TETRAMETHYL AMMONIUM HYDROXIDE SOLUTION 25% IN WATER EXTRA PURE MSDS



CAS-No.: 75-59-2 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier	
Product form	: Substance
	:
CAS-No.	: 75-59-2
Product code	: 06226
Chemical structure	CH3
	: CH ₃ H ₃ C−N ⁺ −CH ₃ OH [−] CH ₃
	ĊН ₃

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

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), H300 Category 1 Acute toxicity (dermal), H310 Category 2 Skin corrosion/irritation, H314 Category 1

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

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R21/22 C; R34 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements		
Labelling according to Regulation (EC) No. 1272/2008 [CLP]		
Hazard pictograms (CLP)	GHS05 GHS06	
Signal word (CLP)	: Danger	
5	5	
Hazard statements (CLP)	: H300+H310 - Fatal if swallowed or in contact with skin H314 - Causes severe skin burns and eye damage.	
Precautionary statements (CLP)	 P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of water/ 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	
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No additional information available

SECTIC	ON 3: Composition/information o	n ingredients
3.1.	Substances	
Name		: TETRAMETHYL AMMONIUM HYDROXIDE SOLUTION 25% IN WATER Extra Pure
CAS-No).	: 75-59-2

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

3.2. Mixtures

Not applicable

	SECTION 4:	First aid	measures
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4.1.	Description of first aid measures	;	
First-aid	measures after inhalation		Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

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according to Regulation (EC) No. 1907/2006 (REACH) w	ith its amendment Regulation (EU) 2015/830
First-aid measures after skin contact	: Immediately call a POISON CENTER/doctor. Specific measures (see supplemental first aid instruction on this label). Wash with plenty of water/ Wash contaminated clothing before reuse. Take off immediately all contaminated clothing. Rinse skin with water/shower.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate me	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	e substance or mixture
No additional information available	
5.3 Advice for firefighters	
5.3. Advice for firefighters Protection during firefighting	: Do not attempt to take action without suitable protective equipment
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
	· · · · · · · ·
Protection during firefighting SECTION 6: Accidental release measure	· · · · · · · ·
Protection during firefighting SECTION 6: Accidental release measure 6.1. Personal precautions, protective	\$\$
Protection during firefighting SECTION 6: Accidental release measure 6.1. Personal precautions, protective	\$\$
Protection during firefighting SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv 6.1.1. For non-emergency personnel Emergency procedures	s e equipment and emergency procedures
Protection during firefightingSECTION 6: Accidental release measure6.1.Personal precautions, protective6.1.1.For non-emergency personnelEmergency procedures6.1.2.For emergency responders	s e equipment and emergency procedures : Evacuate unnecessary personnel.
 Protection during firefighting SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 	s e equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required.
Protection during firefightingSECTION 6: Accidental release measure6.1.Personal precautions, protective6.1.1.For non-emergency personnelEmergency procedures6.1.2.For emergency responders	s e equipment and emergency procedures : Evacuate unnecessary personnel.
 Protection during firefighting SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 	s e equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required.
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 Protection during firefighting SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 	s e equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Stop release.
 Protection during firefighting SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain 	s e equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Stop release. mment and cleaning up
 Protection during firefighting SECTION 6: Accidental release measure 6.1. Personal precautions, protectiv 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 	s e equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Stop release.
 Protection during firefighting SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain 	 s e equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Stop release. mment and cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills
 Protection during firefighting SECTION 6: Accidental release measure 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contait Methods for cleaning up 	 s e equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Stop release. mment and cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills
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Protection during firefightingSECTION 6: Accidental release measure6.1.Personal precautions, protective6.1.1.For non-emergency personnelEmergency procedures6.1.2.For emergency respondersProtective equipmentEmergency procedures6.2.Environmental precautionsAvoid release to the environment.6.3.Methods and material for contaiMethods for cleaning up6.4.Reference to other sectionsNo additional information availableSECTION 7: Handling and storage7.1.Precautions for safe handling	 s e equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Stop release. nment and cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Protection during firefightingSECTION 6: Accidental release measure6.1.Personal precautions, protective6.1.1.For non-emergency personnelEmergency procedures6.1.2.For emergency respondersProtective equipmentEmergency procedures6.2.Environmental precautionsAvoid release to the environment.6.3.Methods and material for containMethods for cleaning up6.4.Reference to other sectionsNo additional information availableSECTION 7: Handling and storage	 s e equipment and emergency procedures : Evacuate unnecessary personnel. : Use personal protective equipment as required. : Stop release. mment and cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills

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Conditions for safe storage, including any incompatibilities 7.2.

