

SAFETY & HEALTH QUICK LIST

Chemical/Product Name:	Phosphorus Pentoxide
Synonym:	Phosphorus Anhydride, P2O4

CAS No: 131456-3

Hazard Statement: H314 Causes severe skin burns and eye damage.

Physical Properties

NFPA Rating: Health	3
NFPA Rating: Flammability	0
NFPA Rating: Reactivity	2
GHS Classification: Corrosive	4
Fire Extinguisher Type	Powder, CO2, Inert
LEL %	NA
UEL %	NA
Vapor Density	4.9

Auto Ignition Temperature	No Data
Solubility in Water	Reacts VIOLENTLY w/ water
Specific Gravity	
Flash Point	n/a
Vapor Pressure (@ 68F)	< 0.75 mmHg
Max Concentration (@68F)	
Boiling Point	680 F

Exposure Guidelines

PEL/TLV	15 mg/m3
STEL	
Ceiling	
Skin Notation	
Carcinogen	

Corrosive	
Irritant	
IDLH	
Odor Threshold	no data
Sensitizer	

Other Hazards:

WATER REACTIVE

Emergency Response

Spill or Leak	Isolate area for at least 50 meters (150 feet) in all directions
Large spill	Dike far ahead of spill for later disposal
Fire	Isolate for 800 meters (1/2 mile) in all directions

Decontaminate with Sodium carbonate solution 5%

Normal Tasks

Sampling
 Drum/Tote Filling
 Strapping Tank/Truck
 Hose Disconnect Unclear (Camlock Fitting)
 Hose Disconnect Unclear (Dry Disconnect)
 Line/Equipment Opening Unclear
 Line/Equipment Opening Clear
 Contaminated Equipment in Maintenance Shop which can't be cleaned
 Tank Cleaning (No chemicals present)
 Tank Cleaning (Chemicals present)

PPE Group

Group 5
Group 5
Group 5
Group 5
Group 5
Group 5 SA
Group 5
Group 5 SCBA
Group 5
Group 5 SCBA

Emergency Response Tasks

Small Spill
 Medium Spill
 Large Spill
 Downwind Monitoring (Vapor Only)
 Liquid Contact (HAZMAT)

PPE Group

Group 5
Group 5
Group 5
Group 5
SCBA A Suit

Lab Handling

Inside Hood
 Outside Hood

PPE Group

Group 13 ova
Group 13 ova

NUMBER	KEY CODE	DESCRIPTION
GROUP 5	SPLASH GOGGLES RESIRATOR	Standard PPE (Group 2) with Chemical Gloves, Face Shield, Splash Goggles and the required Respirator
GROUP 12	STANDARD LAB -N	Nomex Lab Coat, Safety Side-Shield Glasses, Nitrile Gloves
Respirator Type		Half Face, Organic Vapor ACID
Chemical Gloves Type		Butyl Rubber

PPE Example

