

MATERIAL SAFETY DATA SHEET

TETRA METHYL AMMONIUM BROMIDE (For Synthesis) MSDS CAS: 64-20-0

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: TETRA METHYL AMMONIUM BROMIDE

CAS#: 64-20-0

Synonym: Not Available

Chemical Name: Not Available

Chemical Formula: Not Available

Brand: OXFORD

Details of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
TETRA METHYL AMMONIUM BROMIDE	64-20-0	100

Section 3: Hazards Identification

Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification: T; R25 Xn; R21 Xi; R36/37/38

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP):

Health hazards: Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP: STOT SE 3) H335 Acute toxicity, Oral - Category 3 - Danger (CLP: Acute Tox. 3) H301 Skin irritation - Category 2 - Warning (CLP: Skin Corr. 2) H315 Eye irritation - Category 2A - Warning (CLP: Eye Irrit. 2) H319 Acute toxicity, dermal - Category 4 - Warning (CLP: Acute Tox. 4) H312

Label elements:

Symbol(s): T: Toxic

R Phrase(s): R21: Harmful in contact with skin.

R25: Toxic if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

S Phrase(s): S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28: After contact with skin, wash immediately with S36/37: Wear suitable protective clothing and gloves. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Labelling Regulation EC 1272/2008 (CLP)

Signal words: Danger

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.

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.

Section 4: First Aid Measures

Description of first aid measures

Inhalation: Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.

Section 4: First Aid Measures (Continued)

Skin contact: Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Wash with plenty of soap and water. If skin irritation occurs: Wash contaminated clothing before reuse. Get medical advice.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

Ingestion: Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Rinse mouth. Do NOT induce vomiting.

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. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

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).

Section 5: Fire and Explosion Data

Extinguishing media

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

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

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

Special hazards arising from the substance or mixture

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

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.

Section 6: Accidental Release Measures

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.

Environmental precautions:

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

Methods and materials 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.

Reference to other sections: Exposure controls/personal protection

Section 7: Handling and Storage

Precautions for safe handling:

Handling: Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

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

Special precautions: Avoid breathing dust, fume, gas, mist, vapours, spray.

Conditions for safe storage, including any incompatibilities:

Storage: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

Storage - away from: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

Specific end use(s): None.

Section 8: Exposure Controls/Personal Protection

Exposure controls

Personal protection: Avoid all unnecessary exposure.

Respiratory protection: Wear approved mask.

Hand protection: Wear protective gloves.

Section 8: Exposure Controls/Personal Protection (Continued)

Skin protection: Wear suitable protective clothing.

Eye protection: Chemical goggles or safety glasses.

Others: When using, do not eat, drink or smoke.

Control parameters

Occupational Exposure Limits: No data available.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state at 20 °C:	Solid.
Colour:	White crystalline
Odour:	Odorless
Odour threshold:	No data available.
pH value:	Not applicable.
Melting point [°C]:	> 300 °C
Vapour pressure [20°C]:	N/A
Vapour pressure mm/Hg:	N/A
Vapour density:	N/A
Density [g/cm³]:	N/A
Relative density, gas (air=1):	N/A
Relative density, liquid (water=1):	N/A
Solubility in water [% weight]:	Soluble in water
Solubility in water:	N/A
Log Pow octanol / water at 20°C:	No data available.
Solubility:	N/A
Viscosity at 40°C [mm²/s]:	N/A

Other information

Explosive properties:	N/A
Explosion limits - upper [%]:	N/A
Explosion limits - lower [%]:	N/A
Oxidising properties:	No data available.

Section 10: Stability and Reactivity Data

Reactivity: Not established.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Not established.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

Materials to avoid: Strong acids. Strong bases.

Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity:

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

Dermal: Harmful in contact with skin.

Ingestion: Toxic if swallowed.

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

Irritation: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

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.

Section 12: Ecological Information

Toxicity information: Not established.

Persistence - degradability: Biodegradable.

Section 12: Ecological Information (Continued)

Bioaccumulative potential: Not established.

Mobility in soil: Not established.

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.

Environmental precautions: Avoid release to the environment.

Section 13: Disposal Considerations

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.

Special precautions: Hazardous waste due to toxicity.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.

UN N°: 2811

H.I. nr: 60

ADR - Class: 6.1

ADR - Group: II

Sea transport (IMDG) [English only]

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.

UN N°: 2811

IMO-IMDG - Class or division: 6.1: Toxic substances.

IMO-IMDG - Packing group: II

Section 14: Transport Information (Continued)

Air transport (ICAO-IATA) [English only]

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.

UN N°: 2811

IATA - Class or division: 6.1: Toxic substances.

IATA - Packing group: II

Section 15: Other Regulatory Information

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

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.

Chemical Safety Assessment: It has not been carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

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