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

- Angaben zum Produkt 5083
- Product name:

### Benzalkoniumchlorid Benzalkonii chloridum

- **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:**

H302 Harmful if swallowed  
H312 Harmful in contact with skin  
H314 Causes severe skin burns and eye damage  
H400 Very toxic to aquatic life


- **P-Phrases:**

P280 Wear protective gloves/protective clothing/eye protection/face protection  
P273 Avoid release to the environment  
P305 IF IN EYES:  
P351 Rinse continuously with water for several minutes  
P310 Immediately call a POISON CENTER or doctor/physician

**Acute Tox. 4**

**Skin Corr. 1B**

**Aquatic Acute 1**

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### 3 Composition / information on ingredients

· **Chemical characterization:**

**CAS-No. Substance name**

63449-41-2 Quaternary Ammonium compounds, Benzyl-C8-18-Alkyldimethyl, chlorides

- **EINECS-No.:** 264-151-6
- **REACH Reg. No.:** (pre-registered)
- **INCI-Name:** Benzalkonium chloride

### 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 plenty of water. Seek medical advice immediately.

### 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 gases / vapours can be released: Smoke gases, hydrogen chloride.
- **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 dust formation and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

### 7 Handling and storage

- **Storage:**
- **Requirements for storage areas and containers:** Keep container tightly closed.

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## 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of rubber.
- **Eye protection:** Safety glasses.

## 9 Physical and chemical properties

- **Form:** solid or gel
- **Colour:** light yellow
- **Odour:** nearly odourless
- **Melting point / melting range:** ca. 40 °C
- **Flash point:** not determined
- **Density:** not determined
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 4000 g/l
- **pH-value:** (20 g/l) 5 - 6

## 10 Stability and reactivity


- **Thermal decomposition / conditions to avoid:** Avoid strong heating.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** None if used appropriately. Hygroscopic.

## 11 Toxicological information

- **Acute toxicity:**
- LD/LD50-data relevant for hazard classification:**
- 63449-41-2 Benzalkoniumchlorid
- Oral: LD50: 240 mg/kg (rat)
- Dermal: LD50: 1560 mg/kg (rat)
- **Primary irritating effect:**
- **on skin:** Irritant.
- **on eyes:** Irritant effect.
- **Sensitization:** Sensitization with allergic manifestations at sensible persons.

## 12 Ecological information

- **Ecotoxicological effects:**
- LC50 (Danio rerio, 96h): 0,31 mg/l
- EC50 (Daphnia magna, 48h): 0,02 mg/l
- IC50 (Pseudokirchneriella subcapitata, 72h): 0,07 mg/l
- **General advices:** Prevent from entering into environmental waters, waste water or soil.
- **Water hazard class:** 2 (self classification): hazardous for water.

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### 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:**
- **Proper shipping name:** Corrosive solid, n.o.s., Benzalkonium chloride
- **Class:** 8
- **UN-number:** 1759
- **Packing group:** III
- **Classification code:** C10
- **Limited quantities (Table 3.4.6. ADR):** 5kg
- **Hazard classification number:** 80
- **Special provisions (Chapter 3.3 ADR):** 274
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-B
- **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:** GHS07, GHS05, GHS09
- **Signal word:** Danger
- **H-Phrases:**  
 H302 Harmful if swallowed  
 H312 Harmful in contact with skin  
 H314 Causes severe skin burns and eye damage  
 H400 Very toxic to aquatic life
- **P-Phrases:**  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P273 Avoid release to the environment  
 P305 IF IN EYES:  
 P351 Rinse continuously with water for several minutes  
 P310 Immediately call a POISON CENTER or doctor/physician
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 8A

### 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.