# THYMOL BLUE INDICATOR SOLUTION

**MSDS CAS: 000076-61-9**

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

- **Trade name**: THYMOL BLUE INDICATOR SOLUTION
- **Product code**: 6306B

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

**Use**: Industrial. For professional use only.

### 1.3. Details of the supplier of the safety data sheet

**Company identification**: LOBA CHEMIE PVT.LTD.
107 Wode House Road, Jehangir Villa, Colaba
400005  Mumbai  INDIA
Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com
Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

### 1.4. Emergency telephone number

**Phone nr**: + 91 22 6663 6663 (9:00am - 6:00 pm) [Office hours]

## 2. Hazards identification -DSD

### 2.1. Classification of the substance or mixture

**Classification EC 67/548 or EC 1999/45**

- **Classification**: T; R23/24/25-R39/23/24/25

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

- **Health hazards**: Specific Target Organ Toxicity - Single exposure - Category 1 - Danger (CLP: STOT SE 1) H370
  - Acute toxicity, Inhalation - Category 3 - Danger (CLP: Acute Tox. 3) H331
  - Acute toxicity, Oral - Category 4 - Warning (CLP: Acute Tox. 4) H302
  - Acute toxicity, dermal - Category 4 - Warning (CLP: Acute Tox. 4) H312

### 2.2. Label elements

**Labelling EC 67/548 or EC 1999/45**
2. Hazards identification -DSD (continued)

Symbol(s) : T : Toxic

R Phrase(s) : R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25 : Toxic: danger of very serious irreversible effects through inhalation,
in contact with skin and if swallowed.

S Phrase(s) : S4 : Keep away from living quarters.
S24 : Avoid contact with skin.
S28 : After contact with skin, wash immediately with
S35 : This material and its container must be disposed of in a safe way.
S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
S38 : In case of insufficient ventilation, wear suitable respiratory equipment.
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
S59 : Refer to manufacturer/supplier for information on recovery/recycling.

Contains : Water - Methanol - THYMOL BLUE INDICATOR AR - Hidróxido de sodio

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms

Signal words : Danger

Hazard statements : H331 : Toxic if inhaled.
H302 : Harmful if swallowed.
H312 : Harmful in contact with skin.
H370 : Causes damage to organ.

Precautionary statements

• Prevention : P280: Wear protective gloves, protective clothing, eye protection, face protection.
P271: Use only outdoors or in a well-ventilated area.
P260: Do not breathe dust, fume, gas, mist, vapours, spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

• Response : P307+P311: IF EXPOSED: Call a POISON CENTER or doctor.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P363: Wash contaminated clothing before reuse.

• Storage : P403+P233: Store in well-ventilated place. Keep container tightly closed.
P405: Store locked up.
2. Hazards identification -DSD (continued)

- Disposal considerations: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Contains: Water - Methanol - THYMOL BLUE INDICATOR AR - Hidróxido de sodio

2.3. Other hazards

Other hazards: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance / Preparation</th>
<th>Hazardous component(s)</th>
<th>Contents</th>
<th>CAS No</th>
<th>EC No</th>
<th>Annex No</th>
<th>REACH Ref.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>THYMOL BLUE INDICATOR AR</td>
<td>&lt; 0.1 %</td>
<td>76-61-9</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>Not classified (DSD/DPD)</td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>&gt; 15 &lt; 25 %</td>
<td>67-56-1</td>
<td>200-659-6</td>
<td>603-001-00-X</td>
<td>-----</td>
<td>F; R11; T; R23/24/25-39/23/24/25 Flammable 2 H225 Acute Tox. 3 (skin) H311 Acute Tox. 3 (inal) H331 STOT SE 1 H370</td>
<td></td>
</tr>
<tr>
<td>Hidróxido de sodio</td>
<td>&lt; 0.01 %</td>
<td>1310-73-2</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>C; R35 Skin Corr. 1A H314</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>&gt; 75 &lt; 99 %</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>-----</td>
<td>-----</td>
<td>Not classified (DSD/DPD)</td>
<td></td>
</tr>
</tbody>
</table>

4. First aid measures

4.1. Description of first aid measures

- Inhalation: Specific treatment (see on this label). Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.
- Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. If skin irritation occurs: Specific treatment (see on this label).
- Eye contact: Obtain medical attention if pain, blinking or redness persist. Get medical advice. If eye irritation persists: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
- Ingestion: Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed
4. First aid measures (continued)

   Symptoms relating to use: Danger of serious damage to health by prolonged exposure through inhalation. Causes damage to organ. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Swallowing a small quantity of this material will result in serious health hazard.

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

   General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a POISON CENTER or doctor. Specific treatment (see on this label).

5. Fire-fighting measures

5.1. Extinguishing media


   Unsuitable extinguishing media: Do not use a heavy water stream.

   Surrounding fires: Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

   Hazardous combustion products: Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

   Protection against fire: Do not enter fire area without proper protective equipment, including respiratory protection.

   Special procedures: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

   For emergency responders: Equip cleanup crew with proper protection. Ventilate area. Avoid breathing dust, fume, gas, mist, vapours, spray.

   Technical measures: Use special care to avoid static electric charges.

   Special precautions: Remove ignition sources. No naked lights. No smoking.

   For non-emergency personnel: Evacuate unnecessary personnel.
6. Accidental release measures (continued)

6.2. Environmental precautions

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling: Handle empty containers with care because residual vapours are flammable. Avoid breathing dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray.

Technical protective measures: Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. Use explosion-proof electrical, ventilating, lighting, ..., equipment.

Special precautions: No naked lights. No smoking. Avoid breathing dust, fume, gas, mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Keep container tightly closed. Ground/bond container and receiving equipment.


