

GHS Safety Data Sheet

SDS No. : PPE01PAEG

Date Issued:2010/09/03
Last updated:2017/10/04

Section 1. Identification of the substance or mixture and of the supplier

1.1 Product Information

Product name: **P Phosphorus (red)**

Product number:	Purity	Form	Size
PPE01PB	99%(2N)	powder	75μm pass
PPE02PB	99.999%(5N)G	powder	600μm pass
PPE01GB	99.9999%(6N)	grains	2~10 mm
PPE02GB	99.9999%(6N)	grains	0.5~2 mm
PPE03GB	99.9999%(6N)	grains	1~5 mm
—	99.999%(5N)	grains	ca. 1.5 mm

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd
1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284
Phone: +81-49-284-1511 Fax: +81-49-284-1351
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Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
No data available	No data available	Flammable solids : Category 2

GHS Label: F



Pictograms or symbols

Warning word: **WARNING**

Hazard information	Description of precaution
Flammable solid	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting/.../equipment. Take precautionary measures static discharge. In case of fire: Use <Dry chemical powder, carbon dioxide , sand, earth, Water spray, regular form> for extinction.

Additional hazard information :

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name: Phosphorus (red)
Chemical formula: P
Single Substance or Compound: Single substance

Composition:	100%
CAS #:	7723-14-0
RTECS#:	TH3495000
TSCA inventory:	listed
EINECS:	2317687

Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

Section 5. Fire fighting measures

Extinguishing media:	Dry chemical powder, carbon dioxide , sand, earth, Water spray, regular form.
Fire fighting:	This material is flammable solid. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.
Explosion hazards:	Dust explosion: Fine powder may form explosive mixtures in air.
Specific hazards arising from the chemical:	Burning material releases toxic gases or fumes.
Combustion products:	Phosphorus oxides

Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its dust/ fume.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:	Eliminate all ignition sources(no smoking, flares, sparks or flames in immediate area). Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Gather up, pack in closed container as much as possible. Carefully collect remnant and move to a safe place.

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.

Precautions to be taken in storage:

General precautions: Store in a cool, dry place away from incompatible materials.
Keep container or bottle tightly closed.

Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH (2013): No data available
OSHA (2006): No data available

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation. Use explosion-proof electrical/ventilating/lighting/ equipment.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, protective gloves.

Section 9. Physical and chemical properties

Color and Form: Dark red solid, odorless.

Chemical formula: P

Atomic weight: 30.97

Melting point: 589.5 °C / 4.31MPa

Boiling point: 416 °C sublimes

Ignition point: 260 °C

Density: 2.2 g/cm³

Solubility: Water : Insoluble

Flammable: Flammable substance

Oxidation: None

Section 10. Stability and reactivity

Stability: Stable in closed container.

Reactivity

Incompatibility: Halogens, halide, sulfur, oxidizing agents, copper, copper alloy, oxygen.
Forms explosive mixtures with reducing agents.

Condition to avoid: Air, heat.

Hazardous decomposition products.: Phosphorus oxides, phosphine.

Section 11. Toxicological information

Acute toxicity(Oral): GHS : Not classified.; Falls below the lowest level.
Rat LD50 > 15000 mg/kg (IUCLID(2000))

Skin corrosive / irritation: GHS : No data available

Serious eyes damage / eye irritation: GHS : No data available

Respiratory sensitization: GHS : No data available

Skin sensitization:	GHS : No data available
Germ cell mutagenicity:	GHS : No data available
Carcinogenicity:	GHS : No data available
Reproductive toxicity:	GHS : No data available
Specific target organ toxicity	
—single exposure:	GHS : No data available
Specific target organ toxicity	
—repeated exposure:	GHS : No data available
Aspiration hazard:	GHS ; No data available

Section 12. Ecological information

Ecotoxicity:	
Hazards to the aquatic environment	
—acute toxicity:	GHS : No data available
Hazards to the aquatic environment	
—chronic toxicity:	GHS : No data available
Hazardous the ozone layer	GHS : No data available
	No data available
Fish toxicity:	No data available
Degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available

Section 13. Disposal considerations

Disposal method:	User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.
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Section 14. Transport information

UN number:	1338
IATA shipping name:	PHOSPHORUS, AMORPHOUS
IATA classification:	Hazardous Class 4.1 ; Flammable solids.
IATA packing group:	III
HS code:	2804.70
Marine pollution:	None

Section 15. Regulatory information

TSCA inventory : listed.

Please refer to any other local / national measures that may be relevant.

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.