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 : 6306B

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 - 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
Acute toxicity (oral), Category 3 : H301
Acute toxicity (dermal), Category 3 : H311
Acute toxicity (inhalation:dust,mist), Category 3 : H331

Full text of H statements : see section 16

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, GHS06

Signal word (CLP): Danger

Hazard statements (CLP):
- H225 - Highly flammable liquid and vapour.
- H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

Precautionary statements (CLP):
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS-No.) 7732-18-5 (EC-No.) 231-791-2</td>
<td>78</td>
<td>Not classified</td>
</tr>
<tr>
<td>Methanol</td>
<td>(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X</td>
<td>21.5</td>
<td>Flam. Liq. 2, H225 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 STOT SE 1, H370</td>
</tr>
<tr>
<td>THYMOL BLUE INDICATOR AR</td>
<td>(CAS-No.) 76-61-9</td>
<td>0.04</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>(CAS-No.) 1310-73-2</td>
<td>0.0035</td>
<td>Skin Corr. 1A, H314</td>
</tr>
</tbody>
</table>

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.
- **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**: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 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 (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

- **For non-emergency personnel**
  - **Emergency procedures**: Avoid contact with skin, eyes and clothing.

- **For emergency responders**
  - **No additional information available**

#### 6.2. Environmental precautions

- **Avoid release to the environment**

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

- **Methods for cleaning up**: Clear up rapidly by scoop or vacuum.

#### 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**: Brown colored solution.
- **Odour**: Characteristic odour.
- **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**: 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
- **Density**: 0.979 g/cm³
- **Solubility**: Water: Soluble in water
- **Log Pow**: No data available
- **Viscosity, kinematic**: No data available
THYMOL BLUE INDICATOR SOLUTION Extra Pure
Safety Data Sheet

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

<table>
<thead>
<tr>
<th>ATE CLP (oral)</th>
<th>100 mg/kg bodyweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE CLP (dermal)</td>
<td>300 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE CLP (dust,mist)</td>
<td>0.5 mg/l/4h</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Not classified
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

Aspiration hazard: Not classified
Potential adverse human health effects and symptoms: Harmful if swallowed. Harmful 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

SECTION 13: Disposal considerations

13.1. Waste treatment methods
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 / IATA / ADN

14.1. UN number
UN-No. (ADR) : 1230
UN-No. (IMDG) : 1230
UN-No. (IATA) : 1230
UN-No. (ADN) : 1230
UN-No. (RID) : 1230

14.2. UN proper shipping name
Proper Shipping Name (ADR) : METHANOL
Proper Shipping Name (IMDG) : METHANOL
Proper Shipping Name (IATA) : Methanol
Proper Shipping Name (ADN) : METHANOL
Proper Shipping Name (RID) : METHANOL
Transport document description (ADR) : UN 1230 METHANOL, 3 (6.1), II, (D/E)
Transport document description (IMDG) : UN 1230 METHANOL, 3 (6.1), II (12°C c.c.)
Transport document description (IATA) : UN 1230 Methanol, 3 (6.1), II
### 14.3. Transport hazard class(es)

<table>
<thead>
<tr>
<th></th>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
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<td>UN 1230 METHANOL, 3 (6.1), II</td>
<td>UN 1230 METHANOL, 3 (6.1), II</td>
<td>UN 1230 METHANOL, 3 (6.1), II</td>
<td>UN 1230 METHANOL, 3 (6.1), II</td>
<td>UN 1230 METHANOL, 3 (6.1), II</td>
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<tr>
<td>Transport hazard class(es) (ADR)</td>
<td>3 (6.1)</td>
<td>3 (6.1)</td>
<td>3 (6.1)</td>
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<td>3 (6.1)</td>
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<tr>
<td>Danger labels (ADR)</td>
<td>3, 6.1</td>
<td>3, 6.1</td>
<td>3, 6.1</td>
<td>3, 6.1</td>
<td>3, 6.1</td>
</tr>
</tbody>
</table>

