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

- **Informations to product No. 2006**
- **Product name:**

### Ascorbinsäure Acidum ascorbicum

- **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:**

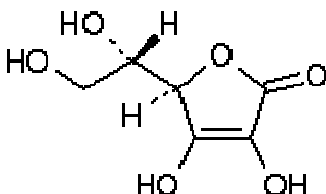
Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

## 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**

50-81-7 L(+)-Ascorbic acid

- **EINECS-No.:** 200-066-2

- **REACH Reg. No.:** Exempted from the obligation to register according to Annex 4 / 5 REACH-regulation.

- **INCI-Name:** Ascorbic Acid

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#### 4 First aid measures

- **General advices:** No special measures required.
- **after inhalation:** Fresh air
- **after skin contact:** Wash off with water
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** (big quantities): If feeling unwell 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:** 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 contact with substance.
- **Environmental protective measures:** No special measures required.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.
- **General information:** No hazardous substances are released.

#### 7 Handling and storage


- **Handling:** Big containers (25 kg) might contain Silica - Gel as drying agent in the inner plastic bag. To avoid mixing with ascorbic acid don't damage Silica - Gel - bag. Store cool, dry and tightly closed. Protect from light. Keep away from solvents.
- **Advice on safe handling:** No special measures required.
- **Informations to fire or explosion protection:** No special measures required.
- **Storage:**
- **Requirements for storage areas and containers:** Do not store in metal 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

- **Personal protective equipment:**
- **Respiratory protection:** Required if dusts are generated.
- **Hand protection:** Protection gloves of rubber or latex.
- **Eye protection:** Safety glasses.

#### 9 Physical and chemical properties

- **Form:** solid

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- **Colour:** white
- **Odour:** odourless.
- **Melting point / melting range:** 191 °C (decomposition)
- **Flash point:** 370 °C
- **Flammability (solid, vapours):** The product is not flammable.
- **Explosion hazard:** The product is not hazardous for explosion, but the explosion of dust-air mixtures is possible.
- **Density:** (20 °C) 0,95 g/cm<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 333 g/l
- **pH-range:** (50g/l, 25 °C) 2,1 – 2,6

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**  
No decomposition during appropriate use.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none.
- **Additional information:** Sensitive against light and air. Reducing agent.

## 11 Toxicological information


- **Acute toxicity:**
- LD/LD50-data relevant for hazard classification:**  
LD50 (oral, Rat): 11900 mg/kg
- **Subacute and chronic toxicity:** Not cancerogene in animal experiments.
- **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.
- **Aquatic toxicity:**  
Fish toxicity: *Leuciscus idus*: LC 50: 1000 - 2200 mg/l/96h  
Daphnia toxicity: EC50: 360 mg/l/48h  
Algeal toxicity: *Scenedesmus subspicatus*: EC50: 1750 mg/l/72h  
Bacteria toxicity: *Pseudomonas putida*: EC50: 140 mg/l/16h
- **Additional information:**  
BSB 5: 0,44 g/g  
BSB 48% von ThSB/5d  
Log P(o/w): -1,88
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

## 13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.

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- **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):**
- **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.