



Safety Data Sheet

Preparation Date 18-May-2015

Revision date 01-Jul-2025

Revision Number: 7

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

Identification of the product

Product Description UP-Cyde 2.5 EC

Other means of identification

Internal SDS code 12U-127
UN/ID no UN1993
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

UPL NA Inc.
PO Box 12219
Research Triangle Park, NC 27709-12219

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 and Drug Safety (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 - 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
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

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 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-%
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 a 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 data 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 data 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 skin and eyes. Wear protective gloves/protective 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**9.1 Information on basic physical and chemical properties**

Appearance	Yellow
Physical state	Liquid
Odor	aromatic
color	No information available

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	4.71	None known
Melting point/freezing point	5.71 °C	None known
Boiling Point/Range		None known
Flash Point	58.5 c / 137.3 F	Pensky Martin Closed Cup
Evaporation Rate		None known
Flammability (solid, gas)		None known
Specific gravity	0.971	None known
Bulk density		None known
Water solubility		None known
Solubility in Other Solvents	Emulsifies	None known
Partition coefficient: n-octanol/water		None known
Autoignition temperature		None known
Decomposition temperature		None known
Viscosity		None known

9.2 OTHER INFORMATION- NONE

molecular weight 8.095 lb/gal

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.
Based on available data, the classification criteria are not met.

Ingestion

HARMFUL IF SWALLOWED.

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 data 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).

Reproductive effects	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.
STOT - Single Exposure	Not Available.
STOT - Repeated Exposure	no data available.
Chronic toxicity	no data available.
Aspiration hazard	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. (Cypermethrin).

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 data 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 data available

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method	Pesticide wastes can be 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) and therefore can be designated as Not Regulated

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

ICAO

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

IATA

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

IMDG

UN/ID no	UN1993
Proper shipping name	Flammable liquid, n.o.s (aromatic hydrocarbon)
Hazard class	3
Packing group	PG III
Environmental hazards	This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO (Cypermethrin)

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 present
DSL/NDL	Not present
EINECS/	Not Present
ELINCS	
ENCS	Not Present
China	Not Present
KECL	Not Present
PICCS	Not Present
AICS	Not Present
TSCA	Not Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - 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 Title 40 of the Code of Federal Regulations, Part 372.

CERCLA

Not applicable

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 (30.6)			X	
Aromatic hydrocarbons (>40)			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 - 52315-07-8	X				
Mineral oil - 64742-55-8	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

Revision date

01-Jul-2025

Revision Summary

Update section 14 (added technical marine pollutant reference)

Disclaimer

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End of SDS