

**MATERIAL SAFETY DATA SHEET**  
**Lambda Residual 10% WP**  
 (Lambda-Cyhalothrin)

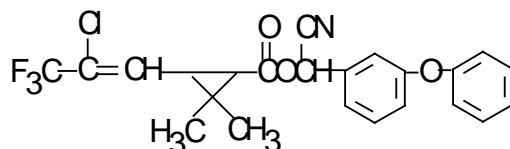
**SECTION 1. IDENTIFICATION OF THE SUBSTANCE**

-Trade Name : Lambda Residual 10% WP  
 -Common Name: Lambda-Cyhalothrin

-Chemical Name:

A reaction product comprising equal quantities of (S)- $\alpha$ -cyano-3-phenoxybenzyl (Z)-(1R,3R)-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate and (R)- $\alpha$ -cyano-3-phenoxybenzyl (Z)- (1S,3S)-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate.

-Formula:  $C_{23}H_{19}ClF_3NO_3$   
 -Mol. wt: 449.9  
 -Structure:



**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance	Conc.	Uses
<b>Active ingredient</b>		
Lambda Cyhalothrin	10 %	To control of Adult Mosquitoes
<b>Inert ingredient</b>		
Filler	90%	
Total	100%	

### SECTION 3. HAZARDS IDENTIFICATION

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#### Effects of Overexposure

Harmful if swallowed or inhaled, Symptoms of overexposure maybe include Burning sensation, Convulsions, Cough, Labored breathing, Shortness of breath, Sore throat, Abdominal pain, Cough, Headache, Dizziness, Nausea, etc. Skin and eye: redness and pain. Irritating to eyes and skin.

#### Hazardous Decomposition Products

Can decompose at high temperatures forming toxic gases.

### SECTION 4.FIRST AID MEASURES

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Ingestion	If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by toughing back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention.
Eye	rinse with water for 15-20minutes.
Skin	Rinse skin immediately with plenty of water for 15-20 minutes.
Inhalation	If inhaled, move person to fresh air. If person is not breathing, give artificial respiration, preferably mouth-to-mouth if possible.
Note to physician	No special antidote. Treat symptomatically.

### SECTION 5.FIRE FIGHTING MEASURES

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<b>Flammability:</b>	Non-flammable
<b>Extinguishing media:</b>	Foam, Carbon dioxide, Dry chemical
<b>Thermal decomposition products:</b>	Non known
<b>Special fire fighting methods:</b>	Use self contained breathing apparatus
<b>Unusual fire or explosion hazards:</b>	

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion..

### SECTION 6.ACIDENTAL RELEASE MEASURES

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Use appropriate protective equipment. Spills should be cleaned up immediately.  
Large spill: dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimize runoff into waterways or drains.

## SECTION 7.HANDLING AND STORAGE

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Store the material in a well ventilated, secure area out of reach of children and domestic animals. Do not store food, drink in areas where they may become contaminated with this material. Keep container tightly closed. Keep away from heat, sparks and flames. Wash thoroughly after handling.

## SECTION 8.EXPOSURE CONTROL/PERSONAL PROTECTION

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### **Applicators and other handlers must wear:**

Coveralls over short-sleeved shirt and short pants.

Chemical-resistant footwear plus socks.

Chemical-resistant gloves, such as barrier laminate or butyl rubber.

Protective eyewear.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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-Appearance: white Powder

-PH: 5.5-9.0

-Density 0.80 g/cm<sup>3</sup>

Wetting time: 17 Sec

Dispersing test: Accepted

Flash Point: >90°C

-Suspensibility: >80%

-Corrosion: Non-corrosive

-Content :Lambda-Cyhalothrin:- 10 %

## SECTION 10.STABILITY AND REACTIVITY

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Chemical Stability: Stable at normal temperatures and storage conditions.

Condition to avoid: None known

Materials to avoid: None known

Polymerization: Polymerization will not occur.

### **Hazardous decomposition products:**

May decompose at high temperatures forming toxic gases

## **SECTION 11. TOXICOLOGICAL INFORMATION**

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Ingestion:	Acute Oral LD50 for rats about 500 mg/kg
Dermal:	Acute Dermal LD50 for rabbits >2000mg/kg
Skin contact:	Irritating to skin (rabbits)
Eye contact:	Irritating to eye (rabbits)
Skin sensitization:	Not a skin sensitizer (Guinea pig)
Other:	Non-mutagenic, non-teratogenic; no adverse effect on reproductive performance. Not neuro-toxic.
Toxicity class:	WHO (a.i.) II

## **SECTION 12. ECOLOGICAL INFORMATION**

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This product is highly toxic to fish, aquatic organisms and honeybees, but practically non-hazardous because of its low recommended rate of use. Low toxic to birds, Acute LD50 for mallard duck >5000mg/kg. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not contaminate water by cleaning of equipment or disposal of equipment wash water.

## **SECTION 13. DISPOSAL INSTRUCTION**

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Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are acutely hazardous. Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning. If allowed by state and local authorities, by burning. If burned, stay out of smoke.

## **SECTION 14. TRANSPORT INFORMATION**

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Transport Classification: Road & Rail (ADG), Sea (IMDG)  
UN NO.: 3349  
Shipping Name: Pyrethroid Pesticide, Powder, toxic, , N.O.S.  
(contains Lambda-cyhalothrin)  
UN class: 6.1  
Packing Group: III  
Other Info: Lambda -cyhalothrin, Marring Pollutant

## **SECTION 15. REGULATORY INFORMATION**

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Acute: Yes  
Chronic: No  
Fire: No  
Reactivity: No  
Read and follow all label directions.

## **SECTION 16. OTHER INFORMATION**

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The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements.

Use according to label instructions.