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

· **Informations to product No. 2392**

· **Product name:**

### **Magnesiumchlorid-Hexahydrat**

**Magnesii chloridum hexahydricum**

**Magnesium chloride hexahydrate**

· **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

· **Hazards identification:** The substance is not classified as dangerous according to European Union legislation.

## 3 Composition / information on ingredients

· **Chemical characterization:**

**CAS-No. Substance name**

7791-18-6 Magnesium chloride hexahydrate

· **EINECS-No.:** 232-094-6

· **REACH Reg. No.:** 01-2119485597-19-0000

· **INCI-Name:** Magnesium Chloride


## 4 First aid measures

· **after inhalation:** Fresh air.

· **after skin contact:** Wash away with plenty of water.

· **after eye contact:** Rinse out with plenty of water with the eyelid wide open.

· **after swallowing:** Drink water. Induce vomiting. Seek medical advice.

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## 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:** Not combustible.
- **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:** Keep away from solvents.
- **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

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

## 9 Physical and chemical properties

- **Form:** solid, crystalline
- **Colour:** colourless
- **Odour:** odourless
- **Melting point / melting range:** 117 °C Release of crystal water
- **Density:** (20 °C) 1,57 g/cm<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 1670 g/l; (100 °C) 3670 g/l
- **pH-range:** (50 g/l, 20 °C) 5 - 6,5

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## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**

Releases crystal water on heating.

- **Materials to avoid:** Sulfuric acid

- **Hazardous reactions:** Reaction with sulfuric acid generates hydrogen chloride.

- **Hazardous decomposition products:** none.

## 11 Toxicological information

- **Acute toxicity:**

LD50 (mouse, oral): 7600 mg/kg

LD50 (mouse, oral): 4700 mg/kg anhydrous substance.

- **Primary irritant effect:**

- **on skin:** Slight irritations

- **on eyes:** Slight irritations

- **on respiratory organs:** Slight irritations of mucous membranes.

- **after swallowing:** (big quantities): Illness, Vomiting, Diarrhea. Systemic effects:

Drop in blood pressure, cardiac arrhythmias, muscle weakness, paralysis.

After resorption of big quantities: respiratory paralysis, cardiovascular failure.

## 12 Ecological information

- **Aquatic toxicity:**

Quantitative ecotoxicological data for this product are not available.

For magnesium compounds generally: fatal for fishes 100 mg/l.

- **Water hazard class:** 1 (VwVwS): slightly 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.

## 14 Transport informations

- **Land transport according to ADR:**


Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

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

The product does not need to be labelled according to GHS-regulations.

- **National regulations (Germany):**

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- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 13

## 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.