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

SODIUM AZIDE-IODINE REAGENT

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: SODIUM AZIDE-IODINE REAGENT
CAS#: Not available.
Chemical Name: SODIUM AZIDE-IODINE REAGENT
Chemical Formula: Not available.

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
Sodium hydroxide	1310-73-2	40
Potassium Iodide	7681-11-0	9
Sodium azide	26628-22-8	0.54
Water	7732-18-5	50.5

Toxicological Data on Ingredients: Sodium hydroxide LD50: Not available. LC50: Not available. Potassium Iodide LD50: Not available. LC50: Not available. Sodium azide: ORAL (LD50): Acute: 27 mg/kg [Rat]. 27 mg/kg [Mouse]. DERMAL (LD50): Acute: 20 mg/kg [Rabbit]

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Section 3: Hazards Identification

Potential Acute Health Effects:

Extremely hazardous in case of skin contact (corrosive), of ingestion. Very hazardous in case of inhalation. Slightly hazardous in case of eye contact (irritant). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

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: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN] [Potassium Iodide]. The substance is toxic to lungs, the nervous system, the reproductive system, mucous membranes, gastrointestinal tract, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention

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Section 4: First Aid Measures (Continued)

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 available.
Flash Points: Not available.
Flammable Limits: Not available.
Products of Combustion: Not available.
Fire Hazards in Presence of Various Substances: Not available.
Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive in presence of shocks, of metals.
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. If necessary: Neutralize the residue with a dilute solution of acetic acid.

Large Spill:
Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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Section 7: Handling and Storage

Precautions:
Keep locked up.. Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, metals, acids, moisture.

Storage: **Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.**

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.

Personal Protection:
Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust 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: Sodium hydroxide CEIL: 2 from ACGIH (TLV) [United States] [1995] Sodium azide TWA: 0.29 from ACGIH (TLV) [United States] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance	**: Liquid.**
Odor	**: Not available.**
Taste	**: Not available.**
Molecular Weight	**: Not available.**
Color	**: Colorless**
pH (1% soln/water)	**: Basic**

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Section 9: Physical and Chemical Properties 9 (Continued)

Boiling Point	**: The lowest known value is 100°C (212°F) (Water).**
Melting Point	**: Decomposes.**
Critical Temperature	**: Not available.**
Specific Gravity	**: 1.5 (Water = 1)**
Vapor Pressure	**: The highest known value is 2.3 kPa (@ 20°C) (Water)**
Vapor Density	**: he highest known value is 0.62 (Air = 1) (Water)**
Volatility	**: Not available.**
Odor Threshold	**: Not available.**
Water/Oil Dist. Coeff.	**: Not available.**
Ionicity (in Water)	**: Not available.**
Dispersion Properties	**: See solubility in water, methanol, acetone**
Solubility	**: Easily soluble in cold water, hot water. Partially soluble in methanol, acetone**

Section 10: Stability and Reactivity Data

Stability	**: The product is stable.**
Instability Temperature	**: Not available.**
Conditions of Instability	**: Not available.**
Incompatibility with various substances	**: Reactive with oxidizing agents, metals, acids.**
Corrosivity	**: Slightly corrosive in presence of glass, of aluminum, of zinc, of copper. Non-corrosive in presence of stainless steel(304), of stainless steel(316).**
Special Remarks on Reactivity	**: Not available.**
Special Remarks on Corrosivity	**: Not available.**
Polymerization	**: Will not occur.**

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Section 11: Toxicological Information

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

Toxicity to Animals :
LD50: Not available. LC50: Not available.

Chronic Effects on Humans:
DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN]
[Potassium Iodide].

Other Toxic Effects on Humans:
Extremely hazardous in case of skin contact (corrosive), of eye contact (corrosive), of ingestion, of inhalation (lung corrosive)

Special Remarks on Toxicity to Animals:
Not available.

Special Remarks on Chronic Effects on Humans:
Not available.

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 products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: **Not available.**

Section 13: Disposal Considerations

Waste Disposal: **Not available.**

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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: California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Potassium Iodide California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Potassium Iodide Pennsylvania RTK: Sodium hydroxide; Sodium azide Massachusetts RTK: Sodium hydroxide; Sodium azide TSCA 8(b) inventory: Sodium hydroxide; Potassium Iodide; Sodium azide; Water SARA 302/304/311/312 extremely hazardous substances: Sodium azide SARA 313 toxic chemical notification and release reporting: Sodium azide 0.54% CERCLA: Hazardous substances.: Sodium azide;

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive liquid

DSCL (EEC): R21- Harmful in contact with skin. R35- Causes severe burns. R60- May impair fertility

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 1

Reactivity: 2

Personal Protection:

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Section 15: Other Regulatory Information (Continued)

National Fire Protection Association (U.S.A.):
Health: 3
Flammability: 0
Reactivity: 1
Specific hazard:
Protective Equipment:
Gloves. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Face shield

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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