



Trade name: Zinci chloridum

Substance number: 068528

Version: 1 / CH

Date revised: 17.02.12

Replaces Version: - / CH

Date of printing: 20.08.12

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

1.1. Product identifier

Zinci chloridum

Item-No. 06852800

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

Use of the substance/preparation

Manufacture of pharmaceutical products, food industry, pharmacy, Component of cosmetic products

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)

Acute Tox. 4 H302

Skin Corr. 1B H314

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Classification in accordance with EC directives

Classification Xn, R22

C, R34

N, R50/53

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal Word

Danger

Hazard statements

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

H410

Very toxic to aquatic life with long lasting effects.



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Precautionary statements

P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

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

Corrosive



Dangerous for the environment

R phrases

22 Harmful if swallowed.
 34 Causes burns.
 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 1/2 Keep locked up and out of the reach of children.

Hazardous component(s) to be indicated on label

contains Zinc chloride

3. Composition/information on ingredients**Molecular weight**

Value 136.30 g/mol

Hazardous ingredients**Zinc chloride**

CAS No. 7646-85-7
 EINECS no. 231-592-0
 Concentration >= 50 %
 Classification Xn, R22
 N, R50/53
 C, R34

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

Aquatic Chronic 1 H410
 Aquatic Acute 1 H400
 Acute Tox. 4 H302
 Skin Corr. 1B H314

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 3 H335 >= 5



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4. First aid measures

4.1. Description of first aid measures

After inhalation

Ensure supply of fresh air. Summon a doctor immediately.

After skin contact

In case of contact with skin wash off immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely. Summon a doctor immediately.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

After ingestion

Drink water in small gulps. Do not induce vomiting. Summon a doctor immediately. No trials on neutralisation.

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

Chemical burn, Coughing, Shortness of breath, Diarrhoea, Nausea, Vomiting, Cardiovascular disturbance, Danger of blindness.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings

5.2. Special hazards arising from the substance or mixture

The product is not combustible. If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Hydrogen chloride (HCl)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Use personal protective clothing.

Other information

Suppress vapours with water spray jet. Do not discharge into surface waters/groundwater.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not inhale dust. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Wear protective equipment. Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

For small amounts: take up with appropriate instrument and dispose. To pick up dry. Dampen, pick up mechanically and dispose of. Clean up affected area. Avoid raising dust.

6.4. Reference to other sections

Information regarding Waste Disposal, see chapter 13.



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7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Observe safety references and application instructions mentioned on can.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value 5 - 30

VCI storage category

VCI storage category 8B Non-combustible corrosive substances

Further information on storage conditions

Keep container tightly closed. Store in a dry place

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Zinc chloride

List SUVA
Type MAK
Value 1 mg/m³
Status: 2005;

8.2. Exposure controls

General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Preventative skin protection.
Wash hands and face after work.

Respiratory protection

necessary; Breathing apparatus in the event of aerosol. Particle filter P2

Hand protection

Use of the substance/preparation Permanent hand contact
Appropriate Material nitrile rubber - NBR
Material thickness 0.11 mm
Penetrating time > 480 min
Use of the substance/preparation Short-term hand contact
Appropriate Material nitrile rubber - NBR
Material thickness 0.11 mm
Penetrating time > 480 min

Eye protection

Tightly fitting safety glasses

Body protection

protective overalls

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form solid



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Colour	white		
Odour	odourless		
pH			
Value	appr.	5	
Concentration/H ₂ O		100	g/l
Temperature		20	°C
Melting point			
Value		283	°C
Boiling point			
Value		732	°C
Pressure		1.013	hPa
Flash point			
Remarks	Not applicable		
Vapour pressure			
Value		1.33	hPa
Temperature		428	°C
Solubility in water			
Value		4320	g/l
Temperature		25	°C

9.2. Other information**Bulk density**Value appr. 1400 to 1800 kg/m³**Other information**

The product is combustible.

10. Stability and reactivity**10.4. Conditions to avoid**

Heat

10.5. Incompatible materials

Reacts violently with: Strong oxidising agents, Reactions with various metals.

10.6. Hazardous decomposition products**Other information**

chemical stable

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

Species	rat		
LD ₅₀		350	mg/kg
Remarks	Harmful if swallowed.		
Source	RTECS		

Acute inhalational toxicity

Species	rat		
LCLo		2	mg/l
Duration of exposure		10	min
Remarks	Inhalation may lead to the formation of oedemas in the respiratory tract.		



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Source IUCLID

Skin corrosion/irritation

Remarks Corrosive

Serious eye damage/irritation

Remarks Danger acute eye damage.

Remarks Influence of the product with the eyes can lead to blindness.

Experience in practice

After Swallowing: burns in mouth, throat, oesophagus and gastrointetinal tract. Risk of perforation in the oesophagus and stomach. inhalation. Irritates the mucous membrane. Inhalations of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract. Product is caustic. When swallowed, there is a danger of blindness. Kidney damage is possible.

Other information

Observe the usual precautions for handling chemicals.

12. Ecological information**12.1. Toxicity****Fish toxicity**

Species	zebra fish (Brachydanio rerio)	
LC50	38	mg/l
Duration of exposure	96	h
Source	IUCLID	

Daphnia toxicity

Species	Daphnia magna	
EC50	0.33	mg/l
Duration of exposure	48	h
Source	IUCLID	

Algae toxicity

Species	Pseudokirchneriella subcapitata	
	0.1	mg/l
Duration of exposure	96	h

Bacteria toxicity

Species	activated sludge	
EC50	45	mg/l
Source	IUCLID	

12.2. Persistence and degradability**Biodegradability**

Remarks No data available.

12.6. Other adverse effects**General information / ecology**

Hazard for drinking water supplies. Do not allow it to reach ground water, water bodies or sewage system.

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

EWC waste code	Should not be released into the sanitary sewer system.
Disposal in compliance with local and national regulations.	



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Disposal recommendations for packaging

Dispose of as unused product.

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

UN 2331

14.2. UN proper shipping name

ZINC CHLORIDE, ANHYDROUS

14.3. Transport hazard class(es)

Class 8

Label 8

14.4. Packing group

Packing group III

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

UN 2331

14.2. UN proper shipping name

ZINC CHLORIDE, ANHYDROUS

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group III

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

UN 2331

14.2. UN proper shipping name

ZINC CHLORIDE, ANHYDROUS

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group III

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

22	Harmful if swallowed.
34	Causes burns.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard statements listed in chapter 3

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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.



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