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

- Informations to product No. 4735
- Product name:

### Zinkgluconat

Zinci gluconas

Zinc gluconate

- 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



- Signal word: Warning

- H-Phrases:

H410 Very toxic to aquatic life with long lasting effects

- P-Phrases:

P273 Avoid release to the environment

## 3 Composition / information on ingredients

- Chemical characterization:

CAS-No. Substance name

4468-02-4 Zinc gluconate

- EINECS-No.: 224-736-9

- REACH Reg.-No.: 01-2120766672-46-0000

- INCI-Name: Zinc gluconate

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#### 4 First aid measures

- **after inhalation:** Fresh air. If irritations continue, seek medical advice.
- **after skin contact:** Wash away with water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** Drink water. Induce vomiting. Seek medical advice.

#### 5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** None (Combustible but not flammable).
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** 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 and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

#### 7 Handling and storage

- **Handling:** No special requirements. Ensure good ventilation / exhaustion at the workplace. Avoid formation of dust. Avoid inhalation of dust. Avoid contact with eyes.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature ( +15°C to +25°C ).

#### 8 Exposure controls / personal protective equipment

**Components with limit values that require monitoring at the workplace:**

None.

- **Personal protective equipment:**
- **General protective and hygiene measures:** The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Dust protection mask required if dust is released..
- **Hand protection:** Protection gloves of rubber or latex
- **Eye protection:** Safety glasses

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## 9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** -
- **Boiling point / boiling range:** -
- **Flash point:** not determined
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 100 g/l
- **pH-range:** (10 g/l, 20 °C) 6,5

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Decomposition above 155 °C.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

## 11 Toxicological information

- **Acute toxicity:**  
LD50 (rat, oral): > 5000 mg/kg
- **Primary irritating effect:** Adstringent properties.
- On skin:** Slightly irritant
- On eyes:** Slightly irritant
- **Sensitization:** Not sensitizing
- **after swallowing:** (big quantities): Irritations of mucous membranes, Gastrointestinal disorder.
- **Additional toxicological informations:** In case of appropriate handling and usage the product does not cause harmful effects.

## 12 Ecological information

- **Aquatic Toxicity:** EC EC 50/72h: (selenastrum capricornutum) < 1 mg/l  
After solution and formation of zinc salts harmful effect on water organisms. Toxic for fishes.
- **General advices:** Do not allow product to reach ground water, water course or sewage system even in small quantities. Danger to drinking water if even small quantities leak into the ground.
- **Water hazard class:** 2 (self classification): hazardous for water.

## 13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

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## 14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Environmentally hazardous substance, solid, n.o.s., Zinc gluconate
- **Class:** 9
- **UN-number:** 3077
- **Packing group:** III
- **Classification code:** M7
- **Limited quantities (Table 3.4.6. ADR):** 5 kg
- **Hazard classification number:** 90
- **Special provisions (Chapter 3.3 ADR):** 274
- **Tunnel code:** E
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-F
- **Properties:** m.p.

## 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:** GHS09
- **Signal word:** Warning
- **H-Phrases:**  
H410 Very toxic to aquatic life with long lasting effects
- **P-Phrases:**  
P273 Avoid release to the environment
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 11

## 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.