

MATERIAL SAFETY DATA SHEET

PHOSPHORUS PENTOXIDE

1. Chemical Product and Company Identification

Product Name : Phosphorus Pentoxide
Manufacturer : Sandhya Dyes & Chemicals
Address : Sandhya Dyes & Chemicals
311, Nand Prem, 142, Nehru Road, Vile Parle (E)
Mumbai- 400057
INDIA
Tel no. 91-22-26104202/26151500/26136732
Fax no. 91-22-26104201
Regd. Office
Regd. Office
Plot No. 1703, G I D C, Sarigam-396155,
District Valsad, Gujarat
Tel No. 91-260-2781049/2780149
www.sandhya-group.com
socpl@vsnl.com

Emergency Contact No. : 91-22-26104202/26151500/26136732

2. Composition

Hazardous Components	%	OSHA/PEL	ACGIH/TLV
Phosphorus Pentoxide	99.9%	N/E	N/E
CAS No.1314-56-3			

3. Hazards Identification

EMERGENCY OVERVIEW

Corrosive and irritating to the eyes, skin, and mucous membranes

Effects of Exposure:

To the best of our knowledge the chemical, physical and toxicological properties of phosphorus pentoxide have not been thoroughly investigated and reported.

Acute and Chronic Effects:

Inhalation: CORROSIVE. May result in respiratory effects such as inflammation, edema, and chemical pneumonitis. May cause coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Ingestion: CORROSIVE. Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Skin: CORROSIVE. May cause skin burns or irritation depending on the severity of the exposure.

Eye: CORROSIVE. Eye contact may result in permanent damage and complete vision loss.

Carcinogenicity: No information found.

4. Emergency & First Aid Measures

INHALATION: Remove to fresh air; keep warm and quiet, give oxygen if breathing is difficult and seek medical attention.

INGESTION: Seek immediate medical attention.

SKIN: Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

EYE: Rinse opened eye for several minutes under running water. Then consult a doctor.

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5. Fire Fighting Measures

Flash Point: N/E or N/A **Autoignition Temperature:** N/A
Explosive Limits: Lower: N/A **Upper:** N/A

Extinguishing Media: DO NOT USE WATER. Use suitable extinguishing media for surrounding materials and type of fire.
Special Fire Fighting Procedures: Firefighters must wear full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.
Unusual Fire & Explosion Hazard: Phosphorus (V) oxide may emit toxic fumes if involved in a fire. Reacts violently with water.

6. Accidental Release Measures

Personal Protection : Avoid Breathing dust-wear, respiratory protection equipment. Do not allow other to enter area.
Environmental : Notify the environmental agency and local environmental health officer if major spillage occur.
Major Spillage : Shovel/sweep up in to container for removal. Wash area down with copious amount of water.
Minor Spillage : Wash area down with copious amount of water.

7. Handling and Storage

Handling : Avoid contact with skin and eyes, do not breath dust. Do not allow to contaminate clothing.
Storage : Store in a cool, dry area. Store away from water/moisture. Store in tightly sealed container. Store away from incompatible material. Wash thoroughly after handling.

8. Exposure Controls, Personal Protection

EXPOSURE LIMITS:

Hazardous Components	%	OSHA/PEL	ACGIH/TLV
Phosphorus Pentoxide	99.9%	N/E	N/E

CAS No.1314-56-3

Respiratory Protection (Specify Type): NIOSH approved dust-fume-mist cartridge respirator.

Ventilation: Handle under dry protective gas under properly operating chemical fume hood designed for hazardous chemicals. General exhaust is recommended.

Protective Gloves: Impervious gloves

Eye Protection: Safety glasses, tightly sealed goggles, full face protection.

Other Protective Equipment: Protective gear suitable to prevent contamination.

9. Physical and Chemical Properties

Boiling Point: 360 C (sublimes)	Melting Point: 580-585 oC
Vapor Density: N/A	Specific Gravity: 2.38 g/cc
Vapor Pressure: N/A	Solubility in H2O: Reacts violently (Decomposes in water)
Appearance and Odor: White powder, mild odor.	% Volatile: N/E or N/A

10. Stability and Reactivity

Stability : Stable
Conditions to Avoid : Reacts violently with water.
Incompatibility (Materials to Avoid) : Acids, bases, water/moisture, alcohols, alkali metals, magnesium, ammonia.
Hazardous Decomposition Products : Metal oxide fume.
Hazardous Polymerization : Will not occur.

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11. Toxicological Information

Skin & eyes : Contact with skin or eyes will cause severe thermal & caustic burns
LD50(Skin) : Not Available
Ingest : Ingestion will cause severe mouth burns and if swallowed extensive damage to oesophages.
LD50 ingest : Not Available
Carcinogenicity : Not considered as carcinogen
Mutagenicity : Not considered as mutagen
Reproductive Effect : None identified

12. Ecological Information

High Concentration will injure aquatic life due to effect of low pH. Low Concentration may form soluble phosphates which may Act as plant nutrients.

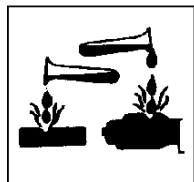
13. Disposal Considerations

Disposal Method : Dilute in a large excess of water and carefully neutralize with soda ash, then wash drain with copious Amount of water.
Contaminated Packaging : Very carefully wash out container with water.

14. Transport Information

PROPER SHIPPING NAME : Phosphorus Pentoxide
HAZARD CLASS : 8
IDENTIFICATION NUMBER : UN 1807
SHIPPING LABEL : CORROSIVE, POISON
Packing Group : II

15. Regulatory Information



Symbol

16. Other Information

This information is based on our present state of knowledge. It should not therefore be constructed as guaranteeing specific properties of this product or their suitability for a particular application.