7.3. Specific end use(s)

Specific end use(s): None.
8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection

Personal protection: Avoid all unnecessary exposure.

• Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

• Hand protection: Wear protective gloves.

• Skin protection: Wear suitable protective clothing.

• Eye protection: Chemical goggles or safety glasses.

• Others: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Methanol</td>
<td>200</td>
<td>250</td>
<td>(260 Skin.)</td>
<td>(200 Skin.)</td>
<td>200</td>
<td>250</td>
<td>270</td>
<td>330</td>
<td>200</td>
<td>250</td>
<td>350</td>
<td>300</td>
<td>200</td>
<td>266</td>
<td>300</td>
<td>333</td>
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</table>

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C: Liquid.

Colour: Colorless

Odour: Characteristic.

Odour threshold: No data available.
9. Physical and chemical properties (continued)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
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<tr>
<td>Melting point [°C]</td>
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</tr>
<tr>
<td>Decomposition point [°C]</td>
<td>N/A</td>
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<tr>
<td>Critical temperature [°C]</td>
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</tr>
<tr>
<td>Auto-ignition temperature [°C]</td>
<td>No data available.</td>
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<tr>
<td>Flammability (solid, gas)</td>
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<tr>
<td>Flash point [°C]</td>
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<tr>
<td>Boiling point [°C]</td>
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<tr>
<td>Initial boiling point [°C]</td>
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<tr>
<td>Final boiling point [°C]</td>
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<tr>
<td>Evaporation rate</td>
<td>N/A</td>
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<tr>
<td>Vapour pressure [20°C]</td>
<td>No data available.</td>
</tr>
<tr>
<td>Vapour pressure mm/Hg</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapour density</td>
<td>N/A</td>
</tr>
<tr>
<td>Density [g/cm3]</td>
<td>0.979</td>
</tr>
<tr>
<td>Relative density, gas (air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Relative density, liquid (water=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in water [% weight]</td>
<td>Soluble in water</td>
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<tr>
<td>Solubility in water</td>
<td>No data available.</td>
</tr>
<tr>
<td>Log Pow octanol / water at 20°C</td>
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<tr>
<td>Solubility</td>
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</tr>
<tr>
<td>Viscosity at 40°C [mm2/s]</td>
<td>No data available.</td>
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</tbody>
</table>

9.2. Other information

Explosive properties: N/A
Explosion limits - upper [%]: No data available.
Explosion limits - lower [%]: No data available.
Oxidising properties: No data available.

10. Stability and reactivity

10.1. Reactivity

Reactivity: Not established.

10.2. Chemical stability

Chemical stability: Stable under recommended storage conditions.
10. Stability and reactivity (continued)

10.3. Possibility of hazardous reactions
Hazardous reactions : Not established.

10.4. Conditions to avoid

10.5. Incompatible materials
Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

11. Toxicological information

11.1. Information on toxicological effects
Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

Acute toxicity
• Inhalation : Toxic if inhaled.
• Dermal : Harmful in contact with skin.
• Ingestion : Harmful if swallowed.
Corrosion : Based on available data, the classification criteria are not met.
Irritation : Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

Sensitization : Based on available data, the classification criteria are not met.
Mutagenicity : Based on available data, the classification criteria are not met.
Carcinogenicity : Based on available data, the classification criteria are not met.
Toxic for reproduction : Based on available data, the classification criteria are not met.
STOT-single exposure : Causes damage to organ.
STOT-repeated exposure : Based on available data, the classification criteria are not met.
Aspiration hazard : Based on available data, the classification criteria are not met.
12. Ecological information

12.1. Toxicity

Toxicity information: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

12.2. Persistence - degradability

Persistence - degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Not established.

12.4. Mobility in soil

Mobility in soil: Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions: Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions: Handle empty containers with care because residual vapours are flammable. Hazardous waste due to toxicity.

14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name: METHANOL
UN N°: 1230
14. Transport information (continued)

<table>
<thead>
<tr>
<th>H.I. nr</th>
<th>336</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR - Class</td>
<td>3</td>
</tr>
</tbody>
</table>

**ADR - Classification code**: FT1

**ADR - Group**: II

**ADR - Packing instructions**: P001

**ADR - Limited Quantity**: 1 L

**ADR - Tunnel code**: D/E: Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

- **Proper shipping name**: METHANOL
- **UN N°**: 1230
- **IMO-IMDG - Class or division**: 3 : Flammable liquid. (6.1 : Toxic substances.)
- **IMO-IMDG - Packing group**: II
- **IMO-IMDG - Packing instructions**: P001
- **IMO-IMDG - Limited quantities**: 1 L
- **IMO-IMDG - Marine pollution**: No
- **EMS-Nr**: F-E S-D

14.3. Air transport (ICAO-IATA) [English only]

- **Proper shipping name**: METHANOL
- **UN N°**: 1230
- **IATA - Class or division**: 3 : Flammable liquid. (6.1 : Toxic substances.)
- **IATA - Packing group**: II
- **IATA - Passenger and Cargo Aircraft**: ALLOWED
  - **Passenger and Cargo - Packing instruction**: 352
  - **Passenger and Cargo - Maximum Quantity/Packing**: 1 L
14. Transport information (continued)

IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 364
- Cargo only - Maximum Quantity/Packing : 60 L
IATA - Limited Quantites : 1 L
ERG-Nr : 3 L

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.
REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

Revision : Revision - See :
Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.
\(vPvB\): very persistent and very bioaccumulative

List of relevant R phrases (heading 3) : R11 : Highly flammable.
R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.
R35 : Causes severe burns.
R39/23/24/25 : Toxic : danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

List of full text of H-statements in section 3 : 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 organ.

Further information : None.

In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008
THYMOL BLUE INDICATOR SOLUTION
MSDS CAS: 000076-61-9

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