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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

TETRA METHYL AMMONIUM HYDROXIDE SOLUTION 25% IN METHANOL

MSDS CAS: 75-59-2

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: TETRA METHYL AMMONIUM HYDROXIDE SOLUTION 25% IN METHANOL
CAS#: 75-59-2
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
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
TETRA METHYL AMMONIUM HYDROXIDE SOLUTION 25% IN METHANOL	75-59-2	100

Section 3: Hazards Identification

Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45:

Classification: T; R23/24/25-R39/23/24/25

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

Health hazards: Specific Target Organ Toxicity - Single exposure - Category 1 - Danger (CLP: STOT SE 1) H370 Acute toxicity, dermal - Category 3 - Danger (CLP: Acute Tox. 3) H311 Acute toxicity, Inhalation - Category 3 - Danger (CLP: Acute Tox. 3) H331 Acute toxicity, Oral - Category 3 - Danger (CLP: Acute Tox. 3) H301

Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s): T: Toxic
R Phrase(s): R23/24/25: Toxic by inhalation, in contact with skin and if swallowed. R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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: Remove to fresh air and keep at rest in a position comfortable for breathing. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.

Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

Eye contact: Obtain medical attention if pain, blinking or redness persist. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Section 4: First Aid Measures (Continued)

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

Most important symptoms and effects, both acute and delayed

Symptoms relating to use: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Causes damage to organ. Danger of serious damage to health by prolonged exposure through inhalation. Swallowing a small quantity of this material will result in serious health hazard.

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). Call a POISON CENTER or doctor. Specific treatment (see on this label).

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. Avoid breathing dust, fume, gas, mist, vapours, spray.
For non-emergency personnel: Evacuate unnecessary personnel.

Section 6: Accidental Release Measures (Continued)

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

Methods and material for containment and cleaning up:
Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Reference to other sections: **See section 8. Exposure controls/personal protection**

Section 7: Handling and Storage

Precautions for safe handling
Handling: Wash thoroughly after handling. Wash contaminated clothing before reuse. Do not breathe dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product.

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

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.

Specific end use(s): **None.**

Section 8: Exposure Controls/Personal Protection

Exposure controls
Personal protection: Avoid all unnecessary exposure.
Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Hand protection: Wear protective gloves.
Eye protection: Chemical goggles or safety glasses.
Others: When using, do not eat, drink or smoke.

Section 8: Exposure Controls/Personal Protection (Continued)

Control parameters

Occupational Exposure Limits: No data available.

Occupational Exposure Limits:
Methanol: OEL (UK)-LTEL [ppm]: 200
Methanol: OEL (UK)-STEL [ppm]: 250
Methanol: ILV (EU) - 8 H - [mg/m³]: (260 Skin)
Methanol: ILV (EU) - 8 H - [ppm]: (200 Skin)
Methanol: HTP-värden - 8 H - [ppm]: 200
Methanol: HTP-värden - 15min - [ppm]: 250
Methanol: HTP-värden - 8 H - [mg/m³]: 270
Methanol: HTP-värden - 15min - [mg/m³]: 330
Methanol: NGV - [ppm]: 200
Methanol: NGV - [mg/m³]: 250
Methanol: KTV - [ppm]: 250
Methanol: KTV - [mg/m³]: 350
Methanol: VLA-ED [ppm]: 200
Methanol: VLA-ED [mg/m³]: 266
Methanol: VLA-EC [ppm]: 250
Methanol: VLA-EC [mg/m³]: 333

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state at 20 °C:	Liquid.
Colour:	Colorless
Odour:	Characteristic.
Odour threshold:	No data available.
pH value :	No data available.
Melting point [°C]:	-97.8°C
Decomposition point [°C]:	N/A
Critical temperature [°C]:	No data available.
Auto-ignition temperature [°C]:	No data available.
Flammability (solid, gas):	Flammable.
Flash point [°C]:	No data available.
Boiling point [°C]:	63.9 °C
Initial boiling point [°C]:	No data available.
Final boiling point [°C]:	No data available.

Section 9: Physical and Chemical Properties (Continued)

Evaporation rate:	**5,2**
Vapour pressure [20°C]:	**No data available.**
Vapour pressure mm/Hg:	**29 mm Hg (@ 20°C)**
Vapour density:	**1,1**
Density [g/cm3]:	**0,8**
Relative density, gas (air=1):	**N/A**
Relative density, liquid (water=1):	**N/A**
Solubility in water [% weight]:	**In water, material soluble.**
Solubility in water:	**No data available.**
Log Pow octanol / water at 20°C:	**No data available.**
Solubility:	**N/A**
Viscosity at 40°C [mm2/s]:	**No data available.**

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.**

Possibility of hazardous reactions: **Not established.**

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

Incompatible materials: **Strong acids. Strong bases.**

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

Section 11: Toxicological Information

Information on toxicological effects

Toxicity information: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

Acute toxicity

Inhalation:	**Toxic if inhaled.**
Dermal:	**Toxic in contact with skin.**
Ingestion:	**Toxic if swallowed.**
Corrosion:	**Based on available data, the classification 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:	**Causes damage to organ.**
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: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

Persistence - degradability: Biodegradable.

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: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
UN N°: 3286
H.I. nr: 368
ADR - Class: 3
ADR - Group: II

Sea transport (IMDG) [English only]

Proper shipping name: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
UN N°: 3286
IMO-IMDG - Class or division: 3: Flammable liquid. (6.1: Toxic substances.) (8: Corrosive substance.)
IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]

Proper shipping name: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
UN N°: 3286
IATA - Class or division: 3: Flammable liquid. (6.1: Toxic substances.) (8: Corrosive substance.)
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.

Section 15: Other Regulatory Information (Continued)

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.

Disclaimer:

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The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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