

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



425007 Red Lead in Linseed Oil

Page 1

Revised edition: 28.01.2021

Version: 3.2

Printed: 01.02.2021

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Red Lead in Linseed Oil

Article No.: 425007

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Professional and industrial coatings

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

*Flammable liquids, hazard category 3
Acute toxicity (oral), hazard category 4
Carcinogenicity, hazard category 2
Reproductive toxicity, hazard category 1A
Reproductive toxicity, Effects on or via lactation, additional hazard category
Specific target organ toxicity (repeated exposure), hazard category 2
Hazardous to the aquatic environment, chronic category 1*

H226 Flammable liquid and vapour.

Cat.: 3

H302 Harmful if swallowed.

Cat.: 4

H351 Suspected of causing cancer.

Cat.: 2

H360 May damage fertility or the unborn child.

Cat.: 1A

H362 May cause harm to breast-fed children.

Cat.:

H372 Causes damage to organs through prolonged or repeated exposure.

Cat.: 1

Very toxic to aquatic life with long lasting effects.

next page: 2

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



425007 Red Lead in Linseed Oil

Page 2

Revised edition: 28.01.2021

Version: 3.2

Printed: 01.02.2021

H410
Cat.: 1

Possible Environmental Effects:

2.2. Label Elements

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

Hazard designation:



GHS02



GHS07



GHS08-2



GHS09

Signal word:

Danger

Hazard designation:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
EUH201/201A	Warning contains lead! Should not be used on surfaces liable to be chewed or sucked by children.
EUH208	May produce an allergic reaction.

Safety designation:

P201	Obtain special instructions before use.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P263	Avoid contact during pregnancy and while nursing.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P308+P313	If exposed or concerned: Get medical advice/attention.
P370+P378	In case of fire: use water spray, foam, carbon dioxide or dry extinguishing powder for extinction.
P403+P235	Store in a well ventilated place. Keep cool.

next page: 3

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



425007 Red Lead in Linseed Oil

Page 3

Revised edition: 28.01.2021

Version: 3.2

Printed: 01.02.2021

Hazardous components for labelling:

2.3. Other Hazards

Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
EUH208: Contains 2-Butanonoxime, D,L-alpha-Pinene. Can cause allergic reactions.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Lead tetraoxide in linseed oil

Information on Components / Hazardous Ingredients:

Lead(II,IV) oxide (H302-332-351-360Df-362-372-410); REACH Reg. No. 01-2119517589-27-0001	50 - 100 %	CAS-Nr: 1314-41-6 EINECS-Nr: 215-235-6 EC-Nr: 082-001-00-6
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Xylene (H226-304-312-315-319-332-335-373); REACH Reg. No. 02-2119488216-32	3 - 5 %	CAS-Nr: 1330-20-7 EINECS-Nr: 215-535-7 EC-Nr: 601-022-00-9
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Ethylbenzene (H225-304-332-373); REACH No. 01-2119489370-35-xxxx	1 - 3 %	CAS-Nr: 100-41-4 EINECS-Nr: 202-849-4 EC-Nr: 601-023-00-4
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Naphtha (petroleum), hydrotreated heavy, low-boiling (Asp.Tox.1, H304); REACH Reg. No. 01-2119463258-33	1 - 3 %	CAS-Nr: 64742-48-9 EINECS-Nr: 919-857-5 EC-Nr: 649-327-00-6
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Camphene (H228-319-400-410)	0.1 - 0.5 %	CAS-Nr: 79-92-5 EINECS-Nr: 201-234-8 EC-Nr:
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2-Butanonoxime (Carc. 2, H351-312-317-318)	0.1 - 0.5 %	CAS-Nr: 96-29-7 EINECS-Nr: 202-496-6 EC-Nr: 616-014-00-0
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alpha-Pinene (H226-302-304-315-317-410)	0.1 - 0.5 %	CAS-Nr: 80-56-8 EINECS-Nr: 201-291-9 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.
Stable side position in case of unconsciousness.

After inhalation:

Supply fresh air and keep patient calm.

next page: 4

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



425007 Red Lead in Linseed Oil

Page 4

Revised edition: 28.01.2021

Version: 3.2

Printed: 01.02.2021

Give artificial respiration in case breathing is not regular or if it has stopped.
In case of unconsciousness place patient stable in side position for transportation.
Get medical help.

After skin contact:

Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.
Do not use solvents or thinners.

After eye contact:

Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Consult physician.

After ingestion:

Rinse mouth with plenty of water.
Immediately get medical help.
Do not induce vomiting.
Never give anything by mouth to an unconscious person.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, water spray.

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: hazardous gases/vapors may be released.
Do not inhale fumes.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

Contaminated extinguishing water and debris should be disposed of according to local regulations.
Avoid contamination of sewage system, open water ways and ground water.
Cool exposed containers with water spray.

