CAS No: MSDS



## **MATERIAL SAFETY DATA SHEET (MSDS)**

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

## 1.1. Product identifier

Product form : Mixture

:

Product code : 6224A

## 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

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 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**

## **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
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**

First-aid measures after ingestion

4.2.

4.1. Description of first aid measures
--

First-aid measures general : Call a POISON CENTER or doctor/physician. Specific treatment (see ... on this

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 Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Specific measures (see ... on this label). Wash contaminated clothing before reuse. 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 or

Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Specific

treatment (see ... on this label). Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed Symptoms/injuries : Causes damage to organs.

Symptoms/injuries after inhalation : Harmful if inhaled. May cause drowsiness or dizziness. Symptoms/injuries after skin contact : Toxic in contact with skin. Causes skin irritation.

doctor/physician.

Symptoms/injuries after eye contact : Causes serious eve irritation.

: Toxic if swallowed. Symptoms/injuries after ingestion

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### 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 : 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 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.

#### 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, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in original container. Keep container tightly closed. Protect from moisture.

Store in a dry place.

## 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 properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Molecular mass : 91.15 g/mol Colour : Clear Colorless.

Odour : No data available

Odour threshold : No data available

pH : 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

Solubility : No data available

Relative density

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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: No data available

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#### 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. 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 toxicological effects

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

Potential adverse human health effects : 1

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

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#### 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 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 / IATA / 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

## 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 (ADN)

: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II

: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II

: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II

: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II

: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II

#### 14.3. Transport hazard class(es)

#### **ADR**

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



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## **IMDG**

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



## IATA

Transport hazard class(es) (IATA) : 3 (6.1, 8) Hazard labels (IATA) : 3, 6.1, 8



#### **ADN**

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



## **RID**

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

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## Special precautions for user

## - Overland transport

: FTC Classification code (ADR) : 274 Special provision (ADR) Limited quantities (ADR) : 1L Excepted quantities (ADR) : E2

: P001, IBC02 Packing instructions (ADR)

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 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

: TP2, TP27

Special provisions for carriage - Operation : S2, S22

Hazard identification number (Kemler No.)

(ADR)

Orange plates

368 3286

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

## - Transport by sea

: 274 Special provision (IMDG) Limited quantities (IMDG) : 1 L Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC99 Tank instructions (IMDG) : T11

: TP2, TP13, TP27 Tank special provisions (IMDG)

EmS-No. (Fire) : F-E : S-C EmS-No. (Spillage) : B Stowage category (IMDG) : SW2 Stowage and handling (IMDG) Segregation (IMDG) : SG5, SG8 MFAG-No : 131

- Air transport

: E2 PCA Excepted quantities (IATA) 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 : 5L CAO max net quantity (IATA)

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ERG code (IATA) : 3CP

- Inland waterway transport

Classification code (ADN) : FTC
Special provisions (ADN) : 274, 802
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T

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

Ventilation (ADN) : 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 : T11

instructions (RID)

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) 1, slightly hazardous to water (Classification according to

AwSV, Annex 1)

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12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

## Denmark

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-phrases:

r dir text of it-, i'i- and Lori-piii	4305.	
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	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
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	
H302	Harmful if swallowed	
H311	Toxic in contact with skin	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H331	Toxic if inhaled	
H370	Causes damage to organs	
R11	Highly flammable	
R21/22	Harmful in contact with skin and if swallowed	
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	
Xn	Harmful	

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

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