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MATERIAL SAFETY DATA SHEET

ORTHO-TOLIDINE 98% AR

(3,3'-Dimethyl Benzidine) MSDS CAS: 119-93-7

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: ORTHO-TOLIDINE 98% AR

CAS#: 119-93-7

Synonym: 3,3'-Dimethylbenzidine; 4,4'-Bianisidine

Chemical Name: Not available. Chemical Formula: C₁₄H₁₆N₂

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 98% AR	119-93-7	100%

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Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1999/45

Classification : Carc. Cat. 2: R45

C; R34 Xi; R37

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

Health hazards : Carcinogenicity - Category 1B - Danger (CLP : Carc. 1B) H350

Specific Target Organ Toxicity - Single exposure - Respiratory tract

irritation -

Category 3 - Warning (CLP: STOT SE 3) H335

Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314

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

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

Skin contact

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

Eve 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.

Ingestion:

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

Most important symptoms and effects, both acute and delayed

Symptoms relating to use respiratory irritation.

: May cause cancer. Causes severe skin burns and eye damage. May cause

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).

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Section 5: Fire and Explosion Data

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.

Special precautions : Do not allow water (or moist air) contact with this material.

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. Obtain special instructions before use. Do not breathe dust, fume, gas, mist, vapours, spray.

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

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Section 7: Handling and Storage (Continued)

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
Eye protection
Wear suitable protective clothing.
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

Color : White to light brown

Odor : Amine like

Odor threshold : No data available. pH value : Not applicable.

Melting point [$^{\circ}$ C] : 128 - 131 $^{\circ}$ C.

Decomposition point [°C] : N/A
Critical temperature [°C] : N/A
Auto-ignition temperature [°C] : 4800C

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Section 9: Physical and Chemical Properties (Continued)

Flammability (solid, gas) : N/A

Flash point [°C] : No data available.

Boiling point [°C] : 100°C Initial boiling point [°C] : 200 °C Final boiling point [°C] : N/A Evaporation rate : N/A Vapour pressure [20°C] : N/A

Vapour pressure mm/Hg : 0.2 mbar @ 200C

Vapour density : N/A
Density [g/cm3] : 3,7
Relative density, gas (air=1) : 1004
Relative density, liquid (water=1) : N/A
Solubility in water [% weight] : N/A

Solubility in water : Slightly soluble in

Log Pow octanol / water at 20°C : N/A.

Solubility : No data available.

Viscosity at 40°C [mm2/s] : N/A Molecular Weight : 212.30

Other information

Explosive properties : N/A
Explosion limits - upper [%] : 7.50%
Explosion limits - lower [%] : 1.50%

Oxidizing properties : No data available.

Section 10: Stability and Reactivity Data

Reactivity: Not established.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous reactions: Not established.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures, Moisture

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Section 10: Stability and Reactivity Data (Continued)

Incompatible materials

Materials to avoid: Strong acids. Strong bases.

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapours.

Section 11: Toxicological Information

Information on toxicological effects

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 : 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

STOT-single exposure

STOT-repeated exposure

Aspiration hazard

Sased 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.

Section 12: Ecological Information

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

Persistence - degradability: Biodegradable.

Bio accumulative potential: Not established.

Mobility in soil: Not established.

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Section 12: Ecological Information (Continued)

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° : 3077 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° : 3077

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° : 3077

IATA - Class or division: 9: Miscellaneous dangerous substances and articles.

IATA - Packing group : III

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Section 15: Other Regulatory Information

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 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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