

## **MATERIAL SAFETY DATA SHEET (SDS/MSDS)**

**BENZYL TRIMETHYL AMMONIUM  
CHLORIDE 98% FOR SYNTHESIS**

**CAS-No.: 56-93-9**

**Product Code: 00406**

**Molecular Formula: C<sub>10</sub>H<sub>16</sub>ClN**

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product form : Substance  
Trade name : Benzyl Trimethyl Ammonium Chloride 98% For Synthesis  
EC-No. : 200-300-3  
CAS No : 56-93-9

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**1.2.1. Relevant identified uses**

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

Company : Chemnovo Synthesis Pvt Ltd.  
N-226 Near Kumbhavali Naka  
Tarapur MIDC, Boisar-401 506  
Palghar, Maharashtra  
Telephone : +91 7400096089  
Email: export@chemnovo.in

**1.4. Emergency telephone number**

Emergency number : + 91 7400096089 (9:00am - 6:00 pm)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H301  
Category 3  
Skin corrosion/irritation, H315  
Category 2  
Serious eye damage/eye  
irritation, Category 2

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22  
Xi; R36  
Xi; R38

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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**2.2. Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS06

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H301 – Toxic if swallowed

H315 – Causes skin irritation

H319 – Causes serious eye irritation

Precautionary statements (CLP) :

P301+P310 – IF SWALLOWED: immediately call a POISON CENTER or doctor/physician

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

**2.3. Other hazards**

No additional information available

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Name : Benzyl Trimethyl Ammonium Chloride 98% For Synthesis  
CAS No : 56-93-9  
EC-No. : 200-300-3

Full text of R- and H-statements: see section 16

**3.2. Mixture**

Not applicable

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

First-aid measures after inhalation : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries after skin contact : Causes skin irritation.  
Symptoms/injuries after eye contact : Causes serious eye irritation.  
Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

**4.3. Indication of any immediate medical attention and special treatment needed**

No additional information available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.  
Unsuitable extinguishing media : Do not use extinguishing media containing water

**5.2. Special hazards arising from the substance or mixture**

No additional information available

**5.3. Advice for firefighter**

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**6.1.1. For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

Protective equipment : Use personal protective equipment as required.  
Emergency procedures : Ventilate area.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

**6.4. Reference to other sections**

No additional information available

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours. Avoid dust formation.  
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**7.2. Conditions for safe storage, including any incompatibilities**

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Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

**7.3. Specific end use(s)**

No additional information available

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

No additional information available

**8.2. Exposure controls**

Hand protection	:	Protective gloves
Eye protection	:	Chemical goggles or safety glasses
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	Wear respiratory protection.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state	:	Solid
Colour	:	White crystalline.
Odour	:	faint, almond like odor.
Odour threshold	:	No data available
pH	:	6 - 8
Relative evaporation rate (butylacetate=1)	:	< 1
Melting point	:	239 °C
Freezing point	:	No data available
Boiling point	:	> 105 °C
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	< 0.0001 hPa at 20°C
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	1.07 g/cm <sup>3</sup>
Solubility	:	Water: Soluble in water
Log Pow	:	-2.47
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

**9.2. Other information**

No additional information available

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No additional information available

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No additional information available

**10.4. Conditions to avoid**

No additional information available

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

No additional information available

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity	:	Oral: Toxic if swallowed.
Skin corrosion/irritation	:	Causes skin irritation.
pH	:	6 – 8
Serious eye damage/irritation	:	Causes serious eye irritation.
pH	:	6 – 8
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified
Potential adverse human health effects and symptoms	:	Harmful if swallowed.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

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Log Pow	-2.47
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**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Product/Packaging disposal : Dispose of contents/container to ...  
recommendations

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA /AND

**14.1. UN number**

UN-No. (ADR)	:	2811
UN-No. (IMDG)	:	2811
UN-No.(IATA)	:	2811
UN-No.(AND)	:	Not regulated
UN-No. (RID)	:	Not regulated

