



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substa	ince/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Mixture		
	:		
Product code	: 6224B		
4.0 Delevent identified on a 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 sa	afety data sheet		
Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road,			
Ludhiana Pb. (141007)			
+91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com			
1.4. Emergency telephone number			
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)		
SECTION 2: Hazards identification			
2.1. Classification of the substance	e or mixture		
Classification according to Directive 67	7/548/EEC or 1999/45/EC		
Not classified			

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

2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC No labelling applicable

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18- 5 (EC no) 231-791-2	75 - 99	Not classified	Not classified
TETRAMETHYL AMMONIUM HYDROXIDE SOLUTION	(CAS No) 75-59-2	5 - 10	Xn; R21/22 C; R34	Skin Corr. 1B, H314 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302

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

SECTION 4: First aid measures	
SECTION 4. Thist and measures	
4.1. Description of first aid measure	9S
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	 Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
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 or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after skin contact	: Fatal in contact with skin.
Symptoms/injuries after ingestion	: Fatal if swallowed.
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 th	e substance or mixture

No additiona	l information	availahle

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5.3. Advice for firefighters				
Protection during firefighting				
SECTION 6: Accidental release measure	S			
6.1. Personal precautions. protective	e equipment and emergency procedures			
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Emergency procedures	: Evacuate unnecessary personnel.			
6.1.2. For emergency responders				
Protective equipment	: Use personal protective equipment as required.			
Emergency procedures	: Stop release.			
2.2 Environmental and exciting				
6.2. Environmental precautions				
Avoid release to the environment.				
6.3. Methods and material for contain	nment and cleaning up			
Methods for 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.			
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	: Do not breathe dust/fume/gas/mist/vapours/spray.			
Hygiene measures	: Wash thoroughly after handling. Wash contaminated clothing before reuse.			
7.2. Conditions for safe storage, incl	uding any incompatibilities			
Technical measures	: Comply with applicable regulations.			
Storage conditions	: Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture.			
7.3. Specific end use(s)				
No additional information available				
SECTION 8: Exposure controls/personal	protection			

8.1. Control parameters

No additional information available

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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	: Wear respiratory protection
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a	
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	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
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.

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10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	S
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Overheating. Open flame. He	eat. Sparks.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produ	cts
Thermal decomposition generates : Corrosiv	
memai decomposition generates . Conosiv	e vapours.
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	cts
Acute toxicity	: Not classified
Irritation	: Not classified
Corrosivity	: Not classified
Sensitisation	: Not classified
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Toxicity for reproduction	: Not classified
SECTION 12: 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

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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 44: Transport information	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	TA / ADN
14.1. UN number	
UN-No. (ADR)	: 1835
UN-No. (IMDG)	: 1835
UN-No.(IATA)	: 1835
UN-No.(ADN)	: 1835
UN-No. (RID)	: 1835
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: TETRAMETHYLAMMONIUM HYDROXIDE
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, 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
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14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8



: 8

: 8

: 8

IMDG

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

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Transport hazard class(es) (IATA)

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Hazard labels (IATA)	: 8
ADN	
Transport hazard class(es) (ADN)	: 8
Danger labels (ADN)	: 8
RID	
Transport hazard class(es) (RID)	: 8
Danger labels (RID)	: 8
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)	: 1L
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Dertable tenk and bulk container	· T7

instructions (ADR)

provisions (ADR) Tank code (ADR)

Vehicle for tank carriage

Transport category (ADR)

Portable tank and bulk container

Portable tank and bulk container special

Hazard identification number (Kemler No.) : 80

: T7

: TP2

: L4BN

: AT

: 2

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Orange plates	· 80
	1835
Tunnel restriction code (ADR)	: E
EAC code	: 2X
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
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
MFAG-No	: 153
A in the second	
- Air transport	. 52
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 provision (IATA)	: A3
ERG code (IATA)	: 8L
- Inland waterway transport	
Classification code (ADN)	: C7
Limited quantities (ADN)	: 1 L
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
	: 80
Hazard identification number (RID)	. 00

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

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 3, strongly hazardous to water (Classification according to AwSV, Annex 1)	
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)	
Denmark		
Deninark		
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 addit	ional inform	nation a	available

SECTION 16: Other information

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

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H302	Harmful if swallowed
H312	Harmful 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

TETRAMETHYL AMMONIUM HYDROXIDE 1M SOLUTION IN WATER Safety Data Sheet

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