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

· **Informations to product No. 2027**

· **Product name:**

### **Oxalsäure, roh, cryst. (technisch)**

Acidum oxalicum crudum

Oxalic acid

· **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:**

H302 Harmful if swallowed

H312 Harmful in contact with skin


· **P- Phrases:**

P302 IF ON SKIN:

P352 Wash with soap and water

P314 Get Medical advice/attention if you feel unwell

**Acute Tox. 4**

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### 3 Composition / information on ingredients

• **Chemical characterization:**

**CAS-No. Substance name**

6153-56-6 Oxalic acid dihydrate

• **EINECS-No.:** 205-634-3

• **INDEX-No.:** 607-006-00-8

• **REACH-Reg.-No.:** 01-2119534576-33-0000

• **INCI-Name:** Oxalic Acid

### 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 with plenty of water with the eyelid wide open. If irritation continues, get medical advice..

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

• **Medical advice:**

• **The following symptoms might occur:** After resorption: Illness, vomiting, disturbances in the electrolyte system, dizziness, cramps, cardiovascular failure, collapse.

### 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. In case of fire dangerous vapours/gases can be generated: Smoke gases.

• **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 contact with substance.

• **Environmental protective measures:** Prevent from entering into surface water, the ground water system or soil.

• **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

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## 7 Handling and storage

- **Handling:**
- **Advice on safe handling:** No special measures required.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15 bis +25°C).
- **Advices on common storage:** Not together with flammable substances.

## 8 Exposure controls / personal protective equipment

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

## 9 Physical and chemical properties


- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 98 - 100 °C
- **Boiling point:** 149 – 160 °C (decomposition)
- **Density:** (20 °C) 1,65 g/cm<sup>3</sup>
- **Vapour pressure:** (25 °C) 0,000312 hPa
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 95 g/l
- **pH-range:** (10 g/l) 1,5

## 10 Stability and reactivity

- **Conditions to avoid:** Strong heating (Decomposition above 157 °C)
- **Materials to avoid:** Bases, strong oxidants, metals.
- **Hazardous decomposition products:** Carbon monoxide and Carbon dioxide.

## 11 Toxicological information

- **Acute toxicity:**
- LD/LD50-data relevant for hazard classification:**
- 6153-56-6 Oxalic acid
- Oral: LD50: 375 mg/kg (rat)
- Dermal: LD50 20.000 mg/kg (rabbit), tissue damage
- **Primary irritating effect:**
- **on skin:** Irritant effect.
- **on eyes:** Irritant effect.
- **Sub-acute / chronic toxicity:** Metabolites might have harmful effects on kidneys.

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## 12 Ecological information

- **Information about elimination (persistence and degradability):**  
BSB5: 0,16 g/g; CSB: 0,18 g/g; ThSB: 0,18 g/g. Not readily biodegradable.
- **Aquatic toxicity:**  
Fish: *Leuciscus idus* LC50: 160 mg/l., 48h  
Daphnia: *Daphnia magna* EC50: 137 mg/l., 48h
- **General advices:** Prevent from entering sewage water or drainage ditch undiluted or unneutralized.
- **log p(O/W):** -1,7
- **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:**  
H302 Harmful if swallowed  
H312 Harmful in contact with skin
- **P- Phrases:**  
P302 IF ON SKIN:  
P352 Wash with soap and water  
P314 Get Medical advice/attention if you feel unwell
- **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.

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· **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.