ISO 9001-2008 Certified Company

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



MATERIAL SAFETY DATA SHEET

HYDRAZINE SULPHATE 99% AR

(Hydrazinium Sulphate)

MSDS CAS: 10034-93-2

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: HYDRAZINE SULPHATE AR

CAS#: 10034-93-2

Synonym: Hydrazinium sulphate Chemical Name: Not available. Chemical Formula: N2H6SO4 Molecular Weight: 130.12g/mol

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
HYDRAZINE SULPHATE AR	10034-93-2	99%

Toxicological Data on Ingredients:Not available.

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Section 3: Hazards Identification

Potential Acute Health Effects:

Extremely hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (corrosive, permeator). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:

Extremely hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (corrosive, permeator). CARCINOGENIC EFFECTS: Classified 2 (Reasonably anticipated.) by NTP.

MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to mucous membranes.

Repeated or prolonged exposure to the substance can produce

target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Section 4: First Aid Measures

Eve Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such\ as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Washcontaminated clothing before reusing.

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Section 4: First Aid Measures (continued)

Serious Skin Contact:

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

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

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.

Ingestion:

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. 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: Combustible.

Auto-Ignition Temperature: Not available.

Flash Points: OPEN CUP: 72°C (161.6°F) (Cleveland).

Flammable Limits: LOWER: 4.7%

Products of Combustion: Not available.

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Section 5: Fire and Explosion Data (continued)

Fire Hazards in Presence of Various Substances: Flammable in presence of open flames and sparks, of oxidizing materials.

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. Explosive in presence of metals.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

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.

Large Spill:

Combustible material. Corrosive liquid. Keep away from heat. Keep away from sources of ignition. 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.

Eliminate all ignition sources. Call for assistance on disposal.

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Section 7: Handling and Storage

Precautions:

Keep locked up Keep container dry. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/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:

Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

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:

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. 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:

Not available.

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Section 9: Physical and Chemical Properties

Physical state and appearance : Solid.

: Not available. Odor : Not available. **Taste** Molecular Weight : 130.12 g/mole : White powder.. Color : 1.3 (0.2 M solution). рH

: 113.5°C (236.3°F)

Boiling Point Melting Point : 141 - 142 °C **Critical Temperature** : Not available. **Specific Gravity** : 1 (Water = 1)Vapor Pressure : Not available. **Vapor Density** : 1.1 (Air = 1)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.

Solubility : Water: 3 g/100ml

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances:

Extremely reactive or incompatible with oxidizing agents, metals, acids. Reactive with moisture.

Corrosivity: Non-corrosive in presence of glass.

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Section 10: Stability and Reactivity Data (continued)

Special Remarks on Reactivity:

Decomposes on heating. Explodes in presence of bromine trifluoride. Explosion hazard. Forms explosive mixtures in air. May explode when heated. Reacts violently with iodine monochloride. Reacts violently with iodine pentachloride.

Special Remarks on Corrosivity: Not available.

Polymerization: No

Section 11: Toxicological Information

Routes of Entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 83 mg/kg [Mouse]. Acute toxicity of the vapor (LC50): 570 ppm 4 hour(s) [Rat].

Chronic Effects on Humans: The substance is toxic to lungs, liver, mucous membranes.

Other Toxic Effects on Humans:

Extremely hazardous in case of skin contact (corrosive, irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (sensitizer, permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Animal embryotoxic.

Special Remarks on other Toxic Effects on Humans: Not available

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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 less toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : TOXIC SOLID, INORGANIC, N.O.S.

UN N° : 3888 **ADR - Class** : 6.1

Sea transport (IMDG) [English only]

Proper shipping name : TOXIC SOLID, INORGANIC, N.O.S.

UN N°

IMO-IMDG - Class or division : 6.1: MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

IMO-IMDG - Packing group : III

Air transport (ICAO-IATA) [English only]

Proper shipping name : TOXIC SOLID, INORGANIC, N.O.S.

UN N° : 3888

IATA - Class or division : 6.1 : ENVIRONMENTALLY HAZARDOUS

IATA - Packing group : III

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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: Hydrazine hydrate California prop.

65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Hydrazine hydrate TSCA 8(b) inventory: Hydrazine hydrate SARA 302/304/311/312 extremely hazardous substances: Hydrazine hydrate

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

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).

CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2A:

Material causing other toxic effects (VERY TOXIC). CLASS

E: Corrosive liquid.

DSCL (EEC):

R23/25- Toxic by inhalation and if swallowed. R35- Causes severe burns. R43- May cause sensitization by skin contact

HMIS (U.S.A.): Health Hazard: 3 Fire Hazard: 2 Reactivity: 2

Personal Protection:

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

Health: 3

Flammability: 2 Reactivity: 2 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.

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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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