



United Phosphorus, Inc.

NFPA	PPE		

Issued Date 11-Sep-2012

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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)

Product Name Phoenix Pegasus DFX
EPA Reg # 70506-272
Recommended Use pesticide
Product Code 12P-0009C

2. HAZARDS IDENTIFICATION

Emergency Overview		
Corrosive		
Causes irreversible eye damage		
May be fatal if inhaled		
May be fatal if absorbed through skin		
Appearance Green.	Physical State granules.	Odor Slight. Pungent.

Potential Health Effects

Eyes Risk of serious damage to eyes. Direct contact of liquid with the eyes may cause burns or severe irritation with pain, redness, swelling and injury to the cornea.

Skin 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	82.5	N/A

4. FIRST AID MEASURES

Eye Contact	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.
Skin Contact	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.
Inhalation	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
Ingestion	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
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with the skin and the eyes. Use personal protective equipment. Wear protective gloves/clothing and eye/face protection.
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Environmental Precautions 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.

Methods for Clean-up Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling 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.

Storage 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

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Controls 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.

Personal Protective Equipment

- Eye/face Protection** 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.
- Skin Protection** Wear protective gloves/clothing. Long sleeved clothing. Long pants. Chemical resistant footwear plus socks. Protective gloves.
- Respiratory Protection** 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.

General Hygiene Considerations
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

Appearance	Green	Odor	Slight Pungent
Physical State	granules	pH	6-8

Boiling Point/Range	>350 C	Melting Point/Range	Not available
Specific Gravity	Not available	Solubility	Dispersible in water
Evaporation Rate	Not available	Vapor pressure	Not available
Vapor Density	Not available	VOC Content	Not available
Viscosity	Not available	Molecular Weight	no data available
Bulk Density	48 lb/ft3	Percent Solids	Not available
Percent Volatiles	Not available		

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	<p>Chlorothalonil formulation 82% Acute oral LD50 (rat) = 5,050 mg/kg Acute dermal LD50 (rabbit) = >2,020 mg/kg Acute inhalation LC50 (rat) = >0.051 mg/L Dermal irritation (rabbit) = non an irritant Eye irritation (rabbit) = Irritant, reversible corneal, iridal and conjunctival effects in unwashed eyes at least 21 days Dermal sensitization (guinea pig) = Not an irritant</p>
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Chronic Toxicity

Carcinogenicity	<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.

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

<u>DOT</u>	>90% of product by volume on average is greater than 10 microns in particle size. 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:
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s. (Chlorothalonil)
Hazard Class	9
UN-No	UN3077
Packing Group	PG III
Marine pollutant	Marine pollutant.
<u>ICAO</u>	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s (chlorothalonil)
Hazard Class	9
Packing Group	PG III
Description	Marine pollutant
<u>IATA</u>	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s. (Chlorothalonil)
Hazard Class	9
Packing Group	PG III
ERG Code	9L
Description	Marine pollutant
<u>IMDG/IMO</u>	
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s. (chlorothalonil)
Hazard Class	9
UN-No	UN3077
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

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Chlorothalonil	1897-45-6	82.5	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 (82.5)			X	

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

12P-0009C
Phoenix Pegasus DFX

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 (82.5)	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 12-Sep-2012

Revision Summary

Add to system

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End of MSDS