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# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.03.2023

Version number 2.00 (replaces version 1.00)

Revision: 20.03.2023

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

- · Product identifier
- · Trade name: Zinc oxide, API
- · Article number: 2735
- · CAS Number:
- 1314-13-2
- EC number:
- 215-222-5
- · Index number: 030-013-00-7
- **Registration number** The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.
- · Uses advised against No relevant information available.
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier: CAELO
   Caesar & Loretz GmbH
   Herderstr. 31
   D-40721 Hilden
   GERMANY
- Further information obtainable from:
   E-mail: info@caelo.de
   Tel.: +49210349940 (during regular opening hours)
   Emergency telephone number:
   Descalar from the phone
- Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn Tel: +49 (0) 228-192400

### 2 Hazards identification

- · Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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· Hazard pictograms

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- · Signal word Warning
- · Hazard statements
- H410 Very toxic to aquatic life with long lasting effects.
- Precautionary statements
- P273 Avoid release to the environment.
- P391 Collect spillage.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Determination of endocrine-disrupting properties Not applicable.

#### 3 Composition/information on ingredients

- · Substances
- · CAS No. Description
- CAS: 1314-13-2 zinc oxide
- Identification number(s)
- EC number: 215-222-5
- · Index number: 030-013-00-7

#### 4 First aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

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#### 5 Firefighting measures

· Extinguishing media

#### Suitable extinguishing agents:

All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- · Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
 Avoid formation of dust.
 Avoid contact with the substance.
 Environmental precautions:

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Take up dry. Clean up with water.

Dispose contaminated material as waste according to item 13.

Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

### 7 Handling and storage

• Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:
- Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- **Information about storage in one common storage facility:** Do not store together with alkalis (caustic solutions).
- Do not store together with acids.
- Further information about storage conditions: No further information
- Storage class: TRHS 510: 13 non-combustible solids
- Specific end use(s) No further relevant information available.

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<ul> <li>Control parameters</li> <li>Ingredients with limit values that requi</li> </ul>	re monitoring at the workplace:
	re montoring at the workplace.
CAS: 1314-13-2 zinc oxide	
OEL Short-term value: 10 mg/m <sup>3</sup>	
Long-term value: 2* mg/m <sup>3</sup> *respirable fraction	
Additional information: The lists valid d	uring the making were used as basis
	uning the making were used as basis.
Exposure controls	
Appropriate engineering controls No fu	
Individual protection measures, such a	
General protective and hygienic measurements The usual precautionary measures are to	
Respiratory protection: Dust protection	
Hand protection Protective gloves	mask.
Material of gloves	
	e and resistant to the product/ the substance/ the preparation.
Rubber gloves	
	not only depend on the material, but also on further marks of
quality and varies from manufacturer to m	
Penetration time of glove material	
The exact break through time has to be for	ound out by the manufacturer of the protective gloves and has t
be observed.	
be observed. · <b>Eye/face protection</b> Safety glasses	
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Salubility	(Contd. of page 4)
Solubility	0.002 all
water at 20 °C:	0.002 g/l
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
· Density and/or relative density	
Density at 20 °C:	5.68 g/cm <sup>3</sup>
Relative density	Not determined.
Bulk density:	300-500 kg/m <sup>3</sup>
· Vapour density	Not applicable.
Particle characteristics	Not determined
· Other information	
· Appearance:	
· Form:	Solid
	Solid
<ul> <li>Important information on protection of health and onvironment, and on safety.</li> </ul>	
and environment, and on safety.	Not determined
• Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	Net and Part I.
· Evaporation rate	Not applicable.
Information with regard to physical hazard	
classes	
Explosives	Void
	Void
· Flammable gases	Void
	Void
· Aerosols	Void
A000015	Void
· Oxidising gases	Void
Oxidiality gases	Void
· Gases under pressure	Void
Oases under pressure	Void
· Flammable liquids	Void
า เล่าแกลมเอ แนนเนอ	Void
· Flammable solids	Void
	Void
· Self-reactive substances and mixtures	Void
Sen-reactive Substances and mixtures	
. Dyrophorio liquido	Void
· Pyrophoric liquids	Void
- Duranharia calida	Void
· Pyrophoric solids	Void
O - If he - the manufacture of the list	Void
Self-heating substances and mixtures	Void
	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
	Void (Outline and O
	(Contd. on page 6)

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#### Trade name: Zinc oxide, API

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<ul> <li>Oxidising liquids</li> </ul>	Void	· · · · · · · · · · · · · · · · · · ·
	Void	
<ul> <li>Oxidising solids</li> </ul>	Void	
	Void	
Organic peroxides	Void	
	Void	
Corrosive to metals	Void	
	Void	
<ul> <li>Desensitised explosives</li> </ul>	Void	
-	Void	

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials:
- Acids
- Alkalis

· Hazardous decomposition products: No dangerous decomposition products known.

#### 11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

#### CAS: 1314-13-2 zinc oxide

Oral LD50 >10,000 mg/kg (rat)

- Skin corrosion/irritation
- Slightly irritant.
- Based on available data, the classification criteria are not met.
- Serious eye damage/irritation
- Slight irritation.
- Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation 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.
- Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.



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#### Trade name: Zinc oxide, API

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#### 12 Ecological information

### · Toxicity

· Aquatic toxicity:

#### CAS: 1314-13-2 zinc oxide

EC50 0.17 mg/L /4d (Fish)

- EC10 0.1 mg/L (Microorganism)
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

- Other adverse effects
- Remark: Very toxic for fish
- Additional ecological information:
- **General notes:**

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

#### 13 Disposal considerations

- · Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to local regulations.

#### 14 Transport information

- · UN number or ID number
- · ADR, IMDG, IATA
- · UN proper shipping name
- · ADR

UN3077

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide) ·IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide), MARINE POLLUTANT (Contd. on page 8)



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#### Trade name: Zinc oxide, API

	(Contd. of page 7) Environmentally hazardous substance, solid, n.o.s. (zinc oxide)
<ul> <li>Transport hazard class(es)</li> </ul>	,
· ADR, IMDG, IATA	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· Packing group	
ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
<ul> <li>Special precautions for user</li> </ul>	Warning: Miscellaneous dangerous substances and articles.
<ul> <li>Hazard identification number (Kemler code</li> </ul>	): 90
EMS Number:	F-A,S-F
<ul> <li>Maritime transport in bulk according to IMC</li> </ul>	)
instruments	Not applicable.
<ul> <li>Transport/Additional information:</li> </ul>	
· ADR	
<ul> <li>Limited quantities (LQ)</li> </ul>	5 kg
Transport category	3
• Tunnel restriction code	E
·IMDG	
<ul> <li>Limited quantities (LQ)</li> </ul>	5 kg

#### **15 Regulatory information**

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

· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed

· REGULATION (EC) No 1907/2006 ANNEX XVII Not listed

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II Substance is not listed.

· National regulations:

Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 13 non-combustible solids

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

Reasons for alterations This version replaces all old versions.

· Version number of previous version: 1.00



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#### · Abbreviations and acronyms:

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ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1