

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 554.50

Revision Date: March 14, 2001

Section 1 — Chemical Product and Company Identification

para-Nitrophenol

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

para-Nitrophenol

Synonym: p-Nitrophenol

CAS#: 100-02-7

Section 3 — Hazards Identification

Yellow crystalline powder.

Highly toxic by ingestion, inhalation, and skin absorption. Body tissue irritant. Avoid all body contact.

Absorption into the body leads to the formation of methemoglobin which may cause cyanosis.

FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-0

Exposure-1

Storage-0

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. Give oxygen and transport to medical facility immediately. If breathing has stopped, give artificial respiration immediately.

External/Eye: Immediately flush with fresh water for 15 minutes. Transport to medical facility immediately.

Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non flammable solid.

Autoignition Temperature: 541 F

When heated to decomposition, emits toxic fumes of NOx.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

H-3

F-1

R-2

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Organic #8. Store with phenols and cresols.

Store in a cool dry place. Use and dispense in a hood.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use exhaust ventilation to keep airborne concentrations low.

Section 9 — Physical and Chemical Properties

Yellow crystalline powder.

Solubility: Soluble in hot water, alcohol, ether and chloroform.

Formula: O₂NC₆H₄OH

Formula Weight: 139.11

Melting Point: 113-114 C

Density at 20 C=1.479-1.495

Section 10 — Stability and Reactivity

Avoid contact with strong oxidizers and strong bases.

Shelf Life: Good.

Section 11 — Toxicological Information

Acute effects: Toxic, irritant, fever, nausea, blue face and lips

Chronic effects: Possible mutagen

Target organs: Blood, central nervous system

ORL-RAT LD50: 250 mg/kg

IHL-RAT LC50: N.A.

SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

Section 12 — Ecological Information

Data not yet available.

Section 13 — Disposal Considerations

Please consult with state and local regulations.

Flinn Suggested Disposal Method 18b is one option.

Section 14 — Transport Information

Shipping Name: Nitrophenols

Hazard Class: 6.1 Keep away from food.

UN Number: UN1663

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (202-811-7), RCRA code U170.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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