

# SAFETY DATA SHEET

according to (EC) No. 1907/2006

reine Leinölfarben

für Fachwerk, Fenster- und Denkmalrestaurierung

Linseed oil paint /  
Colour Paste

01/2026

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Linseed oil paint / Colour paste – Category 6

### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

Paint for buildings (doors, windows, timberframes etc.) Applied with brush etc.

### 1.3 Details of the supplier of the safety data sheet

Sven Krumnow & Katrin Bauer GbR  
Am Raubfang 3  
D-14469 Potsdam

Telefon: 0331 58251359  
[info@reine-leinoelfarben.de](mailto:info@reine-leinoelfarben.de)

### 1.4 Emergency telephone number

NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): Dial 111

National Poisons Information Centre (Ireland): +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week).

Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Environmentally hazardous liquid.

**1272/2008 (CLP)**

Aquatic Chronic 2;H411

### 2.2 Label elements



H411: Toxic to aquatic life with long lasting effects.

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container in accordance with applicable regulations.

### 2.3 Other hazards

Rags soaked with the product may cause spontaneous combustion.

PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

Endocrine disrupting properties: The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation 2017/2100 or Regulation 2018/605.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Mixture based on linseed oil.

	Substance name	CAS-no..	EC-no	Index-no	REACH reg.-no.	Classification	Note
<75%	Triiron tetraoxide	1317-61-9	215-277-5	-	01-2119457646-28	None	1,3
<60%	Diiron trioxide	1309-37-1	215-168-2	-	01-2119457614-35	None	1,3
< 50%	Titanium dioxide	13463-67-7	236-675-5	022-006-00-2	01-2119489379-17	Carc. 2;H351i	1,2,3
2,5% - < 20%	Zinc oxide	1314-13-2	215-222-5	030-013-00-7	01-2119463881-32	Aqautic Acute 1; H400 (M=1) Aqautic Chronic 1; H410	-
< 10%	Carbon black	1333-86-4	215-609-9	-	01-2119384822-32	None	1,3
< 1%	Manganese dioxide	1313-13-9	215-202-6	025-001-00-3	01-2119452801-43	Acute Tox. 4;H332+H302 STOT RE 2;H373	1,3,4

- 1) The substance has an occupational exposure limit.
- 2) The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1% or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ .
- 3) In some colours.
- 4) ATE (oral) = 500 mg/kg; ATE (inhalation, dust/spray) = 1.5 mg/l

Wording of hazard statements - see section 16.

## SECTION 4: First-aid measures

### 4.1 Description of first aid measures:

**Inhalation:** Move the affected person to fresh air. Keep at rest. If symptoms persist: Seek medical advice.

**Skin contact:** Remove all contaminated clothing. Wash skin with water and mild soap.

**Eye contact:** Flush with water or physiological salt water, holding eyelids open; remember to remove contact lenses, if any. If irritation persist: Seek medical advice.

**Ingestion:** Rinse mouth and drink plenty of water. **Do not induce vomiting.** If vomiting occurs keep head down to avoid vomit in the lungs. Seek medical advice.

### 4.2 Most important symptoms and effects, both acute and delayed

May cause slight irritation of skin and eyes.

### 4.3 Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to a physician or emergency ward.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Use carbon dioxide, dry chemical or foam.

### 5.2 Special hazards arising from the substance or mixture

Do not inhale smoke fumes. In case of fire, the substance may form hazardous decomposition products:  
Primarily oxides of carbon.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus when generation of smoke is vigorous.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use gloves of rubber when spill is wiped up – see section 8. Avoid further spreading. Ventilate area of spill.

### 6.2 Environmental precautions

Do not empty into drains – see section 12. Inform appropriate authorities in accordance with local regulations.

### 6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder) and place in marked container for disposal. All contaminated rags, paper etc. may be subject to spontaneous combustion under certain conditions. Place all contaminated material in a metal container, which contains water, with a tight-fitting lid. Remove from premises immediately. Clean with water. Dispose of in accordance with local regulations or burn under controlled conditions. Further handling of spillage - see section 13.

