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MATERIAL SAFETY DATA SHEET

p-NITRO PHENYL HYDRAZINE 98.5% AR

MSDS CAS: 100-16-3

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: p-NITRO PHENYL HYDRAZINE 98.5% AR

CAS#: 100-16-3

Synonym: 4-Nitrophenylhydrazine; p-Hydrazinonitrobenzene

Chemical Name: Hydrazine, (p-nitrophenyl)-

Chemical Formula: C6H7N3O2

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
4-Nitrophenol Indicator AR	100-02-7	100

Toxicological Data on Ingredients: p-Nitrophenylhydrazine LD50: Not available. LC50: Not available.

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Section 3: Hazards Identification

Potential Acute Health Effects:

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

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.

<u>Skin Contact</u>: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

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

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

<u>Serious Inhalation:</u> 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. Seek medical attention.

<u>Ingestion:</u> 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.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: Not available.

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Section 5: Fire and Explosion Data (Continued)

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).

Fire Hazards in Presence of Various Substances:

Highly flammable in presence of open flames and sparks, of heat.

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 heat.

Fire Fighting Media and Instructions:

Flammable solid. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

<u>Large Spill:</u> Flammable solid. Stop leak if without risk. 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.

Section 7: Handling and Storage

<u>Precautions:</u> Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. 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, alkalis.

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Section 7: Handling and Storage (Continued)

Storage: Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Refrigerate

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

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: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Crystals solid.)

Odor : Not available.
Taste : Not available.
Molecular Weight : 153.14 g/mole

Color : Orange-Red. Burnt orange.

pH (1% soln/water) : Not available. Boiling Point : Not available.

Melting Point : Decomposition temperature: 156°C (312.8°F) - 158°C

Critical Temperature : Not available.

Specific Gravity : Not available.

Vapor Pressure : Not applicable.

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Section 9: Physical and Chemical Properties (Continued)

Vapor Density

Volatility

Odor Threshold

Water/Oil Dist. Coeff.

Ionicity (in Water)

Not available.

Not available.

Not available.

Dispersion Properties : See solubility in water, diethyl ether.

Solubility : Soluble in hot water, diethyl ether. Very slightly soluble in cold water.

Soluble in hot benzene, alcohol, chloroform, ethyl acetate.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

<u>Conditions of Instability:</u> Heat, temperatures above 55 C, dust generation, incompatible materials. Do not let it dry out. If the water content is less than 30% it might be considered explosive. Only the material containing 30% water was tested and approved as a desensitized explosive.

Incompatibility with various substances: Reactive with oxidizing agents, alkalis.

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

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

Chronic Effects on Humans: MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

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Section 11: Toxicological Information (Continued)

Other Toxic Effects on Humans:

Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).

Special Remarks on Toxicity to Animals:

Lowest Published Lethal Dose: LDL [Mouse] - Route: Intraperitoneal;; Dose: 250 mg/kg

Special Remarks on Chronic Effects on Humans: May affect genetic material (mutagenic)

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: Causes skin irritation. Eyes: Causes eye irritation. May cause chemical conjunctivitis and corneal damage. Ingestion: Harmful if swallowed. May cause gastrointestinal tract irritation with nausea, vomiting, and diarrhea. Ingestion of large amounts may affect behavior/central nervous system (Central Nervous System depression. It may also affect respiration. Inhalation: Causes respiratory tract irritation. It may cause a burning sensation in the chest. Aspiration may lead to pulmonary edema.

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 than the product itself.

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.

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Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name: 4-NITROPHENYL-HYDRAZINE, with not less than 30% water, by mass

UN N°: 3376 H.I. nr: --

ADR - Class: 4.1

Labelling - Transport: 4.1: Flammable solids, self-reactive substances and desensitized explosives.

ADR - Group: I

Sea transport (IMDG) [English only]

Proper shipping name: 4-NITROPHENYL-HYDRAZINE, with not less than 30% water, by mass

UN N°: 3376

IMO-IMDG - Class or division: 4.1: Flammable solids, self-reactive substances and desensitized

explosives.

IMO-IMDG - Packing group: I

Air transport (ICAO-IATA) [English only]

Proper shipping name: 4-NITROPHENYL-HYDRAZINE, with not less than 30% water, by mass

UN N°: 3376

IATA - Class or division: 4.1: Flammable solids, self-reactive substances and desensitized explosives.

IATA - Packing group: I

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: p-Nitrophenylhydrazine; water

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

DSCL (EEC): R5- Heating may cause an explosion. R11- Highly flammable. R22- Harmful if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin. S16- Keep away from sources of ignition - No smoking. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/39- Wear suitable gloves and eye/face protection.

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Section 15: Other Regulatory Information (Continued)

HMIS (U.S.A.): Health Hazard: 2 Fire Hazard: 3 Reactivity: 0

Personal Protection: E

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

Health: 2

Flammability: 1 Reactivity: 3 Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust 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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