

Lambda SELECT™

SAFETY DATA SHEET LAMBDA SELECT INSECTICIDE

SECTION 1: Product and Company Identification

1.1. Product identifier

Trade name : Lambda Select
CAS No. : NA - Mixture
EPA Registration Number : 86869-5

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/preparation : Insecticide

1.2.2. Uses advised against

Consumer use

1.3. Details of the supplier of the safety data sheet

Select Source LLC
4609 East Booneville-New Harmony Road
Evansville, IN 47725
Phone: 877-235-0043
www.selectsourcellc.net

1.4. Emergency telephone number

Emergency number : 1-800-858-7378 (NPIC)
1-800-222-1222 (Poison Control Center)
1(800) 424-9300 (CHEMTREC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

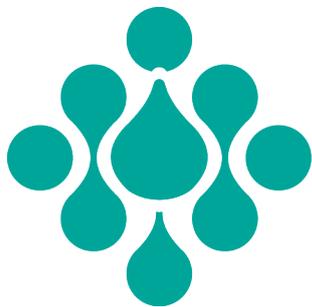
Classification

<u>Hazard Class</u>	<u>Category</u>	<u>Hazard Statement</u>
Acute Toxicity - Oral	3	H302
Flammable liquids	4	H227
Aquatic Toxicity Acute	1	H400
Aquatic Toxicity Chronic	1	H410

If applicable, full text of H-phrases appear in "Label elements" below

Adverse physicochemical, human health and environmental effects

No additional information available



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2.2. Label elements

GHS Labeling Elements

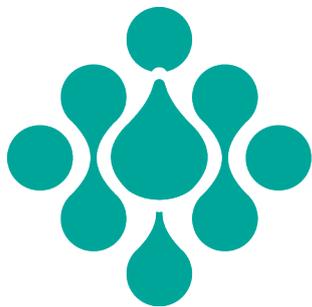
Hazard pictograms (CLP)	:	 
		GHS06 GHS09
Signal word	:	DANGER
Hazard statements	:	H301 – Toxic if swallowed H227 – Combustible liquid H410 – Very toxic to aquatic life with long lasting effects
Precautionary statements (prevention)	:	P264 – Wash thoroughly after handling P270 – Do not eat, drink or smoke when using this product P210 – Keep away from flames and hot surfaces. No smoking. P280 – Wear protective gloves/eye protection/face protection P273 – Avoid release to the environment
Precautionary statements (response)	:	P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician P330 – Rinse mouth P370+P378 – In case of fire: Use water, dry chemical powder, foam, carbon dioxide (CO2) P391 – Collect spillage
Precautionary statements (Storage)	:	P405 – Store locked up
Precautionary statements (disposal)	:	P403+P235 – Store in a well-ventilated place. Keep cool. P501 – Dispose of contents/container in accordance with federal, state and local regulations.

2.3. Other hazards/labeling information

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

SECTION 3: Composition/information on ingredients

Name	Product identifier	%
Lambda-cyhalothrin	(CAS No.) 91465-08-6	13.0
Other Ingredients	NA	87.0



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SECTION 4: First aid measures

4.1. Description of first aid measures

- IF INHALED** : Move 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 poison control center or doctor for treatment advice.
- IF ON SKIN OR CLOTHING** : 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 irritation develops or persists.
- IF IN EYES** : 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 poison control center or doctor for treatment advice if irritation develops or persists.
- IF SWALLOWED** : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person
- First-aid measures – general : Have the product container or label with you when calling a poison control center or doctor, or going for treatment. See Label for Additional Precautions and Directions for Use.
- Notes to Physician : Contains petroleum distillates. Vomiting may cause aspiration pneumonia. There is no specific antidote. Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

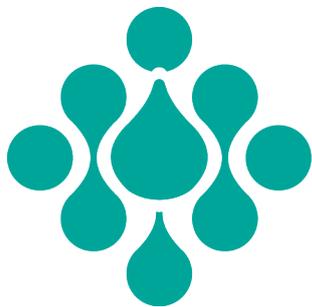
- Suitable extinguishing media : Water, dry chemical powder, foam, carbon dioxide (CO₂).
- Unsuitable extinguishing media : High volume water jet. (Water contamination risk from runoff)

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Thermal decomposition may produce irritating and possibly toxic gases.
- Explosion hazard : Product is not explosive.
- Reactivity : The product is stable at normal handling and storage conditions.

