

# **Safety Data Sheet**

# United Phosphorus, Inc.

Preparation Date 18-May-2015 Revision date 21-Sep-2015 Revision Number: 2

## 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 Activties contrary to label recomendation

**Details of the Supplier of the Safety Data Sheet** 

Supplier Address United Phosphorus Inc. 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 pertinenet 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

Pensky Martin Closed Cup

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 appearance Yellow Odor aromatic

**color** No information available

Property VALUES Remarks/ • Method

**pH** 4.71

Melting point/freezing point 5.71 °C / 42 °F
Roiling Point/Range No information available

Boiling Point/Range No information available

Flash Point 58.5 c / 137.3 F
Evaporation Rate No information available flammability (solid, gas) No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
vapor pressure
Vapor Density

No information available
No information available
No information available
No information available

Specific gravity 0.971

Water solubility No information available No information available Solubility in Other Solvents Partition coefficient: n-octanol/waterNo 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

density

No information available
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 products**

Carbon 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** Toxic 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/m³ ( Rat ) 4 h
Aromatic hydrocarbons	-	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L (Rat) 4 h = 3400 ppm (

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	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

sensitizationNo information available.Mutagenic effectsNo 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
STOT - repeated exposure
Chronic toxicity
Aspiration hazard
No information available.
No information available.
Avoid repeated exposure.
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.

#### 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** When shipped domestically IN NON-BULK packages by highway this material is classed as

a combustible liquid and as such is not subject to the DOT regulations per 49 CFR

173.150(f) (2)

**UN-No** UN1993

**Proper shipping name** Flammable liquid, n.o.s (aromatic hydrocarbon)

Hazard class 3
Packing group PG III

Marine Pollutant Marine Pollutant.

<u>ICAO</u>

**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/** Does not comply

**ELINCS** 

**ENCS** Does not comply China Does not comply Does not comply **KECL PICCS** Does not comply **AICS** Does not comply Does not comply **TSCA** 

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

#### SARA 311/312 Hazardous

## Categorization

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

CERCLA

**SARA Product RQ** 0

RCRA

**Pesticide Information** 

State Regulations

State Right-to-Know

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

Disclaimer

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Preparation Date
Revision date
Revision Summary
Update section 11

18-May-2015 21-Sep-2015

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**End of MSDS**