



# Material Safety Data Sheet

United Phosphorus, Inc.

NFPA	PPE		

Issued Date 19-Dec-2007

Revision Date 06-May-2009

Revision Number: 1

## 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

### EPA Reg #

### Recommended Use

### Product Code

Lambda-Cy EC Insecticide

70506-120

insecticide

12U-153A

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

May cause eye and skin irritation

Harmful if inhaled

Harmful if swallowed

### DANGER!

**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 (CO<sub>2</sub>)

**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**

Wear protective gloves/clothing.

### **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

## 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

<b>Product Information</b>	<b>Lambda-Cy EC</b> <b>Acute oral LD50 (rat) = 81 mg/kg</b> <b>Acute dermal LD50 (rat) = &gt; 2,000 mg/kg</b> <b>Acute inhalation LC 50 = 0.622 mg/L - 4 hr</b> <b>Eye irritation = Mildly irritating (rabbit)</b> <b>Skin irritation = Slightly irritating (rabbit)</b>
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### Chronic Toxicity

<b>Carcinogenicity</b>	Lambda-Cy tech: Not a developmental or reproductive toxicant No treatment related tumors in rats or mice. .
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## 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**

<b>Waste Disposal Method</b>	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. .
<b>Contaminated Packaging</b>	Empty containers may contain hazardous residues. Containers should be handled as instructed by following all container disposal directions .

**14. TRANSPORT INFORMATION****DOT**

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

**IATA**

<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
<b>ERG Code</b>	6L

**IMDG/IMO**

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

**15. REGULATORY INFORMATION****International Inventories**

Lamba-cyhalothrin technical

<b>EINECS/ELINCS</b>	Listed
<b>CHINA</b>	Listed

## 12U-153A - Lambda-Cy EC Insecticide

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Lamba-cyhalothrin technical

**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**

<b>Chronic Health Hazard</b>	No
<b>Acute Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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**

#### **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

<b>16. OTHER INFORMATION</b>
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**Revision Date**

06-May-2009

**Revision Summary**

Update section 1

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**End of MSDS**