OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

a-Naphtholbenzein Indicator Solution
MSDS CAS:

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: a-Naphtholbenzein Indicator Solution
CAS#:
Chemical Name: a-Naphtholbenzein Indicator Solution
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
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Acetic Acid	64-19-7	99.81%
p-Naphtholbenzein	145-50-6	0.19%

Toxicological Data on Ingredients: Not available.

Section 3: Hazards Identification

HAZARD CLASS	CATEGORY	HAZARD STATEMENT	PRECAUTIONARY STATEMENT
Acute Toxicity - Oral	Category 4	H302	P264, P270, P301+P312, P330, P501
Acute Toxicity - Dermal	Category 4	H312	P280, P302+P352, P312, P321, P362, P501
Acute Toxicity - Inhalation	Category 4	H332	P261, P271, P304+P340, P312
Eye Damage / Irritation	Category 1	H318	P280, P305+P351+P338, P310
Respiratory Sensitizer	Category 1	H334	P261, P285, P304+P341, P342+P311, P501
Corrosive to Metals	Category 1	H290	P234, P390, P406
Hazardous to the Aquatic Environment (Acute)	Category 3	H402	P273, P501

WHMIS Classification:

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458.

Hazards not Otherwise Classified or Covered by GHS:

Data not available.

Section 4: First Aid Measures

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Eye contact may cause severe eye damage followed by loss of sight. Vapor exposure may cause watering and irritation to eyes.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. May cause serious damage to the skin. Effects may include redness, pain, skin burns.

Serious Skin Contact: Not available.

Inhalation: IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

Serious Inhalation: Not available.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

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Section 5: Fire and Explosion Data

Extinguishing Media:
In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. Water spray, dry chemical, alcohol foam, carbon dioxide.

Specific Hazards Arising from the Substance or Mixture:
Flammable liquid and vapor. Combustible liquid. Combustion may produce irritants and toxic gases.

Special Protective Equipment for Firefighters:
Wear special protective clothing and positive pressure self-contained breathing apparatus. Butyl rubber, Teflon, Viton, or Saranex barrier recommended.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:
Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

Cleanup and Containment Methods and Materials:
Use water spray to cool and disperse vapors, protect personnel, and dilute spills to form nonflammable mixtures. Use soda ash to neutralize spills. Control runoff and isolate discharged material for proper disposal.

Section 7: Handling and Storage

Precautions for Safe Handling and Storage Conditions:

Store in corrosive resistant container with a resistant inner liner. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Do not mix with bases. Store at 15oC (59oF) or above to prevent crystallization.

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Section 8: Exposure Controls/Personal Protection

Exposure Controls:

Engineering Controls: **Use only outdoors or in a well-ventilated area. Work in fume hood.**

Respiratory Protection: **In case of an inadequate ventilation wear respiratory protection. Work with adequate ventilation or wear respirator with acid gas/organic vapor cartridge.**

Skin Protection: Wear protective gloves and eye protection. Chemical resistant gloves.

Eye Protection: Wear protective gloves and eye protection. Safety glasses or goggles.

Personal Protective Equipment:

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection. Work with adequate ventilation or wear respirator with acid gas/organic vapor cartridge. Chemical resistant gloves. Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Physical state and appearance	**: Liquid.**
Odor	**: Strong, vinegar, lachrymator.**
Taste	**: Not available.**
Molecular Weight	**: Not available.**
Color	**: Dark red.**
pH (1% soln/water)	**: < 1.**
Boiling Point	**: Not available.**
Melting Point	**: 16.64°C**
Critical Temperature	**: Not available.**
Specific Gravity	**: 1.35 (Water = 1)**
Vapor Pressure	**: 11.4 mmHg at 20°C.**
Vapor Density	**: 2.1.**
Volatility	**: Not available.**
Odor Threshold	**: Not available.**
Water/Oil Dist. Coeff.	**: Not available.**
Ionicity (in Water)	**: Not available.**
Dispersion Properties	**: Not available.**
Solubility	**: Miscible.**

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Section 10: Stability and Reactivity Data

Reactivity and Chemical Stability: Stable under normal conditions of use and storage. Acetic acid contracts slightly upon freezing which may cause the container to burst.

Possibility of Hazardous Reactions: Data not available.

Conditions to Avoid and Incompatible Materials: Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Keep only in original container. Strong bases, strong oxidizers, chromic acid, sodium peroxide, nitric acid, perchloric acid.

Hazardous Decomposition Products: Will not occur.

Section 11: Toxicological Information

Acute Toxicity - Oral Exposure:

Harmful if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. Dispose of contents in accordance with local, state, federal and international regulations.

Acute Toxicity - Dermal Exposure:

Harmful in contact with skin. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Specific treatment (Wash areas of contact with water). Take off contaminated clothing and wash it before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

Acute Toxicity - Inhalation Exposure:

Harmful if inhaled. Avoid breathing fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

Acute Toxicity - Other Information:

LD50, Oral, Rat (Acetic Acid): 3310 mg/kg, LD50, Dermal, Rabbit (Acetic Acid): 1.06 g/kg, details of toxic effects not reported other than lethal dose value; LC50, Inhalation, Mouse (Acetic Acid): 5620 ppm/1 hr., eye and blood effects noted.

Skin Corrosion and Irritation:

Causes severe skin burns and eye damage. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse

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Section 11: Toxicological Information (Continued)

mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Serious Eye Damage and Irritation:

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Respiratory Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing fumes, mist, vapors, or spray. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Dispose of contents in accordance with local, state, federal and international regulations.

Section 12: Ecological Information

Ecotoxicity:

Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

BOD5 and COD:

Not available.

Section 13: Disposal Considerations

Waste Disposal: **Not available.**

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Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : Acetic Acid Solution
UN N° : UN2789
ADR - Class : 8 (3)

Sea transport (IMDG) [English only]

Proper shipping name : Acetic Acid Solution
UN N° : UN2789
IMO-IMDG - Class or division : 8 (3)
IMO-IMDG - Packing group : II

Air transport (ICAO-IATA) [English only]

Proper shipping name : Acetic Acid Solution
UN N° : UN2789
IATA - Class or division : 68 (3)
IATA - Packing group : II

Section 15: Other Regulatory Information

Occupational Safety and Health Administration (OSHA) Hazards: Not listed.

Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances: Not listed.

Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals:
Acetic Acid (CAS # 64-19-7): 5000 lb final RQ; 2270 kg final RQ

Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI): Not listed.

Section 15: Other Regulatory Information (Continued)

Massachusetts Right-to-Know Substance List
Acetic Acid (CAS # 64-19-7): Present

Pennsylvania Right-to-Know Hazardous Substances:
Acetic Acid (CAS # 64-19-7): Environmental hazard
Acetic Acid (CAS # 64-19-7): Present

New Jersey Worker and Community Right-to-Know Components:
Acetic Acid (CAS # 64-19-7): corrosive
Acetic Acid (CAS # 64-19-7): sn 0004

California Proposition 65
Not listed.

Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL):
p-Naphtholbenzein (CAS # 145-50-6): Present (DSL)
Acetic Acid (CAS # 64-19-7): Present (DSL)
Acetic Acid (CAS # 64-19-7): Present (NDSL)

United States of America Toxic Substances Control Act (TSCA) List:
p-Naphtholbenzein (CAS # 145-50-6): Present
Acetic Acid (CAS # 64-19-7): Present

European Inventory of Existing Commercial Chemical Substances (EINECS), European:
List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)
Not listed.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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