

CAS No: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

1.1. Product identifier Product form : Mixture : : Product code : 6217P 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 1.2.1. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com 1.4. Emergency telephone number Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)		
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SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
Classification according to Directive 67/548/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]
Methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603- 001-00-X	75 - 99	F; R11 T; R23/24/25 T; R39/23/24/25	Flam. Liq. 2, H225 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 STOT SE 1, H370
Tetrabutylammonium hydroxide	(CAS No) 147741- 30-8	15 - 25	C; R34	Skin Corr. 1B, H314

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

SECTION 4: First aid measures Description of first aid measures 4.1. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice. First-aid measures after skin contact Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries : May cause damage to organs through prolonged or repeated exposure. Causes damage to organs. Symptoms/injuries after inhalation : Harmful if inhaled. May cause drowsiness or dizziness. Symptoms/injuries after skin contact : Harmful in contact with skin. Causes skin irritation. Symptoms/injuries after eye contact : Causes serious eye damage. Symptoms/injuries after ingestion : Harmful if swallowed. May be fatal if swallowed and enters airways. Chronic symptoms : Suspected of damaging the unborn child.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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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 t	
Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: Heating may cause an explosion.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protect	ive equipment and emergency procedures
6.1.1. For non-emergency personne	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Avoid breathing dust/fume/gas/mist/vapours/spray.
Emergency procedures	: Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for cont	tainment 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	: Do not eat, drink or smoke when using this product. Wash thoroughly after
	handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Store in original container. Keep container tightly closed. Store in a dry place.
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7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/persor	al protection
8.1. Control parameters	
No additional information available	

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 properties			
9.1. Information on basic physical a Physical state	nd chemical properties : Liquid		
Colour	: light yellow.		
Odour	: odourless.		
Odour threshold	: No data available		
рН	: 11.6		
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	: 4 °C		
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	: Water: Soluble 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 Posetivity			

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours. www.lobachemie.com

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10.2. Chemical stability				
Stable under normal conditions.				
10.3. Possibility of hazardous reactio	ns			
No additional information available				
10.4. Conditions to avoid				
Direct sunlight. Overheating. Open flame. H	Direct sunlight. Overheating. Open flame. Heat. Sparks.			
10.5. Incompatible materials				
No additional information available				
10.6. Hazardous decomposition prod	ucts			
Thermal decomposition generates : Corros	ive vapours.			
SECTION 11: Toxicological information				
11.1. Information on toxicological effe	ects			
Acute toxicity	: Not classified			
Irritation	: Not classified			
	pH: 11.6			
Corrosivity	: Not classified			
	pH: 11.6			
Sensitisation	: Not classified			
Repeated dose toxicity	: Not classified			
Carcinogenicity	: Not classified			
Mutagenicity	: Not classified			
Toxicity for reproduction	: Not classified			
Potential adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin.			
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

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects			
No additional information available			
SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Product/Packaging disposal recommendations	: Dispose of contents/container to		
Ecology - waste materials	: Hazardous waste due to toxicity.		
SECTION 14: Transport information			
In accordance with ADR / RID / IMDG / IA	TA / ADN		
14.1. UN number			
UN-No. (ADR)	: 3286		
UN-No. (IMDG)	: 3286		
UN-No.(IATA)	: 3286		
UN-No.(ADN)	: 3286		
UN-No. (RID)	: 3286		
	. 0200		
14.2. UN proper shipping name			
Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.		
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.		
Proper Shipping Name (IATA)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.		
Proper Shipping Name (ADN)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.		
Proper Shipping Name (RID)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.		
Transport document description (ADR)	: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II, (D/E)		
Transport document description (IMDG)	: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II		
Transport document description (IATA)	: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II		
Transport document description (ADN)	: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II		
Transport document description (RID)	: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II		
mansport document description (IND)	. ON 3200 FEAMINABLE EIGOID, TOXIC, CONNOSIVE, N.O.S., 3 (0.110), II		
14.3. Transport hazard class(es)			
ADR			
Transport hazard class(es) (ADR)	: 3 (6.1, 8)		
Danger labels (ADR)	: 3, 6.1, 8		
IMDG			
Transport hazard class(es) (IMDG)	: 3 (6.1, 8)		
Danger labels (IMDG)	: 3, 6.1, 8		
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Transport hazard class(es) (IATA)
Hazard labels (IATA)

: 3 (6.1, 8) : 3, 6.1, 8



ADN

Transport hazard class(es) (ADN) Danger labels (ADN) : 3 (6.1, 8) : 3, 6.1, 8



RID

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

14.4 Packing group





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)	: FTC
Special provision (ADR)	: 274
Limited quantities (ADR)	: 1L
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02

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Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR)	: MP19 : T11
Portable tank and bulk container special provisions (ADR)	: TP2, TP27
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S2, S22
Hazard identification number (Kemler No.)	: 368
Orange plates	368 3286
Tunnel restriction code (ADR)	: D/E
EAC code	: •3WE
APP code	: A(fl)
- Transport by sea	074
Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC99
Tank instructions (IMDG)	: T11
Tank special provisions (IMDG)	: TP2, TP13, TP27
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-C
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SG5, SG8
MFAG-No	: 131
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y340
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 352
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 363
CAO max net quantity (IATA)	: 5L
ERG code (IATA)	: 3CP
- Inland waterway transport	
Classification code (ADN)	: FTC
Special provisions (ADN)	: 274, 802
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: Т
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Equipment required (ADN) Ventilation (ADN)	: PP, EP, EX, TOX, A : VE01, VE02
Number of blue cones/lights (ADN)	: 2
- Rail transport	
Classification code (RID)	: FTC
Special provision (RID)	: 274
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T11
Portable tank and bulk container special provisions (RID)	: TP2, TP27
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Loading and unloading (RID)	: CW13, CW28
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 368

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 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	
Class for fire hazard	: Class I-1
Store unit	: 1 liter
Classification remarks	: F <flam. 2="" liq.="">; Emergency management guidelines for the storage of flammable liquids must be followed</flam.>

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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
	The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Aguta Tax 2 (Dermal)	Agute tovisity (dermal) Cotegory 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H331	Toxic if inhaled
H370	Causes damage to organs
R11	Highly flammable
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R34	Causes burns
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
С	Corrosive
F	Highly flammable
Т	Toxic

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