

MATERIAL SAFETY DATA SHEET

THYMOL BLUE INDICATOR SOLUTION MSDS CAS :

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name : THYMOL BLUE INDICATOR SOLUTION

CAS#:

C.I. No.: Not available.

Synonym : Not available.

Chemical Name: Not available.

Chemical Formula: C₂₇H₃₀O₅S

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
THYMOL BLUE INDICATOR AR	76-61-9	< 0.1 %
Methanol	67-56-1	> 15 < 25 %
Hidróxido de sodio	1310-73-2	< 0.01 %
Water	7732-18-5	> 75 < 99 %

Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 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

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.

Section 4: First Aid Measures

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.

Section 4: First Aid Measures (Continued)

Most important symptoms and effects, both acute and delayed

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.

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).

Section 5: Fire and Explosion Data

Extinguishing media

Extinguishing media

Suitable extinguishing media : Foam, Dry powder, Carbon dioxide, Water spray, Sand.

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

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

Special hazards arising from the substance or mixture

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

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.

Section 6: Accidental Release Measures

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.

Environmental precautions

Environmental precautions

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

Methods and materials 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.

Section 7: Handling and Storage

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.

Conditions for safe storage, including any incompatibilities

Storage

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

Storage - away from

- : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

Specific end uses

Specific end use(s)

- : None.

Section 8: Exposure Controls/Personal Protection

Personal protection

• Respiratory protection

- : Avoid all unnecessary exposure.
- : 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.

Control parameters

Occupational Exposure Limits

- : No data available.

Occupational Exposure Limits

- : Methanol : OEL (UK)-LTEL [ppm] : 200
- Methanol : OEL (UK)-STEL [ppm] : 250
- Methanol : ILV (EU) - 8 H - [mg/m³] : (260 Skin.)
- Methanol : ILV (EU) - 8 H - [ppm] : (200 Skin.)
- Methanol : HTP-värden - 8 H - [ppm] : 200
- Methanol : HTP-värden - 15min - [ppm] : 250
- Methanol : HTP-värden - 8 H - [mg/m³] : 270
- Methanol : HTP-värden - 15min - [mg/m³] : 330
- Methanol : NGV - [ppm] : 200
- Methanol : NGV - [mg/m³] : 250
- Methanol : KTV - [ppm] : 250
- Methanol : KTV - [mg/m³] : 350
- Methanol : VLA-ED [ppm] : 200
- Methanol : VLA-ED [mg/m³] : 266
- Methanol : VLA-EC [ppm] : 250
- Methanol : VLA-EC [mg/m³] : 333

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state at 20 °C

: Liquid

Colour

: Colourless

Odour

: Characteristic

Odour threshold

: No data available.

pH value

: No data available.

Section 9: Physical and Chemical Properties(Continued)

Melting point [°C]	: No data available.
Decomposition point [°C]	: No data available.
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: N/A Flammable liquid and vapour.
Flash point [°C]	: No data available.
Boiling point [°C]	: N/A
Initial boiling point [°C]	: No data available.
Final boiling point [°C]	: No data available.
Evaporation rate	: N/A
Vapour pressure [20°C]	: No data available.
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm ³]	: 0,979
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Soluble in water.
Solubility in water	: No data available.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm ² /s]	: No data available.
Molecular Weight	: 466.60

Other information

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

Section 10: Stability and Reactivity Data

Reactivity

Reactivity : Not established.

Section 10: Stability and Reactivity Data (Continued)

Chemical stability

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactions : Not established.

Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures. Open flame. Overheating.
Heat. Sparks.

Incompatible materials

Materials to avoid : Strong acids. Strong bases.

Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.
May release flammable gases.

Section 11: Toxicological Information

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

Mutagenicity

Carcinogenicity

Toxic for reproduction

STOT-single exposure

- : Based on available data, the classification criteria are not met.
- : Based on available data, the classification criteria are not met.
- : Based on available data, the classification criteria are not met.
- : Based on available data, the classification criteria are not met.
- : Causes damage to organ.

Section 11: Toxicological Information(Continued)

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.

Section 12: Ecological Information

Toxicity

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

Persistence – degradability

Persistence - degradability : Biodegradable.

Bio accumulative potential

Bio accumulative potential : Not established.

Mobility in soil

Mobility in soil : Not established.

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.

Other adverse effects

Environmental precautions : Avoid release to the environment.

Section 13: Disposal Considerations

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.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name	: METHANOL
UN N°	: 1230
H.I. nr	: 336
ADR – Class	: 3 : Flammable liquid. 6.1 : Toxic substances.
ADR – Group	: II

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

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

Section 15: Other Regulatory Information

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

Safety, health and environmental : Ensure all national/local regulations are observed.
regulations/legislation specific for
the substance or mixture

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.

Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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