



# Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 30-Apr-2015

Revision date 31-Dec-2018

Revision Number: 3

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

### Product identifier

**Product Description:** Lambda-Cy EC - RUP

### Other means of identification

**Product code** 12U-153  
**UN/ID no.** UN3352  
**Registration number(s)** 70506-121

### 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.  
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 3
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 2
Aspiration toxicity	Category 1

### Label elements

#### **EMERGENCY OVERVIEW**

**DANGER**

#### **Hazard Statements**

Toxic if swallowed  
Harmful in contact with skin  
Fatal if inhaled  
May be fatal if swallowed and enters airways

**Appearance** Light Yellow clear**Physical state** Liquid**Odor** aromatic solvent**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 In case of inadequate ventilation wear respiratory protection

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

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

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-%
lambda-cyhalothrin (ISO)	91465-08-6	11.4
Solvesso 200	64742-94-5	78

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**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a poison control center or doctor for treatment advice.

**Skin contact**

Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. 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 physician or poison control center immediately.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a physician or poison control center immediately.

**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 (CO<sub>2</sub>). Water spray. alcohol-resistant foam.

**Unsuitable extinguishing media** no data available.

**Specific hazards arising from the chemical**

Combustible material. Keep product and empty container away from heat and sources of ignition.

**Hazardous combustion products** Irritating gases may be formed if product is involved in a fire.

**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** Use personal protective equipment. Avoid contact with skin and eyes. Wear protective gloves/protective clothing and eye/face protection. Wash thoroughly after handling. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

**Environmental Precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with an absorbant such as clay, sand or soil. 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). Remove all ignition sources. Use non-sparking tools. Take up mechanically and collect in suitable container for disposal.

## 7. Handling and Storage

**Precautions for safe handling**

**Handling** Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Keep out of reach of children. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep in properly labelled containers. 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 materials to be especially mentioned.

## 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. If splashes are likely to occur, wear: Goggles. Face-shield.

**Skin protection**

Wear protective gloves/clothing. Long sleeved clothing. Chemical resistant gloves. 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**

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	aromatic solvent
<b>Appearance</b>	Light Yellow clear		
<b>color</b>	No information available		

<b><u>Property</u></b>	<b><u>VALUES</u></b>	<b><u>Remarks/ • Method</u></b>
<b>pH</b>	7	
<b>Melting point/freezing point</b>	8 °C / 46 °F	
<b>Boiling Point/Range</b>	No information available	
<b>Flash Point</b>	80 C / 176 F	
<b>Evaporation Rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability limit in air</b>		
<b>Upper Flammability Limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>vapor pressure</b>	No information available	
<b>Vapor Density</b>	No information available	

Specific gravity	No information available
Water solubility	No information available
Solubility in Other Solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	no data 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	No information available
VOC Content	No information available
Liquid Density	No information available

**10. Stability and Reactivity****Reactivity**

no data available

**Chemical stability**

Hazardous polymerisation does not occur. Stable under normal conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

Heat, flames and sparks.

**incompatible materials**

No materials to be especially mentioned.

**Hazardous decomposition products**

Carbon oxides.

**11. Toxicological Information****Information on Likely Routes of Exposure**

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)
Inhalation	Harmful by inhalation.
Eye contact	Moderately irritating to the eyes.
Skin contact	May be harmful in contact with skin. May be harmful if absorbed through the skin.
Ingestion	MAY BE FATAL 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**

<b>Sensitization</b>	No information available.
<b>Mutagenic effects</b>	no data available.
<b>Carcinogenicity</b>	Lambda-Cy tech: Not a developmental or reproductive toxicant No treatment related tumors in rats or mice.
<b>Reproductive effects</b>	Not Available.
<b>STOT - Single Exposure</b>	no data available.
<b>STOT - Repeated Exposure</b>	no data available.
<b>Chronic toxicity</b>	Avoid repeated exposure.
<b>Aspiration hazard</b>	No information available.

**Numerical Measures of Toxicity - Product information**

<b>LD50 Oral</b>	81 mg/kg (rat)
<b>LD50 Dermal</b>	> 2000 mg/kg (rat)
<b>LC50 Inhalation</b>	LC50/inhalation/4h/rat = 0.622 mg/l (4-hr)

**12. Ecological Information**

Marine Pollutant.

**ecotoxicity**

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

**Persistence/Degradability**

no data available.

**Bioaccumulation/ Accumulation**

Bioaccumulative potential.

<b>Chemical name</b>	<b>Log Pow</b>
Solvesso 200 64742-94-5	2.9 - 6.1

**Other Adverse Effects**

no data available

**13. Disposal Considerations****Waste Treatment Methods**

<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>	Refer to product label.

**14. Transport Information****DOT**

<b>UN/ID 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>IMDG - Marine Pollutant</b>	Marine Pollutant.

**ICAO**

<b>UN/ID 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>Description</b>	IMDG - Marine Pollutant

**IATA**

<b>UN/ID 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>Description</b>	IMDG - Marine Pollutant

**IMDG**

<b>UN/ID 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>EmS No.</b>	F-A, S-A
<b>Environmental hazards</b>	Yes

## 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. May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. COMBUSTIBLE.**

**International Inventories**

<b>USINV</b>	Present
<b>DSL/NDSL</b>	Not present
<b>EINECS/</b>	Not Present
<b>ELINCS</b>	
<b>ENCS</b>	Not Present
<b>China</b>	Present
<b>KECL</b>	Present
<b>PICCS</b>	Present
<b>AICS</b>	Present
<b>TSCA</b>	Not Present

**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 Title 40 of the Code of Federal Regulations, Part 372.

#### **CERCLA**

Not applicable

#### **CERCLA**

**SARA Product RQ** 0

#### **RCRA**

#### **Pesticide Information**

### State Regulations

#### **State Right-to-Know**

Not applicable

#### **International regulations**

#### **U.S. EPA Label information**

EPA Pesticide registration number 70506-121

## 16. Other Information

**NFPA** HEALTH 3 flammability 2 Instability 0 Physical hazard -

Preparation Date 30-Apr-2015

Revision date 31-Dec-2018

#### **Revision Summary**

Update logo Update section 1 Update Section 16\*\*\*

#### **Disclaimer**

UPL NA Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPL NA Inc. and UPL NA Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

**End of SDS**