OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

N-PHENYL THIOUREA 98%

(For Synthesis)

MSDS CAS: 103-85-5

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: N-PHENYL THIOUREA
CAS#: 103-85-5
Synonym: Not Available.
Chemical Name: N-Phenyl Thiourea
Chemical Formula: $C_7H_8N_2S$

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:

Substance name	CAS #	% by Weight
N-Phenyl Thiourea	103-85-5	100

Section 3: Hazards Identification

Risk advice to man and the environment:
Very toxic if swallowed. May cause sensitization by skin contact.

Section 4: First Aid Measures

General advice: **Consult a physician. Show this safety data sheet to the doctor in attendance.**

If inhaled:
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact: **Wash off with soap and plenty of water. Consult a physician.**

In case of eye contact:
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire and Explosion Data

Suitable extinguishing media: **Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.**

Special protective equipment for fire-fighters:
Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

Personal precautions: **Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.**

Environmental precautions:
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up:
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Handling: **Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.**

Storage: **Store in cool place. Keep container tightly closed in a dry and well-ventilated place.**

Section 8: Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection: **Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.**

Hand protection: **The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.**

Eye protection: **Safety glasses**

Skin and body protection: **Choose body protection according to the amount and concentration of the dangerous substance at the work place.**

Hygiene measures: **Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.**

Section 9: Physical and Chemical Properties

Appearance Form	**: solid**
Molecular Weight	**: 152.22 g/mole**
pH	**: No data available**
Melting point	**: 148 - 150 °C**
Boiling point	**: No data available**
Flash point	**: No data available**
Ignition temperature	**: No data available**
Lower explosion limit	**: No data available**
Upper explosion limit	**: No data available**
Water solubility	**: No data available**

Section 10: Stability and Reactivity Data

Storage stability: Stable under recommended storage conditions.

Materials to avoid: Strong oxidizing agents, Strong acids, Strong bases

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides.

Section 11: Toxicological Information

Acute toxicity: LD50 Oral - rat - 3 mg/kg

Irritation and corrosion: No data available

Sensitisation: May cause allergic skin reaction.

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Genotoxicity in vitro - rat – Liver DNAdamage
Developmental Toxicity - mouse - Oral
Effects on Embryo or Fetus: Cytological changes (including somatic cell genetic material). Effects on Embryo or Fetus: Other effects to embryo.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be fatal if swallowed

Section 12: Ecological Information

Elimination information (persistence and degradability): No data available.

Ecotoxicity effects:
Toxicity to daphnia and other aquatic invertebrates. LC50 - Daphnia magna (Water flea) - 59 mg/l - 48 h

Further information on ecology: No data available

Section 13: Disposal Considerations

Product: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Phenyl-2-thiourea)
UN N°: 2811
ADR - Class: 6.1
Labelling - Transport: -
ADR - Group: I

Sea transport (IMDG) [English only]
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Phenyl-2-thiourea)
UN N°: 2811
IMO-IMDG - Class or division: 6.1
IMO-IMDG - Packing group: I

Air transport (ICAO-IATA) [English only]
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Phenyl-2-thiourea)
UN N°: 2811
IATA - Class or division: 6.1
IATA - Packing group: I

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Section 15: Other Regulatory Information

Labelling according to EC Directives
Hazard symbols: T+ Very toxic

R-phrase(s): **R28 Very toxic if swallowed.**
R43 May cause sensitization by skin contact.

S-phrase(s): **S28 After contact with skin, wash immediately with plenty of soap and water.**
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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