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

- **Informations to product No. 2120**
- **Product name:**

Calciumchlorid-Dihydrat
Calcii chloridum dihydricum
Calcium chloride dihydrate

- **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:** Warning

- **H-Phrases:**

H319 Causes serious eye irritation

- **P-Phrases:**

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


P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

P337 If eye irritation persists:

P313 Get medical advice/attention

Eye Irrit. 2

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3 Composition / information on ingredients

· **Chemical characterization:**

CAS-No. Substance name

10035-04-8 Calcium chloride dihydrate

- **EINECS-No.:** 233-140-8
- **Index-No.:** 017-013-00-2
- **REACH Reg. No.:** 01-2119494219-28-0000
- **INCI-Name:** Calcium Chloride

4 First aid measures

- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately. Show product-label or this MSDS.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **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 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:** Not combustible. In case of fire dangerous gases / vapours can be released: Hydrogen chloride.
- **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:**
- **Advice on safe handling:** Avoid dust formation.
- **Storage:**
- **Requirements for storage areas and containers:** Keep container tightly closed and dry (Product is hygroscopic).

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8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **General protective and hygiene measures:** Keep away from food, beverages and animal food. Wash hands before breaks and after work. Avoid contact with eyes.
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of latex or rubber
- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** ca. 176 °C (dihydrate)
- **Boiling point / boiling range:** > 1600 °C
- **Density:** (20 °C) 1,85 g/cm³
- **Solubility in / Miscibility with**
- **Water:** (0 °C) ca. 1000 g/l
- **pH-range:** (50 g/l, 20 °C) 4,5 – 8,5

10 Stability and reactivity


- **Thermal decomposition / conditions to avoid:** Protect from moisture.
- **Materials to avoid:** water, vinyl methyl ether.
- **Hazardous decomposition products:** none.
- **Additional information:** Strong hygroscopic.

11 Toxicological information

- **Acute toxicity:**
- LD/LD50-data relevant for hazard classification:**
- Calciumchlorid LD50 oral 1000 mg/kg rat
- LD50 ip. 264 mg/kg rat
- LD50 sc. 2630 mg/kg rat
- LDLO iv. 161 mg/kg rat
- LD50 im. 25 mg/kg rat
- **Primary irritant effect:**
- **on skin:** Local irritations.
- **on eyes:** Irritant effect.
- **on respiratory organs:** Irritations.
- **after swallowing:** Gastrointestinal disorder.

12 Ecological information

- **Aquatic toxicity:**
- Toxicity for fishes: *Lepomis macrochirus* LC50: 10650 mg/l/96h

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Daphnia: Daphnia magna EC50: 144 mg/l/48h

Alges: IC50: 3130 mg/l/120h

· **Additional information:** In case of appropriate handling and usage the product does not cause harmful ecological effects.

· **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 is classified and labelled according to GHS-regulations.

· **Hazard symbols:** GHS07

· **Signal word:** Warning

· **H-Phrases:**

H319 Causes serious eye irritation

· **P-Phrases:**

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

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

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P313 Get medical advice/attention

· **National regulations (Germany):**

· **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.