

MATERIAL SAFETY DATA SHEET**Product Name:** Benzalkonium chloride**CAS No.:** 63449-41-2 **Version:** 1**1. Identification**

Product Code : 90752,91891
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2. Hazards Identification**Hazard classification**

Acute toxicity, Dermal : Category 4
Acute toxicity, Oral : Category 4
Skin corrosion : Category 1B
Acute aquatic toxicity : Category 1

Label elements**Hazard symbol**

Signal word : Danger

Hazard statement : Causes severe skin burns and eye damage.
Very toxic to aquatic life.
Harmful if swallowed.
Harmful in contact with skin.

Precautionary statement : Avoid release to the environment.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Other hazards which do not result in GHS classification : None

3. Composition/information on ingredients

Ingredient	CAS No	Percent
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Benzalkonium chloride

63449-41-2 NA

4. First Aid Measures

Description of first aid measures	
General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
Eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Swallowed	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed	: Cough, Shortness of breath, Headache, Nausea, Vomiting
Indication of any immediate medical attention and special treatment needed Treatment	: No data available

5. Fire fighting measures

- Extinguishing media**
- Suitable extinguishing media** : Use extinguishing media appropriate to Surrounding fire conditions.
- Special hazards arising from the substance or mixture** : Nature of decomposition products not known.
- Advice for firefighters** : Wear self contained breathing apparatus for fire fighting if necessary
- Further information** : No data available

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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- Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- Reference to other sections** : For disposal see section 13.

7. Handling and Storage

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
- Specific end use(s)** : No data available

8. Exposure Controls Personal Protection**Control parameters****Components with workplace control parameters****Exposure controls**

- Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

- Eye/face protection** : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

- Skin Protection Hand protection** : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands.

- Body Protection** : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

- Respiratory protection** : Respiratory protection is required.

9. Physical and Chemical Properties

- Appearance** : A clear colourless slightly yellow syrupy liquid, odour aromatic; taste, very bitter.
- Odor** : No data available
- pH** : No data available

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Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash Point	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Relative density	: No data available
Solubility in water	: No data available
Solubility (other)	: No data available
Formula	: NA
Molecular Weight	: NA

10. Stability and Reactivity

Reactivity	: No data available
Chemical stability	: No data available
Possibility of hazardous reactions	: No data available
Conditions to avoid	: No data available
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: No data available

11. Toxicological Information**Information on toxicological effects**

Acute toxicity	: LD50 Oral - mouse - 150 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Blood: Hemorrhage. LD50 Dermal - rat - 1.420 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Blood: Hemorrhage.
Skin corrosion/irritation	: No data available
Serious eye damage/eye irritation	: No data available
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	: No data available
Specific target organ toxicity -	: No data available

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single exposure

Specific target organ toxicity - : No data available

repeated exposure

Aspiration hazard : No data available

Potential health effects

Inhalation : May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion : Toxic if swallowed. Causes burns.

Skin : Harmful if absorbed through skin. Causes skin burns.

Eyes : Causes eye burns.

Signs and Symptoms of Exposure : Cough, Shortness of breath, Headache, Nausea, Vomiting

12. Ecological Information

Toxicity : Toxicity to fish :
 mortality LOEC - Oncorhynchus kisutch - 17,8 mg/l - 3,0 d
 LC50 - Lepomis macrochirus - 0,31 mg/l - 96,0 h
 mortality NOEC - Oncorhynchus kisutch - 10 mg/l - 3,0 d

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Other adverse effects : Very toxic to aquatic life.

13. Disposal consideration

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated packaging : Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	2923	Benzalkonium chloride	8(6.1)	III	Yes
IMDG	2923	Benzalkonium chloride	8(6.1)	III	Yes

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IATA	2923	Benzalkonium chloride	8(6.1)	III	Yes
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15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date :30/03/2016****Version : 1**

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