### 6.4 Reference to other Sections

See references above

## SECTION 7: Accidental release measures

### 7.1 Handling and storage

#### Precautions for safe handling:

Avoid contact with skin, eyes and clothing. Provide sufficient ventilation. Wash contaminated skin immediately with water and mild soap. Contaminated clothes or absorbent material is kept under water until disposal or cleaning. Moisturisers prevents drying of the skin and may be used with great advantage after work.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed original container of metal. Keep in a dry and well-ventilated place.

### 7.3 Specific end use(s)

See section 1.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters occupational exposure limits, UK (EH40/ed.2020):

Substance	8-hour TWA	15-min STEL	Comments
Iron oxide, fume (as Fe)	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	-
Titanium dioxide, total inhal.	10 mg/m <sup>3</sup>	-	-
Manganese and its inorganic compounds (as Mn)	0.2 mg/m <sup>3</sup>	-	E
Carbon black	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	-

E: The substance has a Community exposure limit.

#### Occupational exposure limit values, Ireland (2020):

	8-hour TWA	15-min STEL	Notes
Iron oxide, fume (as Fe)	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	-
Titanium dioxide, total inhal.	10 mg/m <sup>3</sup>	-	-
Titanium dioxide, respirable dust	4 mg/m <sup>3</sup>	-	-
Manganese and inorganic manganese compounds (as Mn)	0.2 mg/m <sup>3</sup> (I)/ 0.05 mg/m <sup>3</sup> (R)	-	IOELV
Zinc oxide, fume	2 mg/m <sup>3</sup> (R)	10 mg/m <sup>3</sup>	-
Carbon black	3 mg/m <sup>3</sup> (I)	-	-

I: Inhalable Fraction

IOELV: Indicative Occupational Exposure Limit Values

R: Respirable Fraction

DNEL:	Exposure	Value	Population	Effects
Manganese dioxide	Long term, inhalation	0.06 mg/m <sup>3</sup>	Worker	Systemic
	Long term, dermal	0.004 mg/kg/d	Worker	Systemic
	Long term, inhalation	0.043 mg/m <sup>3</sup>	Consumer	Systemic
	Long term, dermal	0.002 mg/kg/d	Consumer	Systemic
Zinc oxide	Long term, inhalation	6.2 mg/m <sup>3</sup>	Worker	Local
	Long term, dermal	6223 mg/kg/d	Worker	Local
	Long term, oral	62.2 mg/kg/d	Worker	Local
	Long term, inhalation	6.2 mg/m <sup>3</sup>	Consumer	Local
	Long term, dermal	622 mg/kg/d	Consumer	Local
PNEC:	Medium	Value		
Manganese dioxide	Fresh water	0.001 mg/l		
	Sea water	500 mg/l		
	Fresh water sediment	500 mg/kg		
	Sea water sediment	0.004 mg/kg		
	Sewage treatment plant	100 mg/l		
Zinc oxide	Soil	0.028 mg/kg		
	Fresh water	25.6 µg/l		
	Sea water	7.6 µg/l		
	Fresh water sediment	146 mg/kg		
	Sea water sediment	70.3 mg/kg		
	Sewage treatment plant	64.7 µg/l		
	Soil	44.3 mg/kg		

### 8.2 Exposure controls:

Appropriate engineering controls: Provide sufficient ventilation

Personal protective equipment:

Inhalation: Normally not required when applied with brush or roller.

Skin: Wear protective gloves of nitrile rubber (> 0.3 mm) (EN 374). It has not been possible to find data for breakthrough time. In case of spill on the glove, it is recommended to change it after use

Eyes: Wear tight fitting safety goggles (EN 166) when there is risk of splashes.