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



425007 Red Lead in Linseed Oil

Page 5

Revised edition: 28.01.2021

Version: 3.2

Printed: 01.02.2021

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Wear appropriate protective equipment. Keep spectators away.
Avoid contact with skin.
Do not inhale aerosol/fumes/vapors.
Keep away from sources of ignition. No smoking.*

6.2. Environmental Precautions

Environmental precautions:

*Prevent contamination of soils, drains and surface water.
Contact local authorities if product pollutes soil or vegetation.*

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

*Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly.
Dispose accordingly. Rinse spill area.*

6.4. Reference to other Sections

Protective clothing, see Section 8.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

*Avoid breathing dust and use with adequate ventilation provided, required to keep exposure below permissible limit.
Avoid the formation of ignitable and explosive solvent fumes.
Provide adequate ventilation, also in floor area (vapors are heavier than air).*

Hygienic measures:

*Avoid contact with eyes and skin.
Do not inhale gas/fumes/vapours/aerosols.
Do not eat or drink during work. Do not smoke.*

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

*Store in roofed places at room temperature. Only for professional users.
Store in tightly sealed containers in a dry room.
Store between 15-30°C.
Store in tightly sealed containers in a dry and cool room.
Do not empty containers with pressure.
Protect against heat and direct sunlight.*

Requirements for storage areas and containers:

*Close open containers with care and store in an upright position to avoid spilling.
The floors have to correspond to the German BGR guideline 132*

next page: 6

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



425007 Red Lead in Linseed Oil

Page 6

Revised edition: 28.01.2021

Version: 3.2

Printed: 01.02.2021

"Directives for avoiding ignition risks due to elektrostatische build-up".

Information on fire and explosion protection:

Product is not combustible.

Do not store together with: oxidants and acidic or alkali-containing products.

Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.

Use only in explosion protective area. Extinguish any naked flames. No not smoke. Remove ignition sources. Avoid sparks. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Vapors may form an explosive mixture with air.

Storage class:

3; Flammable liquids (TRGS 510)

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

Lead and its compounds (referring to the lead content) is 0.1 mg/m³ air (total dust value).

Xylene (CAS 1330-20-7) TWA: 440 mg/m³, 100 ml/m³ (long-term value); 880 mg/m³, 200 ppm (short-term value)

Naphtha, partly hydrogenated, heavy (CAS 64742-48-9): TWA: : 300 mg/m³ (long-term value); 600 mg/m³ (short-term value)

Ethylbenzene (CAS 100-41-4); TLV: 88 mg/m³, 20 ppm (long-term value); 176 mg/m³, 40 ppm (short-term value)

2-Butanonoxime (CAS 96-29-7), TLV: 1 mg/m³, 0.3 ppm (long-term value); 8 mg/m³, 2.4 ppm (short-term value)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

Biological limit value (TRGS 903):

Xylene (DE BAT): 1.5 mg/l (end of exposure or shift; blood)

Ethylbenzene: 300 mg/l creatinine (end of exposure or shift; urine); BAT: 250 mg/g creatinine (long-term value)

8.2. Exposure Controls

Technical protective measures:

Use appropriate local exhaust ventilation to control airborne levels.

Personal Protection

next page: 7

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



425007 Red Lead in Linseed Oil

Page 7

Revised edition: 28.01.2021

Version: 3.2

Printed: 01.02.2021

General protective measures:

*Do not inhale dust. Do not eat, drink or smoke while working.
Wash hands before breaks and at the end of work.
Remove contaminated clothing. Wash hands after work.
Do not use organic solvents.*

Respiratory protection:

Wear protective mask, particle filter P2 or FFP2 or NIOSH N95 (for solid and liquid particles, EN 143, 149) if dust occurs.

Hand protection:

*Protective gloves (EN 374)
Protective gloves should be changed regularly, especially after intensive contact with the product.*

Protective glove material:

For long-term exposure: polyethylene (> 480 min; > 0.4 mm).

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing (flame-proof, antistatic).

Environmental precautions:

*Prevent contamination of open water ways and sewage system.
Avoid contamination of ground water.*

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>red</i>
<i>Odor:</i>	<i>characteristic</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>not available</i>
<i>Melting temperature:</i>	<i>> 550°C (Lead(II,IV)oxide)</i>
<i>Boiling temperature:</i>	<i>107°C (2-Methyl-1-propanol)</i>
<i>Flash point:</i>	<i>> 23°C</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>201°C</i>
<i>Upper explosion limit:</i>	<i>8.1 Vol.-%</i>
<i>Lower explosion limit:</i>	<i>0.87 Vol.-%</i>
<i>Vapor pressure:</i>	<i>0.35 mbar (20°C)</i>
<i>Vapor density:</i>	<i>No information available.</i>

next page: 8

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



425007 Red Lead in Linseed Oil

Page 8

Revised edition: 28.01.2021

Version: 3.2

Printed: 01.02.2021

Density:	3.30 g/cm ³ (20°C)
Solubility in water:	insoluble
Coefficient of variation (n-Octanol/Water):	no information available
Auto-ignition temperature:	201°C (Naphtha)
Decomposition temperature:	No data available.
Viscosity, dynamic:	thixotropic
Explosive properties:	not applicable
Oxidizing properties:	no information available
Bulk density:	not determined

