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

• **Informations to product No. 2732**

• **Product name:**

**Zinkchlorid**  
 Zinci chloridum  
 Zinc chloride

• **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH  
 Herderstr. 31  
 40721 Hilden  
 Tel.: 02103/4994-0  
 Fax: 02103/32360  
 e-mail: info@caelo.de

• **Emergency telephone:**

Giftinformationszentrum Mainz  
 Langenbeckstr. 1, 55131 Mainz  
 Tel.: 06131/19240

• **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

• **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

## 2 Hazards identification

• **GHS-Labeling Elements:**




• **Signal word:** Danger

• **H-Phrases:**

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

• **P-Phrases:**

P273 Avoid release to the environment  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P301 IF SWALLOWED:  
 P330 Rinse mouth  
 P331 Do NOT induce vomiting  
 P310 Immediately call a POISON CENTER or doctor/physician  
 P305 IF IN EYES:  
 P351 Rinse continuously with water for several minutes

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**Acute Tox. 4**  
**Skin Corr. 1B**  
**Aquatic Acute 1**  
**Aquatic Chronic 1**

### 3 Composition / information on ingredients

• **Chemical characterization:**

**CAS-No. Substance name**

7646-85-7 Zinc chloride

• **EINECS-No.:** 231-592-0

• **Index-No.:** 030-003-00-2

• **REACH Reg. No.:** 01-2119472431-44-0000

• **INCI-Name:** Zinc Chloride

### 4 First aid measures

- **after inhalation:** Fresh air. Seek medical advice.
- **after skin contact:** Wash away with plenty of water. Mit Polyethylenglykol 400 abtupfen. Kontaminierte Kleidung sofort entfernen.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open , seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Drink plenty of water (if necessary some liters). Avoid vomiting (Danger of perforation). Seek medical advice immediately. No attempts of neutralization.

### 5 Fire-fighting measures


- **Suitable extinguishing media:** Not combustible. All regular extinguishing media can be used. Select fire fighting measures suitable to environment
- **Specific hazards during fire fighting:** In case of fire dangerous vapours/ gases can be released: Vapours (Chlorine, hydrogen chloride).
- **Additional information:** Precipitate released vapours with water. Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

### 6 Accidental release measures

- **Personal protective measures:** Avoid dust formation, Avoid inhalation of dust. Avoid contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Disposal according to Chapter 13 of this MSDS. Clean up with water.

### 7 Handling and storage

- **Handling:** Keep away from solvents.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room

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temperature ( +15°C to +25°C ). Store at a good ventilated place.

## 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of rubber.
- **Eye protection:** Safety glasses.
- **Body protection:** Change contaminated clothings immediately. Prophylactical skin protection. Wash hands after work.

## 9 Physical and chemical properties


- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 287 - 304 °C
- **Boiling point / boiling range:** 732 °C
- **Vapour pressure:** (428 °C) 1,33 hPa
- **Density:** (20 °C) 2,93 g/cm<sup>3</sup>
- **Bulk density:** ca. 1400 - 1800 kg/cbm
- **Solubility in / Miscibility with**
- **Water:** (25 °C) 851 g/l
- **pH-range:** (100 g/l, 20 °C) ca. 5

## 10 Stability and reactivity

- **Materials to avoid:** Do not store in metal containers.
- **Hazardous decomposition products:** Hydrogen chloride.

## 11 Toxicological information

- **Acute toxicity:**
- LD/LD50-data relevant for hazard classification:**  
7646-85-7 Zinc chloride  
Oral: LD50: 1100 mg/kg (rat)
- **Primary irritant effect:**
- **on skin:** Burning effect on skin and mucous membranes.
- **on eyes:** Strong burnings.
- **on respiratory organs:** Inhalation can cause edemes in respiratory tract.
- **after swallowing:** irritation of mucous membranes in mouth, throat, esophagus and gastrointestinal tract. Pains, vomiting, diarrhea. After ingestion of big quantities:  
Drop in blood pressure, cardiovascular disorders, collapse.

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## 12 Ecological information

- **Aquatic toxicity:**

Fish: LC50 Oncorhynchus mykiss 0,169 mg/l; 96 h (ECHA)

NOEC Oncorhynchus mykiss 0,199 mg/l; 30 d

Daphnia: EC50 Daphnia magna 0,33 mg/l; 48 h (OECD 202)

Algae: NOEC Pseudokirchneriella subcapitata 0,0049 mg/l; 72 h (OECD 201)

Bacteria: IC50 Sludge: 0,35 mg/l; 4 h (ISO/TC 147)

- **General advices:** Prevent from entering sewage water or drainage, even in small quantities.

- **Water hazard class:** 3 (VwVwS): very hazardous for water.

## 13 Disposal considerations

- **Product:**

- **Recommendation:** Disposal according to local regulations as pharmaceutical waste or inorganic laboratory chemicals.

- **Empty contaminated packaging:**

- **Recommendation:** Disposal according to the local regulations.

## 14 Transport informations

- **Land transport according to ADR:**

- **Proper shipping name:** Zinc chloride, anhydrous

- **Class:** 8

- **UN-number:** 2331

- **Packing group:** III

- **Classification code:** C2

- **Limited quantities (Table 3.4.6. ADR):** 5 kg

- **Hazard classification number:** 80

- **Special provisions (Chapter 3.3 ADR):** -

- **Tunnel code:** E

- **Additional informations for sea transport IMDG:**

- **EMS-No.:** F-A, S-B

- **Properties:** -

## 15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.

- **Hazard symbols:** GHS05, GHS07, GHS09

- **Signal word:** Danger

- **H-Phrases:**


H302 Harmful if swallowed

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H410 Very toxic to aquatic life with long lasting effects

- **P-Phrases:**

P273 Avoid release to the environment

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P280 Wear protective gloves/protective clothing/eye protection/face protection

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P330 Rinse mouth

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P310 Immediately call a POISON CENTER or doctor/physician

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

• **National regulations (Germany):**

• **Water hazard class:** see chapter 12

• **Storage class TRGS 510:** 8B

## 16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

• **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.