5.3. Advice for firefighters

- Firefighting instructions : In the event of fire, wear self-contained breathing apparatus. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Dike area to prevent runoff and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear appropriate personal protective equipment (PPE) : coveralls, gloves, boots. 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.

6.1.1. For non-emergency personnel

Protective equipment : Wear appropriate personal protective equipment (PPE) : eye protection, coveralls, gloves, boots.

Emergency procedures : Avoid contact with spilled material. Do not allow product to enter streams, sewers or other waterways.

6.1.2. For emergency responders

Protective equipment : Wear appropriate personal protective equipment (PPE) : eye protections, coveralls, gloves, boots.

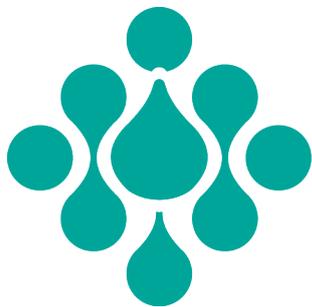
6.2. Environmental precautions

This product is highly toxic to bees and aquatic organisms. Keep out of lakes, streams or ponds. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and permitting authority has been notified in writing prior to the discharge. Do not discharge effluent containing the product to sewer system without previously notifying the local sewage treatment plant authority. For guidance contact your local state water board or regional office of the EPA.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : 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.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, sparks and flames. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Remove clothing/PPE immediately if material gets inside. Do not allow children or pets to enter the treated area until it has dried.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store in a cool, dry place. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Keep out of the reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Personal protective equipment

Train employees in safe use of the product. Follow all label instructions. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

Applicators and other handlers must wear:

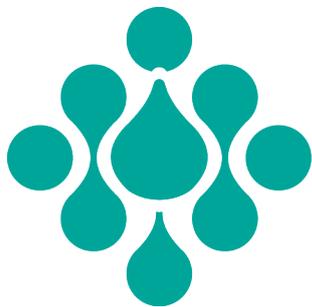
Protective eye wear, long sleeved shirt and long pants, chemical-resistant gloves, (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils.. Shoes plus socks. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them

PPE required for early entry to treated areas that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls. Chemical-resistant gloves, (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils. Shoes plus socks

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas.



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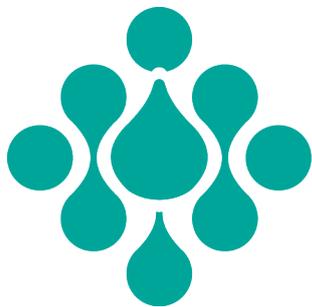
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Gold
Odor	: Mild
Odor threshold	: Not applicable
pH (as supplied)	: 4.2 at 25 °C
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not Applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 151 °F
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.936 g/cm ³ at 20 °C
Solubility	: Emulsifies
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Non explosive
Oxidizing properties	: Non oxidizing
Explosive limits	: No data available

9.2. Other information

No additional information available



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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Protect from heat, sparks and flames.

10.5. Incompatible materials

Strong acids, strong bases and oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce irritating and possibly toxic gases.

