

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 : 5381E

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

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial  
For professional use only

##### 1.2.2. 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](mailto:info@lobachemie.com) - [www.lobachemie.com](http://www.lobachemie.com)

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

|  |      |
|--|------|
| Flammable liquids, Category 2                                | H225 |
| Corrosive to metals, Category 1                              | H290 |
| Acute toxicity (oral), Category 3                            | H301 |
| Acute toxicity (dermal), Category 3                          | H311 |
| Acute toxicity (inhalation:vapour), Category 3               | H331 |
| Skin corrosion/irritation, Category 1                        | H314 |
| Specific target organ toxicity — Single exposure, Category 1 | H370 |

Full text of H statements : see section 16

# POTASSIUM HYDROXIDE 1N SOLUTION IN METHANOL

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### 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) : H225 - Highly flammable liquid and vapour.  
H290 - May be corrosive to metals.  
H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled  
H314 - Causes severe skin burns and eye damage.  
H370 - Causes damage to organs.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 - Ground/bond container and receiving equipment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P302+P352 - IF ON SKIN: Wash with plenty of water/...  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

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| Name                           | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--------------------------------|--|---------|--|
| METHANOL AR/ACS                | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6<br>(EC Index-No.) 603-001-00-X   | 94 - 96 | Flam. Liq. 2, H225<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Oral), H301<br>STOT SE 1, H370 |
| POTASSIUM HYDROXIDE PELLETS AR | (CAS-No.) 1310-58-3<br>(EC-No.) 215-181-3<br>(EC Index-No.) 019-002-00-8 | 5 - 6   | Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>Acute Tox. 4 (Oral), H302   |

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. If experiencing respiratory symptoms: Call a poison center or a doctor.
- First-aid measures after skin contact : Wash skin with plenty of 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. 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/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 : Toxic 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 (CO<sub>2</sub>).
- 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 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 : Avoid contact with skin, eyes and clothing.

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### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean contaminated surfaces with an excess of water.

### 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 : Avoid contact with skin and eyes.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

### 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 safety glasses

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

Colour : Clear colourless.

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

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|                                  |                     |
|----------------------------------|---------------------|
| Boiling point                    | : No data available |
| Flash point                      | : 12 °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                       | : 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

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. Heat. Open flame.

### 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 : Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

|                   |                      |
|-------------------|----------------------|
| ATE CLP (oral)    | 100 mg/kg bodyweight |
| ATE CLP (dermal)  | 300 mg/kg bodyweight |
| ATE CLP (vapours) | 3 mg/l/4h            |

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|                                   |  |
|-----------------------------------|--|
| 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              | : Causes damage to organs.                 |
| STOT-repeated exposure            | : Not classified                           |
| Aspiration hazard                 | : 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

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

No additional information available

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR) : 3286

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|               |        |
|---------------|--------|
| 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 (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        |

### 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  |



#### 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  |



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### 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

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : FTC

Special provisions (ADR) : 274

Limited quantities (ADR) : 1I

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : 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 :



Tunnel restriction code (ADR) : D/E

EAC code : •3WE

APP code : A(fl)

#### - Transport by sea

Special provisions (IMDG) : 274

Packing instructions (IMDG) : P001

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|                                    |  |
|------------------------------------|--|
| 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   |
| Properties and observations (IMDG) | : Flammable, toxic, corrosive liquid. Toxic if swallowed, by skin contact or by inhalation. Causes burns to skin, eyes and mucous membranes. |

### - 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)          | : 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 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 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, unloading and handling (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

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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 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) 2, Significantly 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

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2; Met. Corr. 1>; 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

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of H- and EUH-statements:

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|                                  |  |
|----------------------------------|--|
| Acute Tox. 3 (Dermal)            | Acute toxicity (dermal), Category 3                          |
| Acute Tox. 3 (Inhalation)        | Acute toxicity (inhal.), Category 3                          |
| Acute Tox. 3 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 3                |
| Acute Tox. 3 (Oral)              | Acute toxicity (oral), Category 3                            |
| Acute Tox. 4 (Oral)              | Acute toxicity (oral), Category 4                            |
| Eye Dam. 1                       | Serious eye damage/eye irritation, Category 1                |
| Flam. Liq. 2                     | Flammable liquids, Category 2                                |
| Met. Corr. 1                     | Corrosive to metals, Category 1                              |
| Skin Corr. 1                     | Skin corrosion/irritation, Category 1                        |
| Skin Corr. 1A                    | Skin corrosion/irritation, Category 1A                       |
| STOT SE 1                        | Specific target organ toxicity — Single exposure, Category 1 |
| H225                             | Highly flammable liquid and vapour.                          |
| H290                             | May be corrosive to metals.                                  |
| H301                             | Toxic if swallowed.  |
| H302                             | Harmful if swallowed.  |
| H311                             | Toxic in contact with skin.                                  |
| H314                             | Causes severe skin burns and eye damage.                     |
| H318                             | Causes serious eye damage.                                   |
| 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.*