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

· **Informations to product No. 2441**

· **Product name:**

### **Natrium chloricum crudum**

Rohes Natriumchlorat

Sodium chlorate

· **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:**

H271 May cause fire or explosion; strong oxidizer

H302 Harmful if swallowed

H411 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. 1**

**Acute Tox. 4**

**Aquatic Chronic 2**

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### 3 Composition / information on ingredients

• **Chemical characterization:**

**CAS-No. Substance name**

7775-09-9 Sodium chlorate

• **EINECS-No.:** 231-887-4

• **EC-Index-No.:** 017-005-00-9

• **REACH Reg. No.:** 01-2119474389-23-0000

• **INCI-Name:** Sodium Chlorate

### 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 but oxidant. Keep away from combustible substances. On decomposition explosion hazard.
- **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.

### 7 Handling and storage

- **Handling:**
- **Informations to fire or explosion protection:** Keep away from combustible substances.
- **Storage:**
- **Requirements for storage areas and containers:** Store away from heat and ignition sources
- **Advices on common storage:** TRGS 515 "Storage of oxidants"

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## 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **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:** colourless - white
- **Odour:** odourless
- **Melting point / melting range:** 255 °C Decomposition
- **Explosion hazard:** Explosion hazard in mixture with combustible substances
- **Density:** (20 °C) 2,49 g/cm<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** (20 °C) ca. 1000 g/l
- **pH-range:** (20 °C) 5 - 7

## 10 Stability and reactivity


- **Thermal decomposition / conditions to avoid:** Avoid strong heating. Decomposition at melting point.
- **Materials to avoid:** Metals in powders, reductants, sulphur, ammonium compounds, cyanides, Sulfides, organich substances acids.
- **Hazardous decomposition products:** Chlorine, chlorine oxides.
- **Additional information:** Sensitive against shattering and friction in mixture with combustible substances.

## 11 Toxicological information

**LD50/LC50:** **CAS# 7775-09-9:** Draize Test, Rabbit, Auge: 10 mg Mild;  
Draize Test, Rabbit, Haut: 500 mg/24H Mild;  
Inhalation, rat: LC50 = >28 gm/m<sup>3</sup>/1H;  
Oral, Mouse: LD50 = 3600 mg/kg;  
Oral, Rabbit: LD50 = 7200 mg/kg;  
LD50 = 1200 mg/kg;  
skin, Rabbit: LD50 = >10 gm/kg;  
Oral: LD50: 1200 mg/kg (rat)

**Carcinogenity:** Not classified as carcinogene.

- **Primary irritant effect:**
- **on skin:** Irritant.
- **on eyes:** Irritations.
- **on respiratory organs:** irritations, if dust is inhaled
- **Other information:** After swallowing: Irritations of mucous membranes in Mouth, Throat, Esophagus and gastrointestinal tract. Systemic effect: methemoglobinemia.

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## 12 Ecological information

- **Aquatic toxicity:**

Water organisms LC50 > 1000 mg/l/96h

- **Additional information:** Herbicide effect. Prevent from entering sewage water or drainage ditch undiluted or unneutralized. Danger for drinking water even if small quantities leak into the ground.

- **Water hazard class:** 2 (VwVwS): hazardous for water.

## 13 Disposal considerations

- **Product:**

- **Recommendation:** Disposal as pharmaceutical waste or inorganic laboratory waste

- **Empty contaminated packaging:**

- **Recommendation:** Disposal according to the local regulations.

## 14 Transport informations

- **Land transport according to ADR:**

- **Proper shipping name:** Sodium chlorate

- **Class:** 5.1

- **UN-number:** 1495

- **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:**

H271 May cause fire or explosion; strong oxidizer

H302 Harmful if swallowed

H411 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

- **National regulations (Germany):**

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

- **Storage class TRGS 510:** 5.1A

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## 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.