



United Phosphorus, Inc.

<b>NFPA</b>	<b>PPE</b>		

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Revision Number: 6

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

**2. HAZARDS IDENTIFICATION**

<b>Emergency Overview</b> Harmful if inhaled Harmful if swallowed Causes moderate eye irritation		
<b>WARNING!</b>		
<b>Appearance</b> Light, Yellow, Transparent.	<b>Physical State</b> Liquid.	<b>Odor</b> 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
lambda-cyhalothrin (ISO)	91465-08-6	11.4	N/A
Solvesso 200	64742-94-5	78	N/A

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Take off contaminated clothing Rinse skin immediately with plenty of water for 15-20 minutes Call poison control center or doctor for treatment advice.
<b>Inhalation</b>	If breathing is irregular or stopped, administer artificial respiration May cause allergic respiratory reaction Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a physician or poison control center immediately May produce an allergic reaction 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
<b>Notes to Physician</b>	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

**Extnguishing 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

<b>Personal Precautions</b>	Avoid contact with the skin and the eyes. Remove all sources of ignition. Use personal protective equipment.
<b>Environmental Precautions</b>	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.
<b>Methods for Clean-up</b>	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

<b>Handling</b>	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.
<b>Storage</b>	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

<b>Engineering Controls</b>	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

<b>Appearance</b>	Light Yellow Transparent	<b>Odor</b>	Aromatic Solvent
<b>Physical State</b>	Liquid	<b>pH</b>	approx 7

<b>Boiling Point/Range</b>	Not available	<b>Melting Point/Range</b>	Not available
<b>Specific Gravity</b>	Not available	<b>Solubility</b>	0.004 mg/L (for Lambda-Cy tech)
<b>Evaporation Rate</b>	Not available	<b>Vapor pressure</b>	Not available
<b>Vapor Density</b>	Not available	<b>VOC Content</b>	Not available
<b>Viscosity</b>	Not available	<b>Molecular Weight</b>	no data available
<b>Bulk Density</b>	no data available	<b>Percent Solids</b>	Not available
<b>Percent Volatiles</b>	Not available		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions
<b>Conditions to Avoid</b>	Heat, flames and sparks
<b>Incompatible Materials</b>	No materials to be especially mentioned
<b>Hazardous Decomposition Products</b>	Toxic gases and fumes may be formed if product is involved in fire.
<b>Possibility of Hazardous Polymerization</b>	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** 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.

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. [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. [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.

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.

## 14. TRANSPORT INFORMATION

### DOT

<b>Proper Shipping Name</b>	When shipped in bulk or internationally the marine pollutant marking must also be added to the package.
<b>Hazard Class</b>	Pyrethroid pesticide, liquid, toxic (Lambda-Cyhalothrin)
<b>UN-No</b>	6.1
<b>Packing Group</b>	UN3352
<b>Marine pollutant</b>	PG III
	Yes.

### ICAO

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

12U-153  
 Lambda-Cy EC - RUP

**Description** Marine pollutant

**IATA**

**UN-No** UN3352  
**Proper Shipping Name** Pyrethroid pesticide, liquid, toxic (Lambda-cyhalothrin)  
**Hazard Class** 6.1  
**Packing Group** PG III  
**ERG Code** 6L  
**Description** Marine pollutant

**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**

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
lambda-cyhalothrin (ISO)				X		X	KE-05-0392	X
Solvesso 200	Present	X		X	(9)-2578	X	KE-31656	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 does not contain any HAPs.

**CERCLA**

**RCRA**

**Pesticide Information**

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
lambda-cyhalothrin (ISO) 91465-08-6 ( 11.4 )			X	
Solvesso 200 64742-94-5 ( 78 )			X	

**State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**State Right-to-Know**

**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

Chemical Name	NPRI
Solvesso 200	X

**16. OTHER INFORMATION**

Revision Date 23-Aug-2013

**Revision Summary**

Recurrent confirmation/update of data

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**End of MSDS**