



United Phosphorus, Inc.

NFPA	PPE	

Issued Date 01-Oct-2012

Revision Date 29-Apr-2014

Revision Number: 8

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	1-800-438-6071 610-878-6100	8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)
Product Name	Up-Cyde Pro 2.0 EC		
EPA Reg #	70506-19		
Recommended Use	Insecticide termiticide		
Product Code	12U-128		

2. HAZARDS IDENTIFICATION

Emergency Overview		
May cause reversible skin reaction.		
May cause central nervous system effects.		
May be harmful if swallowed, inhaled, or absorbed through the skin.		
WARNING!		
Appearance Yellow.	Physical State Liquid.	Odor soapy.

Potential Health Effects

- Inhalation
 - Skin contact
- | | |
|---|--|
| <p>Eyes</p> <p>Skin</p>
<p>Inhalation</p> <p>Ingestion</p> | <p>May cause tearing.</p> <p>Skin contact may produce skin sensations such as numbing, burning, or tingling. These sensations are reversible within 12 - 24 hours of onset.</p> <p>May cause irritation of respiratory tract.</p> <p>Harmful if swallowed.</p> |
|---|--|

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Component	CAS-No	Weight %	OSHA PEL
cypermethrin cis/trans +/- 40/60 52315-07-8 (24.8)	52315-07-8	24.8	N/A
n-Hexanol 111-27-3 (<20)	111-27-3	<20	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.
Skin Contact	Rinse skin immediately with plenty of water for 15-20 minutes. If skin irritation persists, call a physician
Inhalation	If breathing is irregular or stopped, administer artificial respiration May cause allergic respiratory reaction 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. Do not administer milk, cream or other substance containing vegetable or animal fats which enhance absorption of lipophilic substances. Central nervous system stimulation should be controlled with sedation by e.g. barbiturates. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties

Flash Point

50-54C / 122-129 F

Autoignition Temperature

Not available

Flammability Limits in Air

Not established

Extnguishing Media

Foam, Carbon dioxide (CO2) Dry chemical.

Fire/Explosion Hazard

Combustible material May support combustion at elevated temperatures. Mixture may contain traces of ethylene oxide, a highly flammable chemical that may build up in the headspace of containers.

Hazardous Combustion Products

Carbon monoxide, Carbon dioxide (CO2), chlorine, Hydrogen chloride, hydrogen cyanide.

NFPA

Health 1

Flammability 2

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid contact with the skin and the eyes. Remove all sources of ignition.
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. Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with an absorbant such as clay, sand or soil.
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	Keep out of reach of children. Do not eat, drink or smoke when using this product. Keep away from open flames, hot surfaces and sources of ignition. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.
Storage	Keep in a dry, cool and well-ventilated place. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

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. PESTICIDE APPLICATORS & WORKERS. THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.
-----------------------------	--

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.

Skin Protection

Wear protective gloves/clothing. Socks and footwear.

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. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow	Odor	soapy
Physical State	Liquid	pH	(1% dilution); 4.9 - 6.1
Boiling Point/Range	Not available	Melting Point/Range	Not available

Specific Gravity	0.954 g/ml	Solubility	Emulsifies
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	7.95 lbs/gal	Percent Solids	Not available
Percent Volatiles	Not available		

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Up Cyde Pro 2.0 EC
Acute oral LD50 = >1550 mg/kg
Acute dermal LD50 (rabbit) = >2000 mg/kg
Acute inhalation LC50 = 2.118 mg/L (4 hr)
Primary Eye Irritation = Category III (EPA)
Skin Irritation = Slight erythema cleared by day 7
Dermal Sensitization = Sensitizer
Signes of toxicity in laboratory animals included loss of motor control, tremors, decreased activity, urinary incontinence, increased sensitivity to sound and convulsions.
Experience to date indicates that contact with this product may produce skin sensitization such as numbing, burning and tingling. These sensations are reversible and usually subside within 12 hours.

Chronic Toxicity

Carcinogenicity

Cypermethrin: In animal studies cypermethrin did not cause reproductive toxicity, teratogenicity, neurotoxicity or carcinogenicity in male and female rats and male mice. Cypermethrin caused an increase in benign lung tumors in female mice at 1600 ppm in the diet. The EPA concluded on a weight of evidence approach that cypermethrin represents a low oncogenic potential to female mice at this dose level (approximately 228 mg/kg/day). Liver enlargement is often noted in laboratory animals that have ingested large doses of cypermethrin in their life span. An overall absence of genotoxicity has been demonstrated in tests of mutagenicity, DNA damage and chromosome aberrations.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Cypermethrin:

Is rapidly degraded in soil with a half life of 2-4 weeks. It is readily hydrolyzed under basic conditions; hydrolysis half-life period can be 20-29 days. Cypermethrin has a high affinity for organic matter and a Log Pow of 5.0; yet, because of the ease with which the material undergoes degradation, it has very low potential for bioconcentration (BCF= 17), and it is not mobile in soil.

Cypermethrin is considered extremely toxic to fish and aquatic arthropods, and has LC50 values which range from 0.004 ug/L to 3.6 ug/L. The aquatic arthropods tended to be some of the more sensitive species. Care should be taken to avoid contamination of the aquatic environment. Cypermethrin is slightly toxic to birds and oral LD50 values are greater than 10,248 mg/kg.

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

Non refillable container. Do not reuse this container. (For containers less than 5 gallons). Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. The offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. (For containers larger than 5 gallons). Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Flammable liquid, n.o.s (aromatic hydrocarbon)
Hazard Class	3
UN-No	UN1993
Packing Group	PG III
Marine pollutant	Y.

ICAO

UN-No UN1993
Proper Shipping Name Flammable liquid, n.o.s (aromatic hydrocarbon)
Hazard Class 3
Packing Group PG III
Description Marine pollutant

IATA

UN-No UN1993
Proper Shipping Name Flammable liquid, n.o.s (aromatic hydrocarbon)
Hazard Class 3
Packing Group PG III
Description Marine pollutant

IMDG/IMO

Proper Shipping Name Flammable liquid, n.o.s (aromatic hydrocarbon)
Hazard Class 3
UN-No UN1993
Packing Group PG III
Marine pollutant yes

TDG

Proper Shipping Name Flammable liquid, n.o.s (aromatic hydrocarbon)
Hazard Class 3
UN-No UN1993
Packing Group PG III

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
cypermethrin cis/trans +/- 40/60				X		X	Present	X
n-Hexanol	Present	X		X	Present	X	Present	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.

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 contains the following HAPs:

CERCLA

RCRA

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
cypermethrin cis/trans +/- 40/60 52315-07-8 (24.8)			X	
n-Hexanol 111-27-3 (<20)			X	

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
cypermethrin cis/trans +/- 40/60	X			X	
n-Hexanol		X	X		

International Regulations

Mexico - Grade Not available

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 29-Apr-2014

Revision Summary

Update section 1 Update section 14 Update section 11

UPI, Inc. believes that the information and recommendations container herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPI, Inc. UPI, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

End of MSDS