



United Phosphorus, Inc.

NFPA	PPE	

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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 R&D Technical Service	610-878-6100 484-804-6974	8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)

Product Name Phoenix Peregrine
EPA Reg # 70506-254
Recommended Use Fungicide
Product Code 12P-0023

2. HAZARDS IDENTIFICATION

Emergency Overview Causes irreversible eye damage Harmful if absorbed through skin		
Appearance Light bluish-grey.	Physical State Granular.	Odor Slight. Pungent.

Potential Health Effects

Eyes Severly irritating to the eyes.
Skin Irritating to skin.
Inhalation May cause irritation of respiratory tract.
Ingestion May be harmful if swallowed.

Personal Precautions	Use personal protective equipment. Avoid contact with the skin and the eyes. Ensure adequate ventilation.
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	Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Keep out of reach of children. Do not eat, drink or smoke when using this product.
Storage	Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur.

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. Safety glasses with side-shields.
Skin Protection	Wear protective gloves/clothing. Long sleeved clothing. Chemical resistant footwear plus socks.
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	Light bluish-grey	Odor	Slight Pungent
Physical State	Granular	pH	5-7
Boiling Point/Range	Not available	Melting Point/Range	Not available

Specific Gravity	0.759 g/mL (tapped)	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	no data available	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	Strong oxidizing agents, Bases, Acids
Hazardous Decomposition Products	Hydrogen chloride, Carbon oxides, Nitrogen oxides (NOx), Oxides of sulfur
Possibility of Hazardous Polymerization	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Peregrine:
Oral LD50 (rat) = >5,000 mg/kg
Dermal LD50 (rabbit) = >2,000 mg/kg
Inhalation LC50 (rat) = 2.0 mg/L (4 hour)
Eye irritation (rabbit) = Severely irritating /corrosive
Skin irritation (rabbit) = Mildly irritating
Skin sensitization (guinea pig) = Not a sensitizer

Chronic Toxicity

Carcinogenicity

The information below indicates whether any agency has listed any ingredient as a carcinogen. 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. Thiophanate methyl:
 Repeated or long term administration produced effects on the thyroid, liver, or kidneys in rats, mice or dogs. An increased evidence of liver tumors was observed in mice and thyroid tumors were observed in male rats following long term oral exposure. No effects were seen on the ability of male or female rats to reproduce when exposed orally for 2 successive generations. No birth defects were observed in the offspring of rats exposed orally during pregnancy. In rabbits, developmental toxic effects were noted at maternally toxic doses. No genetic changes were observed in tests using animal cells.

Chemical Name	ACGIH	IARC	NTP	OSHA
Chlorothalonil		Group 2B		X

12. ECOLOGICAL INFORMATION

Ecotoxicity

Thiophanate methyl :

This material is practically non-toxic to carp (96 hr LC50 >100 mg/l) and fiddler crab (96 hr LC50 >560 mg/l). It is slightly toxic to bluegill (96 hr LC50 15.8 mg/l), Daphnid (48 hr EC50 15.6 mg/l) and shrimp (96 hr LC50 25.1 mg/l). It is moderately toxic to trout (96 hr LC50 2.2 mg/l) and oysters (96 hr LC50 4.6 ppm), and highly toxic to catfish.

Chlorothalonil:

Bees LC50/EC50 = >181 ug/bee

Invertabrates (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 packages over 882 pounds add RQ to the shipping description. When shipped in packages < 60 pounds domestically by highway OR WHEN SHIPPED internationally in any package size the following description is applicable:

Proper Shipping Name Environmentally hazardous substances, solid, n.o.s. (Thiophanate methyl)
Hazard Class 9
UN-No UN3077
Packing Group PGIII
Marine pollutant Marine pollutant.

ICAO

UN-No UN3077
Proper Shipping Name Environmentally hazardous substance, solid, n.o.s (Thiophanate methyl)
Hazard Class 9
Packing Group PG III
Description Marine pollutant

IATA

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s. (Thiophanate methyl)
Hazard Class 9
Packing Group PGIII
ERG Code 9L
Description Marine pollutant

IMDG/IMO

12P-0023
Phoenix Peregrine

Proper Shipping Name Environmentally hazardous substances, solid, n.o.s. (Thiophanate-methyl)
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
Thiophanate-methyl		X		X		X	KE-28330	X

USA

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or 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	50	0.1
Thiophanate-methyl	23564-05-8	16.66	1.0

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

Component	RQ
Thiophanate-methyl 23564-05-8 (16.66)	10 lb

RCRA

Component	RCRA - D Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Thiophanate-methyl 23564-05-8 (16.66)			U409

Pesticide Information

12P-0023
Phoenix Peregrine

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Chlorothalonil 1897-45-6 (50)			X	
Thiophanate-methyl 23564-05-8 (16.66)			X	

State Regulations

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	
Thiophanate-methyl	23564-05-8		Female Reproductive Male Reproductive	Female Reproductive Male Reproductive

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Chlorothalonil	X	X	X		
Thiophanate-methyl		X			

International Regulations

Mexico - Grade

Mexico - Grade

Component	Category	Carcinogen Status	Exposure Limits
Chlorothalonil 1897-45-6 (50)	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

22-Oct-2012

Revision Summary

Add to system

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End of MSDS