



Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 18-May-2015

Revision date 14-May-2015

Revision Number: 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product Description: UP-Cyde 2.5 EC

Other means of identification

Item#: 12U-127
UN-No UN1993
Synonyms Not Available
Registration number(s) 70506-20

Recommended use of the chemical and restrictions on use

Recommended use Insecticide.
Uses advised against Activities contrary to label recommendation

Details of the Supplier of the Safety Data Sheet

Supplier Address

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

Emergency telephone number

Company Phone Number 1-800-438-6071
Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(866) 673-6671 (24hrs)

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Gases)	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1

Label elements

EMERGENCY OVERVIEW

DANGER

hazard statements

HARMFUL IF SWALLOWED
Harmful in contact with skin
Toxic if inhaled
May cause genetic defects
May cause cancer
May cause respiratory irritation

May be fatal if swallowed and enters airways



appearance Yellow

Physical state liquid

Odor aromatic

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood
 Do not handle until all safety precautions have been read and understood
 Wear cold insulating gloves/face shield/eye protection
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Do not get in eyes, on skin, or on clothing
 Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 IF ON SKIN: Wash with plenty of soap and water
 Call a POISON CENTER or doctor if you feel unwell
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician
 Rinse mouth
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
cypermethrin cis/trans +/- 40/60	52315-07-8	30.6	
Mineral oil	64742-55-8	<30	
Aromatic hydrocarbons	Proprietary	>40	

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

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.
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. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
Protection of First-aiders	Use personal protective equipment.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Use: Dry chemical. Carbon dioxide (CO₂). alcohol-resistant foam.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Heated material can form flammable and explosive vapors with air.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂). Hydrogen chloride. Chlorine. Hydrogen cyanide.

Explosion data

Protective equipment and precautions for firefighters

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Avoid contact with the skin and the eyes. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling.

Environmental Precautions

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 and material for containment and cleaning up

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

Precautions for safe handling

Handling Wear personal protective equipment. Keep out of reach of children. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Keep away from open flames, hot surfaces and sources of ignition. Remove and wash contaminated clothing before re-use.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur.

incompatible materials No information available.

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

Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields.

Skin protection

Wear protective gloves/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

Information on basic physical and chemical properties

Physical state	liquid	Odor	aromatic
appearance	Yellow		
color	No information available		
Property	<u>VALUES</u>	<u>Remarks/ • Method</u>	
pH	4.71		
Melting point/freezing point	5.71 °C / 42 °F		
Boiling Point/Range	No information available		
Flash Point	58.5 c / 137.3 F		Pensky Martin Closed Cup
Evaporation Rate	No information available		
flammability (solid, gas)	No information available		
Flammability limit in air			
Upper Flammability Limit	No information available		
Lower Flammability Limit	No information available		
vapor pressure	No information available		
Vapor Density	No information available		
Specific gravity	0.971		

Water solubility	No information available
Solubility in Other Solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
decomposition temperature	No information available
Viscosity, kinematic	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

OTHER INFORMATION

Softening point	No information available
molecular weight	8.095 lb/gal
VOC Content	No information available
density	No information available
Bulk density	No information available

10. Stability and Reactivity**Reactivity**

no data available

Chemical stability

Stable under normal conditions. Hazardous polymerisation does not occur.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

incompatible materials

No information available.

Hazardous decomposition productsCarbon monoxide. Carbon dioxide (CO₂). Hydrogen cyanide. Hydrogen chloride. Chlorine.**11. Toxicological Information****Information on Likely Routes of Exposure****Product information**

Up-Cyde 2.5 EC
 Acute oral LD50: 355 mg/kg
 Acute dermal LD50: > 2,000 mg/kg (rabbit)
 Acute inhalation LC50: >2.02 mg/L (4 hr rat)
 Eye and skin irritation: Moderately irritating
 Dermal sensitization: Not a sensitizer

Signs of toxicity in laboratory animals included hypertonicity, ataxia, lethargy, convulsions, gasping, salivation, dyspnea and alopecia.

