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

- Informations to product No. 2344
- Product name:

**Kaliumpermanganat cryst.**  
Potassium permanganate  
Kalii permanganas, Kalium permanganicum

- 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: Danger

- H-Phrases:

H272 May intensify fire; oxidizer

H302 Harmful if swallowed

H410 Very toxic to aquatic life with long lasting effects

- P-Phrases:


P220 Keep/Store away from clothing/.../combustible materials

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

P273 Avoid release to the environment

**Ox. Sol. 2**

**Aquatic Acute 1**

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**Aquatic Chronic 1**  
**Acute Tox. 4**

### 3 Composition / information on ingredients

• **Chemical characterization:**

**CAS-No. Substance name**

7722-64-7 Potassium permanganate

• **EINECS-No.:** 231-760-3

• **EC-Index-No.:** 025-002-00-9

• **REACH Reg. No.:** 01-2119480139-34-0000

• **INCI-Name:** -

### 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 milk or mixture off eggs and milk. Induce vomiting. Seek medical advice.
- **Medical advice:** gastric lavage.

### 5 Fire-fighting measures


- **Suitable extinguishing media:** Not combustible. All regular extinguishing media can be used. Select fire fighting measures suitable to environment
- **Specific hazards during fire fighting:** Not combustible, but oxidant. Keep away from combustible substances.
- **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:** Prevent from leaking into sewage water, ground water system or surface waters. Clean up floor with tenside containing water thoroughly.
- **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. Ensure good ventilation/exhaustion at the workplace. Handling corresponding to laboratory safety guidelines.

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- **Informations to fire or explosion protection:** Keep away from combustible substances.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature ( +15°C to +25°C ). Keep away from heat and ignition sources.
- **Advices on common storage:** Do not store together with flammable substances.

## 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** If dust is generated
- **Hand protection:** Protection gloves.
- **Eye protection:** Safety glasses.

## 9 Physical and chemical properties


- **Form:** crystalline
- **Colour:** violet
- **Odour:** Odourless
- **Melting point / melting range:** > 240 °C Decomposition
- **Flammability (solid, vapours):** Fire hazard in contact with combustible substances.
- **Decomposition temperature:** > 240 °C
- **Density:** (20 °C) 2,703 g/cm<sup>3</sup>
- **Bulk density:** 1300 - 1600 kg/m<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 64,3 g/l
- **pH-range:** (20 g/l, 20 °C) ca. 7 - 9

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**  
Thermal decomposition: > 240 °C.
- **Materials to avoid:** Organic substances, acids, Combustible substances, hydrogen peroxide, hydroxylamine, hydrogen halogenides, sulphur, ammonium compounds, alcohols, phosphorous.
- **Hazardous reactions:** Fire hazard in contact with combustible substances.
- **Hazardous decomposition products:** Oxygen (Fire hazard)
- **Additional information:** Strong oxidant.

## 11 Toxicological information

- **Acute toxicity:**  
7722-64-7 Potassium permanganate  
**RTECS#:** CAS# 7722-64-7: SD6475000  
**LD50/LC50:** RTECS:  
**CAS# 7722-64-7:** Oral, Mouse: LD50 = 2157 mg/kg;  
Oral, Mouse: LD50 = 750 mg/kg;  
LD50 = 750 mg/kg.
- **Carcinogenicität:** Potassium permanganate - In ACGIH, IARC, NTP, or CA Prop 65 not classified as carcinogene.

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- **Primary irritant effect:**
- **on skin:** Irritant effect on skin and mucous membranes
- **on eyes:** Irritant effect.
- **on respiratory organs:** Edemes in respiratory tract.
- **after swallowing:** Illness und Vomiting. Danger of perforation for stomach and esophagus.

## 12 Ecological information

- **Aquatic toxicity:**  
Toxic for water organisms: LC50: > 1 mg/l/96h  
Daphnia EC0: 0,63 mg/l  
Baktericide Effect. Danger for drinking water.
- **Water hazard class:** 3 (VwVwS): very hazardous for water.

## 13 Disposal considerations


- **Product:**
- **Recommendation:** Disposal as pharmaceutical waste or inorganic laboratory chemical waste
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

## 14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Potassium permanganate
- **Class:** 5.1
- **UN-number:** 1490
- **Packing group:** II
- **Classification code:** O2
- **Limited quantities (Table 3.4.6. ADR):** 1 kg
- **Hazard classification number:** 50
- **Special provisions (Chapter 3.3 ADR):** -
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-H, S-Q
- **Properties:** -

## 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:** GHS03, GHS07, GHS09
- **Signal word:** Danger
- **H-Phrases:**  
H272 May intensify fire; oxidizer  
H302 Harmful if swallowed  
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• **P-Phrases:**

P220 Keep/Store away from clothing/.../combustible materials

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

P273 Avoid release to the environment

• **National regulations (Germany):**

• **Water hazard class:** see chapter 12

• **Storage class TRGS 510:** 5.1A

## 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.