

MATERIAL SAFETY DATA SHEET

METHYL RED INDICATOR SOLUTION

MSDS CAS : -

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name : METHYL RED INDICATOR SOLUTION

CAS# : -

C.I. No. : Not available.

Synonym : Not available.

Chemical Name: Not available.

Chemical Formula: Not applicable.

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
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Methyl red	493-52-7	1
Water	7732-18-5	99

Toxicological Data on Ingredients : Methyl red LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects:

Slightly hazardous in case of ingestion. Non-corrosive for skin. Non-sensitizer for skin. Non-irritating to the eyes. Nonhazardous in case of inhalation.

Potential Chronic Health Effects:

Non-corrosive for skin. Non-irritant for skin. Non-sensitizer for skin. Non-permeator by skin. Non-irritating to the eyes. Non-hazardous in case of ingestion. Non-hazardous in case of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

Section 4: First Aid Measures

Eye Contact:

Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.

Skin Contact:

No known effect on skin contact, rinse with water for a few minutes.

Serious Skin Contact:

Not available.

Inhalation:

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:

Not available.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion:

Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Section 5: Fire and Explosion Data (Continued)

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. **Risks of explosion of the product in presence of static discharge:** Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

No specific safety phrase has been found applicable for this product.

Storage:

No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection :

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or Equivalent.

Section 8: Exposure Controls/Personal Protection (Continued)

Personal Protection in Case of a Large Spill :

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits :

TWA: 25 STEL: 75 (ppm) [United Kingdom (UK)] TWA: 103 STEL: 309 (mg/m³) [United Kingdom (UK)]
TWA: 10 from AIHA TWA: 40 (mg/m³) from AIHA Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance	: Liquid.
Odor	: Amine like.
Taste	: Not available.
Molecular Weight	: 99.14 g/mole
Color	: Colorless to light yellow.
pH (1% soln/water)	: Not available.
Boiling Point	: 202°C (395.6°F)
Melting Point	: -24°C (-11.2°F)
Critical Temperature	: 451°C (843.8°F)
Specific Gravity	: 1.026 (Water = 1)
Vapor Pressure	: 0 kPa (@ 20°C)
Vapor Density	: 3.4 (Air = 1)
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: The product is more soluble in water; log(oil/water) = -0.5
Ionicity (in Water)	: Not available.
Dispersion Properties	: Not available.
Solubility	: Miscible with Castor Oil. Miscible with water, lower alcohols, ketones, ethyl acetate, chloroform and benzene. Moderately soluble in aliphatic hydrocarbons and dissolves many organic and inorganic compounds.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, moisture, incompatibles

Incompatibility with various substances: Reactive with oxidizing agents, reducing agents, acids, alkalis. Slightly reactive to reactive with moisture..

Corrosivity: Not available.

Special Remarks on Reactivity: Hygroscopic. Incompatible with reducing agents, strong alkalies, strong mineral acids. Reacts with chlorinating agents (e.g. cobalt chloride, thionyl chloride, phosphorous oxychloride, pentachlorophosphorous to form the amide. Reacts with sulfur and carbon disulfide at high temperatures and pressures.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact. Inhalation.

Toxicity to Animals: Acute oral toxicity (LD50): 3914 mg/kg [Rat]. Acute dermal toxicity (LD50): 8000 mg/kg [Rabbit].

Chronic Effects on Humans: MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: blood, kidneys, lymphatic system, Urinary system, bone marrow..

Other Toxic Effects on Humans: Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects (maternal effects - post implantation mortality, fetotoxicity) and birth defects based on animal. May affect genetic material. May cause cancer (tumorigenic) based on animal data

Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: Causes skin irritation. May be absorbed through skin. Eyes: Causes moderate eye irritation. Inhalation: Causes respiratory tract irritation. May affect respiration (dyspnea), gastrointestinal tract (abdominal pain, nausea, vomiting and inflammation of gums and mouth, behavior/Central Nervous system (somnolence, muscle weakness, dizziness, drowsiness, headache), and urinary system. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting and diarrhea. May affect behavior/Central Nervous System (similar symptoms to inhalation) metabolism, blood and urinary tract.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations

Section 14: Transport Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]

General information : Not regulated.

Air transport (ICAO-IATA) [English only]

General information : Not regulated.

Section 15: Other Regulatory Information

Federal and State Regulations: Pennsylvania RTK: N-Methyl-2-pyrrolidinone Minnesota: N-Methyl-2-pyrrolidinone Massachusetts RTK: N-Methyl-2-pyrrolidinone New Jersey: N-Methyl-2-pyrrolidinone New Jersey spill list: N-Methyl-2-pyrrolidinone TSCA 8(b) inventory: NMethyl- 2-pyrrolidinone TSCA 4(a) final test rules: N-Methyl-2-pyrrolidinone TSCA 8(a) IUR: N-Methyl-2-pyrrolidinone TSCA 12(b) one time export: N-Methyl-2-pyrrolidinone SARA 313 toxic chemical notification and release reporting: N-Methyl-2-pyrrolidinone

Section 15: Other Regulatory Information (Continued)

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). **DSCL (EEC):** R36- Irritating to eyes. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 2

Reactivity: 0

Personal Protection: J

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment: Not applicable. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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