

P1612

Material Safety Data Sheet

HAZARD WARNIN	NGS RISK PHRASES			PROTECTIVE CLOTHING				
	Highly toxic; Moisture sen Refrigerate a	Corrosive to eyes and skin on contact. Highly toxic; do not ingest or inhale. Moisture sensitive material. Refrigerate and vent pressure slowly before opening. Store under argon.						
Section I.	Chemical Prod	uct and Cor	mpany Ide	entificati	ion			
Chemical Name	Phospho	Phosphorus Pentachloride						
Catalog Number	P1612	P1612			Supplier	TCI America 9211 N. Harborgate St.		
Synonym	Phosphorus(V)	Phosphorus(V) Chloride				Portland OR 1-800-423-8616		
Chemical Formula	PCl ₅	PCl ₅			In case of	Oh and the a		
CAS Number	10026-13-8	10026-13-8			Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)		
Section II.	Composition a	nd Informa	tion on In	aredien				
Chemical	•	CAS Number	Percent (%)		LV/PEL	Toxicology Data		
Phosphorus Pe	entachloride	chloride 10026-13-8 Min. 98.0 (T) Not avail			9.	Rat LD $_{50}$ (oral) 600 mg/kg Rat LD $_{50}$ (inhalation) 205 mg/m ³		
Section III.	Hazards Identi	ification						
Acute Health Effects Chronic Health Effects	membranes of the eyes, mouth and respiratory tract. Skin contact may produce burns. Eye contact can result in corneal damage or blindness. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Corrosive materials may cause serious injury if ingested. Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.							
Section IV.	one or many huma	5						
Eye Contact		Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.						
Skin Contact		In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.						
Inhalation	Inhalation If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.							
Ingestion DO NOT INDUCE VOMITING. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.								
Section V.	Fire and Explo	sion Data						
Flammability	May be combustibl	May be combustible at high temperature.		Auto-Ignition No		t available.		
Flash Points	Not available.	Not available. Flammable Limits Not available.		available.				
Combustion Products		enated compounds. toxic HCl gas is pro		nbustion.				
Fire Hazards	Not available.							
Explosion Hazards		Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.						
Fire Fighting Media and Instructions								

Emergency phone number (800) 424-9300

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Section VI.	Accidental Release Measures	3				
Spill Cleanup Instructions	Corrosive material. Highly toxic material. Moisture sensitive material. Stop leak if without risk. DO NOT get water inside container. DO NOT touch spilled material. Use water spravapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignitie federal, state, and/or local authorities for assistance on disposal.					
Section VII.	Handling and Storage					
Handling and Storage Information	CORROSIVE. HIGHLY TOXIC. MOISTUR OPENING. STORE UNDER ARGON. Kee required. When not in use, tightly seal the c ingest. Do not breathe dust. Never add wa advice immediately and show the container or Always store away from incompatible compo	p locked up. Keep container d ontainer and store in a dry, cool ater to this product. Wear suitab or the label. Treat symptomatica	ry. Keep away from heat. Mechan place. Avoid excessive heat and lig ple protective clothing. If ingested, s Ily and supportively.	ical exhaust ht. DO NOT eek medical		
Section VIII.	Exposure Controls/Personal Protection					
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.					
Personal Protection	Face shield. Lab coat. Dust respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.					
Exposure Limits	Not available.					
Section IX.	Physical and Chemical Prope	erties				
Physical state @ 20°C	Solid. (White ~ light yellow powder and	Solubility	Soluble in ether, benzene,			
Specific Gravity	lumps.) 1.60 (water=1)		carbon disulfide, carbon tetrach	loride.		
Molecular Weight	208.24	Partition Coefficient	Not available.			
Boiling Point	Not available.	Vapor Pressure	1.6 Pa (@ 20°C)			
Melting Point	148°C (298.4°F) (dec.)	Vapor Density	7.2 (Air = 1)			
Refractive Index	Not available.	Volatility	Not available.			
Critical Temperature	Not available.	Odor	Pungent.			
Viscosity	Not available.	Taste	Not available.			
Section X.	Stability and Reactivity Data					
Stability	This material is stable if stored under proper conditions. (See Section VII for instructions)					
Conditions of Instability	Avoid excessive heat and light. Moisture sensitive. Refrigerate and vent pressure slowly before opening. Store under argon.					
Incompatibilities	Reactive with oxidizing agents, metals, amin Reacts violently with water.	es, alcohols, acids, alkalis (base	s), sodium, potassium, moisture.			
Section XI.	Toxicological Information					
RTECS Number	TB6125000					
Routes of Exposure	Eye Contact. Ingestion. Inhalation. Skin contact.					
Toxicity Data	Rat LD ₅₀ (oral) 600 mg/kg Rat LD ₅₀ (inhalation) 205 mg/m ³					
Chronic Toxic Effects	CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce loca skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.					
Acute Toxic Effects	Corrosive to skin, eyes, and respiratory system. Liquid or spray mist may produce tissue damage, particularly in mucou membranes of the eyes, mouth and respiratory tract. Skin contact may produce burns. Eye contact can result in corner damage or blindness. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized b coughing, choking, or shortness of breath. Corrosive materials may cause serious injury if ingested. Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.					

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Section XII.	Ecological Information					
Ecotoxicity	Not available.					
Environmental Fate	Not available.					
Section XIII.	isposal Considerations					
Waste Disposal	Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material wi combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe federal, state and local regulations when disposing of the substance.					
Section XIV.	Transport Information					
DOT Classification	DOT Class 8: Corrosive material					
PIN Number	UN1806					
Proper Shipping Name	Phosphorus pentachloride					
Packing Group (PG)	I					
DOT Pictograms	Councerty 8					
Section XV.	Other Regulatory Information and Pictograms					
TSCA Chemical Invento (EPA)	ry This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list.					
WHMIS Classification (Canada)	CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS E: Corrosive solid. On DSL.					
EINECS Number (EEC) 233-060-3					
EEC Risk Statements	R26/27/28- Very toxic by inhalation, in contact with skin and if swallowed. R34- Causes burns.					
Japanese Regulatory Da	ta ENCS 1-250					
Section XVI. Version 1.0	Other Information					

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Notice to Reader

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