## LINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

Section 1 — Chemical Product and Company Identification

## **Phosphorus Pentoxide**

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

Phosphorus Pentoxide Synonym: phosphoric anhydride

CAS#: 1314-56-3

## Section 3 — Hazards Identification

Soft white powder. Odorless. Severely corrosive to skin and body tissue. Severe irritant if ingested. Moderately toxic by ingestion, inhalation, and skin absorption. Reacts violently with water.

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. If breathing has stopped give artificial respiration immediately. Eye: Immediately flush with fresh water for 15 minutes. External: Wash continuously with fresh water for 15 minutes. Internal: Give large quantities of water. Call a physician or poison control at once.

#### Section 5 — Fire Fighting Measures

Non flammable solid. Reacts violently with water. When heated to decomposition, emits toxic fumes of POx. Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### 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: Inorganic #10. Store with sulfur and phosphorus. Store in a Flinn Chem-Saf bag and then inside a Flinn Saf-Stor can. 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.

## FLINN AT-A-GLANCE Health-2

Flammability-0 Reactivity-3 Exposure-3 Storage-2

NFPA CODE None Established

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MSDS #: 603.00 Revision Date: November 25, 2002

## Section 9 — Physical and Chemical Properties

Soft white powder. Odorless. Solubility: Soluble in water. Formula: P2O5 Formula Weight: 141.05 Specific Gravity: 72.390 Melting Point: 340 C Vapor Pressure: 1 mm (384 C) Vapor Density: 4.9

## Section 10 — Stability and Reactivity

Avoid contact with sodium, aluminum, potassium, ammonia, peroxides, magnesium, and water. Shelf life: Poor

## Section 11 — Toxicological Information

Acute effects: Highly toxic Chronic effects: N.A. Target organs: N.A. ORL-RAT LD50: 660 mg/kg IHL-RAT LC50: N.A. SKN-RBT LD50: 1217 mg/m3/1H

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 #24b is one option.

## Section 14 — Transport Information

Shipping Name: Phosphorus pentoxide Hazard Class: 8, Corrosive UN Number: UN1807

N/A = Not applicable

## Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (215-236-1), RCRA code D002, D003.

#### 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.

## FLINN SCIENTIFIC INC.

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Reduce Science Accidents--Use Flinn Chemicals

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