

Regd Office: Unit no 12, 1st Floor,  
Neminath Industrial Estate No.6,  
Navghar, Vasai (East), Palghar - 410210.  
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990  
Email: sales@oxfordlabchem.com /  
info@oxfordlabchem.com  
Web: www.oxfordlabchem.com

## **MATERIAL SAFETY DATA SHEET**

### **META-TOLUIDINE 99% (For Synthesis) (3-Amino Toluene) MSDS CAS : 108-44-1**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name : META-TOLUIDINE**

**CAS#: 108-44-1**

**C.I. No.: Not available.**

**Synonym : Not available.**

**Chemical Name: Not available.**

**Chemical Formula: C<sub>7</sub>H<sub>9</sub>N**

**Brand: OXFORD**

##### **Details Of The Supplier Of The Safety Data Sheet:**

**Company identification: OXFORD LAB FINE CHEM LLP  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
Mumbai, Maharashtra, INDIA.  
Tel: 91-250-2390989  
Tel/Fax: 91-250-2390032**

#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

Name	CAS #	% by Weight
META-TOLUIDINE	108-44-1	100%

## Section 3: Hazards Identification

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1999/45

**Classification** : T; R23/24/25  
R33  
N; R50

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

**Health hazards** : Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331  
Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301  
Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3) H311

**Environmental hazards** : Hazardous to the aquatic environment - Acute hazard - Category 1 – Warning (CLP : Aquatic Acute 1) H400

**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**

Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Specific treatment (see on this label). 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. Wash contaminated clothing before reuse. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label).

#### **Eye contact**

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

#### **Ingestion :**

Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

## Section 4: First Aid Measures (Continued)

### Most important symptoms and effects, both acute and delayed

**Symptoms relating to use** : Repeated exposure to this material can result in absorption through skin causing significant health hazard.  
Danger of serious damage to health by prolonged exposure through inhalation.  
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).

## 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.

**For non-emergency personnel** : Evacuate unnecessary personnel.

## Section 6: Accidental Release Measures (Continued)

### Environmental precautions

#### Environmental precautions

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

### 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

: Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

#### Technical protective measures

- : Provide good ventilation in process area to prevent formation of Vapor.

### Conditions for safe storage, including any incompatibilities

#### Storage

- : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

#### Storage - away from

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

#### 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.

#### • Hand protection

- : Wear protective gloves.

#### • Eye protection

- : Chemical goggles or safety glasses.

#### • Others

- : When using, do not eat, drink or smoke.

## Section 8: Exposure Controls/Personal Protection (Continued)

### Control parameters

Occupational Exposure Limits : No data available.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid
Color	: Clear Colourless to brownish
Odor	: N/A
Odor threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: No data available.
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 482°C
Flammability (solid, gas)	: N/A
Flash point [°C]	: 86 °C
Boiling point [°C]	: 203 - 204°C
Initial boiling point [°C]	: 203°C
Final boiling point [°C]	: 204°C
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: 4,29
Density [g/cm <sup>3</sup> ]	: 0,999
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: N/A
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A
Molecular Weight	: 107.16

## Section 9: Physical and Chemical Properties (Continued)

### Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: 6,60%
Explosion limits - lower [%]	: 1,10%
Oxidizing properties	: No data available.

## Section 10: Stability and Reactivity Data

### Reactivity

Reactivity : Not established.

### 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, Moisture

### Incompatible materials

Materials to avoid : Strong acids. Strong bases.

### Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

## Section 11: Toxicological Information

### Information on toxicological effects

#### Acute toxicity

• Inhalation	: Toxic if inhaled.
• Dermal	: Toxic in contact with skin.
• Ingestion	: Toxic if swallowed.
Corrosion	: Based on available data, the classification criteria are not met.

## Section 11: Toxicological Information

<b>Irritation</b>	: Causes serious eye irritation.
<b>Sensitization</b>	: Based on available data, the classification criteria are not met.
<b>Mutagenicity</b>	: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	: Based on available data, the classification criteria are not met.
<b>Toxic for reproduction</b>	: Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	: Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	: Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	: Based on available data, the classification criteria are not met.

## Section 12: Ecological Information

### Toxicity

**Toxicity information** : Very toxic to aquatic life.

### 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 :** Hazardous waste due to toxicity.

## Section 14: Transport Information

### Land transport (ADR-RID)

Proper shipping name	: TOLUIDINES, LIQUID
UN N°	: 1708
H.I. nr	: 60
ADR - Class	: 6.1
Labelling – Transport	: 6.1 : Toxic substances.
ADR - Group	: II

### Sea transport (IMDG) [English only]

Proper shipping name	: TOLUIDINES, LIQUID
UN N°	: 1708
IMO-IMDG - Class or division	: 6.1 : Toxic substances.
IMO-IMDG - Packing group	: II

### Air transport (ICAO-IATA) [English only]

Proper shipping name	: TOLUIDINES, LIQUID
UN N°	: 1708
IATA - Class or division	: 6.1 : Toxic substances.
IATA - Packing group	: II

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## **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 Authorization - 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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The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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