**14.2. UN proper shipping name**

Proper Shipping Name (ADR)	:	TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (IMDG)	:	TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (IATA)	:	TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (ADN)	:	Not regulated
Proper Shipping Name (RID)	:	Not regulated
Transport document description (ADR)	:	UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III, (E)
Transport document description (IMDG)	:	UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III
Transport document description (IATA)	:	UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III

**14.3. Transport hazard class(es)**

ADR  
Transport hazard class(es) (ADR) : 6.1  
Danger labels (ADR) :  
:



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Excepted quantities (ADR)	:	E1		
Packing instructions (ADR)	:	P002, IBC08, LP02, R001		
Special packing provisions (ADR)	:	B3		
Mixed packing provisions (ADR)	:	Mp10		
Portable tank and bulk container instructions (ADR)	:	T1		
Portable tank and bulk container special provisions (ADR)	:	Tp33		
Tank code (ADR)	:	SGAH, L4BH		
Tank special provisions (ADR)	:	TU15, Te19		
Vehicle for tank carriage	:	AT		
Transport category (ADR)	:	2		
Special provisions for carriage - Bulk (ADR)	:	VC1, VC2, Ap7		
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV13, Cv28		
Special provisions for carriage - Operation (ADR)	:	S9		
Hazard identification number (Kemler No.)	:	60		
Orange plates	:	<table border="1"><tr><td>60</td></tr><tr><td>2811</td></tr></table>	60	2811
60				
2811				
Tunnel restriction code (ADR)	:	E		
EAC code	:	2X		
- Transport by sea				
Special provision (IMDG)	:	223, 274		
Limited quantities (IMDG)	:	5 kg		
Excepted quantities (IMDG)	:	E1		
Packing instructions (IMDG)	:	P002		
IBC packing instructions (IMDG)	:	IBC08		
IBC special provisions (IMDG)	:	B3		
Tank instructions (IMDG)	:	T1		
Tank special provisions (IMDG)	:	Tp33		
EmS-No. (Fire)	:	F-A		
EmS-No. (Spillage)	:	S-A		
Stowage category (IMDG)	:	A		
MFAG-No	:	154		
- Air transport				

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**IMDG**

Transport hazard class(es) (IMDG) : 6.1

Danger labels (IMDG) : 6.1



**IATA**

Transport hazard class(es) (IATA) : 6.1

Hazard labels (IATA) : 6.1



**AND**

Transport hazard class(es) (ADN) : Not regulated

**RID**

Transport hazard class(es) (RID) : Not regulated

**14.4. Packing group**

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : Not regulated

Packing group (RID) : Not regulated

**14.5. Environmental hazards**

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

**14.6. Special precautions for user**

- Overland transport

Classification code (ADR) : T2

Special provision (ADR) : 274, 614

Limited quantities (ADR) : 5kg

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PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y645  
PCA limited quantity max net quantity : 10kg  
(IATA)  
PCA packing instructions (IATA) : 670  
PCA max net quantity (IATA) : 100kg  
CAO packing instructions (IATA) : 677  
CAO max net quantity (IATA) : 200kg  
Special provision (IATA) : A3, A5  
ERG code (IATA) : 6L  
- Inland waterway transport  
Not regulated  
- Rail transport  
Not regulated

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

Benzyl Trimethyl Ammonium Chloride 98% For Synthesis is not on the REACH Candidate List

Benzyl Trimethyl Ammonium Chloride 98% For Synthesis is not on the REACH Annex XIV List

**15.1.2. National regulations**

**Germany**

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

**Denmark**

Recommendations Danish Regulation :

Young people below the age of 18 years are not allowed to use the product

**15.2. Chemical safety assessment**

No additional information available

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**SECTION 16: Other information**

Full text of R-, H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H301	Toxic if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
R22	Harmful if swallowed
R36	Irritating to eyes
R38	Irritating to skin
Xi	Irritant
Xn	Harmful

**Further information**

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. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.chemnovo.in](http://www.chemnovo.in) for additional terms and conditions of sale.

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