



Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE		

Issued Date 19-Dec-2007

Revision Date 23-Dec-2010

Revision Number: 4

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)

Company Information
 UPI

Contact Information
 Customer Service
 R&D Technical Service

Phone Number
 1-800-438-6071
 610-878-6100

Available Hrs
 8:00 am to 5:00 pm EST
 8:00 am - 5:00 pm (EST)

Product Name Lambda-Cy EC - RUP
EPA Reg # 70506-121
Recommended Use insecticide
Product Code 12U-153

2. HAZARDS IDENTIFICATION

Emergency Overview
 Harmful if inhaled
 Harmful if swallowed
 Causes moderate eye irritation

WARNING!

Appearance Light, Yellow, Transparent.

Physical State Liquid.

Odor Aromatic. Solvent.

Potential Health Effects

Skin

Based on information related to the active ingredient; . Skin contact may produce skin sensations such as numbing, burning, or tingling. These sensations are reversible within 12 - 24 hours of onset. .

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Lamba-cyhalothrin technical	91465-08-6	11.4	N/A
Solvesso 200	64742-94-5	78	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.
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

No information available

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties

Flash Point

80°C / 176°F

Autoignition Temperature

Not available

Flammability Limits in Air

Not available

Extinguishing Media

Foam, Dry chemical Carbon dioxide (CO₂).

Fire/Explosion Hazard

In fire conditions, may release irritating and toxic gases due to thermal decomposition or combustion.

Hazardous Combustion Products

No information available.

NFPA

Health 3

Flammability 2

Instability 0

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. Wear personal protective equipment. Wash thoroughly after handling. .
Storage	Keep out of the reach of children. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. . Store in cool/well-ventilated place. Keep away from heat and sources of ignition.

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. .
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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

Long sleeved clothing. Long pants. Chemical resistant gloves. 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 and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	Light Yellow Transparent	Odor	Aromatic Solvent
Physical State	Liquid	pH	approx.7
Boiling Point/Range	Not available	Melting Point/Range	Not available
Specific Gravity	Not available	Solubility	0.004 mg/L (for Lambda-Cy tech)
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 recommended storage conditions
Conditions to Avoid	Heat, flames and sparks
Incompatible Materials	No materials to be especially mentioned.
Hazardous Decomposition Products	Toxic gases and fumes may be formed if product is involved in fire.
Possibility of Hazardous Polymerization	Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Lambda-Cy EC
Acute oral LD50 (rat) = 81 mg/kg
Acute dermal LD50 (rat) = > 2,000 mg/kg
Acute inhalation LC 50 = 0.622 mg/L - 4 hr
Eye irritation = Mildly irritating (rabbit)
Skin irritation = Slightly irritating (rabbit)

Chronic Toxicity

Carcinogenicity

Lambda-Cy tech:
 Not a developmental or reproductive toxicant
 No treatment related tumors in rats or mice.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Extremely toxic to fish and other aquatic organisms.. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treated area. .

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	<p>Non refillable container. Do not reuse this container. . Triple rinse or pressure rinse promptly after emptying. . Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.</p> <p>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. .</p> <p>[For containers smaller than 5 gallons] Triple rinse as follows: Empty the contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 3/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or 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. .</p> <p>[For containers larger than 5 gallons] Triple rinse or pressure rinse as follows: Triple rinse: 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 back and forth, ensuring at least one complete revolution, for 30 seconds. Stand container on its end and tip back and forth several times. Empty rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse: Empty remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after flow begins to drip.</p> <p>The offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities. .</p>

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Pyrethroid pesticide, liquid, toxic (Lambda-Cyhalothrin)
Hazard Class	6.1
UN-No	UN3352
Packing Group	PG III
Marine Pollutant:	Yes.

ICAO

UN-No	UN3352
Proper Shipping Name	Pyrethroid pesticide, liquid, toxic (Lambda-cyhalothrin)
Hazard Class	6.1
Packing Group	PG III

IATA

UN-No	UN3352
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14. TRANSPORT INFORMATION

Proper Shipping Name	Pyrethroid pesticide, liquid, toxic (Lambda-cyhalothrin)
Hazard Class	6.1
Packing Group	PG III
ERG Code	6L

IMDG/IMO

Proper Shipping Name	Pyrethroid pesticide, liquid, toxic (Lambda-cyhalothrin)
Hazard Class	6.1
UN-No	UN3352
Packing Group	PG III
EmS No.	F-A, S-A
Special Provisions	994, 274, 223, 61
Marine Pollutant	Yes

15. REGULATORY INFORMATION

International Inventories

Lamba-cyhalothrin technical

EINECS/ELINCS	Listed
CHINA	Listed
KECL	Listed

Solvesso 200

DSL	Listed
EINECS/ELINCS	Listed
CHINA	Listed
KECL	Listed

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 does not contain any HAPs.

CERCLA

RCRA

Pesticide Information

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
Solvesso 200			Listed.		

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 23-Dec-2010

Revision Summary

Update section 13 Update section 2 Update section 8

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End of MSDS