Material Safety Data Sheet	MOLYCHEM
METHYLAMMONIUM CHLORIDE FOR SYNTHESIS	VERSION : 02 DATE OF ISSUE : 26-08-2019 SUPERSEDES : 01

Product Code : 15950

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1. Identification of the substance/mixture and of the company/undertaking **1.1. Product identifier** Trade name : METHYLAMMONIUM CHLORIDE FOR SYNTHESIS **Product code** : 15950 **Identification of the product** : METHYL AMMONIUM CHLORIDE CAS No:593-51-1 1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only. **1.3.** Details of the supplier of the safety data sheet **Company identification : MOLYCHEM** Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email: info@molychem.net Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503. **1.4. Emergency telephone number** Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm). **<u>2. Hazards identification -DSD</u></u>** 2.1. Classification of the substance or mixture Classification EC 67/548 or EC 1999/45 **Classification** : Xn: R22 Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP) Health hazards : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302 2.2. Label elements Labelling EC 67/548 or EC 1999/45 **Symbol**(s) : Xn : Harmful **R Phrase**(s) : R22 : Harmful if swallowed. **S** Phrase(s) : S24/25 : Avoid contact with skin and eyes. Labelling Regulation EC 1272/2008 (CLP) Hazard pictograms

 Signal words : Warning

 MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA)

 Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : info@molychem.net

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Hazard statements : H302 : Harmful if swallowed.

Precautionary statements

• **Prevention** : P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• **Response** : P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.

• **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : METHYL AMMONIUM CHLORIDE

CAS No :593-51-1

Substance.

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Allow the victim to rest.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

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

Symptoms relating to use : 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 General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

<u>5. Fire-fighting measures</u>

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

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

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures For emergency responders : Equip cleanup crew with proper protection.

Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling : Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.7.3. Specific end use(s)

Specific end use(s) : None.

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8. Exposure controls/personal protection		
8.1. Exposure controls		
Personal protection : Avoid all unnecessary exposure.		
• Respiratory protection : Wear approved mask.		
• Hand protection : Wear protective gloves.		
• Eye protection : Chemical goggles or safety glasses.		
• Others : When using, do not eat, drink or smoke.		
8.2. Control parameters		
Occupational Exposure Limits : No data a	vailable.	
9. Physical and chemical properties		
9.1. Information on basic physical and ch	emical properties	
Physical state at 20 °C : Solid.		
Odour threshold : No data available.		
pH value : Not applicable.		
Melting point [°C] : 231 - 233 °C		
Decomposition point [°C] : N/A		
Critical temperature [°C] : N/A		
Auto-ignition temperature [°C] : N/A		
Flammability (solid, gas) : N/A		

Flash point [°C] : 200 °C

Evaporation rate : N/A

Vapour density : N/A Density [g/cm3] : 1,2

Solubility in water : N/A

9.2. Other information Explosive properties : N/A

Solubility : 5 - 7 at 10 g/l at 2 **Viscosity at 40°C [mm2/s]** : N/A

Boiling point [°C] : 225 - 231°C Initial boiling point [°C] : N/A Final boiling point [°C] : N/A

Vapour pressure [20°C] : N/A Vapour pressure mm/Hg : N/A

Relative density, gas (air=1) : N/A **Relative density, liquid (water=1)** : N/A

Explosion limits - upper [%] : N/A

Solubility in water [% weight] : Soluble in water

Log Pow octanol / water at 20°C : No data available.

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 Reactivity : Not established. 10.2. Chemical stability Chemical stability : Stable under recommentation 10.3. Possibility of hazardous reactions Hazardous reactions : Not established. 10.4. Conditions to avoid Conditions to avoid : Direct sunlight. Extree 10.5. Incompatible materials Materials to avoid : Strong acids. Strong base 10.6. Hazardous decomposition products 	emely high or low temperatures.	
Hazardous decomposition products : Fum <u>11. Toxicological information</u> 11.1. Information on toxicological effects	es. Carbon monoxide. Carbon dioxide.	
Acute toxicity • Inhalation : Based on available data, the c • Dermal : Based on available data, the clas • Ingestion : Harmful if swallowed. Corrosion : Based on available data, the cla	sification criteria are not met. ssification criteria are not met.	
Irritation : Based on available data, the classification criteria are not met.		

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met. **STOT-single exposure** : Based on available data, the classification criteria are not met. **STOT-repeated exposure** : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

<u>12. Ecological information</u>

12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

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12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

<u>13. Disposal considerations</u>

13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

<u>14. Transport information</u>

14.1. Land transport (ADR-RID)
General information : Not regulated.
14.2. Sea transport (IMDG) [English only]
General information : Not regulated.
14.3. Air transport (ICAO-IATA) [English only]
General information : Not regulated.

15. Regulatory information

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

Safety, health and environmental : Ensure all national/local regulations are observed. **regulations/legislation specific for the substance or mixture**

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

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16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 **Further information** : None.

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For questions contact: MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email : info@molychem.net

Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503

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