OXFORD LAB FINE CHEM LLP

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

Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

ORTHO-TOLIDINE REAGENT

(Reagent For Chlorine Estimation)

MSDS CAS : 119-93-7

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name : ORTHO-TOLIDINE REAGENT
CAS#: 119-93-7
C.I. No.: Not available.
Synonym : Not available.
Chemical Name: Not available.
Chemical Formula: $[-C_6H_3(CH_3)-_4-NH_2]_2$

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
ORTHO-TOLIDINE REAGENT	119-93-7	100%

Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1999/45

Classification : **Carc. Cat. 2; R45**
Xi; R36/37/38

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

Health hazards : **Carcinogenicity - Category 1A - Danger (CLP : Carc. 1A) H350**
Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

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
Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.

Skin contact
Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor.

Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Get medical advice. If eye irritation persists :

Ingestion :
Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms relating to use : **May cause cancer.**
Causes severe skin burns and eye damage.
Causes serious eye irritation. May cause respiratory irritation.

Section 4: First Aid Measures (Continued)

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. Thermal decomposition generates : Corrosive vapours.**

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.**

Environmental precautions

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

Methods and materials for contain ent and cleaning up

Clean up methods : **On land, sweep or shovel into suitable containers. Minimize Generation of dust. Store away from other materials.**

Section 7: Handling and Storage

Precautions for safe handling

Handling : Use only outdoors or in a well-ventilated area. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray. Obtain special instructions before use.

Technical protective measures : Provide good ventilation in process area to prevent formation of Vapor.

Special precautions : Avoid breathing dust, fume, gas, mist, vapours, spray.

Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Storage regulation : Comply with applicable regulations.

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 : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear approved mask.
- **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.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state at 20 °C : Solid

Section 9: Physical and Chemical Properties (Continued)

Color	**: Colourless**
Odor	**: Characteristic.**
Odor threshold	**: No data available.**
pH value	**: Not applicable.**
Melting point [°C]	**: No data available.**
Decomposition point [°C]	**: N/A**
Critical temperature [°C]	**: Not applicable.**
Auto-ignition temperature [°C]	**: N/A**
Flammability (solid, gas)	**: N/A**
Flash point [°C]	**: No data available.**
Boiling point [°C]	**: Not applicable.**
Initial boiling point [°C]	**: Not applicable.**
Final boiling point [°C]	**: N/A**
Evaporation rate	**: N/A**
Vapour pressure [20°C]	**: N/A**
Vapour pressure mm/Hg	**: N/A**
Vapour density	**: N/A**
Density [g/cm3]	**: 1,05**
Relative density, gas (air=1)	**: N/A**
Relative density, liquid (water=1)	**: N/A**
Solubility in water [% weight]	**: N/A**
Solubility in water	**: No data available.**
Log Pow octanol / water at 20°C	**: N/A.**
Solubility	**: No data available.**
Viscosity at 40°C [mm2/s]	**: N/A**
Molecular Weight	**: 212.29**

<u>Other information</u>

Explosive properties	**: N/A**
Explosion limits - upper [%]	**: No data available.**
Explosion limits - lower [%]	**: No data available.**
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.
Thermal decomposition generates: Corrosive vapours.

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** : **Based on available data, the classification criteria are not met.**
- **Dermal** : **Based on available data, the classification criteria are not met.**
- **Ingestion** : **Based on available data, the classification criteria are not met.**

Corrosion : **Causes severe skin burns and eye damage.**

Irritation : **Causes serious eye 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 : **May cause cancer.**

Toxic for reproduction : **Based on available data, the classification criteria are not met.**

Section 11: Toxicological Information (CONTINUED)

STOT-single exposure : **Based on available data, the classification criteria are not met.**
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.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name	**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.**
UN N°	**: 3082**
H.I. nr	**: 90**
ADR - Class	**: 9**
Labelling - Transport	**: 9 : Miscellaneous dangerous substances and articles.**
ADR - Group	**: III**

Sea transport (IMDG) [English only]

Proper shipping name	**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.**
UN N°	**: 3082**
IMO-IMDG - Class or division	**: 9 : Miscellaneous dangerous substances and articles.**
IMO-IMDG - Packing group	**: III**

Air transport (ICAO-IATA) [English only]

Proper shipping name	**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.**
UN N°	**: 3082**
IATA - Class or division	**: 9 : Miscellaneous dangerous substances and articles.**
IATA - Packing group	**: III**

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.**

Section 15: Other Regulatory Information (Continued)

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:

****

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.

Oxford Lab Fine Chem LLP makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Oxford Lab Fine Chem LLP will not be responsible for damages resulting from use of or reliance upon this information.