

## **MATERIAL SAFETY DATA SHEET**

### **2-NITROPHENOL**

**Extra Pure**

**(o-Nitrophenol)**

**MSDS CAS: 88-75-5**

## **Section 1: Chemical Product and Company Identification**

### **Section 1: Chemical Product**

**Product Name: 2-NITROPHENOL**

**CAS#: 88-75-5**

**Synonym: Not available.**

**Chemical Name: Not available.**

**Chemical Formula: C<sub>6</sub>H<sub>5</sub>NO<sub>3</sub>**

**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,  
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## **Section 2: Composition and Information on Ingredients**

### **Composition:**

Name	CAS #	% by Weight
{O-}Nitrophenol	88-75-5	100

**Toxicological Data on Ingredients: O-Nitrophenol: ORAL (LD50): Acute: 334 mg/kg [Rat]. 1297 mg/kg [Mouse].**

## Section 3: Hazards Identification

### Potential Acute Health Effects:

Very hazardous in case of skin contact (irritant, permeator), of ingestion. Hazardous in case of eye contact (irritant), of inhalation.

Potential Chronic Health Effects: Very hazardous in case of skin contact (irritant, permeator), of ingestion. Hazardous in case of eye contact (irritant), 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:

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. WARM water MUST be used. Get medical attention.

### Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

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. Seek 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:** May be combustible at high temperature.

**Auto-Ignition Temperature:** 283°C (541.4°F)

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...).

**Fire Hazards in Presence of Various Substances:** Highly flammable in presence of shocks.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of static discharge: Not available. Highly explosive in presence of shocks.

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

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container.

## Section 7: Handling and Storage

**Precautions:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Take precautionary measures against electrostatic discharges. Wear suitable protective clothing In case of

## Section 7: Handling and Storage (Continued)

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

**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:

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. (Crystalline solid.)

Odor	: Not available.
Taste	: Not available.
Molecular Weight	: 139.11 g/mole
Color	: Yellow.
pH (1% soln/water)	: Not available.
Boiling Point	: 216°C (420.8°F)
Melting Point	: 45.4°C (113.7°F)
Critical Temperature	: Not available.

## Section 9: Physical and Chemical Properties (Continued)

Specific Gravity	: 1.495 (Water = 1)
Vapor Pressure	: Not available.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.
Ionicity (in Water)	: Not available.
Dispersion Properties	: Not available.
Solubility	: Very slightly soluble in cold water.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Not available.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** No.

## Section 11: Toxicological Information

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

**Toxicity to Animals:** Acute oral toxicity (LD50): 334 mg/kg [Rat].

**Chronic Effects on Humans:** Not available.

## Section 11: Toxicological Information (Continued)

### Other Toxic Effects on Humans:

Very hazardous in case of skin contact (irritant, permeator), of ingestion. Hazardous in case of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic 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 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)

Proper shipping name: NITROPHENOLS (o-, m-, p-)

UN N°: 1663

H.I. nr: 60

ADR - Class: 6.1

## Section 14: Transport Information (Continued)

**Labelling - Transport: 6.1 : Toxic substances.**  
**ADR - Group: III**

### Sea transport (IMDG) [English only]

**Proper shipping name: NITROPHENOLS (o-, m-, p-)**  
**UN N°: 1663**  
**IMO-IMDG - Class or division: 6.1 : Toxic substances.**  
**IMO-IMDG - Packing group: III**

### Air transport (ICAO-IATA) [English only]

**Proper shipping name: NITROPHENOLS (o-, m-, p-)**  
**UN N°: 1663**  
**IATA - Class or division: 6.1 : Toxic substances.**  
**IATA - Packing group: III**

## Section 15: Other Regulatory Information

### Federal and State Regulations:

**Pennsylvania RTK: O-Nitrophenol Massachusetts RTK: O-Nitrophenol TSCA 8(b) inventory: O-Nitrophenol SARA 313 toxic chemical notification and release reporting: O-Nitrophenol CERCLA: Hazardous substances.: O-Nitrophenol**

### Other Regulations:

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

### 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): R22- Harmful if swallowed. R36/38- Irritating to eyes and skin.**

### HMIS (U.S.A.):

**Health Hazard: 3**  
**Fire Hazard: 1**  
**Reactivity: 3**  
**Personal Protection: E**



## Section 15: Other Regulatory Information (Continued)

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

**Health: 3**

**Flammability: 1**

**Reactivity: 2**

**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.

### *Disclaimer:*

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