

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


Identification of the Product

Product Name: Zinc White
Article No.: 46300
Use of the Substance/Preparation: Artists' and Restoration Material

Company

Company: Kremer Pigmente GmbH & Co. KG
Address: Hauptstrasse 41-47, D 88317 Aichstetten
Tel/Fax: Tel +49 7565 91120, Fax +49 7565 1606
Internet: www.kremer-pigmente.de, kremer-pigmente@t-online.de
Emergency No.: +49 7565 91120, Mon-Fri 8:00 - 17:00

2. Hazard Identification

Hazard designation:  N Hazardous to the environment

Risk Phrases: R53 May cause long-term adverse effects in the aquatic environment.
R50 Very toxic to aquatic organisms.

3. Composition/Information on Ingredients

Chemical Characterization: Pure zinc oxide.
Hazardous Ingredients: Zinc oxide (N; R50,53)
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: Remove contaminated clothing. Wash off immediately with plenty of water and soap.
After eye contact: In case of complaints consult physician.
After eye contact: Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.
After ingestion: Rinse mouth thoroughly with plenty of water and drink plenty of water. Consult physician.

5. Fire-Fighting Measures

Suitable extinguishing media: Product itself does not burn.
Use extinguishing media for surrounding fire.
Protective equipment: Use self-containing breathing apparatus.
Special hazards: In case of fire: formation of zinc oxide fumes.
Further information: Contaminated extinguishing water and debris should be collected separately; avoid contamination of sewage system.

6. Accidental Release Measures

Revised edition: 27.10.2006

Personal precautions:	Ensure adequate ventilation. Avoid dust formation. Do not inhale dust. Avoid contact with eyes and skin.
Environmental precautions:	Do not discharge into drains, surface or ground water.
Methods of cleaning/absorption:	Clean up mechanically. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

7. Handling and Storage

Handling

Instructions on safe handling:	Provide adequate ventilation. Avoid formation and deposition of dust. Provide adequate ventilation. Avoid contact with eyes and skin.
--------------------------------	---

Storage

Storage conditions:	Store in tightly sealed containers in a dry and cool room.
Storage class (VCI):	10-13

8. Exposure Controls/Personal Protection

Components with workplace control parameters (Germany):	MAC: 10 mg/m ³ general dust limit inhalable fraction. MAC-Value: 3 mg/m ³ air-borne fraction (general dust limit)
---	--

Personal protective equipment

General protective measures:	Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of the shift. Avoid contact with eyes and skin.
Respiratory protection:	In case of formation of dust.
Hand protection::	Protective gloves (EN 374) The manufacturer's directions for use should be observed because of the great diversity of types.
Protective glove material:	Protective gloves (nitrile rubber).
Eye protection:	Tightly fitting safety goggles.
Body protection:	Protective clothing.

9. Physical and Chemical Properties

Form:	powder
Color:	white
Odor:	odorless
Melting temperature:	1975°C
Boiling temperature:	not determined
Flash point:	not applicable
Density:	5.60 g/cm ³ (20°C)
Bulk density:	300 - 500 kg/m ³
Solubility in water:	0.0016 g/l
pH-Value:	7 - 8

10. Stability and Reactivity

Thermal decomposition/Conditions to be avoided:	No decomposition if used according to specifications.
Substances to be avoided:	Strong acids and alkalis.
Hazardous decomposition products:	Fumes of zinc oxide.

11. Toxicological Information

Acute toxicity

LD50, oral:	7950 mg/kg (rat)
	LDLo: 500 mg/kg (human)
LD50, inhalation:	LC0: > 5 mg/m ³ (3h, rat)

Primary effects

Irritant effect on skin:	Dust may cause irritation.
Irritant effect on eyes:	Dust may cause irritation.
Sensitization:	No sensitizing effects known.

12. Ecological Information

Elimination (Persistency and Degradability):	Method is not applicable for inorganic substances.
Mobility and Bioaccumulation:	No information available.
Further ecological effects:	May cause long-term adverse effects in the aquatic environment. Prevent product from entering surface water and drains.

Further information

Water hazard class:	2
---------------------	---

13. Disposal Considerations

Product:	Dispose of according to official national and local regulations.
Waste Code No.:	The waste code must be determined with the regional disposal service.

14. Transport Information

Road Transportation ADR/RID

Class:	9
Packaging group:	III
UN No.:	3077
Classification code:	M7
Tunnel No.:	E
Hazard No.:	9
Correct technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Sea transportation

IMDG/GGVSee Class:	9
Packaging group:	III


Revised edition: 27.10.2006

UN No.: 3077
EmS No.: F-A,S-F
Hazard No.: 9
Marine pollutant: P
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S. (Zinc oxide)

Air transportation

ICAO/IATA Class: 9
Packaging group: III
UN No.: 3077
Hazard No.: 9
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S. (Zinc oxide)

15. Regulatory Information

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: S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Water hazard class: 2, hazardous for water

Further information

The product/preparation is registered in the following national inventories:
EINECS (EU), TSCA (US), DSL (CN), ENCS (JP), PICCS (PH), KECI (KR)

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.