



## **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
20	Health Hazard     2       Fire Hazard     1	
	Reactivity 0	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Benzyltrimethylammonium chloride	Catalog Number(s).	B1094	
		CAS#	56-93-9	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	BO8400000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Benzyltrimethylammonium chloride	
Commercial Name(s)	BTM; Tmbac	CI#	Not available.	
Synonym	Benzenemethanaminium, N,N,N-trimethyl-, chloric N,N,N-Trimethylbenzenemethanaminium chlorid Trimethylbenzylammonium chloride	e; IN CASE OF	EMERGENCY (24hr) 800-424-9300	
Chemical Name	Ammonium, benzyltrimethyl-, chloride			
Chemical Family	Not available.		CALL (310) 516-8000	
Chemical Formula	C6H5CH2N(CH3)3.Cl			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS #	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight
1) Benzyltrimethylammonium chloride 56		56-93-9				100
Toxicological Data     Benzyltrimethylammonium chloride       on Ingredients     LD50: Not available.       LC50: Not available.     LC50: Not available.						
Section 3. Hazards lo	lentification					
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Slightly hazardous in case of inhalation.					
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.					

Repeated or prolonged exposure is not known to aggravate medical condition.

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#### Section 4. First Aid Measures

Ieast 15 minutes. Cold water may be used. Get medical attention.         Skin Contact       In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Rer contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean s before reuse. Get medical attention.         Serious Skin Contact       Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek me attention.         Inhalation       If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. medical attention.         Serious Inhalation       Not available.         Ingestion       Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to the set in			
Serious Skin Contact       contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean s before reuse. Get medical attention.         Serious Skin Contact       Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek merattention.         Inhalation       If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. medical attention.         Serious Inhalation       Not available.         Ingestion       Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth t unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen clothing such as a collar, tie, belt or waistband.	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.	
attention.       Inhalation       If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.         Serious Inhalation       Not available.         Ingestion       Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth t unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen clothing such as a collar, tie, belt or waistband.	Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remov contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoe before reuse. Get medical attention.	
Serious Inhalation       Not available.         Ingestion       Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth tunconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen clothing such as a collar, tie, belt or waistband.	Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.	
Ingestion         Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth t unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen clothing such as a collar, tie, belt or waistband.	Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen clothing such as a collar, tie, belt or waistband.	Serious Inhalation	Not available.	
Serious Ingestion Not available.	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.	
	Serious Ingestion	Not available.	

Section 5. Fire and Explosion Data			
Flammability of the Product	May be combustible at high temperature.		
Auto-Ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).		
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat.		
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	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.		
Special Remarks on Fire Hazards	When heated to decomposition it emits toxic fumes of hydrogen chloride and nitrogen oxides. Material in powder form, capable of creating a dust explosion. As with most organic solids, fire is possible at elevated temperatures		
Special Remarks on Explosion Hazards	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.		
Section 6. Accidental	Release Measures		
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.		
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water		

on the contaminated surface and allow to evacuate through the sanitary system.

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#### Section 7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label
	when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

#### Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.	
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust 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.	

#### Section 9. Physical and Chemical Properties

Physical state and appearance	Solid. (Crystalline solid. Crystalline powder.)	Odor	Almond-like. (Slight.)
Molecular Weight	185.7 g/mole	Taste	Not available.
wolecular weight	165.7 g/mole	Color	White to yellowish.
pH (1% soln/water)	Not available.	00101	
Boiling Point	Decomposition temperature: >135°C (275°F)		
Melting Point	237°C (458.6°F) - 243 C.		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	Greater than air.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	The product is more soluble in water; log(oil/wate	er) = -2.2	
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water, hot water. Soluble in hot acetone.		

Section to. Stability	and Reactivity Data
Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat, incompatible materials
Incompatibility with various substances	Reactive with oxidizing agents.
Corrosivity	Non-corrosive in presence of glass.

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Not available.
Not available.
Will not occur.
ogical Information
Inhalation. Ingestion.
LD50: Not available. LC50: Not available.
Not available.
Hazardous in case of skin contact (irritant), of ingestion. Slightly hazardous in case of inhalation.
Lowest Published Lethal Dose: LDL [Rat] - Route: Oral; Dose: 250 mg/kg LDL [Mouse] - Route: Oral; Dose: 1600 mg/kg
Not available.
Acute Potentia Health Effects: Skin: Causes skin irritation. Eyes: Causes eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: Harmful if swallowed. Causes gastrointestinal tract disturbances. Can cause salivation Vasodepressor
cal Information
Not available.
Not available.
Possibly hazardous short term degradation products are not likely. However, long term degradation products ma arise.
The product itself and its products of degradation are not toxic.
Not available.
I Considerations
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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DOT Classification	Not a DOT controlled material (United States).
Identification	Not applicable.
Special Provisions for Transport	Not applicable.

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### Benzyltrimethylammonium chloride

#### DOT (Pictograms)



Section 15. Other	Regulatory Information and Pictograms		
Federal and State Regulations	TSCA 8(b) inventory: Benzyltrimethylammonium chloride		
California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.		
Other Regulations	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 200-300-3). Canada: Listed on Canadian Domestic Substance List (DSL). China: Listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines: Listed on National Inventory (PICCS). Australia: Listed on AICS.		
Other Classifications	WHMIS (Canada) CLASS D-2B: Material causing other toxic effects (TOXIC).		
	DSCL (EEC) R36/38- Irritating to eyes and skin. S26- In case of contact with eyes, rinse immediately with plenty of water and see medical advice. S37- Wear suitable gloves. S46- If swallowed, seek medical advice immediately and show this container or l		
HMIS (U.S.A.)	Health Hazard2Fire Hazard1Reactivity0Personal ProtectionE		
WHMIS (Canada) (Pictograms)	(]		
DSCL (Europe) (Pictograms)			
TDG (Canada) (Pictograms)			
ADR (Europe) (Pictograms)			
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Protective Equipment	Gloves.
	Lab coat.
	Dust respirator. Be sure to use an approved/certified respirator or equivalent.
	Splash goggles.

# Section 16. Other Information MSDS Code B3471 References Not available. Other Special Considerations Uses: Solvent for cellulose; gelling inihibitor in polyester resins; intermediate; dye assistant for acrylics; phase-transfer catalyst; anticholinergic agent Validated by Sonia Owen on 1/26/2007. Verified by Sonia Owen. Printed 1/29/2007. CALL (310) 516-8000 Call (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.