

Trade name: GERSTAECKER Artists Pigments - Zinc White

Print date: 06.06.19

Item No. 71165

Version: 1 / DE

Date revised: 16.05.2019

Replaces Version: - / DE

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

71165 GERSTAECKER Artists Pigments - Zinc White

Registration no.EC No.: 215-222-5
CAS No. 1314-13-2**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/preparation**

Colourant

1.3. Details of the supplier of the safety data sheet**Address**Johannes Gerstaecker Verlag GmbH
Wecostraße 4
53783 Eitorf
Telefon 02243/ 889-0
www.gerstaecker.de**1.4. Emergency telephone number**

+49 (0) 551 - 19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification (Regulation (EC) No. 1272/2008)**Classification (Regulation (EC) No. 1272/2008)
Aquatic Acute 1 H400
Aquatic Chronic 1 H410The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.**2.2. Label elements****Labelling according to regulation (EC) No 1272/2008****Hazard pictograms****Signal word**

Warning

Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statementsP273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container according to waste.**2.3. Other hazards**

Dust loading

SECTION 3: Composition/information on ingredients**3.1. Substances****Chemical characterization**

Trade name: GERSTAECKER Artists Pigments - Zinc White

Print date: 06.06.19

Item No. 71165

Version: 1 / DE

Date revised: 16.05.2019

Replaces Version: - / DE

Zinc oxide

Hazardous ingredients (Regulation (EC) No. 1272/2008)**Zinc oxide**

CAS No.	1314-13-2	
EINECS no.	215-222-5	
Concentration	99,9	%

Classification (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	H400
Aquatic Chronic 1	H410

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of persistent symptoms consult doctor.

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

Remove contaminated clothing. Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Call in a physician immediately and show him the Safety Data Sheet.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Inhalation of dusts may irritate the respiratory tract. The following symptoms may occur: Coughing, Asthmatic complaints, Gastrointestinal complaints

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

Inhalation can lead to flu-like illnesses (metal fume fever).

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Foam, Carbon dioxide

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Irritant and harmful combustion products.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Wear full protective suit.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Do not inhale dust. Use breathing apparatus if exposed to vapours/dust/aerosol. Ensure adequate ventilation. Use personal protective clothing. High risk of slipping due to leakage/spillage of product. Refer to protective measures listed in Sections 7 and 8. Remove persons to safety.

Trade name: GERSTAECKER Artists Pigments - Zinc White

Print date: 06.06.19

Item No. 71165

Version: 1 / DE

Date revised: 16.05.2019

Replaces Version: - / DE

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

Avoid raising dust. Pick up mechanically. Place in a suitable container. Containers in which spilt substance has been collected must be adequately labelled. When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid the formation and deposition of dust. Provide exhaust ventilation if dust is formed. Ensure adequate ventilation. Handle and open container with care. Provide suitable exhaust ventilation at the processing machines. Use breathing apparatus when transferring large quantities without exhaust ventilation facilities. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Observe the usual precautions for handling chemicals. Avoid skin and eye contact.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities**Hints on storage assembly**

Do not store together with foodstuffs.

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from direct sunlight. Protect from extreme heat and cold.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****Zinc oxide**

List	TRGS 900
Type	MAK
Value	5 mg/m ³
Maximum limit value: 4; Status: 02.04.2014; Remarks: DFG	

Other information

The national general dust limit must be observed.
TRGS 900: Observe the general dust threshold.

8.2. Exposure controls**General protective and hygiene measures**

Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Use barrier skin cream. Observe the usual precautions for handling chemicals. Take off immediately all contaminated clothing.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Particle filter P2; The respiratory protection must comply with the relevant CEN standards. Use breathing apparatus in dust-laden atmosphere.

Hand protection

Chemical resistant gloves
Appropriate Material rubber
Appropriate Material Leather
Hand protection must comply with EN 374.

Observe the information of the glove manufacturers on permeability and breakthrough times and other workplace requirements.

Eye protection

Trade name: GERSTAECKER Artists Pigments - Zinc White

Print date: 06.06.19

Item No. 71165

Version: 1 / DE

Date revised: 16.05.2019

Replaces Version: - / DE

Safety glasses with side protection shield; Eye protection must comply with EN 166.

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	Powder
Colour	see tradename
Odour	characteristic
Odour threshold	
Remarks	not determined
pH value	
Value	7 to 8
Temperature	20 °C
Method	Value taken from the literature
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	
Remarks	Not applicable
Flash point	
Remarks	Not applicable
Evaporation rate (ether = 1) :	
Remarks	not determined
Flammability (solid, gas)	
not determined	
Upper/lower flammability or explosive limits	
Remarks	not determined
Vapour pressure	
Remarks	not determined
Vapour density	
Remarks	not determined
Density	
Value	5,68 g/cm ³
Temperature	20 °C
Source	Literature value
Solubility in water	
Remarks	not determined
Solubility(ies)	
Remarks	not determined
Partition coefficient: n-octanol/water	
Remarks	not determined
Ignition temperature	
Remarks	not determined
Decomposition temperature	
Remarks	not determined
Explosive properties	
evaluation	not determined
Oxidising properties	
Remarks	not determined
9.2. Other information	
Other information	
None known	

SECTION 10: Stability and reactivity

Trade name: GERSTAECKER Artists Pigments - Zinc White

Print date: 06.06.19

Item No. 71165

Version: 1 / DE

Date revised: 16.05.2019

Replaces Version: - / DE

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Zinc oxide and magnesium can react violently when heated. Chlorinated rubber and zinc oxide react violently and explosively at about 216 ° C. Violent reactions are also possible with hydrogen peroxide.

