Material Safety Data Sheet

Section 1 : Chemical Product Company Identification	
Product Name	Betaine Hydrochloride In-House Reference Standard
CAS No.	590-46-5
Identified uses	Pharmaceutical Reference Standard
Details of the Supplier Company	SynZeal Research Pvt Ltd Plot No. F, Ganesh Industrial Estate 423/24/8, MahagujaratInd Estate Sarkhej-Bavla Road, Ahmedabad-382 213. Gujarat, India.
Telephone	+91-7969225400

Section 2 : Chemical Information	
Chemical Name	1-Carboxy-N,N,N-trimethylmethanaminium chloride
CAS No.	590-46-5
Molecular Weight	118.2:35.5
Molecular Formula	C5H12NO2:CI

Section 3: Hazards Identification		
Emergency Overview:		
Appearance	White Solid	
Target Organs	NA	
Potential Health Effects:		
Eye	NIL	
Skin	NIL	
Ingestion	NIL	
Inhalation	NIL	
Chronic	NIL	

Hazard Statement:
H302:Harmful if swallowed.
H312:Harmful in contact with skin.

H315:Causes skin irritation.		
H319:Causes serious eye irritation.		
H332:Harmful if inhaled.		
H335:May cause respiratory irritation.		
Precautionary Statement:		
P261:Avoid breathing dust/fume/gas/mist/vapours/spray.		
P262:Do not get in eyes, on skin, or on clothing.		
P271: Use only outdoors or in a well-ventilated area.		
P280:Wear protective gloves/protective clothing/eye protection/face p	protection.	
P302 + P352:IF ON SKIN: Wash with plenty of water		
P304 + P340:IF INHALED: Remove person to fresh air and keep comfor	rtable for breathing.	
P305 + P351 +P338:IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P308 + P313:IF exposed or concerned: Get medical advice/attention.		
Section 4: First Aid Measures		
Eye	Wash with plenty of water	
Skin	Wash with plenty of water	
Ingestion	Medical assistance for gastric lavage.	
Inhalation	Remove to fresh air, artificial respiration or oxygen if necessary.	
Notes to Physician	Betaine Hydrochloride In-House Reference Standard can be washed with plenty of water in case of any exposure	
Section 5 : Firefighting Measures		
Extinguishing Media	Carbon dioxide, dry chemical powder, foam, water.	
Unusual Fire and Explosion Hazards None indicated		
Section 6 : Accidental Release Measures		
Personal Precautions	Wear self-contained breathing apparatus, avoid dust formation.	
Spills/Leaks	Wash with plenty of water, provide adequate ventilation.	
Section 7: Handlings and Storage		
Handling	Wear surgical gloves	
Storage		
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Section 8 : Exposure Controls, Personal Protection	
Respiratory Protection	Self-contained breathing apparatus
Exposure Limits	NA
Eye Protection	Wear safety goggles
Other Protective Equipment	Protective clothing
Skin	Full sleeves apron
Clothing	Cotton

Section 9: Physical and Chemical Properties	
Appearance	White Solid
Odor	Odor less
Melting Point	NA
рН	Basic
Vapor Pressure	NA
Vapor Density	NA
Evaporation Rate	NA
Viscosity	NA
Boiling Point	NA
Decomposition Temp	NA
Auto ignition Temp.	NA
Flash Point	NA
NFPA Rating	NA
Explosion Limits	
Lower	NA
Upper	NA
Solubility	Chloroform, Methanol
Specific Gravity/Density	NA

Section 10 : Stability and Reactivity	
Chemical Stability	
Conditions to avoid	Direct contract to skin
Incompatibilities with other Materials	Keep away
Hazardous Decomposition Products	NIL

Hazardous Polymerization	NIL		
Section 11 : Toxicological Information	Section 11 : Toxicological Information		
CAS	NA		
LD50/LC50	NA		
Carcinogenicity	NIL		
Epidemiology	NIL		
Teratogenicity	NIL		
Reproductive Effects	NIL		
Neurotoxicity	NIL		
Mutagencity	NIL		
Other Studies	NA		
Section 12: Ecological Information			
Data not available			
Section 13 : Disposal Consideration			
RCRA P-Series	Can be incinerated		
RCRA U-Series	NA		
Section 14: Transport Consideration			
UN-Number			
ADR/RID: IMDG: IATA:			
UN proper shipping name			
ADR/RID: Not dangerous goods			
IMDG: Not dangerous goods			
IATA: Not dangerous goods			
Transport hazard class(es)			
ADR/RID: IMDG: IATA:			
Packaging Group			
ADR/RID: IMDG: IATA:			
Environmental hazards			
ADR/RID: No IMDG Marine pollutant: No IATA: No			
Special precautions for users			

Further information

Section 15: Regulatory Information	
TSCA	Attached the letter
Health and Safety Reporting List	No data available
Chemical Test Rules	Chemical analysis report is attached

Section 16: Additional Information

This product is not bioactive, non-radioactive. It is for R and D use only. Not for drug, household or other uses.

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. It does not represent any guarantee of the product.