**Danger labels:**
- Flammable (3)
- Toxic gas (6.1)

### 14.4. Packing group

<table>
<thead>
<tr>
<th></th>
<th>ADR (II)</th>
<th>IMDG (II)</th>
<th>IATA (II)</th>
<th>ADN (II)</th>
<th>RID (II)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group (ADR)</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>Packing group (IMDG)</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>Packing group (IATA)</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
</tbody>
</table>

**Transport document description (RID):**
UN 1230 METHANOL, 3 (6.1), II

**Transport hazard class(es) (RID):**
3 (6.1)

**Danger labels (RID):**
- Flammable (3)
- Toxic gas (6.1)
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) : FT1
  Special provisions (ADR) : 279
  Limited quantities (ADR) : 1l
  Excepted quantities (ADR) : E2
  Packing instructions (ADR) : P001, IBC02
  Mixed packing provisions (ADR) : MP19
  Portable tank and bulk container instructions (ADR) : T7
  Portable tank and bulk container special provisions (ADR) : TP2
  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, S19
  Hazard identification number (Kemler No.) : 336
  Orange plates : 336
  Tunnel restriction code (ADR) : D/E
  EAC code : +2WE
  APP code : A(fl)

- Transport by sea
  Special provisions (IMDG) : 279
  Limited quantities (IMDG) : 1 L
  Excepted quantities (IMDG) : E2
  Packing instructions (IMDG) : P001
  IBC packing instructions (IMDG) : IBC02
  Tank instructions (IMDG) : T7
  Tank special provisions (IMDG) : TP2
  EmS-No. (Fire) : F-E
  EmS-No. (Spillage) : S-D
  Stowage category (IMDG) : B
  Stowage and handling (IMDG) : SW2
  Flash point (IMDG) : 12°C c.c.
  Properties and observations (IMDG) : Colourless, volatile liquid. Flashpoint: 12°C c.c. Explosive limits: 6% to 36.5%.
Calculable with water. Toxic if swallowed; may cause blindness. Avoid skin contact.

- Air transport
  PCA Excepted quantities (IATA) : E2
THYMOL BLUE INDICATOR SOLUTION Extra Pure
Safety Data Sheet

| PCA Limited quantities (IATA)       | Y341 |
| PCA limited quantity max net quantity (IATA) | 1L   |
| PCA packing instructions (IATA)     | 352  |
| PCA max net quantity (IATA)         | 1L   |
| CAO packing instructions (IATA)     | 364  |
| CAO max net quantity (IATA)         | 60L  |
| Special provisions (IATA)           | A113 |
| ERG code (IATA)                     | 3L   |

- **Inland waterway transport**
  - Classification code (ADN) : FT1
  - Special provisions (ADN) : 279, 802
  - Limited quantities (ADN) : 1L
  - 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) : FT1
  - Special provisions (RID) : 279
  - 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) : T7
  - Portable tank and bulk container special provisions (RID) : TP2
  - 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) : 336

**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)

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>; 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:

<table>
<thead>
<tr>
<th>Acute Tox. 3 (Dermal)</th>
<th>Acute toxicity (dermal), Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3 (Inhalation)</td>
<td>Acute toxicity (inhal.), Category 3</td>
</tr>
<tr>
<td>Acute Tox. 3 (Inhalation:dust,mist)</td>
<td>Acute toxicity (inhalation:dust,mist) Category 3</td>
</tr>
<tr>
<td>Acute Tox. 3 (Oral)</td>
<td>Acute toxicity (oral), Category 3</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids, Category 2</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation, Category 1A</td>
</tr>
<tr>
<td>STOT SE 1</td>
<td>Specific target organ toxicity — Single exposure, Category 1</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour.</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed.</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled.</td>
</tr>
<tr>
<td>H370</td>
<td>Causes damage to organs.</td>
</tr>
</tbody>
</table>
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.