

Trade name: Zinci oxidum pulv

Substance number: 068569

Version: 1 / CH

Date revised: 27.05.14

Replaces Version: - / CH

Date of printing: 27.05.14

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

1.1. Product identifier

Zinci oxidum pulv

Item-No.

06856907

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

industry, Colours, Component of cosmetic products, pharmacy

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no.

0041 (0)71 353 58 58

E-mail address of

sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

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 H410

Classification in accordance with EC directives

Classification

N, R50/53

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 statements

P273

Avoid release to the environment.

P391

Collect spillage.

P501.1

Dispose of contents/container to be taken to an authorised special waste incineration plant.

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Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Hazard symbols



Dangerous for the environment

R phrases

50/53

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

60

This material and its container must be disposed of as hazardous waste.

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Avoid release to the environment. Refer to special instructions/Safety data sheets.

3. Composition/information on ingredients

Registration no.

EC No.: 215-222-5

Substance / product identification

REACH Registry No. 01-2119463881-32-0043

Chemical characterization

Zinci oxidum pulv

Molecular weight

Value	81.83	g/mol
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Hazardous ingredients

Zinc oxide

CAS No. 1314-13-2

EINECS no. 215-222-5

Concentration \geq 50 %

Classification N, R50/53

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

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

4. First aid measures

4.1. Description of first aid measures

General information

Remove affected person from danger area.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well. Remove contaminated, soaked clothing

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immediately and dispose of safely.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

After ingestion

Rinse out mouth and give plenty of water to drink. In the event of symptoms take medical treatment.

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

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Non Suitable extinguishing media

water jet.

5.2. Special hazards arising from the substance or mixture

None known

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

In case of combustion use a suitable breathing apparatus. Wear protective clothing. Do not allow run-off from fire fighting to enter drains or water courses.

Other information

Cool endangered containers with water spray jet.

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

Wear protective equipment. Avoid dust formation. Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter drains or waterways. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Dampen, pick up mechanically and dispose of.

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

Avoid longer or repeated exposition. Avoid dust formation. Provide good ventilation of working area (local exhaust ventilation if necessary).

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in a dry place. Keep container tightly closed and dry.

Hints on storage assembly

Do not store with strong acids. Do not store with strong alkalies.

VCI storage category

VCI storage category

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Non- combustible solids

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Further information on storage conditions

Keep only in the original container, tightly closed, in a well ventilated place.

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

List	SUVA	
Type	MAK	
Value	3	mg/m ³
Short term exposure limit	3	mg/m ³
Maximum limit value: 15 min; Status: 2012		

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

Do not eat, drink or smoke during work time.

Respiratory protection

Dust mask; Short term: filter apparatus, Filter P2

Hand protection

Gloves	
Appropriate Material	Leather
Appropriate Material	rubber

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

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

Form	Solid substance		
Colour	white to yellow		
Odour	odourless		
Form	Powder		
Form	Granules		
pH			
Value	7	to	8
Melting point			
Value	1970	to	1975 °C
Sublimation point			
Value	appr. 1800		°C
Boiling point			
Remarks	Not applicable		
Solubility in water			
Value	< 2		mg/l
Solubility in other solvents			
organic solvents			
Remarks	insoluble		

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Remarks	soluble
Remarks	soluble

Octanol/water partition coefficient (log Pow)

Remarks	Not applicable
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9.2. Other information**Bulk density**

Value	300	to	2000	kg/m ³
Method	DIN 53466			

Other information

The product is not dangerous for explosions.

10. Stability and reactivity**10.1. Reactivity**

No dangerous reactions known.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Protect from direct sunlight. Protect from extreme heat and cold.

10.5. Incompatible materialshydrogen peroxide (H₂O₂). Magnesium, strong acids, Strong bases**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

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

Reference substance	Zinc oxide		
Species	rat		
LD50	>	5000	mg/kg
Source	IUCLID		

Acute inhalational toxicity

Reference substance	Zinc oxide		
Species	rat		
LC50	>	5.7	mg/l
Duration of exposure	4	h	

Skin corrosion/irritation

Species	rabbit
valuation	non-irritant
Method	OECD 404

Serious eye damage/irritation

Species	rabbit
valuation	non-irritant
Method	OECD 405

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Sensitization

Species guinea pig
valuation non-sensitizing

Mutagenicity

valuation No experimental information on genotoxicity in vitro available.
valuation No experimental indications on genotoxicity in vivo found.

Carcinogenicity

valuation No indications of carcinogenic effects are available from long-term trials.

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

Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

Daphnia toxicity

Reference substance Zinc oxide
Species Ceriodaphnia spec
EC50 0.413 mg/l
Duration of exposure 48 h

Reference substance Zinc oxide
Species Ceriodaphnia spec
CE50 0.67 mg/l
Duration of exposure 48 h

Algae toxicity

Reference substance Zinc oxide
Species Selenastrum capricornutum
136 µg/l
Duration of exposure 72 h

Reference substance Zinc oxide
Species Selenastrum capricornutum
ErC50 0.21 mg/l
Duration of exposure 72 h

12.2. Persistence and degradability**General information**

Not applicable

Biodegradability

Remarks Not applicable.

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow)**

Remarks Not applicable

12.4. Mobility in soil**Mobility**

Slightly mobile in soils

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential**

Does not bioaccumulate. The Substance meets PBT-criterions. The substance meets vPvB-criterions

12.6. Other adverse effects

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General information / ecology

Do not allow it to reach soil, ground water, water bodies or sewage system.

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

EWC waste code 06 03 16 metallic oxides other than those mentioned in 06 03 15
 Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

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.

14.3. Transport hazard class(es)

Class 9

Label 9

14.4. Packing group

Packing group III

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

UN 3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3. Transport hazard class(es)

Class 9

14.4. Packing group

Packing group III

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

UN 3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3. Transport hazard class(es)

Class 9

14.4. Packing group

Packing group III

15. Regulatory information**16. Other information****R-phrases listed in Chapter 3**

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard statements listed in Chapter 3

H400 Very toxic to aquatic life.

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H410

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Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.