10.4. Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

Decomposition temperature

Remarks not determined

10.5. Incompatible materials

Acids, Oxidising agents, Alkalis, Incompatible with alkaline substances .

10.6. Hazardous decomposition products

Toxic gases/vapours, Toxic metal oxide fumes

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

Remarks not determined

Acute oral toxicity (Components)**Zinc oxide**

Species	rat	
LD50	> 5000	mg/kg
Method	OECD 401	
Remarks	Based on available data, the classification criteria are not met.	
Source	Literature value	

Acute dermal toxicity

Remarks not determined

Acute inhalational toxicity

Remarks not determined

Acute inhalative toxicity (Components)**Zinc oxide**

Species	rat	
LC50	> 5,7	mg/l
Method	OECD 403	
Remarks	Based on available data, the classification criteria are not met.	
Source	Literature value	

Skin corrosion/irritation**Zinc oxide**

Species	rabbit	
Duration of exposure evaluation	25	h
Source	non-irritant	
Source	Literature value	
Source	Löser, 1977; Lansdown, 1991	

Serious eye damage/irritation

Remarks	not determined
Remarks	Eye contact with the product may lead to irritation.

Sensitization

Remarks not determined

Subacute, subchronic, chronic toxicity

Remarks	not determined
Remarks	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Mutagenicity

Remarks not determined

Trade name: GERSTAECKER Artists Pigments - Zinc White

Print date: 06.06.19

Item No. 71165

Version: 1 / DE

Date revised: 16.05.2019

Replaces Version: - / DE

Reproductive toxicity

Remarks not determined

Carcinogenicity

Remarks not determined

Specific Target Organ Toxicity (STOT)

Remarks not determined

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

Fish toxicity (Components)**Zinc oxide**

LC50 0,169 mg/l

Source Literature value

Algae toxicity (Components)**Zinc oxide**

LC50 0,136 mg/l

Source Literature value

12.2. Persistence and degradability**General information**

not determined

Physico-chemical eliminability**Zinc oxide**

Remarks Slightly water-soluble inorganic product. It can be removed to a large extent in a chemical purification plant.

12.3. Bioaccumulative potential**General information**

Zinc is a natural element indispensable to all living organisms. Living organisms have a self-regulating mechanism that actively regulates the zinc uptake as well as absorption and excretion by the body. Does not accumulate in organisms.

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil**General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**

The components of the product are not considered PBT or vPvB.

12.6. Other adverse effects**General information**

not determined

General information / ecology

Avoid entry in the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities.

Dispose of as hazardous waste.

Trade name: GERSTAECKER Artists Pigments - Zinc White

Print date: 06.06.19

Item No. 71165

Version: 1 / DE

Date revised: 16.05.2019

Replaces Version: - / DE

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.
Uncontaminated packaging may be taken for recycling.

SECTION 14: Transport information**Land transport ADR/RID****14.1. UN number**

UN 3077

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

Class 9

Label 9

14.4. Packing group

Packing group III

Limited Quantity 5 kg

Transport category 3

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS

Tunnel restriction code E

Marine transport IMDG/GGVSee**14.1. UN number**

UN 3077

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

Class 9

14.4. Packing group

Packing group III

14.5. Environmental hazards

Marine Pollutant

Air transport ICAO/IATA**14.1. UN number**

UN 3077

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

Class 9

14.4. Packing group

Packing group III

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class (Germany) WGK 2

Identification number 2187

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H400 Very toxic to aquatic life.

Trade name: GERSTAECKER Artists Pigments - Zinc White

Print date: 06.06.19

Item No. 71165

Version: 1 / DE

Date revised: 16.05.2019

Replaces Version: - / DE

H410

Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Acute 1

Hazardous to the aquatic environment, acute, Category 1

Aquatic Chronic 1

Hazardous to the aquatic environment, chronic, Category 1

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

AGW: Arbeitsplatzgrenzwert

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water)

BGW: Biologischer Grenzwert

CAS: Chemical Abstracts Service

DNEL: Derived no effect level

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

GGVSee: Gefahrgutverordnung See

IARC: International Agency for Research on Cancer

IATA: International Civil Aviation Organization

ICAO: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC: Lethal concentration

LD: Lethal dose

MAK: Maximale Arbeitsplatz-Konzentration

NOEC: No observable effect concentration

NOEL: No observable effect level

OECD: Organisation for Economic Co-operation and Development

OEL: Occupational exposure limit

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted no effect concentration

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

TRGS: Technische Regeln für Gefahrstoffe

VDI: Verein Deutscher Ingenieure

VLEP: Valeurs Limites d'exposition Professionnelle

vPvB: Very persistent and very bioaccumulative

WGK: Wassergefährdungsklasse (water hazard class)

Supplemental information

These data are based on our present knowledge and experience respectively supplier-information. This safety data sheet describes the product in regard to the requirements of safety. These data do not have the significance of a property assurance. Existing laws and regulations are to be noticed by the receiver of our product in own responsibility. It is the responsibility of the user, to determine if the product is suitable for the deliberate operational area and the respective intended purpose. A liability for damages in connection with the use of this information is excluded. Relevant changes compared with the previous version of the safety data sheet are marked with: ***