



United Phosphorus, Inc.

<b>NFPA</b>	<b>PPE</b>		

Issued Date 23-Apr-2013

Revision Date 23-Apr-2013

Revision Number: 1

**1. PRODUCT AND COMPANY IDENTIFICATION**

**UPI**  
 630 Freedom Business Center  
 Suite 402  
 King of Prussia, PA 19406

**Emergency Telephone Number**  
 Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
 Medical: Rocky Mountain Poison Control Center  
 (866) 673-6671 (24hrs)

<u>Company Information</u>	<u>Contact Information</u>	<u>Phone Number</u>	<u>Available Hrs</u>
UPI	Customer Service	1-800-438-6071	8:00 am - 5:00 pm (EST)

<b>Product Name</b>	Phoenix Pegasus HPX
<b>EPA Reg #</b>	70506-273
<b>Recommended Use</b>	fungicide
<b>Product Code</b>	12P-HPX

**2. HAZARDS IDENTIFICATION**

<b>Emergency Overview</b>		
May be fatal if inhaled Harmful if swallowed or absorbed through skin Causes moderate eye irritation.		
<b>Appearance</b> White.	<b>Physical State</b> Liquid.	<b>Odor</b> Slight.

**Potential Health Effects**

<b>Eyes</b>	Moderately irritating to the eyes with possible corneal injury.
<b>Skin</b>	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Chlorothalonil	1897-45-6	54	N/A

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye Call a poison control center or doctor for treatment advice.
<b>Skin Contact</b>	Rinse skin immediately with plenty of water for 15-20 minutes Call poison control center or doctor for treatment advice Wash hands thoroughly after handling Take off contaminated clothing.
<b>Inhalation</b>	Move person to fresh air If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible Call a physician or poison control center immediately
<b>Ingestion</b>	Call a physician or poison control center immediately Never give anything by mouth to an unconscious person Do not induce vomiting unless told to do so by a poison control center or doctor
<b>Notes to Physician</b>	Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

#### Flammable Explosive Properties

<b>Flash Point</b>	Not applicable
<b>Autoignition Temperature</b>	Not available
<b>Flammability Limits in Air</b>	Not available
<b>Extngushing Media</b>	Carbon dioxide (CO2), Foam, Dry chemical, Water.
<b>Fire/Explosion Hazard</b>	In fire conditions, may release irritating and toxic gases due to thermal decomposition or combustion.
<b>Hazardous Combustion Products</b>	Hydrogen chloride.
<b>NFPA</b>	<b>Health</b> 1 <b>Flammability</b> 0 <b>Instability</b> 0

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with the skin and the eyes. Use personal protective equipment. Wear protective gloves/clothing and eye/face protection.
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<b>Environmental Precautions</b>	Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.
<b>Methods for Clean-up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Provide appropriate exhaust ventilation at places where dust is formed. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.
<b>Storage</b>	Keep out of the reach of children. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Guidelines</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Controls</b>	Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.
<b>Personal Protective Equipment</b>	
<b>Eye/face Protection</b>	Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact. Goggles. Safety glasses with side-shields.
<b>Skin Protection</b>	Wear protective gloves/clothing. Long sleeved clothing. Long pants. Chemical resistant footwear plus socks. Protective gloves.
<b>Respiratory Protection</b>	Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.
<b>General Hygiene Considerations</b>	Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White	<b>Odor</b>	Slight
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**12P-HPX**  
**Phoenix Pegasus HPX**

<b>Physical State</b>	Liquid	<b>pH</b>	4.46
<b>Boiling Point/Range</b>	100 C	<b>Melting Point/Range</b>	Not applicable
<b>Specific Gravity</b>	1.271	<b>Solubility</b>	Dispersible in water
<b>Evaporation Rate</b>	Not available	<b>Vapor pressure</b>	Not available
<b>Vapor Density</b>	Not available	<b>VOC Content</b>	Not available
<b>Viscosity</b>	Not available	<b>Molecular Weight</b>	no data available
<b>Bulk Density</b>	no data available	<b>Percent Solids</b>	Not available
<b>Percent Volatiles</b>	Not available		

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under normal conditions
<b>Conditions to Avoid</b>	Heat, flames and sparks
<b>Incompatible Materials</b>	No materials to be especially mentioned
<b>Hazardous Decomposition Products</b>	Hydrogen chloride
<b>Possibility of Hazardous Polymerization</b>	None under normal processing

