


DR. J. PHARMACHEM (INDIA)

MATERIAL SAFETY DATA SHEET	
1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifiers
	Product Name Benzyltrimethylammonium chloride 60% solution in water
	CAS NO. 56-93-9
1.2	Relevant identified uses of the substance or mixture and uses advised against
	Identified uses Laboratory chemicals, Manufacture of substances
1.3	Details of the supplier of the safety data sheet
	COMPANY DR. J. PHARMACHEM (INDIA)
	722/AB/15 'NIRMAL' ,LAXMI PARK COLONY,
	NAVI PETH , PUNE- 411 030.INDIA
	Telephone : 020-24530071
	Fax : 020-24530110
2	HAZARDS IDENTIFICATION
2.1	Classification of the substance or mixture
	Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
	Acute toxicity, Oral (Category 3) Skin irritation (Category 2) Eye irritation (Category 2)
	Classification according to EU Directives 67/548/EEC or 1999/45/EC
	Harmful if swallowed. Irritating to eyes and skin.
2.2	Label elements
	Labelling according Regulation (EC) No 1272/2008 [CLP]
	Pictogram 
	Signal word Danger
	Hazard statement(s)
	H301 Toxic if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.
	Precautionary statement(s)



DR. J. PHARMACHEM (INDIA)

	P301 + P310 P305 + P351 + P338	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Supplemental Hazard Statements	none
According to European Directive 67/548/EEC as amended		
	Hazard symbol(s)	X
	R-phrase(s)	
	R22 R36/38	Harmful if swallowed. Irritating to eyes and skin.
	S-phrase(s)	
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
2.3	Other hazards	none
3	COMPOSITION/INFORMATION ON INGREDIENTS	
3.1	Substances	
	Synonyms	Benzyl(trimethyl)azanium chloride
	Formula	C10H16ClN
	Molecular Weight	185.69 g/mol
	Component	Concentration
	Benzyltrimethylammonium chloride	Min 60%
	Water content	Up to 40%
4	FIRST AID MEASURES	
4.1	Description of first aid measures	
	General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
	If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
	In case of skin contact	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
	In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
	If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2	Most important symptoms and effects, both acute and delayed	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
4.3	Indication of any immediate medical attention and special treatment needed	



DR. J. PHARMACHEM (INDIA)

	No data available
5	FIREFIGHTING MEASURES
5.1	Extinguishing media
	Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2	Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NO _x), Hydrogen chloride gas
5.3	Advice for firefighters Wear self contained breathing apparatus for firefighting if necessary.
5.4	Further information No data available
6	ACCIDENTAL RELEASE MEASURES
6.1	Personal precautions, protective equipment and emergency procedures
	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
6.2	Environmental precautions
	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
6.3	Methods and materials for containment and cleaning up
	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4	Reference to other sections
	For disposal see section 13.
7	HANDLING AND STORAGE
7.1	Precautions for safe handling
	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
7.2	Conditions for safe storage, including any incompatibilities
	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
7.3	Specific end uses
	no data available
8	EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1	Control parameters
	Components with workplace control parameters
8.2	Exposure controls
	Appropriate engineering controls
	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
	Personal protective equipment
	Eye/face 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 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.



DR. J. PHARMACHEM (INDIA)

	Body Protection	
	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace	
	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).	
9	PHYSICAL AND CHEMICAL PROPERTIES	
9.1	Information on basic physical and chemical properties	
a)	Appearance	Form : Liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	6 - 9
e)	Melting range/freezing range	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Enthalpy of Vaporization	No data available
i)	Index of Refraction	No data available
j)	Molar Refractivity	No data available
k)	Vapour pressure	No data available
l)	Density	1.08 g/mL at 25 °C
m)	Oxidizing properties	No data available
n)	Solubility	No data available
o)	Partition coefficient: noctanol/water	No data available
p)	Polarizability	No data available
q)	Decomposition temperature	No data available
r)	Molar Volume	No data available
s)	Surface Tension	No data available
9.2	Other safety information	
	IUPAC Name	Benzyl(trimethyl)azanium chloride
	Molecular Formula	C10H16ClN
	Molecular Weight	185.69 g/mol
	SMILES	C[N+](C)(C)CC1=CC=CC=C1.[Cl-]
	InChI	InChI=1S/C10H16N.ClH/c1-11(2,3)9-10-7-5-4-6-8-10;/h4-8H,9H2,1-3H3;1H/q+1;/p-1
	EINECS	200-300-3
10	STABILITY AND REACTIVITY	
10.1	Reactivity	no data available
10.2	Chemical stability	no data available
10.3	Possibility of hazardous reactions	no data available
10.4	Conditions to avoid	no data available
10.5	Incompatible materials	Strong oxidizing agents, Strong bases
10.6	Hazardous decomposition products	Other decomposition products - no data available



DR. J. PHARMACHEM (INDIA)

11	TOXICOLOGICAL INFORMATION		
11.1	Information on toxicological effects		
	Acute toxicity	LD50 Oral - rat - 300 mg/kg	
	Skin corrosion/irritation	no data available	
	Serious eye damage/eye irritation	no data available	
	Respiratory or skin sensitization	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.	
	Reproductive toxicity	no data available	
	Specific target organ toxicity - single exposure	no data available	
	Specific target organ toxicity - repeated exposure	no data available	
	Aspiration hazard	no data available	
	Potential health effects		
	Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.	
	Ingestion	Toxic if swallowed.	
	Skin	May be harmful if absorbed through skin. May cause skin irritation.	
	Eyes	Causes serious eye irritation.	
	Signs and Symptoms of Exposure		
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.		
	Additional Information		
	RTECS	BO8400000	
12	ECOLOGICAL INFORMATION		
12.1	Toxicity	no data available	
12.2	Persistence and degradability	no data available	
12.3	Bioaccumulative potential	no data available	
12.4	Mobility in soil	no data available	
12.5	Results of PBT and vPvB assessment	no data available	
12.6	Other adverse effects	no data available	
13	DISPOSAL CONSIDERATIONS		
13.1	Waste treatment methods		
	Product		
	Offer surplus and non-recyclable solutions to a licensed disposal company. 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.		
	Contaminated packaging		
	Dispose of as unused product.		
14	TRANSPORT INFORMATION		
14.1	UN number		
	ADR/RID	IMDG	IATA



DR. J. PHARMACHEM (INDIA)

	2811	2811	2811
14.2	UN proper shipping name		
	ADR/RID	IMDG	IATA
	TOXIC SOLID, ORGANIC, N.O.S. (Benzyltrimethylammonium chloride)	TOXIC SOLID, ORGANIC, N.O.S. (Benzyltrimethylammonium chloride)	Toxic solid, organic, n.o.s. (Benzyltrimethylammonium chloride)
14.3	Transport hazard class(es)		
	ADR/RID	IMDG	IATA
	6.1	6.1	6.1
14.4	Packaging group		
	ADR/RID	IMDG	IATA
	III	III	III
14.5	Environmental hazards		
	ADR/RID	IMDG Marine pollutant	IATA
	no	no	no
14.6	Special precautions for user		
	no data available		
15	REGULATORY INFORMATION		
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	no data available		
15.2	Chemical Safety Assessment		
	no data available		
16	OTHER INFORMATION		
	Further information		
	<p>The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dr J Pharmachem (India) and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.jpharmachem.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.</p> <p>Month of creation :- October 2013 Month of revision :- October 2016</p>		