Technical measures

Storage conditions

: Comply with applicable regulations.

- : Store in original container. Keep container tightly closed. Store in a dry place.
- Specific end use(s) 7.3.

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

No additional information available

8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Colour	: Clear Colorless.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 27 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 23.3 hPa at 20 °C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available

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• • ()	
Density	: 0.866 g/cm ³
Solubility	: Water: Miscible in water
Log Pow	: No data available
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
SECTION 10: Stability and reactivity
10.1. Reactivity
Thermal decomposition generates : Corrosive vapours.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
Direct sunlight. Overheating. Open flame. Heat. Sparks.
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicolog	gical effects
Acute toxicity	: Oral: Fatal if swallowed. Dermal: Fatal in contact with skin.
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
Respiratory or skin sensitisation	: Not classified

: Not classified

Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

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Potential adverse human health effects : Harmful if swallowed. Harmful in contact with skin. and symptoms SECTION 122 Ecological information 12.1. Toxicity No additional information available 12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential No additional information available 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 132 Disposal considerations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. SECTION 143 Transport information : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. SECTION 143 Transport information : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. SECTION 143 Transport infor	Aspiration hazard	: Not classified
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14.1. UN number UN-No. (ADR) : 1835 UN-No. (IMDG) : 1835 UN-No. (IATA) : 1835 UN-No. (ADN) : 1835	SECTION 14: Transport information	
UN-No. (ADR) : 1835 UN-No. (IMDG) : 1835 UN-No. (IATA) : 1835 UN-No. (ADN) : 1835	In accordance with ADR / RID / IMDG / IA	TA / ADN
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UN-No. (IMDG) : 1835 UN-No. (IATA) : 1835 UN-No. (ADN) : 1835		• 1835
UN-No. (IATA) : 1835 UN-No. (ADN) : 1835		
UN-No. (ADN) : 1835		
UN-No. (RID) : 1835	UN-No. (RID)	: 1835

14.2. UN proper shipping name

Proper Shipping Name (ADR)

: TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION

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Proper Shipping Name (IMDG)	: TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION
Proper Shipping Name (IATA)	: Tetramethylammonium hydroxide, solution
Proper Shipping Name (ADN)	: TETRAMETHYL AMMONIUM HYDROXIDE, SOLUTION
Proper Shipping Name (RID)	: TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION
Transport document description (ADR)	: UN 1835 TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION, 8, II, (E)
Transport document description (IMDG)	: UN 1835 TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION, 8, II
Transport document description (IATA)	: UN 1835 Tetramethylammonium hydroxide, solution, 8, II
Transport document description (ADN)	: UN 1835 TETRAMETHYL AMMONIUM HYDROXIDE, SOLUTION, 8, II
Transport document description (RID)	: UN 1835 TETRAMETHYLAMMONIUM HYDROXIDE SOLUTION, 8, II

14.3. Transport hazard class(es)

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



: 8

: 8

: 8

: 8

: 8

: 8

: 8

: 8 : 8

IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)



IATA

Transport hazard class(es) (IATA) Hazard labels (IATA)



ADN

Transport hazard class(es) (ADN) Danger labels (ADN)



RID

Transport hazard class(es) (RID)	
Danger labels (RID)	

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14.4. Packing group			
Packing group (ADR)	: 11		
Packing group (IMDG)	: 11		
Packing group (IATA)	: 11		
Packing group (ADN)	: 11		
Packing group (RID)	: 11		
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)	: C7
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 80
Orange plates	80
	1835
Tunnel restriction code (ADR)	: E
EAC code	: 2X
- Transport by sea	
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Segregation (IMDG)	: SG35
Properties and observations (IMDG)	: Miscible with water. Reacts violently with acids.
MFAG-No	: 153

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- Air transport

- All transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L
- Inland waterway transport	
Classification code (ADN)	: C7
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: C7
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP2
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE6
Hazard identification number (RID)	: 80

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

TETRAMETHYL AMMONIUM HYDROXIDE SOLUTION 25% IN WATER Extra Pure is not on the REACH Candidate List TETRAMETHYL AMMONIUM HYDROXIDE SOLUTION 25% IN WATER Extra Pure is not on the REACH Annex XIV List

15.1.2. National regulations

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Class for fire hazard	: Class II-1
Store unit	: 5 liter
Classification remarks	: R10 <h300+h310;h314>; Emergency management guidelines for the storage of flammable liquids must be followed</h300+h310;h314>
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
R21/22	Harmful in contact with skin and if swallowed
R34	Causes burns
С	Corrosive
Xn	Harmful

Safety Data Sheet

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product