



United Phosphorus, Inc.

NFPA	PPE		

Issued Date 15-Feb-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 Merlin
EPA Reg # 70506-276
Recommended Use Insecticide
Product Code 12P-0021

2. HAZARDS IDENTIFICATION

Emergency Overview

Causes substantial eye irritation which will cause discomfort and is expected to be temporary
 Harmful if swallowed
 Harmful if inhaled

Prolonged skin contact may cause local redness. May cause an allergic reaction in sensitive individuals.

WARNING!

Appearance Pale, Amber.	Physical State Liquid.	Odor Slight. Pungent.
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Potential Health Effects

Eyes Severly irritating to the eyes.
Inhalation Harmful by inhalation.
Ingestion Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Abamectin B1a	65195-55-3	<1	N/A
Abamectin B1b	65195-56-4	<1	N/A
Abamectin	71751-41-2	1.9	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	Take off contaminated clothing Rinse skin immediately with plenty of water for 15-20 minutes Call poison control center or doctor for treatment advice.
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 poison control center or doctor for further treatment advice.
Ingestion	Call a physician or poison control center immediately Have person sip a glass of water if able to swallow Do not induce vomiting unless told to do so by a poison control center or doctor Never give anything by mouth to an unconscious person
Notes to Physician	<p>Early signs of intoxication include mydriasis (dilated pupils), ataxia (unsteadiness), and muscle tremors. Toxicity following accidental ingestion can be minimized by inducing vomiting with 1/2 hour of exposure.</p> <p>If toxicity from exposure has progressed to cause severe vomiting, the extent or resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given along with other required supportive measures (such as maintenance of blood pressure levels) as indicated by clinical signs, symptoms and measurements.</p> <p>In severe cases, observations should continue for at least several days until clinical condition is stable and normal.</p> <p>Since avermectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbituates, benzodiazepines, valproic acid) in patient with potentially toxic avermectin exposure.</p>

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties

Flash Point

61
°C

Autoignition Temperature

Not available

Flammability Limits in Air

Not available

Extnguishing Media

Foam, Dry chemical, Carbon dioxide (CO2)

Fire/Explosion Hazard

Combustible material Heated material can form flammable and explosive vapors with air.

Hazardous Combustion Products

Extreme temperatures convert Endothall product to endothall anhydride which is a strong vessicant causing blistering of eyes, mucous membranes and skin.

NFPA

Health -

Flammability -

Instability -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with the skin and the eyes. Remove all sources of ignition. Use personal protective equipment.

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

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

Handling

Do not eat, drink or smoke when using this product. Keep away from open flames, hot surfaces and sources of ignition. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Wash thoroughly after handling. KEEP OUT OF REACH OF CHILDREN AND PETS.

Storage

Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep out of the reach of children.

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. Eye/face Protection. Goggles. Face-shield.
Skin Protection	Rubber gloves. Coveralls.
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. Wash hands before breaks and immediately after handling the product. Wear respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale Amber	Odor	Slight Pungent
Physical State	Liquid	pH	approx 3.5
Boiling Point/Range	Not available	Melting Point/Range	Not available
Specific Gravity	1.01 g/mL	Solubility	Not available
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	No materials to be especially mentioned
Hazardous Decomposition Products	Carbon oxides
Possibility of Hazardous Polymerization	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Abamectin =
Oral LD50 (rat) = 1750 mg/kg
Dermal LD50 (rabbit) = >5050mg/kg
Inhalation LC50 (rat) = 2.56 mg/L
Skin irritation (rabbit) = Non-irritating
Eye Irritation (rabbit) = Severe irritation
SKin Sensitization (guinea pig) = Non -sensitizer

Chronic Toxicity

Carcinogenicity

There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Abamectin is highly toxic to fish and aquatic invertebrates.

LC50 rainbow trout = 0.046 mg/L (96 hr)

EC50 daphnia = 0.405ug/L (48 hr) .

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

Proper Shipping Name	Pesticide, liquid, toxic, n.o.s. (Abamectin)
Hazard Class	6.1
UN-No	UN2902
Packing Group	PG III

ICAO

UN-No	UN2902
Proper Shipping Name	Pesticide, liquid, toxic, n.o.s. (Abamectin)
Hazard Class	6.1
Packing Group	PG III

IATA

UN-No	UN2902
Proper Shipping Name	Pesticide, liquid, toxic, n.o.s. (Abamectin)

12P-0021
Phoenix Merlin

Hazard Class 6.1
Packing Group PG III

IMDG/IMO

Proper Shipping Name Pesticide, liquid, toxic, n.o.s. (Abamectin)
Hazard Class 6.1
UN-No UN2902
Packing Group PG III
Marine pollutant Marine pollutant

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
Abamectin B1a				X				
Abamectin B1b				X				
Abamectin							KE-04279	

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 Title 40n of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Abamectin	71751-41-2	1.9	1.0

SARA 311/312 Hazardous Categorization

Chronic Health Hazard No
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

12P-0021
Phoenix Merlin

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Abamectin 71751-41-2 (1.9)			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
Abamectin	71751-41-2		Developmental	

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Abamectin		X			

International Regulations

Mexico - Grade Mexico - Grade

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 17-Feb-2012

Revision Summary

Add to system

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End of MSDS