Environmental exposure controls: None particular.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a)	Physical state	Liquid
b)	Colour	Different colours
c)	Odour	Linseed oil
d)	Melting point/freezing point (°C)	Not determined
e)	Boiling point or initial boiling point and boiling range (°C)	Not determined
f)	Flammability (solid, gas)	Not relevant (liquid)
g)	Lower and upper explosion limit (vol-%)	Not determined
h)	Flash point (°C)	app. 220 °C (linseed oil)
i)	Auto-ignition temperature (°C)	Not determined
j)	Decomposition temperature (°C)	Not determined
k)	pH	Not determined
l)	Kinematic viscosity:	Not determined
m)	Solubility	Insoluble in water
n)	Partition coefficient n-octanol/water (log value)	Not determined
o)	Vapour pressure	Not determined
p)	Density and/or relative density (g/cm <sup>3</sup> , 20°C)	>2
q)	Relative vapour density	Not relevant
r)	Particle characteristics	Not determined

### 9.2 Other information

Non relevant

## SECTION 10: Stability and reactivity

### 10.1 Reaktivität

No available data

### 10.2 Chemical stability

Stable under normal conditions (see section 7).

### 10.3 Possibility of hazardous reactions

Warning: Combustible materials such as rags, paper or cloths soaked with the product may cause spontaneous combustion

### 10.4 Conditions to avoid

Avoid excessive heating.

### 10.5 Incompatible materials

May react with oxidizing materials.

### 10.6 Hazardous decomposition products

In case of extensive heating, the mixture may form hazardous decomposition product such as oxides of carbon, short chain fatty acids, polymers and acrolein.

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**SECTION 11: Toxicological information  
(continued)**

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

Acute toxicity: Based on available data, the classification criteria are not met.  
Skin corrosion/irritation: Based on available data, the classification criteria are not met.  
Serious eye damage/irritation: Based on available data, the classification criteria are not met.  
Respiratory or skin sensitization: Based on available data, the classification criteria are not met.  
Germ cell mutagenicity: Based on available data, the classification criteria are not met.  
Carcinogenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: Based on available data, the classification criteria are not met.  
STOT-single exposure: Based on available data, the classification criteria are not met.  
STOT-repeated exposure: Based on available data, the classification criteria are not met.  
Aspiration hazard: Based on available data, the classification criteria are not met.

Hazard class	Data	Test	Data source
Acute toxicity			
Inhalation	LC50 (rat) > 5700 mg/m <sup>3</sup> /4h (Zinc oxide, dust/spray) LC50 (rat) > 6,8 mg/l/4h (Titanium dioxide)	No data No data	Supplier Supplier
Dermal	No data	-	-
Oral	LD50 (rat) > 15 g/kg (Linseed oil) LD50 (rat) > 15 g/kg (Zinc oxide) LD50 (rat) > 10 g/kg (Titanium dioxide) LD50 (rat) > 5 g/kg (Diiron trioxide) LD50 (rat) > 8000 mg/kg (Carbon black)	No data No data No data No data No data	Supplier Supplier Supplier Supplier Supplier
Corrosion/irritation	Moderate skin irritation, man (Linseed oil)	Draize	RTECS
Sensitization	No data	-	-
CMR	No mutagenicitet – negative result (Linseed oil) No effect on fertility/offspring (Linseed oil) No carcinogen effects in animals (Linseed oil)	No data No data No data	TOXNET TOXNET TOXNET

Information on likely routes of exposure: Ingestion.

Symptoms:

Inhalation: Slight irritation of the airways. Manganese dioxide may cause pneumonia without the influence of infectious agents.

Skin: May cause irritation with redness by prolonged contact with skin

Eyes: May cause irritation with redness and pain.

Ingestion: May cause irritation of the gastrointestinal tract and discomfort, nausea and diarrhea.

Chronic effects: Manganese compounds may reduce the immune defence system in the airways and cause metal fume fever. Damages of the testicles, impotence, decreased sexual activity and decreased fertility.