**11. TOXICOLOGICAL INFORMATION**

Acute Toxicity

<b>Product Information</b>	<p>chlorothalonil 54%:  <b>Acute oral LD50 (rat) : 3,260 mg.kg</b>  <b>Acute dermal LD50 (rabbit) : &gt;2,020 mg/kg</b>  <b>Acute inhalation LC50 (rat) : 0.11 mg/liter of air - 4 hr</b>  <b>Primary dermal irritation (rabbit) : Non-irritating</b>  <b>Primary eye irriation (rabbit) : reversible corneal, iridal and conjunctival effects in unwashed eyes of rabbit, minimal irritation in washed eyes</b>  <b>Dermal sensitization: Not a sensitizer</b></p>
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Chronic Toxicity

<b>Carcinogenicity</b>	<p>Chlorothalonil:          No evidence of carcinogenicity in dogs after administration for up to one year. Squamous cell adenomas were observed in the forestomach of both rats and mice. This observation is not relevant to humans as humans have no anatomical equivalent of a forestomach. Comprehensive dietary and worker exposure studies have shown exposure levels for humans to be well below these threshold levels - in addition surveillance of chlorothalonil plant workers for many years has not demonstrated any increase in oncogenic potential to humans. .</p>
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Chemical Name	ACGIH	IARC	NTP	OSHA
Chlorothalonil		Group 2B		X

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

This product is toxic to aquatic invertebrates and wildlife. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. The chemical is known to leach through soil into groundwater under certain conditions as a result of labeled use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Chlorothalonil:

Bees LC50/EC50 = >181 ug/bee

Invertebrates (Water flea) LC50/EC50 = 0.068 ppm

Fish (trout) LC50/EC50 = 0.04 ppm

Birds (8 day dietary- Bobwhite quail) LC50/EC50 = >5,200 ppm.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Contaminated Packaging** Refer to product label.

## 14. TRANSPORT INFORMATION

**DOT** When shipped domestically by highway in non-bulk containers this product can be shipped as not regulated. When shipped in bulk, by vessel, or internationally use the following shipping description:

<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s (Chlorothalonil)
<b>Hazard Class</b>	9
<b>UN-No</b>	UN3082
<b>Packing Group</b>	PG III
<b>Marine pollutant</b>	Marine pollutant.

### ICAO

<b>UN-No</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s (chlorothalonil)
<b>Hazard Class</b>	9
<b>Packing Group</b>	PG III
<b>Description</b>	Marine pollutant

### IATA

<b>UN-No</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substances, liquid, n.o.s. (Chlorothalonil)
<b>Hazard Class</b>	9
<b>Packing Group</b>	PG III
<b>ERG Code</b>	9L
<b>Description</b>	Marine pollutant

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**Phoenix Pegasus HPX**

**IMDG/IMO**

**Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s. (chlorothalonil)  
**Hazard Class** 9  
**UN-No** UN3082  
**Packing Group** PG III  
**Marine pollutant** Marine pollutant

**15. REGULATORY INFORMATION**

**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
Chlorothalonil	Present	X		X	(3)-1805	X	KE-33285	X

**USA**

**Federal Regulations**

**SARA 313**

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Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Chlorothalonil	1897-45-6	54	0.1

**SARA 311/312 Hazardous Categorization**

**Chronic Health Hazard** Yes  
**Acute Health Hazard** Yes  
**Fire Hazard** No  
**Sudden Release of Pressure Hazard** No  
**Reactive Hazard** No

**Clean Water Act**

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**CERCLA**

**RCRA**

**Pesticide Information**

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Chlorothalonil 1897-45-6 ( 54 )			X	

**State Regulations**

**12P-HPX**  
**Phoenix Pegasus HPX**

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	Category	California Prop. 65	Non-additive, corrosive chemical type
Chlorothalonil	1897-45-6	Carcinogen	Carcinogen	

**State Right-to-Know**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Chlorothalonil	X	X	X		

**International Regulations**

**Mexico - Grade** Mexico - Grade

Component	Category	Carcinogen Status	Exposure Limits
Chlorothalonil 1897-45-6 ( 54 )	Carcinogen		

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

Not determined

**16. OTHER INFORMATION**

**Revision Date** 23-Apr-2013

**Revision Summary**

Add to system

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**End of MSDS**