

Material Safety Data Sheet

Yellow Phosphorus

Section 1: Chemical Product and Company Identification

Product Name : Yellow Phosphorus
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Tel: +65-6227 6365
Fax: +65-6225 6286
Email: contact@chemtradeasia.com

Section 2: Composition and Information on Ingredients

Composition:

| Name | CAS # | % by Weight |
|-------------------|-----------|-------------|
| Yellow Phosphorus | 7723-14-0 | 100 |

Section 3: Hazards Identification

White to off-white to yellow chunks; exhibits phosphorescence at room temperature. Odorless. Highly toxic by ingestion, inhalation and skin absorption. May be fatal. Corrosive to body tissues. Skin burns very possible. Avoid all body contact. Spontaneously combustible solid. Extremely flammable.

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 and Explosion Data

Extremely flammable solid.

Spontaneously combustible solid. Autoignition Temperature: 86 F

When heated to decomposition, emits toxic fumes of PO_x and/or phosphine.

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. Cover with wet sand; keep under cold water and follow isposal procedure. 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 dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor can. Store under water and 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 ventilation to keep airborne concentrations below exposure limits. ways wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 0.1 mg/m³ (OSHA)

Section 9: Physical and Chemical Properties

| | |
|------------------|--|
| Appearance | : Yellow to white powder or lumps, transparent, crystal solid, waxy appearance |
| Solubility | : Insoluble in water and alcohol. Soluble in carbon disulfide. |
| Formula | : P |
| Formula Weight | : 123.88 |
| Specific Gravity | : 1.82 |
| Melting Point | : 44.1 C |
| Vapor Pressure | : 1 mm (76.6 C) |
| Vapor Density | : 0.02 |

Section 10: Stability and Reactivity Data

Avoid contact with halogens, halide, sulfur, oxidizers, copper, copper alloys, oxygen, reducers, heat, open flame, and all sources of ignition.

Shelf life: Poor; serious storage risk.

Section 11: Toxicological Information

Acute effects : Highly toxic, harmful solid and fumes, stomach pain, vomiting, and diarrhea
Chronic effects : N.A.
Target organs : N.A.
ORL-MAN LD50 : 1.4 mg/kg
IHL-RAT LC50 : N.A.
SKN-RBT LD50 : N.A.

Section 12: Ecological Information

Not 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, yellow, under water
Hazard Class : 4.2, Spontaneously combustible, poison
UN Number : UN1381

Section 15: Other Regulatory Information

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

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.