



SAFETY DATA SHEET

Issue date: 24 January 2022

Supersedes: 22 January 2021

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

1.1 Product identifier	Linseed Oil Paint
1.2 Relevant identified uses of the substance or mixture and uses advised against	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)
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	+46-411-602 02
Contact person	Sonja Allbäck
e-post	allback@allbackpaint.com
1.4 Emergency telephone number	24 hours service is available at www.nhs.uk Call 112 or 999 if an acute emergency. If less acute call 111.
SDS 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

The paints with Titanium dioxide are classified as:

EUH 211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.2 Label elements

Paint with Titanium dioxide:

EUH 211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.



Other label required

Interior/exterior trim and cladding paints for wood and metal, category d, VOC < 18 g/l. Limit 300 g/l Phase II, from 2010.

EUH210 — 'Safety data sheet available on request'.

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 gives rise to heat can happen even at room temperature, but raised temperature increases the risk.

Section 3: Composition / information on ingredients

EC-no	CAS-no / REACH reg. no	Name of component	Conc. wt / wt	Classification	Com
232-278-6	8001-26-1	Linseed oil	35-55 %	-	-
240-085-3	15956-58-8 / 01-2119979087-23-0000	2-Ethylhexanoic acid, manganese salt	0,07 mg/litre paint	Eye Irrit. 2 H319, Repr. 2 H361 (Oral) (H361d), STOT RE 2 H373 (neurologiska effekter.) (Inhalation) H373 Aquatic Chronic 2 H411	
205-743-6	149-57-5 / 01-2119488942-23	2-Ethyl hexane acid	0,06 %	Repr. 2 - H361d	-
236-675-5	13463-67-7 REACH-reg nr. 01-2119489379-17-0021 och 01-2119489379-17-0022	Titanium dioxide	0-30 %. Varies with the colour. See below.	Carc 2, H351 (inhalation)	WEL
215-279-6	1317-65-3	Chalk (Calcium carbonate)	15-30 % Varies with the colour	-	WEL
		Different colours			
236-675-5	13463-67-7	White Titanium dioxide (no extra pigment)	27-30 % < 1% Iron	Carc. 2 H351	WEL

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			oxide		
236-675-5	13463-67-7	Old White Titanium dioxide Iron oxide	27-30 % < 1 % Iron oxide	Carc. 2 H351 -	WEL
236-675-5	13463-67-7	Vintage Titanium dioxide Iron oxide	25-30 % < 1 % Iron oxide	Carc. 2 H351 -	WEL
236-675-5	13463-67-7	Sea Mist Titanium dioxide Iron oxide	25-30 % < 1 % Iron oxide	Carc. 2 H351	WEL
236-675-5	13463-67-7 20344-49-4 1317-61-9 / 01- 2119457646- 28-0000	Parchment Titanium dioxide Iron oxide (FeOOH) Iron oxide (Fe3O4)	25-30 % < 1 % Iron oxide		WEL
236-675-5	13463-67-7	Custard Titanium dioxide Iron oxide (FeOOH)		Carc. 2 H351 -	WEL
236-675-5	13463-67-7	Barley White Titanium dioxide Iron oxide	25-30 % < 1 % Iron oxide	Carc. 2 H351 -	WEL
236-675-5 243-746-4	13463-67-7 20344-49-4	Buttermilk Titanium dioxide Iron oxide (FeOOH)	25-30 % 1-3 % Iron oxide	Carc. 2 H351 -	WEL
236-675-5 215-277-5 215-277-5	13463-67-7 1317-61-9/ 01- 2119457646- 28-0000 1308-38-9 REACH-nr 01- 2119433951- 39	Oyster Green Titanium dioxide Iron oxide (Fe3O4) Chrome (III) oxide	25-30 % 1% Iron oxide 1 % Chromium oxide	Carc. 2 H351 -	WEL WEL
236-675-5 215-168-2 215-277-5	13463-67-7 1309-37-1 1317-61-9	Houghton Brown Titanium dioxide Iron oxide (Fe2O3) Iron oxide (Fe3O4)	1-4% 5-12 % Iron oxide 15-25 % Iron oxide	Carc. 2 H351 - -	WEL WEL
236-675-5 243-746-4 215-277-5	13463-67-7 20344-49-4 1317-61-9 /	Silver Grey Titanium dioxide Iron oxide (FeOOH) Iron oxide (Fe3O4)	25-30 % 1 % Iron oxide	Carc. 2 H351 - -	WEL

