

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 602.00

Revision Date: March 15, 2001

Section 1 — Chemical Product and Company Identification

Phosphorus, Red

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, Red

CAS#: 7723-14-0

Section 3 — Hazards Identification

Violet-red, amorphous powder. Odorless.

Moderately toxic by ingestion, inhalation, and skin absorption.

Corrosive to body tissues and mucous membranes. Avoid all body tissue contact.

FLINN AT-A-GLANCE

Health-2

Flammability-2

Reactivity-2

Exposure-2

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. 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

Combustible solid.

Autoignition Temperature: 500 F

May decompose into more hazardous white (yellow) phosphorus

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-1

F-1

R-1

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and water. 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 cool dry place. Keep away from heat. 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

Violet-red, amorphous powder. Odorless.
Solubility: Insoluble in most solvents. Soluble in carbon disulfide.
Formula: P
Formula Weight: 30.97

Specific Gravity: 2.34
Vapor Pressure: 0.03 mm (21 C)
Vapor Density: 4.77

Section 10 — Stability and Reactivity

Avoid contact with halogens, halides, sulfur, oxidizers, copper, copper alloys, oxygen, reducers, heat, open flame, any source of ignition. Less reactive than yellow phosphorus.
Shelf life: Poor; serious storage risk.

Section 11 — Toxicological Information

Acute effects: Moderately toxic, harmful solid and fumes, stomach pains, vomiting, diarrhea.
Chronic effects: N.A.
Target organs: N.A.

ORL-RAT LD50: N.A.
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 #27c is one option.

Section 14 — Transport Information

Shipping Name: Phosphorus, amorphous
Hazard Class: 4.1, Flammable solid
UN Number: UN1338

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (231-768-7), RCRA code D001, D002.

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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*Reduce Science Accidents--
Use Flinn Chemicals*

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