Titanium dioxide is classified by IARC as group 2B (Possibly carcinogenic to humans). However, this classification does not lead to a CLP classification as carcinogenic. There is no significant exposure to titanium dioxide from liquid products containing titanium dioxide (IARC, Vol. 93).

The material contains carbon black, which is recorded in the Danish Working Environment Authority's list of substances considered to be carcinogenic. The substance has caused cancer when inhaled in animal experiments (rats), but since this material is not expected to be possible to inhale, the risk of developing cancer in humans in connection with working with the product is therefore considered minimal. In several experiments with mice, no carcinogenic effect on the skin is observed.

**11.2 Infotion on other hazards:** None known

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**SECTION 12: Ecological information**

**12.1 Toxicity**

Aquatic	Data	Test (Media)	Data source
Fish	LC50 (Danio rerio, 96h) = 1.79 mg/l (Zinc oxide) LC50 (Oncorhynchus mykiss, 96h): 1.1-2.5 mg/l (Zinc oxide) LC50 (Idus dorata, 96h) > 1000 mg/l (Diiron trioxide)	No data (FW) No data (FW)	ECHA Supplier
Daphnia	No relevant available data.	-	-
Algae	EC50 (Selenastrum capricornutum, 72h) = 0.17 mg/l (Zinc oxide) NOEC (Pseudokirchneriella subcapitata, 72h) = 0.017 mg/l (Zinc oxide)	OECD 201 (FW) No data (FW)	IUCLID Supplier

**12.2 Persistence and degradability**

Methods are missing for determining the biodegradability for inorganic substances such as pigments.

**12.3 Bioaccumulative potential**

Zinc oxide: Log Kow = 2.2 (moderate bio accumulative effect).

**12.4 Mobility in soil**

Zinc oxide: Koc < 50 (very high mobility expected in soil environments).

**12.5 Results of PBT- und vPvB-assesment**

No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

**12.6 Endocrine disrupting properties**

None known

**12.7 Other adverse effects:**

No data available.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

The mixture is not considered as hazardous waste. Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

Waste from linseed oil paint must be immersed in water to avoid spontaneous combustion.

**EAK-Code:** 08 01 12 (mixture itself) 15 02 03 (Paper towel, inert material etc. contaminated with the mixture)

## SECTION 14: Transport information

### 14.1 UN number or ID number

3082

### 14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc oxide)

### 14.3 Transport hazard class(es)

9

### 14.4 Packing group

III

### 14.5 Environmental hazards

MP (Marine pollutant)

### 14.6 Special precautions for user

none

### 14.7 Maritime transport in bulk according to IMO instruments:

Not relevant

## SECTION 15: Regulatory information

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

#### Special labeling

VOC subcategory: A/d

VOC limit value (g/l): 300

VOC content (g/l): < 5

### 15.2 Chemical safety assessment

No CSR

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## SECTION 16: Other information

### Hazard statements mentioned in section 3:

H332+H302: Harmful if inhaled or if swallowed.  
H351i: Suspected of causing cancer.  
H373: May cause damage to organs (brain) through prolonged or repeated exposure (inhalation).  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

### 16.2 Abbreviations

CMR = Carcinogenicity, mutagenicity og reproductive toxicity.  
CSR = Chemical Safety Report  
DNEL = Derived No-Effect Level  
EC50 = Effect Concentration 50%  
FW = Fresh Water  
LC50 = Lethal Concentration 50%  
LD50 = Lethal Dosis 50%  
PBT = Persistent, Bioaccumulative, Toxic  
PNEC = Predicted No-Effect Concentration  
vPvB = very Persistent, very Bioaccumulative

### Literature:

ECHA = REACH daten von der ECHA's homepage.  
IARC = International Agency for Research on Cancer  
IUCLID = International Uniform Chemical Database Information  
RTECS = Register of Toxic Effects of Chemical Substances.  
TOXNET = Toxicology Data Network via Toxline database.

### Training advice:

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.