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	01- 2119457646- 28-0000		1 % Iron oxide		
243-746-4	20344-49-4	Old Gold Iron oxide (FeOOH)	18-25 % Iron oxide	-	
215-277-5 215-160-9	1317-61-9 1308-38-9 REACH-no 01- 2119433951- 39	Spruce Green Iron oxide (FeOOH) Chromium (III) oxide	15-20 % Iron oxide	- -	WEL
215-160-9	1308-38-9 REACH-no 01- 2119433951- 39	Chrome Oxide Green Chromium (III) oxide	25 % Chromium oxide	-	WEL
236-675-5 243-746-4	13463-67-7 20344-49-4	Lichen Titanium dioxide Iron oxide (Fe OOH)	20-25 % Titanium dioxide	Carc. 2 H351	WEL
215-277-5 215-160-9	1317-61-9 / 01- 2119457646- 28-0000 1308-38-9 REACH-no 01- 2119433951- 39	Iron oxide (Fe3O4) Chromium (III) oxide	1-3 & Iron oxide (Fe00H) 1-4 & Iron oxide (Fe3O4) 5-8 % Chromium (III) oxide	- - - -	WEL
309-928-3	101357-30-6	Ultramarine Blue Silicic acid, aluminum sodium salt, sulfurized	20-25 % Ultra marine blue	-	
247-304-1 309-928-3	25869-00-5 101357-30- 61308-38-9 1308-38-9 REACH-no 01- 2119433951- 39 1308-38-9	Linseed Blue Titanium dioxide Silicic acid, aluminum sodium salt, sulfurized Chromium oxide	15-20 % Titanium dioxide 7 % Ultramarine blue 3 % Chromium oxide		WEL WEL
309-928-3 243-746-4	101357-30-6 20344-49-4	Midnight Blue Silicic acid, aluminum sodium salt, sulfurized Iron oxide (FeOOH)	17-20 % Ultramarine blue 1 % iron	- -	

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215-277-5	1317-61-9	Iron oxide (Fe ₃ O ₄)	oxide 1-2 % Iron oxide	-	
309-928-3 243-746-4 215-277-5	101357-30-6 20344-49-4 1317-61-9 / 01- 2119457646- 28-0000	Old Blue Silicic acid, aluminum sodium salt, sulfurized Iron oxide (FeOOH) Iron oxide (Fe ₃ O ₄)	11-14 % Ultramarine blue < 1 % iron oxide 1-2 % Iron oxide	- - -	
247-304-1 309-928-3 215-277-5	25869-00-5 101357-30-6 1317-61-9 / 01- 2119457646- 28-0000	Ice Blue Titanium dioxide Silicic acid, aluminum sodium salt, sulfurized Iron oxide (Fe ₃ O ₄)	15-29 % Titanium dioxid 17-20 % Ultramarine blue < 1 % iron oxide	Carc. 2 H351 -	
215-277-5 215-160-9	1317-61-9 / 01- 2119457646- 28-0000 1308-38-9 REACH-nr 01- 2119433951- 39	Holkham green Iron oxide (Fe ₃ O ₄) Chromium (III) oxide	10-15 % iron oxide 20-30 % Chromium oxide	- -	WEL WEL
215-168-2	1309-37-1	Iron primer Iron oxide (Fe ₂ O ₃)	35-45 % Iron oxide	-	WEL
215-168-2	1309-37-1	Brick red Iron oxide (Fe ₂ O ₃)	30-35 % Iron oxide	-	WEL
215-168-2 215-277-5 309-928-3	1309-37-1 1317-61-9 / 01- 2119457646- 28-0000 101357-30-6	Old red Iron oxide (Fe ₂ O ₃) Iron oxide (Fe ₃ O ₄) Silicic acid, aluminum sodium salt, sulfurized	20-24 % Iron oxide 7-10 % Iron oxide 1-2 % Ultramarin blue	- - -	WEL
215-168-2	1309-37-1	Chocolate Iron oxide (Fe ₂ O ₃)	30-40 % Iron	-	WEL