9.2. Further Information

Solubility in solvents:	
Viscosity, kinematic:	
Burning class:	
Solvent content:	Organic solvent: 6 % (w/w) Water: 0 % (w/w)
Solid content:	94 % (w/w)
Particle size:	
Other information:	

10. Stability and Reactivity

10.1. Reactivity	Stable if used according to specifications.
10.2. Chemical Stability	
10.3. Possibility of Hazardous Reactions	Exothermic reaction.
10.4. Conditions to Avoid	
Conditions to avoid:	Avoid heat.
Thermal decomposition:	Avoid heat.
10.5. Incompatible Materials	Strong acids, strong bases and strong oxidizing agents.

next page: 9

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



425007 Red Lead in Linseed Oil

Page 9

Revised edition: 28.01.2021

Version: 3.2

Printed: 01.02.2021

10.6. Hazardous Decomposition Products

In case of fire: formation of carbon oxides, nitrogen oxides and other toxic gases

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

Harmful if swallowed.

LD50, dermal:

LC50, inhalation:

Primary effects

Irritant effect on skin:

No information available

Irritant effect on eyes:

Splashes can cause eye irritation and reversible damage to the eye.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No relevant data found.

Mutagenicity:

No relevant data found.

Reproductive toxicity:

May damage the unborn child. Suspected of damaging fertility. May cause harm to breast-fed children.

Carcinogenicity:

Can probably cause cancer.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Repeated exposure: may cause damage to organs through prolonged or repeated exposure.

Additional toxicological information:

Vapors have narcotic effects and can cause headache, tiredness, dizziness, vomiting, unconsciousness and cramps.

Inhalation: Long-term overexposure may cause headache, dizziness, fatigue, muscle weakness, drowsiness and in extreme cases loss of consciousness.

Repeated or long-term contact with the product can cause drying

next page: 10

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



425007 Red Lead in Linseed Oil

Page 10

Revised edition: 28.01.2021

Version: 3.2

Printed: 01.02.2021

of the skin.

12. Ecological Information

12.1. Aquatic Toxicity

Very toxic for aquatic organisms, with long-term adverse effects.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12.2. Persistency and Degradability

No information available.

12.3. Bioaccumulation

No information available.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

The contents of the preparation do not comply with the criteria for the classification as PBT or vPvB.

12.6. Other Adverse Effects

Water hazard class:

3, hazardous

Behaviour in sewage systems:

Further ecological effects:

Do not let product enter waterways or sewage system.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Do not allow product to leak into the sewage system, waters or soil. This material and its container must be disposed of in a safe way.

Dispose according to the waste disposal guidelines 2008/98/EC.

European Waste Code (EWC):

080111 - Waste paint and varnish containing organic solvents or other dangerous substances

Uncleaned packaging:

Non-contaminated and emptied packaging may be taken for reuse.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

1263

next page: 11

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



425007 Red Lead in Linseed Oil

Page 11

Revised edition: 28.01.2021

Version: 3.2

Printed: 01.02.2021

14.2. UN Proper Shipping Name

ADR/RID: FARBE

IMDG/IATA: PAINT

14.3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel restriction code: D/E

IMDG Class (sea): 3

Hazard no.: 3

EmS No.: F-E, S-E

IATA Class: 3

Hazard no.: 3

14.4. Packaging Group

ADR/RID: III

IMDG: III

IATA: III

14.5. Environmental Hazards

Labelling according 5.2.1.8 ADR/RID: fish and tree

Labelled with "P" according 2.10 IMDG: yes

14.6. Special Precautions for User

Always transport containers in an upright position to avoid spilling.
Take care to inform all involved persons how to handle product in case of leak (see Sections 6-8).

14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

14.8. Further Information

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

3, very hazardous for water (German Regulation)

Local regulations on chemical accidents:

Employment restrictions:

The employment restrictions for young workers in accordance with the Youth Employment Protection Law are to be observed.

The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline are to be observed.

Restriction and prohibition of application:

Restricted to professional users.

next page: 12

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



425007 Red Lead in Linseed Oil

Page 12

Revised edition: 28.01.2021

Version: 3.2

Printed: 01.02.2021

Technical instructions on air quality:

5.2.5.: *Organic substances: $m \geq 0.50$ kg/h: conc. 50 mg/m³ (50%)*

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for the component substances contained in this product.

EC SVHC-List (REACH, Annex XIV): Lead(II,IV) oxide

15.3. Further Information

Special labelling instructions:

Contains lead, do not use for paint of objects which could be licked or chewed by children.

Directive 2010/75/EC:

VOC-Value (in g/l): 211.494

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.