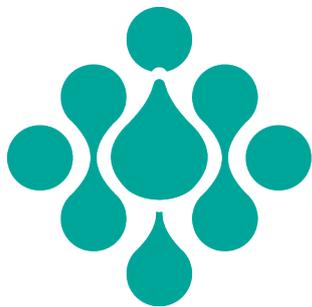
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Lambda Select	
LD50 oral rat	>187 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 3.12 mg/l/4h
Skin corrosion/irritation	Mildly irritating to skin (Not classifiable per GHS criteria)
Serious eye damage/irritation	Mildly irritating to eyes (Not classifiable per GHS criteria)
Respiratory or skin sensitisation	Mildly sensitizing to Guinea Pigs (Not classifiable per GHS criteria)

Lambda-cyhalothrin (sub-chronic, chronic)

Sub-chronic toxicity	: Reversible paresthesia (abnormal skin sensation). Reversible clinical signs of neurotoxicity in mammals.
Carcinogenicity	: Not considered carcinogenic.
Reproductive & Developmental toxicity	: Not considered a reproductive or developmental toxin.
Neurotoxicity	: Not considered a neurotoxin.
Mutagenicity	: Not genotoxic or mutagenic.
Specific Target Organ Toxin – Single Exposure	: No information available.
Specific Target Organ Toxin – Repeat Exposure	: No Information available.



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Lambda-cyhalothrin (sub-chronic, chronic)

Other Toxicity Notes : 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.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity (Acute)

Bees LC50/EC50 (48 hour):	0.038 ug/bee - oral (0.909 ug/bee - contact)
Invertebrates (Daphnia) LC50/EC50 (48 hour):	0.001 mg/L
Invertebrates (Mysid) LC50/EC50 (96 hour):	No data available
Fish (trout) LC50/EC50 (96 hour):	0.19 ppb
Fish (Bluegill) LC50/EC50 (96 hour):	0.21 ppb
Birds (Bobwhite Quail LC50/EC50):	>5300 ppm
Birds (Mallard Duck) LC50/EC50):	>3950 ppm

Ecotoxicological Summary

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.

Environmental Fate

Not persistent in soil or water. Immobile in soil. Sinks in water (after 24 h).

12.2. Persistence and degradability

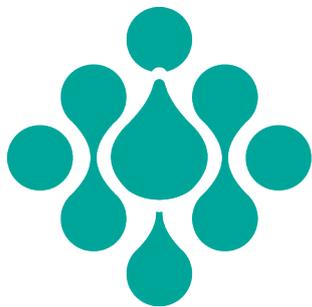
Not readily biodegradable.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

- 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 e.

SECTION 14: Transport information

Ground transport

UN3352; Pyrethroid Pesticide, Liquid, Toxic (contains Lambda-Cyhalothrin, 13%); 6.1, III

Transport by sea (IMDG)

UN3352; Pyrethroid Pesticide, Liquid, Toxic (contains Lambda-Cyhalothrin, 13%); 6.1, III; Marine Pollutant

Air transport (IATA)

UN3352; Pyrethroid Pesticide, Liquid, Toxic (contains Lambda-Cyhalothrin, 13%); 6.1, III

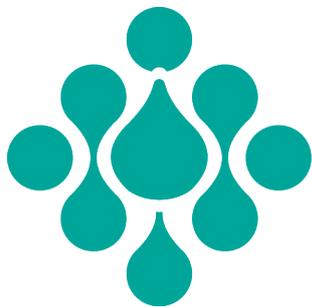
Additional Air, Sea and International Transportation Information

- UN-No. : 3352
- Proper Shipping Name : Pyrethroid Pesticide, Liquid, Toxic (contains Lambda-Cyhalothrin, 13%)
- Transport document description : UN3352; Pyrethroid Pesticide, Liquid, Toxic (contains Lambda-Cyhalothrin, 13%); 6.1, III
- Class/Division (UN) : 6.1
- Hazard labels (UN) : 6.1



- Packing group (UN) : III
- Marine Pollutant (Y/N) : Y
- Dangerous for the environment :





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SECTION 15: Regulatory information

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

SARA 313 Regulated Chemical(s): None

Title III hazard classification:

Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire: Yes
Reactivity/Physical hazard: No
Pressure: No

Canadian Regulatory Information:

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. WHMIS Classification: D1B – Toxic Material



SECTION 16: Other information

NFPA: Health: 3; Flammability: 2; Reactivity: 0; Specific:
HMIS: Health: 3; Flammability: 2; Physical Hazard: 0; PPE: E

SDS US-GHS

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.