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215-277-5	1317-61-9 7 01- 2119457646- 28-0000	Iron oxide (Fe ₃ O ₄) (Mixture of these iron oxides, the supplier does not give the exact content)	oxides	-	
		Verona brown Iron oxide (Fe ₂ O ₃) Iron oxide (Fe ₃ O ₄) (Mixture of these iron oxides, the supplier does not give the exact content)	30-40 % Iron oxides	-	
243-746-4	20344-49-4	Antique Gold Iron oxide (FeOOH)		-	
215-277-5	1317-61-9	Black Iron oxide (Fe ₃ O ₄)	40-45 % Iron oxide	-	
236-675-5 215-168-2 243-746-4 215-277-5	13463-67-7 1309-37-1 20344-49-4 1317-61-9 / 01- 2119457646- 28-0000	Old rose Titanium dioxide Iron oxide (Fe ₂ O ₃) Iron oxide (FeOOH) Iron oxide (Fe ₃ O ₄)	10 % TiO ₂ 10-14 % 1 % 1%	Carc. 2 H351 - - -	WEL WEL
243-746-4 215-277-5	20344-49-4 1317-61-9 / 01- 2119457646- 28-0000	Green Umber Iron oxide (FeOOH) Iron oxide (Fe ₃ O ₄)	17-20 % (FeOOH) 10-13 % (Fe ₃ O ₄)	- -	
236-675-5 215-168-2 215-277-5	13463-67-7 1309-37-1 1317-61-9 / 01- 2119457646- 28-0000	Graphite Grey Titanium dioxide Iron oxide (Fe ₂ O ₃) Iron oxide (Fe ₃ O ₄) (The supplier does not give the exact content)	5 % Titanium dioxide 25-35 % Iron oxides	Carc. 2 H351 -	WEL WEL
		Other colours are mixtures of the above colours			
Explanation of abbreviations: CAS-nr. = Chemical Abstracts Service; EU-no (Einecs- or Elincsnr) = European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, Content specified as; %, %wt/wt, %vol/wt, %vol/vol, mg/m ³ , ppb, ppm, wt%, vol%. WEL = The product has 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, palmitic acid, linolenic acid and stearic acid. CAS 8554-56-3 is also possible for the product. The product contains 0.01-0.1 % quartz that is naturally present in chalk. The amount of respirable quartz is very low. Ultramarine blue is a synthetic variant of the natural pigment Lapis lazuli.



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 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	Provides transient mild irritation.
Ingestion	Laxative.
4.3. Indication of any immediate medical attention and special treatment needed	Access to water for rinsing eyes at the working place.

Section 5: Firefighting measures

5.1 Extinguishing media a. Recommended Extinguishing media b. Not Recommended Extinguishing media	a. Extinguish e.g. with foam, carbon dioxide, powder or water spray depending on what is burning b. Foam containing substances that are harmful for the environment, i.e. Perfluoro octane sulfonate (PFOS) and Nonyl ethoxylate
5.2 Special hazards arising from the substance or mixture	Can self-ignite at 343 °C. Can oxidize in rags and other porous material and cause increased heating of the material until it ignites.
5.3 Advise for firefighters	Avoid inhaling of smoke fumes. Wear self-contained breathing apparatus for fire fighting if necessary. Cool fire exposed surfaces.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel	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.

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6.3 Methods and material for containment and cleaning up 6.3.1. Surrounding embankment /sealing 6.3.2 Recommended cleaning up measures 6.3.3 Non-recommended measures	Make embankments with sand or other inert absorbent and collect. Small amounts can be washed away with water. The product is easily biodegradable in nature.
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 are taken
7.2 Condition for safe storage, including any incompatibilities	Store out of 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

CAS-nr	Substance name	WEL 8 h	WEL 5 min	WEL 15 min
1309-37-1	Iron oxide fume (as Fe)	5 mg/m ³		10 mg/m ³
13463-67-7	Titanium dioxide total inhalable respirable	10 mg/m ³ 4 mg/m ³		
1317-65-3	Calcium carbonate inhalable dust respirable dust	10 mg/m ³ 4 mg/m ³		
	Chromium (III) compounds (as Cr)	0.5 mg/m ³		

WEL=Workplace Exposure Limit

PNEC and DNEL/DMEL not established for linseed oil.

Values below from REACH registration of titanium dioxide.

CAS-no	Substance	PNEC (type of environment)	DN(M)EL (route of exposure)	Exposure scenario annex
13463-67-7	Titanium dioxide	PNEC (aquatic freshwater)	Workers Longtime exposure local	None



		0,127 mg/L PNEC (aqua marine water) 1 mg/L PNEC aqua (intermittent releases) 0,61 mg/L PNEC STP 100 mg/L PNEC sediment (fresh water) 1000 mg/kg Sediment dw PNEC sediment (marine water) 100 mg/kg sediment Dd PNEC soil 100 mg/kg dw	effect DNEL Inhalation 10 mg/m ³ Consumers Longtime exposure systemic effect Oral DNEL 700 mg/kg bodyweight/day For other DNEL/DMEL data is missing	
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Biological limit values	None
Recommended surveillance procedure	None

