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### Section I - Product Identification

*Product:* An aqueous solution of alkyl benzyl dimethyl ammonium chloride, also known as benzalkonium chloride.

*Intended Uses:* Intended to be used as a topical antiseptic. Also used in the treatment of fluorine injury.

*Uses advised against:* Not intended to be used as an instrument disinfectant.

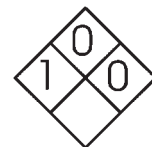
#### Manufacturer Identification

Medical Chemical Corp.  
19430 Van Ness Ave.  
Torrance, CA 90501

Customer Service: Phone (310)787-6800  
Email. Christinaavena@med-chem.com  
FAX (310)787-4464

#### Emergency Telephone Number

CHEMTREC Emergency Response Telephone Number: (800)424-9300. Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.



### Section II - Hazard Identification

This item is not considered hazardous by 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Acute toxicity (Oral):** Category 5 (H303). May be harmful if swallowed.

**Acute toxicity (Dermal):** Category 5 (H313). May be harmful in contact with skin.

**Eye damage/eye irritation:** Category 2B (H320). May cause eye irritation.

The manufacturer is unaware of any chemical hazard associated with this product. The product may cause skin or eye irritation and may be harmful if swallowed.

#### Precautionary Statements

P102 Keep out of reach of children.  
P103 Read label before use.  
P270 Do not eat, drink or smoke when using this product.

#### Safety Ratings

*Health:* None *Flammability:* None *Reactivity:* None *Contact:* None  
*Recommended safety equipment:* Not normally required.  
*Storage:* General storage

#### NFPA Ratings

Health = 0 Flammability = 0 Reactivity = 0

#### Potential Health Effects

The manufacturer is not aware of any serious hazards associated with this product..

*Inhalation:* May be Irritating to the respiratory tract.

*Ingestion:* While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc

*Skin contact:* Can cause skin irritation or aggravation of existing dermatitis.

*Eye contact:* Can cause eye irritation.

*Chronic Exposure:* Not likely to be an issue.

*Aggravation of preexisting conditions:* Unknown.

### Section III - Composition/Information on Components

Ingredient	CAS#	EC/List No.	%
Benzalkonium chloride	68424-85-1	270-325-2	0.13%

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#### Section IV - First Aid Measures

*Inhalation:* Unlikely to be an issue.

*Ingestion:* Unlikely to be an issue. Get medical advise for exceptional cases.

*Skin Contact:* Unlikely to be an issue. Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* Rinse thoroughly with running water. Get medical advice if irritation develops.

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#### Section V - Fire Fighting Measures

Flash point: Not applicable.

Flammable Limits: Not applicable.

Fire: Not normally a fire hazard.

Explosion: Not normally an explosion hazard.

Fire Extinguishing Media: Any means suitable for surrounding fire.

Special information: Nothing exceptional.

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#### Section VI - Accidental Release Measures

Absorb with a suitable absorbent and store in a suitable container for disposal.

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#### Section VII - Handling and Storage

Store in a closed container at room temperature.

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#### Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Benzalkonium chloride	Not applicable	Not applicable	Not applicable

#### Legend

**ACGIH:** American Conference of Governmental Industrial Hygienists.

**OSHA:** Occupational Safety and Health Administration.

**NIOSH:** National Institute for Occupational Safety and Health.

**IDLH:** Immediately dangerous to life or health.

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

*Skin protection:* Protective gloves are not required but may be used as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practices

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#### Section IX - Physical and Chemical Properties

*Boiling Point:* 100 °C

*Vapor pressure (mm Hg):* 18 @ 20 °C

*Vapor Density (air = 1):* 0.6

*Volatile organic carbon (VOC):* Not Applicable odor.

*Density:* About 1.0 g/ml

*Evaporation Rate (water = 1):* 1

*Solubility:* Infinitely miscible with water

*Appearance and Odor:* A clear, colorless solution. Characteristic

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#### Section X - Stability and Reactivity

*Stability:* Stable under normal conditions.

*Hazardous Decomposition Products:* No known hazardous decomposition products.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Nothing unusual.

*Conditions to avoid:* Nothing unusual.

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## Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzalkonium chloride	344 mg/kg (rat)	>2000 mg/kg (rabbit)	0.054 - 0.51 mg/l mist

The product is non-toxic by ingestion or inhalation.

### Cancer lists

<i>Ingredient</i>	<i>Known Carcinogenicity?</i>	<i>NTP?</i>	<i>Anticipated?</i>	<i>IARC Category</i>
Benzalkonium chloride	No	No	No	None

## Section XII - Ecological Information

This product is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The product biodegrades quickly and does not contain endocrine disruptors, persistent organic pollutants or ozone depleters.

**Soil Mobility:** Unknown

**Environmental Fate:** Biodegradable

**Environmental Toxicity:** The product has low environmental toxicity.

Component	Freshwater Fish	Water Flea	Freshwater algae
Benzalkonium chloride	0.866 ppm 96 h	0.006 mg/l 48 h	0.063 mg/l 96 h

## Section XIII - Disposal Considerations

Not normally restricted but ultimate authority resides with local government agencies. Insure compliance with all government regulations.

## Section XIV - Transportation Information

Not regulated by DOT or IATA.

## Section XV - Regulatory Information

### Chemical Inventory Status

<i>Ingredient</i>	<i>TSCA</i>	<i>EC</i>
Benzalkonium chloride	Yes	Yes

### Federal, State and International Regulations

<i>Ingredient</i>	<i>SARA 302</i>		<i>SARA 313</i>		<i>RCRA</i>	<i>TSCA</i>	<i>Ca. Prop 65</i>
	<i>RQ</i>	<i>TPQ</i>	<i>List</i>	<i>Category</i>	<i>261.33</i>	<i>8(D)</i>	
Benzalkonium chloride	No	No	No	No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: *Acute:* No, *Chronic:* No, *Fire:* No, *Pressure:* No

## Section XVI - Other Information

This information is believed to be correct at the time of publication but is not guaranteed as such, nor does it purport to be all inclusive. Medical Chemical Corp. assumes no liability for the accuracy or completeness of the information. The user assumes all responsibility for compliance with federal, state and local laws.

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