonium iron(3+)		
		hexakis(cyano-		
		C)ferrate(4-),		
		Fe(CN)6Fe NH4		
		Ice Blue – Iron oxide		
247 204 1	25060 00 5			
247-304-1	25869-00-5	Milori blue,		
237-875-5	14038-43-8	Ammonium iron(3+)		
		hexakis(cyano-		
		C)ferrate(4-),		
		Fe(CN)6Fe NH4		
		Holkham green	-	
215-160-9	1308-38-9	Chrome oxide		OEL
		Iron primer - Iron	-	
		oxide		
		Brick red - Iron oxide		
		Old red - Iron		
		oxide		
247-304-1	25869-00-5	Milori blue,		
237-875-5	14038-43-8	Ammonium iron(3+)		
		hexakis(cyano-		
		C)ferrate(4-),		
		Fe(CN)6Fe NH4		
		Chocolate -		
		Iron oxide		
		Verona brown -		
		Iron oxide		
		Antique Gold -		
		Iron oxide		
		Black - Iron oxide		
		Other colours are a		
		mix of some of these		
		colours and this will		
		be declared on the		
		package.		
Explanation of abb	reviations:		 	

Explanation of abbreviations:

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

Content given in either %, %weight/weight, %vol/weight, %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, 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: Linseed oil contains mainly of natural triglycerides from oleic, linoleic, cetylic acid, linolenic acid and stearic acid. Iron oxide is either Fe_2O_3 , Fe_3O_4 or $FeHO_2$ depending on the colour. The product contains 0.01-0.1% of quartz that is a natural part of the chalk. The amount of respirable quartz is very low.

For Risk phrases in full text see section 16.

4. FIRST AID MEASURES

Inhalation	Not relevant, except when spraying the product. Move to	
	fresh air and rest if irritation occurs.	
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 or water. 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	Water jet.	
must not be used for safety		
reasons		
Fire and explosion hazards	Self extinguishing at 343°C. Avoid smoke from the	
	combustion.	
Special protective equipment	Wear self contained breathing apparatus for fire fighting if	
for fire-fighters	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	Wash with soap or linseed oil soap and water.
protection	
Measurements for	The product will float on water and can be removed
environmental protection.	mechanically. Prevent discharge in the sewage system.
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	If organic fibrous material is used for cleaning it is a fire risk
methods.	and the material should be soaked in water.
Measurement when accident	Switch of the motor. Keep away ignition sources. Make



during transport. ADR	embankments as above.
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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, EH40 2005.

EU-no	CAS-no	Substanc	OES	MEL	OES	Year
		e name	8 h	5 min	15 min	
		Oil mist	3 mg/m ³	-	3 mg/m ³	1990
						Swedish
						value
		Oil mist	5 mg/m ³	-	10 mg/m ³	UK value
					(10 min.)	
236-675-5	13463-67-7	Titanium		-	-	UK value
		dioxide				
		total	10 mg/m ³			
		inhalable				
		respirable	4 mg/m ³			
215-160-9	1308-38-9	Chromium	0.5 mg/m ³	-		UK Value
		III				
		compounds				
		(as Cr)				
215-168-2	1309-37-1	Iron oxide	5 mg/m ³	-	10 mg/m ³	UK Value
		Fume (as				
		Fe)				
200-821-6	74-90-8	Hydrogen		-	10 ppm	
		cyanide			11 mg/m ³	

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. is no mineral oil in this product.

The value for iron oxide and chrome oxide (only colours with chrome oxide) is only relevant when grinding the dried product. The value for hydrogen cyanide is only relevant for colours with Milori blue (if in contact with strong bases or similar).

The CAS number for iron oxide has not been declared because the type of iron oxide could vary in the different colours.

The occupational exposure value for quartz is not relevant for this product.