8.2 Exposure controls

8.2.1 Recommended technical control measures	None
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) Hand protection (material, thickness, breakthrough time) ii) Other protection	i) At prolonged contact with the product use gloves e.g. PVC, nitrile or butyl. Always use gloves when painting with colour containing chromium. Breakthrough is not known, but probably > 8 hrs. ii) Normal working clothes. No special protection
Respiratory protection	If spraying the product and a hazard to surpass any occupational exposure value use a half mask with particle filter P2.
8.2.3 Environmental exposure control	Avoid large leakage to surface water or sewage system

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Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance/Form /State	Liquid
Odour	Characteristic linseed oil.
Melting point/freezing point	Appr. -19 °C
Initial boiling point and boiling range	Appr. 316 °C
Flash point	216 °C
Evaporation rate	Not determined
Self ignite temperature	343 °C
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	1.3-1.7 kg/l (depending on colour)
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-octanol/water	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	None
Oxidizing properties	None
VOC content	< 18 g/l

9.2 Other information

Emission Factor, Volatile organic compounds, TVOC	64 µg/(m²xh) after 4 weeks drying time of linseed oil paint (white paint), 18 µg/(m²xh) after 26 week drying time.
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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 reactions	None
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 products	None except for colours containing ultramarine pigment. This pigment can emit hydrogen sulphide in contact with acids. Chrome (III) oxide can transform to chrome (VI) when heated. Chrome (VI) is a strong sensitizer and carcinogenic.



Section 11: Toxicological information

Substances

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

a) Acute toxicity

Short term exposure

Linseed 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: LC50 /4h) > 20 mg/l (IMO). Inhalation is only a risk when spraying the product. The product could in this case cause minor irritation to respiratory tracts and ethanol in the product can affect the central nervous system.

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 data, but the product is probably laxative.

Inhalation: Only a risk when spraying the product. The product could in this case cause minor irritation to respiratory tracts and ethanol in the product can affect the central nervous system. The product consumes oxygen when drying and if insufficient ventilation this could cause a headache.

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 is 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 –

11.2. Information on other hazards

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Section 12: Ecological information

12.1 Toxicity

Acute toxicity:

Linseed oil has low toxicity for aquatic organisms. LC50 > 1000 mg/L (DHI report)

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 relative 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 easily degradable (DHI report).

12.3 Bioaccumulative potential

The product will not bioaccumulate. BCF < 10 (DHI report).

12.4 Mobility in soil

The product is water soluble but 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. Endocrine disrupting properties

No ingredients in the product have any endocrine disruptor effect.

12.7. 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 can be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Empty dry metal cans can be stored as metal. 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.
Waste codes (EWC)	Depends where the waste is produced, but suitable codes are 02 03 03, 20 01 28 or 08 01 14
The product is classified as hazardous waste	No.
Waste codes (EWC) for the container	Suitable codes for the packages are 15 01 04, 15 01 07, 20 01 40 or 20 01 02.
A not thoroughly cleaned container is considered dangerous waste	No
Other information	See section 8 for personal protection equipment.

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	-

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14.5 Environmental hazards	-
14.6 Special precautions for users	-
14.7 Maritime transport in bulk according to IMO instruments	The product is not transported in bulk, but if it will happen in the future this product is listed in Annex II of the Marpol convention. Vegetable oils floating on water are 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 SDS is changed in the following sections:

Changes in VOC labelling (correcting the value in section 2) and correct amount of linseed oil in section 3.

Hazard and Precautionary statements from section 2 and 3 in plain text (CLP):

Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2
H319	Causes serious eye irritation.
Carc 2	
H351 (inhalation)	
Repr. 2	Reproductive toxicity, Hazard Category 2
H361d	Suspected of damaging fertility or the unborn child (oral).
STOT RE 2	Specific target organ toxicity — Repeated exposure, Hazard Category 2
H373	May cause damage to organs (neurological effects) through prolonged or repeated exposure (Inhalation).
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
H411	Toxic to aquatic life with long lasting effects.

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 SDS

- ECHA data base registered substances.
- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 93 (2010) Carbon black, Titanium Dioxide and Talc. (452 p)
- European Commission DG Environment Report October 2008 from DHI. Review of Annex IV of Reg. 1907/2006 Contract No. 070307/2007/473055/MAR/D1 and appendix 2 Evaluation of existing entries, Linseed oil.



- IMO INTERNATIONAL MARITIME ORGANIZATION. BLG WORKING GROUP ON THE EVALUATION OF SAFETY AND POLLUTION HAZARDS OF CHEMICALS. 30 September 2005, Linseed oil (containing less than 4% free fatty acids). Submitted by the United Kingdom.

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 amendments.

Classification according to the CLP regulation EC 1272/2008.

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