

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Phosphorus, Red Amorphous Powder
Chemical Synonyms	
Formula	P(s)
RTECS #	TH3495000
C.A.S. No.	7723-14-0

CHEMTREC 800-424-9300 Day (312) 533-6666	HEALTH FLAMMABILITY 2 REACTIVITY 1
HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
NA = Not Applicable		
NE = None Established		

SECTION III PHYSICAL DATA

Melting Point (°F)	416°C	Specific Gravity (H₂O = 1)	2.34
Boiling Point (°F)	NA	Percent Volatile by Volume (%)	NA
Vapor Pressure (mm Hg)	NA	Evaporation Rate (= 1)	NA
Vapor Density (Air = 1)	NA		
Solubility in Water	Insoluble		
Appearance and Odor	Red/Violet powder, no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	NA	Flammable Limits in Air % by Volume	Lower	Upper
Extinguisher Media	Flood with water and cover with wet sand and dirt.			

SPECIAL FIREFIGHTING PROCEDURES
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Flammable Solid. Autoignition temperature 304°C. May form explosive mixtures with oxidizing agents. Heat may cause conversion to yellow phosphorus which is ignites spontaneously in air.

NFPA Hazard Rating

1	1
0	1

U.S. DOT	Phosphorus, Red Amorphous Powder	Flammable Solid	UN1338
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Approved by U.S. Department of Labor "essentially similar" to form OSHA-174

SECTION V HEALTH HAZARD DATA

Threshold Limited Value NE, 0.1 mg/M³ TWA for yellow phosphorus.

Effects of Overexposure Acute: Irritation possible to skin, eyes, lungs and GI tract. Bronchitis. If contaminated by yellow phosphorus can be very dangerous. Chronic: Systemic phosphorus poisoning, anemia, weakness, liver/kidney damage.

Emergency and First Aid Procedures
Skin: Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Eyes: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician immediately.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Heat, Ignition sources
	Stable		X

Incompatibility (Materials to avoid) Air, Potassium Chlorate/Permanganate and other strong oxidizers, Chlorine

Hazardous Decomposition Products Phosphorus oxides

Hazardous Polymerization	Conditions to Avoid	None
May Occur	Will Not Occur	X

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Use non-sparking tools. Avoid contact with oxidizers and flammables. Remove ignition sources. Cover with water and scoop up and place in a closed container. sources. Cover with water and scoop up and place in a closed container.

Waste Disposal Method Recover or keep under water and ship to RCRA approved hazardous waste facility.

Discharge, treatment, or disposal may be subject to federal, state, or local laws.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Dust		
Ventilation	Local Exhaust	X	Special
	Mechanical (General)	X	Other
Protective Gloves	Vinyl or Rubber	Eye Protection	Goggles
Other Protective Equipment	Lab Coat		

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing Store in a cool location.
Keep container tightly closed when not in use.

Other Precautions Read label on container before using.

Conditions Aggravated/Target Organs: Persons with preexisting kidney/liver disorders may be more susceptible.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No. 2	Date 6/16/88	Approved K. Kuchel	Chemical Safety Coordinator RMC
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