CAS-No.: MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

Product identifier

Product form : Mixture

Product code : 6217E

Relevant identified uses of the substance or mixture and uses advised against 1.2.

Relevant identified uses 1.2.1.

Industrial/Professional use spec : Industrial

For professional use only

Uses advised against 1.2.2.

No additional information available

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 - www.lobachemie.com

Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

Classification of the substance or mixture

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

Flammable liquids, H226

Category 3

H300

Acute toxicity (oral),

Category 1 Acute toxicity (dermal),

H311

Category 3

H331

Acute toxicity (inhalation:gas) Category

Skin corrosion/irritation,

H314

Category 1

Specific target organ H370

toxicity — single

exposure, Category 1

Full text of H statements : see section 16

16/03/2019 1/11 www.lobachemie.com

Safety Data Sheet

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)









GHS02

GHS05

GHS06

GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H300 - Fatal if swallowed.

H311+H331 - Toxic in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage.

H370 - Causes damage to organs.

Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

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 applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
METHANOL AR/ACS	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X	75	Flam. Liq. 2, H225 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 STOT SE 1, H370
TETRABUTYL AMMONIUM HYDROXIDE AR		25	Not classified

www.lobachemie.com 16/03/2019 2/11

Safety Data Sheet

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

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. Take off contaminated clothing. 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 : If you feel unwell, seek medical advice. Rinse mouth out with water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage. Causes damage to organs.

Symptoms/effects after inhalation : Toxic if inhaled.

Symptoms/effects after skin contact : Toxic in contact with skin.

Symptoms/effects after ingestion : Fatal if swallowed.

4.3. Indication of any immediate 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

Fire hazard : Flammable liquid and vapour.

Explosion hazard : Heating may cause a fire or explosion.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

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 containment 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.

www.lobachemie.com 16/03/2019 3/11

Safety Data Sheet

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. Avoid contact during

pregnancy/while nursing.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face

thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

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

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 properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Molecular mass : 258.48 g/mol

Colour : Clear Colorless to light yellow.

Odour : amine like and alcohol like.

Odour threshold : 100 ppm

pH : > 13

Relative evaporation rate (butylacetate=1) : No data available

Melting point : -97.8 °C

Freezing point : No data available

Boiling point : 65 °C

Flash point : 12 °C

www.lobachemie.com 16/03/2019 4/11

Safety Data Sheet

Critical temperature : 240 °C Auto-ignition temperature : 470 °C

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable

Vapour pressure : 12.9 kPa (at 20°C)

Relative vapour density at 20 °C : 1.11

Relative density : No data available

Density : 0.8 - 0.83 g/cm³

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 : 0.067 - 0.36 vol %

9.2. Other information

No additional information available

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

Direct sunlight. High temperature. Heat. Open flame. Overheating.

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: Fatal if swallowed. Dermal: Toxic in contact with skin. Inhalation:gas: Toxic if

inhaled.

ATE CLP (oral)	0.5 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight

www.lobachemie.com 16/03/2019 5/11

Safety Data Sheet

ATE CLP (gases)	700 ppmv/4h
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: > 13
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
	pH: > 13
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Causes damage to organs.
STOT-repeated exposure	: Not classified
OTOT-repeated exposure	. Not diassified
Aspiration hazard	: Not classified
Detartial advance housen health office	Toda if analysis of Toda in analysis of the
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

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

www.lobachemie.com 16/03/2019 6/11

Safety Data Sheet

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal

Ecology - waste materials

recommendations

: Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

: Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 2924 UN-No. (IMDG) : 2924 UN-No. (IATA) : 2924 UN-No. (ADN) : 2924 UN-No. (RID) : 2924

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Proper Shipping Name (IATA) : Flammable liquid, corrosive, n.o.s.

Proper Shipping Name (ADN) : FLAMMABLE LIQUID, CORROSIVE, N.O.S. Proper Shipping Name (RID) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Transport document description (ADR) : UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S., 3 (8), II, (D/E) Transport document description (IMDG) : UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S., 3 (8), II

Transport document description (IATA) : UN 2924 Flammable liquid, corrosive, n.o.s., 3 (8), II

Transport document description (ADN) : UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S., 3 (8), II Transport document description (RID) : UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S., 3 (8), II

14.3. Transport hazard class(es)

ADR

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



IMDG

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



IATA

Transport hazard class(es) (IATA) : 3 (8) Hazard labels (IATA) : 3, 8

www.lobachemie.com 16/03/2019 7/11

Safety Data Sheet



ADN

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



RID

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



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

: TP2, TP27

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : FC
Special provisions (ADR) : 274
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container : T11

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : L4BH

Vehicle for tank carriage : FL

Transport category (ADR) : 2

www.lobachemie.com 16/03/2019 8/11

Safety Data Sheet

Special provisions for carriage - Operation : S2, S20

(ADR)

Hazard identification number (Kemler No.) : 338

Orange plates :

338 2924

Tunnel restriction code (ADR) : D/E
EAC code : •3WE
APP code : A(fl)

- Transport by sea

Special provisions (IMDG) : 274

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T11

Tank special provisions (IMDG) : TP2, TP27

EmS-No. (Fire): F-EEmS-No. (Spillage): S-CStowage category (IMDG): BStowage and handling (IMDG): SW2

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y340
PCA limited quantity max net quantity : 0.5L

(IATA)

PCA packing instructions (IATA) : 352
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 363
CAO max net quantity (IATA) : 5L
Special provisions (IATA) : A3
ERG code (IATA) : 3CH