Inhalation

HARMFUL IF INHALED.

Eye contact

CAUSES EYE IRRITATION.

Skin contact

May cause sensitization of susceptible persons.

Ingestion

HARMFUL IF SWALLOWED.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
cypermethrin cis/trans +/- 40/60 52315-07-8	= 287 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3.28 mg/L (Rat) 4 h
Mineral oil 64742-55-8	-	-	= 3900 mg/m ³ (Rat) 4 h
Aromatic hydrocarbons	-	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h = 3400 ppm (

Rat) 4 h

Information on Toxicological Effects**Symptoms** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****sensitization** No information available.**Mutagenic effects** No information available.**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.**Reproductive effects** Not Available.**STOT - Single Exposure** No information available.**STOT - repeated exposure** No information available.**Chronic toxicity** Avoid repeated exposure.**Aspiration hazard** No information available.**Numerical Measures of Toxicity - Product information**

The following values are calculated based on chapter 3.1 of the GHS document .

LD50 Oral 355 mg/kg (rat)**LD50 Dermal** > 2000 mg/kg (rabbit)**LC50 Inhalation:** LC50/inhalation/4h/rat = > 2.02 mg/l**12. Ecological Information**

Marine Pollutant.

ecotoxicity

Cypermethrin is rapidly degraded in soil with a half-life of 2-4 weeks. It is hydrolyzed under basic conditions; hydrolysis half life period can be 20-29 days. Cypermethrin has an affinity for organic matter and a low Pow of 5; 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 extremely toxic to fish and aquatic arthropods and has LC50 values which range from 0.004 ug/L to 3.6 ug/L. Aquatic arthropods tend to be the more sensitive species.

23% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence/Degradability

No information available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
cypermethrin cis/trans +/- 40/60 52315-07-8	5.3 - 5.6

Other Adverse Effects

No information available

13. Disposal Considerations**Waste Treatment Methods**

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

UN-No	UN1993
Proper shipping name	Flammable liquid, n.o.s (aromatic hydrocarbon)
Hazard class	3
Packing group	PG III
Marine Pollutant	Marine Pollutant.

ICAO

UN-No	UN1993
Proper shipping name	Flammable liquid, n.o.s (aromatic hydrocarbon)
Hazard class	3
Packing group	III
Description	Marine Pollutant (Cypermethrin)

IATA

UN-No	UN1993
Proper shipping name	Flammable liquid, n.o.s (aromatic hydrocarbon)
Hazard class	3
Packing group	PG III
Description	Marine Pollutant (Cypermethrin)

IMDG/IMO

UN-No	UN1993
Proper shipping name	Flammable liquid, n.o.s (aromatic hydrocarbon)
Hazard class	3
Packing group	PG III
EmS No.	F-E,S-E
Marine Pollutant	This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO Specified Class 1 Substances PRTR

15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

signal word WARNING!

Ventilation Control 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.

Restricted Use Pesticide. Keep out of Reach of Children. Harmful if swallowed. Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Extremely toxic to aquatic organisms including fish and invertebrates.

International Inventories

USINV	Not determined
DSL/NDSL	Not determined
EINECS/ ELINCS	Does not comply
ENCS	Does not comply
China	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply
TSCA	Does not comply

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

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**

Acute health hazard	yes
Chronic health hazard	yes
Fire hazard	yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CERCLA

SARA Product RQ 0

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 (30.6)			X	
Aromatic hydrocarbons (>40)			X	

State Regulations**State Right-to-Know**

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
cypermethrin cis/trans +/- 40/60	X			X	
Mineral oil	X			X	

International regulations**U.S. EPA Label information**

EPA Pesticide registration number 70506-20

16. Other Information

NFPA **HEALTH 2** **flammability 2** **Instability 0** **Physical hazard -**

Preparation Date 18-May-2015

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Revision Summary

Update to GHS format Update section 15

End of MSDS