

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

Identification of the Product

Product Name: Zinc White in Linseed Oil
Article No.: 463207
Use of the Substance/Preparation: Artists' and Restoration Material

Company

Company: Kremer Pigmente GmbH & Co. KG
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2. Hazard Identification

GHS Classification: Hazardous to the aquatic environment, acute category 1
Hazardous to the aquatic environment, chronic category 1
Risk Phrases: R50 Very toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.
Additional information: Materials impregnated with oil may spontaneously combust after a long induction period due to gradual exothermic reaction with oxygen.

3. Composition/Information on Ingredients

Chemical Characterization: Preparation made of linseed oil and zinc white.
Linseed oil (oxidized): CAS No. 68649-95-6; EINECS 272-038-8
Hazardous Ingredients: Zinc oxide (N; R50-53) 60-80 %
CAS-Nr: 1314-13-2 EINECS-Nr: 215-222-5 EC-Nr: 030-013-00-7

4. First Aid Measures

After inhalation: Remove person to fresh air. In case of complaints consult a physician.
After skin contact: Wash off immediately with plenty of soap and water and rinse thoroughly.
After eye contact: Rinse open eyes with plenty of water for at least 15 minutes.
After ingestion: Rinse mouth with water and drink plenty of water.

5. Fire-Fighting Measures

Suitable extinguishing media: Foam, carbon dioxide (CO₂), extinguishing powder, dry sand.
Unsuitable extinguishing media: Water
Protective equipment: No special measures required.

6. Accidental Release Measures

Personal precautions: No special measures required.
Environmental precautions: Prevent contamination of soil, drains and surface waters.

Methods of cleaning/absorption: Contain with inert absorbent material (e.g. sand, acid binder, universal binder, sawdust) and collect in appropriate containers for disposal.

7. Handling and Storage

Handling

Instructions on safe handling: Provide adequate ventilation.
Information on fire and explosion protection: Self-ignition resp. auto-oxidation is possible.

Storage

Storage conditions: Store in tightly sealed containers in a dry room.
Store out of direct sunlight.
Store at temperatures between 10 and 30°C.
Requirements for storage areas and containers: Suitable container material: stainless steel.
Storage compatibility: Do not store together with: strong oxidants.

8. Exposure Controls/Personal Protection

Additional information about design of technical systems: No further measures, see Section 7.

Personal protective equipment

General protective measures: The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection: Not required.
Hand protection: Protective gloves. The glove material must be sufficient impermeable and resistant to the substance.
Protective glove material: Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time.
Eye protection: Recommended.

9. Physical and Chemical Properties

Form: paste
Color: white
Odor: characteristic
Boiling temperature: polymerizes further when heated
Flash point: 315-320°C
Explosion risk: Product does not present an explosion hazard.
Density: 0.94 - 0.95 g/cm³
Solubility in water: insoluble
Viscosity dynamic: 75 - 100 mPas
Further information: Pour point: -10°C
The data is based on linseed oil.

10. Stability and Reactivity

Revised edition: 31.08.2010

Thermal decomposition/Conditions to be avoided:	Self-ignition resp. auto-oxidation is possible.
Substances to be avoided:	Strong oxidizing agents.
Hazardous reactions:	Unknown.
Hazardous decomposition products:	Carbon monoxide and dioxide. Acrolein.

11. Toxicological Information

Acute toxicity

LD50, oral: Linseed oil: > 5000 mg/kg (rat)

Primary effects

Irritant effect on skin: Non irritating
Irritant effect on eyes: Non-irritating to eyes
Sensitization: No sensitizing effects known.

Further toxicological effects: No health impairments known or expected when used according to specifications.

12. Ecological Information

Elimination (Persistency and Degradability): Readily biodegradable.

Ecological effects

Aquatic toxicity: :
- Fish toxicity: LC50: > 390 mg/l (96h, Brachydanio rerio)
- Bacteria toxicity: EC10: 6000 mg/l (Pseudomonas putida)

Further information

Water hazard class: 2
Do not let product contaminate ground water, waterways or sewage system.

13. Disposal Considerations

Product: Dispose of according to official national and local regulations.
Uncleaned packaging: Dispose of according to official local regulations.

14. Transport Information

Road Transportation ADR/RID

Class: 9
Packaging group: III
UN No.: 3082
Classification code: M6
Tunnel No.: E
Hazard No.: 9

Revised edition: 31.08.2010

Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Zinc Oxide)

Sea transportation

IMDG/GGVSee Class: 9
Packaging group: III
UN No.: 3082
EmS No.: F-A,S-F
Hazard No.: 9
Marine pollutant: P


Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Zinc Oxide)

Air transportation

ICAO/IATA Class: 9
Packaging group: III
UN No.: 3082
Hazard No.: 9

Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Zinc Oxide)

15. Regulatory Information

Designation according to GHS guidelines: Environmentally hazardous
Hazard designation: H410 Very toxic to aquatic life with long lasting effects.
Safety designation: P273 Avoid release to the environment.
Designation according to EC Guidelines: The material is subject to classification according to EC lists.
Hazard designation:  N Hazardous to the environment

Risk Phrases: R50 Very toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.
Safety Phrases: S61 Avoid release to the environment. Refer to special instructions / Safety data sheets.
S60 This material and its container must be disposed of as hazardous waste.
Water hazard class: 2, hazardous for water

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.