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

- **Informations to product No. 2111**
- **Product name:**

**Calciumascorbat**  
Calcium ascorbate  
Calcii ascorbas

- **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**

5743-28-2 Calcium ascorbate


- **EINECS-No.:** 611-529-7

- **REACH Reg. No.:** (pre-registered)

- **INCI-Name:** Calcium Ascorbate

## 4 First aid measures

- **after inhalation:** Fresh air, if feeling unwell continuously seek medical advice.
- **after skin contact:** Wash off with water.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.

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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:** Combustible, but not flammable. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **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.
- **Environmental protective measures:** No special measures required.
- **Methods for cleaning:** Take up dry. Avoid generation of dusts. Disposal according to Chapter 13 of this MSDS. Clean up with water.
- **General information:** No hazardous substances are released.

## 7 Handling and storage

- **Handling:** Provide exhaustion if dusts are generated.
- **Advice on safe handling:** No special measures required.
- **Informations to fire or explosion protection:** Take measures to prevent electrostatic charging
- **Storage:**
- **Requirements for storage areas and containers:**  
Tightly closed. Store at a dry place. At room temperature ( +15°C to +25°C ).
- **Advices on common storage:** Not required.


## 8 Exposure controls / personal protective equipment

**Components with limit values that require monitoring at the workplace:** The product does not contain relevant quantities of substances with limit values that require monitoring at the workplace.

- **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
- **Colour:** white
- **Odour:** nearly odourless
- **Melting point / melting range:** 165 °C (Decomposition)
- **Density:** not determined
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 500 g/l
- **pH-range:** (50 g/l, 20 °C) 7,2 - 8,2

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## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Thermal decomposition above 160°C. Slow decomposition under the influence of heat and light.
- **Materials to avoid:** Strong acids
- **Hazardous reactions:** Reactions with strong oxidants.
- **Hazardous decomposition products:** none
- **Additional information:** In solutions in water rapid oxidizing.

## 11 Toxicological information

- **Acute toxicity:**  
LD50 (oral,Rat): 14600 mg/kg  
LD50 (oral,Mouse): 16000 mg/kg
- **Primary irritant effect:**
- **on skin:** Can cause skin irritations.
- **on eyes:** Can cause irritations of eyes and mucous membranes.
- **Additional toxicological informations:** In case of appropriate handling and usage the product does not cause harmful effects.

## 12 Ecological information


- **Information about elimination (persistence and degradability):**  
Readily biodegradable: 47% (5 days), 92% (7 days)  
Method: OECD 301D / EEC 84/449 OECD 302B / ISO 9888 / EEC 88/302C
- **Additional toxicological informations:** In case of appropriate handling and usage the product does not cause ecological problems.
- **Ecotoxic effects:**  
Fishes: (Oncorhynchus mykiss) NOEC (48h): 1000 mg/l
- **Water hazard class:** nwg (self classification): not 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.

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## 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):**

· **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.