- Inland waterway transport

Classification code (ADN) : FC
Special provisions (ADN) : 274
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, EX, A

Ventilation (ADN) : VE01 Number of blue cones/lights (ADN) : 1

- Rail transport

Classification code (RID) : FC
Special provisions (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 : T11

instructions (RID)

www.lobachemie.com 16/03/2019 9/11

Safety Data Sheet

Portable tank and bulk container special

provisions (RID)

: TP2, TP27

Tank codes for RID tanks (RID) : L4BH

Transport category (RID) : 2

Colis express (express parcels) (RID) : CE7

Hazard identification number (RID) : 338

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. BlmSchV (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 : None of the components are listed

voortplanting giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

: None of the components are listed

Denmark

Class for fire hazard : Class I-1 Store unit : 1 liter

Classification remarks : F <Flam. Liq. 3>; Emergency management guidelines for the storage of flammable

liquids must be followed

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

www.lobachemie.com 16/03/2019 10/11

Safety Data Sheet

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 1 (Oral)Acute toxicity (oral), Category 1Acute Tox. 3 (Dermal)Acute toxicity (dermal), Category 3Acute Tox. 3 (Inhalation)Acute toxicity (inhal.), Category 3Acute Tox. 3 (Inhalation:gas)Acute toxicity (inhalation:gas) Category 3Acute Tox. 3 (Oral)Acute toxicity (oral), Category 3Flam. Liq. 2Flammable liquids, Category 2Flam. Liq. 3Flammable liquids, Category 3Skin Corr. 1Skin corrosion/irritation, Category 1STOT SE 1Specific target organ toxicity — single exposure, Category 1H225Highly flammable liquid and vapour.H300Fatal if swallowed.H301Toxic if swallowed.H311Toxic in contact with skin.H314Causes severe skin burns and eye damage.H331Toxic if inhaled.H370Causes damage to organs.	- un toxt of 11 unu = 011 otatomor	•••
Acute Tox. 3 (Inhalation) Acute toxicity (inhal.), Category 3 Acute Tox. 3 (Inhalation:gas) Acute toxicity (inhalation:gas) Category 3 Acute Tox. 3 (Oral) Acute toxicity (oral), Category 3 Flam. Liq. 2 Flammable liquids, Category 2 Flam. Liq. 3 Flammable liquids, Category 3 Skin Corr. 1 Skin corrosion/irritation, Category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 1 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H300 Fatal if swallowed. H301 Toxic if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H331 Toxic if inhaled.	Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Acute Tox. 3 (Inhalation:gas) Acute toxicity (inhalation:gas) Category 3 Acute Tox. 3 (Oral) Acute toxicity (oral), Category 3 Flam. Liq. 2 Flammable liquids, Category 2 Flam. Liq. 3 Flammable liquids, Category 3 Skin Corr. 1 Skin corrosion/irritation, Category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 1 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H300 Fatal if swallowed. H301 Toxic if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H331 Toxic if inhaled.	Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral) Acute toxicity (oral), Category 3 Flam. Liq. 2 Flammable liquids, Category 2 Flam. Liq. 3 Flammable liquids, Category 3 Skin Corr. 1 Skin corrosion/irritation, Category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 1 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H300 Fatal if swallowed. H301 Toxic if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H331 Toxic if inhaled.	Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Flam. Liq. 2 Flammable liquids, Category 2 Flam. Liq. 3 Flammable liquids, Category 3 Skin Corr. 1 Skin corrosion/irritation, Category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 1 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H300 Fatal if swallowed. H301 Toxic if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H331 Toxic if inhaled.	Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Flam. Liq. 3 Flammable liquids, Category 3 Skin Corr. 1 Skin corrosion/irritation, Category 1 STOT SE 1 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H300 Fatal if swallowed. H301 Toxic if swallowed. H311 Toxic in contact with skin. Causes severe skin burns and eye damage. H331 Flammable liquids, Category 3 Skin Corrosion/irritation, Category 1 Steposure, Category 1 Highly flammable liquid and vapour. Fatal if swallowed. Fatal if swallowed. Toxic if swallowed. H311 Toxic in contact with skin. Causes severe skin burns and eye damage.	Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Skin Corr. 1 Skin corrosion/irritation, Category 1 STOT SE 1 Specific target organ toxicity — single exposure, Category 1 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H300 Fatal if swallowed. H301 Toxic if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H331 Toxic if inhaled.	Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 1 Specific target organ toxicity — single exposure, Category 1 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H300 Fatal if swallowed. H301 Toxic if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H331 Toxic if inhaled.	Flam. Liq. 3	Flammable liquids, Category 3
H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H300 Fatal if swallowed. H301 Toxic if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H331 Toxic if inhaled.	Skin Corr. 1	Skin corrosion/irritation, Category 1
H226 Flammable liquid and vapour. H300 Fatal if swallowed. H301 Toxic if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H331 Toxic if inhaled.	STOT SE 1	Specific target organ toxicity — single exposure, Category 1
H300 Fatal if swallowed. H301 Toxic if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H331 Toxic if inhaled.	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.	H226	Flammable liquid and vapour.
H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H331 Toxic if inhaled.	H300	Fatal if swallowed.
H314 Causes severe skin burns and eye damage. H331 Toxic if inhaled.	H301	Toxic if swallowed.
H331 Toxic if inhaled.	H311	Toxic in contact with skin.
	H314	Causes severe skin burns and eye damage.
H370 Causes damage to organs.	H331	Toxic if inhaled.
	H370	Causes damage to organs.

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.

www.lobachemie.com 16/03/2019 11/11