

CAS-No.: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION	1: Identification of the su	bstance/mixture and of the company/undertaking	
1.1. P	roduct identifier		
Product for	rm	: Mixture	
		:	
Product co	de	: 06225	
1.2. R	elevant identified uses of	the substance or mixture and uses advised against	
1.2.1. R	elevant identified uses		
Industrial/F	Professional use spec	: Industrial	
		For professional use only	
1.2.2. U	ses advised against		
	nal information available		
1.3. D	etails of the supplier of the	ne safety data sheet	
	Fine Chem Industries		
	Above Bank of India, Guru ^{>} b. (141007)	Vinar, Ranon Road,	
+91 93167	77775, +91 7707855700		
sales@lab	ogens.com - www.Labog	ens.com	
1.4. Emergency telephone number			
Emergency		: +91 7707855700 (9:00am - 6:00 pm)	
- 0			
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixture			
Classification according to Regulation (EC) No. 1272/2008 [CLP]			
Aquita taxia	city (oral). H301		
Acute toxic Category 3			
Skin corros	sion/irritation, H314		
Category 1	IB		

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS05 GHS06
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H301 - Toxic if swallowed. H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients			
3.1.	Substances		
Not ap	plicable		

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	75 - 99	Not classified
TETRAMETHYL AMMONIUM HYDROXIDE SOLUTION 10%	(CAS-No.) 75-59-2	10 - 15	Skin Corr. 1B, H314 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302

Full text of H-statements: see section 16

SECTION 4: First aid measures			
4.1. Description of first aid measu	res		
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. 		
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.		

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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. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor
4.2. Most important symptoms an	nd effects, both acute and delayed
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after ingestion	: Toxic if swallowed.
	medical 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 substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measu	ures
6.1. Personal precautions, protec	tive equipment and emergency procedures
6.1.1. For non-emergency personne	el
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area. Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for con	Itainment 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	3
Precautions for safe handling	: Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, i	including any incompatibilities
Storage conditions	: Store in original container. Keep container tightly closed. Store in a dry place.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/perso	nal protection
8.1. Control parameters	
No additional information available	
L.L	27/02/04.0

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			
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	: 110 °C		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: 17.5 mm Hg at 20 °C		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
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		

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SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions			
No additional information available			
10.4. Conditions to avoid			
Air contact. Direct sunlight.			
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposition products			
No additional information available			
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity : Oral: Toxic if swallowed.			
ATE CLP (oral) 100 mg/kg bodyweight			
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			
Germ cell mutagenicity : Not classified			
Carcinogenicity : Not classified			
Reproductive toxicity : Not classified			
STOT-single exposure : Not classified			
STOT-repeated exposure : 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 asses	sment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
	· Dispass of contents/container to bezerdeus or aposial wasts collection point in
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IAT	ra / 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 SOLUTION
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)	: 8
Danger labels (ADR)	: 8

Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8
	8
ADN	
Transport hazard class(es) (ADN)	: 8
Danger labels (ADN)	: 8
Transport hazard class(es) (RID)	: 8 : 8
Danger labels (RID)	. 0
14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	
Packing group (IATA)	
Packing group (ADN)	
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	
	. 07

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
	. 2/
- 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
- Air 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	. 67
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	: T7
instructions (RID)	

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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

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 3, Highly 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)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

contact with the product

15.2. Chemical safety assessment

No additional information available

Pregnant/breastfeeding women working with the product must not be in direct

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SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
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
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.

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