# FLINN SCIENTIFIC, INC. Material Safety Data Sheet (MSDS)

**MSDS #:** 602.00

**Revision Date:** December 14, 2011

#### 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 and 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 or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

#### **SECTION 5 — FIRE FIGHTING MEASURES**

Combustible solid.	NFPA Code
Autoignition Temperature: 260 °C	H-1
May decompose into more hazardous white (yellow) phosphorus	F-1
Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and	R-1
SCBA with full facepiece operated in positive pressure mode.	

#### 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.

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES** 

Violet-red, amorphous powder. Odorless. Specific gravity: 2.34 Solubility: Insoluble in most solvents. Soluble in carbon Vapor density: 4.77

disulfide. Vapor pressure: 0.03 mm @  $21 \,^{\circ}\text{C}$ 

Formula: P

Formula weight: 30.97 Discontinued product

#### **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

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 review all federal, state and local regulations that may apply, before proceeding. 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**

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## Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.