



SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

Add: Room 1804, No.1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.

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Website: www.bosmanagrochem.net

Version: 1.0 Issue date: Oct. 10, 2022

MATERIAL SAFETY DATA SHEET OF BENZALKONIUM CHLORIDE 80% SOLUTION

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product name: Benzalkonium chloride 80% solution

Supplier: Shanghai Bosman Industrial Co., Ltd

Street address: No. 1611, North Sichuan Road, Hongkou, Shanghai R.P. China

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Other ingredients determined not to be hazardous

INGREDIENT	CAS NO	PROPORTION
Benzalkonium chloride	8001-54-5	≥80%
others	Not hazardous	Up to 100%

3. HAZARDS IDENTIFICATION

Health hazards: hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, . Hazardous in case of skin contact (corrosive, permeator). Slightly hazardous in case of eye contact (corrosive), of inhalation (lung sensitizer). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

4. FIRST AID MEASURES

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

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Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

5. FIRE FIGHTING MEASURES

Flammability of the Product Non-flammable.

Auto-Ignition Temperature Not applicable

Flash Points Not applicable

Flammable Limits Not applicable

Products of Combustion Not applicable

Fire Hazards in Presence of Various Substances Not applicable

Explosion Hazards in Presence of Various Substances Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions Not applicable

Special Remarks on Fire Hazards Not applicable

Special Remarks on Explosion Hazards Not applicable



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6. ACCIDENT RELEASE MEASURES

Small spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large spill:

Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

7. HANDLING AND STORAGE

Precautions: Keep locked up.. Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 23° C (73.4° F).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protection Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

Personal Protection in Case of a Large Spill Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid

Color: yellow transparent

pH: NA

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Density: NA

10. STABILITY AND REACTIVITY

Chemical stability: The product is stable.

Conditions to avoid: Excess heat, dust generation, moisture, incompatible materials.

Incompatible materials: Slightly reactive to reactive with oxidizing agents. Also incompatible with nitrates, anion detergents

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: (LD50/oral/rat) 150 mg/kg [Rat].

Inhalation : May cause respiratory tract and mucous membrane irritation with sore throat, coughing, shortness of breath, and delayed lung edema. May cause chemical burns to the respiratory tract . High vapor concentrations may cause nervous system effects

Skin irritation / sensitisation Causes skin irritation and skin burns

Reproductive toxicity : May affect material (mutagenic) and may cause adverse reproductive effects

Eye irritation Causes eye irritation and eye burns.

Germ cell mutagenicity : Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

Chronic toxicity: May affect genetic material (mutagen) and cause adverse reproductive effects (fetotoxicity, fertility (female)) based on laboratory experiments on animals.

12. ECOLOGICAL INFORMATION

Ecotoxicity : Not available.

Mobility in soil Not available

Persistence and degradability: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Bioaccumulative potential: Not available.

13. DISPOSAL CONSIDERATION



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Product: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contaminated Packing Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Description: Non dangerous goods

UN Number: NA

Hazard class: NA

Packing group: NA

15. REGULATORY INFORMATION

Follow all local law, international laws and regulations.

16. OTHER INFORMATION

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This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

-- END OF MSDS --