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

- **Informations to product No. 7088**
- **Handelsname**

Benzalkoniumchlorid-Lösung 50% (m/V)

Benzalkonii chloridi solutio
Benzalkonium chloride solution 50%

- **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 (50%)

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

CAS-No. Substance name

7732-18-5 Water (50%)

- **EINECS-No.:** 231-791-2
- **REACH Reg. No.:** Exempted from the obligation to register according to Annex 4 / 5 REACH-regulation.
- **INCI-Name:** Aqua

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: organic halogen compounds.
- **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 drains.
- **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust. 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:** Not required
- **Hand protection:** Protection gloves of latex or rubber.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Form:** liquid
- **Colour:** colourless
- **Odour:** nearly odourless.
- **Melting point / melting range:** not determined
- **Density:** (20 °C) 0,98 g/cm³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) completely miscible
- **pH-value:** (20 °C) 7,0

10 Stability and reactivity


- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use. Under normal pressure the product can be distilled without decomposition.
- **Hazardous reactions:** Reactions with oxidants and strong acids or bases.
- **Hazardous decomposition products:** none.

11 Toxicological information

- **Acute toxicity:**
- LD/LD50-data relevant for hazard classification:**
63449-41-2 Benzalkonium chloride
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:**
Algae: IC50, 72h: 0,1 – 1 mg/l
Daphnia Magna: EC50, 48h: 0,01 – 0,1 mg/l
Fish: LC50, 96h: 0,1 – 1 mg/l
Readily biodegradable
- **Log pOW:** 1,6
- **General advices:** Prevent from entering into environmental waters, waste water or soil, even in small quantities.

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- **Water hazard class:** 2 (self classification): 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:**
- **Substance name:** Environmentally hazardous liquid, n.o.s. (Benzalkonium chloride solution 50%)
- **Class:** 9
- **UN-number:** 3082
- **Packing group:** III
- **Classification code:** M6
- **Limited quantities (Table 3.4.6. ADR):** LQ 7
- **Hazard classification number:** 90
- **Special provisions (Chapter 3.3 ADR):** 274
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-F
- **Properties:** m.p.

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, GHS09, GHS05
- **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:** 11
- **VbF class:** -

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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.