Recommended monitoring	None
procedures	
Technical Measures/	Good ventilation during painting. The product demands
Precautions	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 P2 and filter A.
Hand protection	None
Material/Permeation time	
Eye protection	None
Skin protection	Normal working clothes. No special protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/State of	Liquid
aggregation	
Colour	Light brown
Odour	Linseed
Density	1.3-1.7 kg/l depending on the colour.
Boiling point	349 °C
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.
Partition coefficient	Not determined but probably >3 for the linseed oil in the
n-octanol/water	product. Linseed oil does normally consist of about 18-23 %
	oleic acid and this has a log Kow 7.7. The other triglycerides
	in linseed oil are similar.
VOC content	<18 g/l
Emission factor, Total volatile	64 μg/(m²xh) after 4 week of drying time of linseed oil paint
organic compounds, TVOC	(pure linseed oil is not tested).
	18 μg/(m²xh) after 26 weeks of drying time 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.
	It reacts violently with hypochlorite.
	Colours with chrome or Miolri blue should not be treated with
	strong bases like sodium hydroxide.
	Chrome oxide is almost insoluble, but in contact with strong
	acids it becomes soluble and could give allergic reactions.
Hazardous decomposition	The colours with Milori blue could release hydrogen cyanide in
products	contact with strong bases and acids. It decomposes above
	140 °C. Chrome oxide decomposes to chromate when heated
	e.g. at fire. Chromate ions are carcinogenic and sensitizers.
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 indicate positive health effects of new pressed linseed oil. The added siccative in boiled linseed oil and added pigments makes it however unsuitable to ingest.

Inhalation: Only a risk when spraying the product. The product could cause irritation if occupational exposure limit for oil mist is surpassed. 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 out 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 raise to any hazard.

Sensitization: Not a sensitizer.

Carcinogenic effects: None known effect of the product.

Titanium dioxide has given benign tumours in rats when inhaled. In female rats it has also given cancer tumours in the lungs. Titanium oxide is under evaluation by IARC. In the monograph 47 it is classified as group 3 (The agent is not classifiable as to its carcinogenicity to humans). Monograph 93 is under evaluation and IARC has now classified titanium dioxide as group 2B. The agent is possibly carcinogenic to humans. When titanium oxide is dispersed in linseed oil like, in this product, there is no risk of inhaling titanium dioxide (unless dried product is grinded).

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 is not estimated to contain any PBT or vPvB substance.

13. DISPOSAL CONSIDERATIONS

Waste code EWC	Depends where the waste is produced, but suitable codes are
	02 02 03, 20 01 28 or 08 01 13.
The product is hazardous	No
waste	
Package disposal	Can be sorted as metal if properly cleaned.
Suitable disposal	Must be incinerated in a suitable incineration plant holding a
measurements	permit delivered by the competent authorities.

14. TRANSPORT INFORMATION

General	Not classified as hazardous goods

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"



Interior/exterior trim and cladding paints for wood and metal (category d), VOC content < 18 g/l. EC-limit from 2010, 300 g/l.

16. OTHER INFORMATION

This MSDS is changed in the following sections:

MSDS changed in section 1 (identified uses according to REACH) 1 (emergency phone) 3, 9 and 15.

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. VOC content declared for the colour with the highest content of linseed oil (white).

R-phrases from section 3:

Manganese bis (2-ethylhexanoate)

R22 Harmful if swallowed.

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/)
- Riskline database, http://apps.kemi.se/riskline/index.htm
- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, vol. 47, Some Organic Solvents, Resin Monomers and Related Compounds, Pigments and Occupational Exposures in Paint Manufacture and Painting, 13 April 1999.
- ECHA, Guidance on information requirements and chemical safety assessment: Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system. Draft ver. 2.0, 2009

Other information:

The safety data sheet is based on the REACH regulation 1907/2006/EC and other appropriate directives for classification and labelling like 67/548/EEC and 1999/45/EC. Labelling according to the VOC directive 2004/42/EC.