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**SAFETY DATA SHEET**

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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Benzalkonium Chloride  
Product Number: S2456

Sarchem Laboratories, Inc.  
5012 Industrial Road  
Farmingdale, NJ 07727

Emergency Phone No: 800-255-3924  
International: +1-813-248-0585  
ChemTel Contract No: MIS0009049

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**2. HAZARDS INFORMATION:****Classification of the substance or mixture**

Acute toxicity (Oral) Category 4  
Acute toxicity (Dermal) Category 4  
Skin corrosion/irritation Category 1C  
Serious eye damage/eye irritation Category 1  
Acute aquatic hazard Category 1

**GHS Label elements, including precautionary statements****Pictograms or hazard symbols**

**Signal word** Danger

**Hazard statements**

H302+H312-Harmful if swallowed or in contact with skin.

H314-Causes severe skin burns and eye damage.

H400-Very toxic to aquatic life.

**Precautionary statements**

P260-Do not breathe dusts or mists.

P280-Wear protective gloves, protective clothing, face protection.

P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a

POISON CENTER or doctor.

P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

P304+P340+P310-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

P305+P351+P338+P310-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.

**Hazards not otherwise classified (HNOC) or not covered by GHS - none**

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Component</u>      | <u>CAS</u> | <u>EC:NO</u> |
|-----------------------|------------|--------------|
| Benzalkonium Chloride | 63449-41-2 | 264-151-6    |

Formula : [RN(CH<sub>3</sub>)<sub>2</sub>CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>]Cl

Synonyms : Benzyltrimethylammonium Chloride

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### 4. FIRST AID MEASURES:

#### **General Advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangers area.

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

#### **In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### **In case of eye contact**

Flush eyes with water as a precaution.

#### **If swallowed**

Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

#### **Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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### 5. FIRE FIGHTING MEASURES

#### **Conditions of flammability**

Not flammable or combustible.

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **Special hazards**

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride

### **Special protective equipment for fire-fighters**

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment.

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## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

### **Environmental precautions**

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.

### **Methods for cleaning up**

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

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## **7. Handling and Storage**

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.  
For precautions see section 2.2.

### **Storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

### **Personal protective equipment**

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator

type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### 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.

### Eye 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 and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

### Appearance

|       |        |
|-------|--------|
| Form  | liquid |
| Color | clear  |

### Safety data

|                      |                   |
|----------------------|-------------------|
| pH                   | no data available |
| Melting Point        | no data available |
| Boiling Point        | no data available |
| Flash Point          | no data available |
| Ignition temperature | no data available |
| Lower exposure limit | no data available |
| Upper exposure limit | no data available |
| Vapor pressure       | no data available |
| Water solubility     | no data available |
| Relative density     | no data available |

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## 10. Stability and Reactivity

**Storage stability**

Stable under recommended storage conditions.

**Materials to avoid**

no data available

**Chemical stability**

Stable under recommended storage conditions.

**Incompatible materials**

Oxidizing agents.

**Hazardous decomposition products**

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride

In the event of fire: see section 5

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**11. Toxicological Information**

**Acute toxicity**

orl-mus LD50:150 mg/kg

skn-rat LD50:1420 mg/kg

ivn-mus LD50:16 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

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.

**ACGIH:** 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 ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Additional Information**

RTECS: BO3151000

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**12. Ecological Information**

**Toxicity**

Fish: 96h LC50:0.31 mg/L (Lepomis macrochirus)

Crustacea: No data available

Algae: No data available

**Persistence and degradability**

0% (by BOD)

**Further information on ecology**

No data available

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**13. Disposal Considerations**

**Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

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**14. Transportation Information**

UN number 1760

UN proper shipping name

ADR/RID Corrosive liquid, n.o.s

IMDG/IMO Corrosive liquid, n.o.s

ICAO/IATA Corrosive liquid, n.o.s

Transport hazard class(es)

ADR/RID 8: Corrosive

IMDG/IMO 8: Corrosive  
ICAO/IATA 8: Corrosive

Packaging group  
ADR/RID III  
IMDG/IMO III  
ICAO/IATA III

Environmental hazards  
Marine pollutant Y

Special precautions for user No data available

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## 15. Regulatory Information

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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## 16. OTHER INFORMATION:

### Further Information

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