

Select Source, LLC

MATERIAL SAFETY DATA SHEET

Lambda Select

MSDS DATE: 04/24/2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Lambda Select

SYNONYMS: NA
EPA REGISTRATION NO.: 86869-5

MANUFACTURER: Select Source LLC
ADDRESS: 4609 East Booneville-New Harmony Road
Evansville, IN 47725

CHEMTREC PHONE: 1(800) 424-9300

CHEMICAL NAME: Lambda-Cyhalothrin

CHEMICAL FAMILY: Pyrethroid ester

CHEMICAL FORMULA: $C_{23}H_{19}ClF_3NO_3$
PRODUCT USE: Insecticide
PREPARED BY: Select Source LLC

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

ACTIVE INGREDIENT: Lambda-cyhalothrin

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
91465-08-6	13.0	13.0	No
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:	N/A	0.04 (skin)	
OSHA PEL STEL :	N/A	N/A	
OSHA PEL CEILING:	N/A	N/A	
ACGIH TLV-TWA:	N/A	N/A	
ACGIH TLV STEL:	N/A	N/A	
ACGIH TLV CEILING:	N/A	N/A	

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: WARNING. May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash hands thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

ROUTES OF ENTRY: Oral, Dermal, Inhalation and Eye contact.

POTENTIAL HEALTH EFFECTS

INGESTION: May be fatal if swallowed.

EYES: Causes moderate eye irritation.

SKIN: May be harmful if absorbed through skin.

INHALATION: May be harmful if inhaled.

CARCINOGENICITY – None known.

MATERIAL SAFETY DATA SHEET

Lambda Select

MSDS DATE: 04/24/2012

SECTION 4: FIRST AID MEASURES

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Call a Poison control center or doctor immediately for treatment advice. • Do not give any liquid to the person. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. • Remove contact lenses, if present, after the first 5 minutes then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, give artificial respiration immediately, preferably by mouth-to-mouth. • Call a poison control center or doctor for treatment advice.
<p>Note to Physician: Contains petroleum distillates. Vomiting may cause aspiration pneumonia.</p>	
<p>HOT LINE NUMBER Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NP/C) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time (NPIC Website: www.npic.orst.edu). Outside of these times call your poison control center at 1-800-222-1222.</p>	

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: Not applicable.
 (% BY VOLUME) **LOWER:** Not applicable.

FLASH POINT: 151 °F

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABILITY: Not applicable.

EXTINGUISHING MEDIA: Water, foam, dry chemical, carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate personnel to safe area. Keep personnel removed and upwind of fire. Wear full protective clothing and self-contained breathing apparatus. If water spray is used to fight fire, dike and collect runoff. Prevent the use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce irritating and possibly toxic gases.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SECTION 6 NOTES:

Small Spill: Absorb small spills with sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal. Scrub area with hard water detergent. Pick up wash liquid with additional absorbent and place into appropriate container for disposal.

Large Spill: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal. Pick up wash liquid with additional absorbent and place in a disposable container. After removal, flush contaminated area thoroughly with water. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

Select Source, LLC

MATERIAL SAFETY DATA SHEET

Lambda Select

MSDS DATE: 04/24/2012

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area. Do not store food, beverages or tobacco product in the storage area. Prevent eating, drinking tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and after handling.

OTHER PRECAUTIONS: Do not contaminate water, food, or feed by storage or disposal.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Refer to product label.

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation, packaging and use of this product. For commercial applications and/or on-farm applications consult the product label.

EYE PROTECTION: Wear safety goggles when mixing, loading, or cleaning equipment.

INGESTION: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

SKIN PROTECTION: Long-sleeved shirt, long pants, shoes plus socks, and chemical-resistant gloves made of any waterproof material such as barrier laminate or Viton >14mils.

INHALATION: No special requirement when used as recommended.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

WORK HYGIENIC PRACTICES: Wear protective eyewear and gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

EXPOSURE GUIDELINES: Refer to Section 2.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: gold

ODOR: mild

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 4.2

SPECIFIC GRAVITY (H₂O = 1): 7.81 lb/gal at 26°C

SECTION 10: STABILITY AND REACTIVITY

STABLE
X

UNSTABLE

STABILITY: Stable at normal temperature and pressure. May decompose if heated forming toxic gases.

