

MATERIAL SAFETY DATA SHEET

Benzalkonium chloride 50 wt% Aqueous Solution

SECTION 1 . Product and Company Identification

Product Name and Synonym: Benzalkonium chloride 50 wt% Aqueous Solution

Product Code: B1856

Material Uses:

Manufacturer: Science Stuff
1104 Newport Ave

Austin, TX 78753

(512) 837-6020

Entry Date : 5/28/2013

Print Date: 5/28/2013

24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	3
Flammability:	0
Reactivity:	0

Hazard Rating:
Least Slight Moderate High Extreme
0 1 2 3 4
NA=Not Applicable NE=Not Established

SECTION 2 HAZARD IDENTIFICATION

May cause irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Benzalkonium Chloride	CAS#: 8001-54-5	50%	W/W	Not established
<input type="checkbox"/>	Ethyl Alcohol (Ethanol, Absolute)	CAS# 64-17-5	10%	W/W	OSHA TWA 1000 ppm (1900 mg/mf)
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	40	W/W	None Established

SECTION 4 FIRST AID MEASURES

May cause irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Carbon Dioxide, dry chemical powder or

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water spray
Fire / Explosion Hazards: May emit toxic fumes under fire conditions
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law. Dissolve material and mix with a combustible solvent and burn in a chemical incinerator equipped with an after burner.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator
Ventilation
Local Exhaust
Mechanical
Protective Gloves: Solvent resistant gloves as neoprene or nitrile
Eye Protection: Splash Goggles
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	Information not available	Percent Volatile by Volume:	50
Boiling Point:	101° C	Evaporation Rate	not available
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	689° F
Solubility in Water:	soluble	Lower Flamm. Limit in Air	3.3%
Appearance /Odors:	white to yellow liquid	Upper Flamm. Limit in Air	19%
Flash Point:	105° F		
Specific Gravity:	0.96		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: see incompatibilities

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Materials to Avoid: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon dioxide, monoxide, Hydrogen chloride gas.
Hazardous polymerization: Will Not Occur
Conditions to Avoid: None known

SECTION 11 Toxicological Information

SECTION 12 Ecological Information

SECTION 13 Disposal Considerations

SECTION 14 Transport Information

DOT Classification: Corrosive liquid, n.o.s. (Benzalkonium Chloride), 8, UN1760, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

SECTION 16 Additional Information

Toxic, corrosive. Harmful if swallowed, inhaled or absorbed through skin. Material is extremely destructive to tissue of mucous membranes. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath headache, nausea and vomiting. Persons with preexisting conditions may be more susceptible. Target organ data: Over exposure may cause somnolence, hallucinations, convulsions or effect on seizure threshold, ataxia, ulceration or bleeding from small intestine, diarrhea, nausea or vomiting, pre-implantaion mortality (effects on fertility), fetal toxicity, fetal death. Persons with preexisting conditions may be more susceptible.

Flammability

Health

Reactivity

Revisions

NFPA

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