CONDITIONS TO AVOID (STABILITY): None known.

INCOMPATIBILITY (MATERIAL TO AVOID): None known.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal decomposition can lead to the release of toxic gases.

HAZARDOUS POLYMERIZATION: Will not occur.

MATERIAL SAFETY DATA SHEET

Lambda Select

MSDS DATE: 04/24/2012

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Oral LD ₅₀ (rat)	>180 mg/Kg
Dermal LD ₅₀ (rat)	>2,000 mg/Kg
Inhalation LC ₅₀ (rat)	4 hr exposure 3.12 mg/L
Eye Contact:	Mildly irritating (Rabbit)
Skin Contact:	Mildly irritating (Rabbit)
Skin Sensitization:	Mild Sensitizer (Guinea Pig)
Reproductive/Developmental Effects:	No evidence of mutagenic effects during in vivo or in vitro studies.
Chronic/subchronic toxicity studies	Reversible paresthesia (abnormal skin sensation). Reversible clinical signs of neurotoxicity in mammals.
Carcinogenicity	No treatment-related tumors in rats or mice
Other toxicity information	In humans, contact with exposed skin may result in temporary itching, tingling, burning or numbness, called paresthesia. The effect may result from splash, aerosol, or hot vapor contact, or transfer to the face from contaminated gloves and hands. The symptoms normally disappear within 24 hours. Face and genital areas are especially susceptible to the effect. Paresthesia involving the face is also known as "subjective facial sensation" or SFS.
Toxicity of other components	No data available.
Target organs	
Active ingredient (lambda-cyhalothrin)	No data available.
Inert ingredient	Not applicable

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Summary of effects (Lambda-cyhalothrin Technical):	This material is moderately toxic to fish.
Eco Acute Toxicity:	96 Hour LC50, Rainbow Trout: 0.19 ppb 96 Hour LC50, Bluegill: 0.21 ppb
Eco Chronic Toxicity:	Oral LC50 (8-day) Bobwhite Quail: >5300 ppm Oral LD50 Mallard Duck - >3950 mg/kg
Environmental fate:	Not persistent in soil or water. Immobile in soil. Sinks in water (after 24 h)

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Product disposal – Pesticide wastes may be acutely hazardous. Improper disposal is a violation of federal law. Pesticide, mixtures, or equipment rinse water that cannot be chemically reprocessed must be disposed of according to applicable federal, state or local regulations. Contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

Container disposal – Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

RCRA HAZARD CLASS: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

Select Source, LLC

MATERIAL SAFETY DATA SHEET

Lambda Select

MSDS DATE: 04/24/2012

SECTION 14: TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA

Proper Shipping Name: Pyrethroid Pesticide, Liquid, Toxic (contains Lambda-Cyhalothrin, 13%)

Hazard Class or Division: Class 6.1

Identification Number: UN 3352

Packing Group: PG III

B/L Freight Classification

Insecticides, NOI, Poison

Comments

Water Transport - International

Proper Shipping Name: Pyrethroid Pesticide, Liquid, Toxic (contains Lambda-Cyhalothrin, 13%), Marine Pollutant

Hazard Class or Division: Class 6.1

Identification Number: UN 3352

Packing Group: PG III

Air Transport - International

Proper Shipping Name: Pyrethroid Pesticide, Liquid, Toxic (contains Lambda-Cyhalothrin, 13%)

Hazard Class or Division: Class 6.1

Identification Number: UN 3352

Packing Group: PG III

Maximum Quantity/Pkg: 60L (2.5L max inner containers)

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): The ingredients of this product are listed on the TSCA inventory or are exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

302: Not applicable.

311/312 HAZARD CATEGORIES: Acute Health Hazard
Chronic Health Hazard

313 REPORTABLE INGREDIENTS: Not applicable.

CA PROPOSITION 65: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

HAZARD RATINGS	NFPA		
HEALTH:	2	0	MINIMAL
FLAMMABILITY:	1	1	SLIGHT
REACTIVITY:	0	2	MODERATE
		3	HIGH
		4	SEVERE

PREPARATION INFORMATION: MSDS DATE 4-24-12
REVISION DATE

DISCLAIMER: This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. The information contained herein is given in good faith and is believed to be correct, but no warrant, express or implied is made. Consult Select Source LLC for further information.