

499-535

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

SEP 04 2013

Dana M. Thomas  
Whitmire Micro-Gen Research Laboratories Inc.  
3568 Tree Court Industrial Blvd.  
St. Louis, MO 63122-6682

Subject: Label Amendment- Environmental Hazard Statements

EPA Registration Number: 499-535  
LX417 Lambda-Cyhalothrin

D# 478954  
Date of Submission: May 5, 2013

Dear Ms. Thomas:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. Two (2) copies of the final printed labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this action, please contact Olga Odiott at (703)308-9369.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Suarez".

Mark Suarez  
Product Manager 13  
Insecticide Branch  
Registration Division (7505P)

Enclosure

# LX417 Lambda-Cyhalothrin

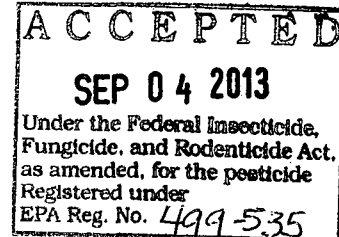
## Controlled Release Lambda-Cyhalothrin

**ALTERNATE BRAND NAME:** "CYHALOCAP® CS" **Descriptor:** "Controlled Release Insecticide" {submitted via Notification 4/18/2013}

[*ALTERNATE BRAND NAME:* Prescription Treatment® brand CYHALOCAP CS™ *Descriptor:* Controlled Release Lambda-Cyhalothrin] {added via Notification 9/23/08}

*Optional Marketing Claims:*

- SmartCap™ Technology
- With SmartCap™ Technology
- Using SmartCap™ Technology



**CONTROLS:**

Ants, Aphids, Armyworms, Bagworms, Bed Bugs, Bees, Beetles, Billbugs (adults), Boxelder Bugs, Cadelles, Carpenter Ants, Carpenter Bees, Carpet Beetles, Caterpillars, Centipedes, Chiggers, Chinch Bugs, Chocolate Moths, Cigarette Beetles, Clover Mites, Cluster Flies, Cockroaches, Crickets, Cutworms, Darkling Beetles, Dermestids, Drugstore Beetles, Earwigs, Elm Leaf Beetles, Fire Ants, Firebrats, Fleas, Flies, Flour Beetles, Fruitworms, Fungus Gnats, Fungus Gnat Larvae, Grain Weevils, Grasshoppers, Hide Beetles, Hornets, House Flies, Indianmeal Moths, Japanese Beetles (adults), Lace Bugs, Larder Beetles, Leafminers, Leafrollers, Lesser Grain Borers, Lesser Mealworms, Loopers, Mealy Bugs, Mediterranean Flour Moths, Merchant Grain Beetles, Mealworms, Millipedes, Mosquitoes, Pillbugs, Plant Bugs, Psocids, Psylla, Rice Weevils, Saw-toothed Grain Beetles, Scale Insects, Scorpions, Silverfish, Sod Webworms, Sowbugs, Spiders, Springtails, Stable Flies, Tent Caterpillars, Termites, Thrips, Ticks, Yellowjackets, Warehouse Moths, Wasps, Wood Wasps, Wood-infesting Borers and Beetles

**FOR USE IN AND AROUND:**

Apartments, Calf Hutches, Calving Pens and Parlors, Campgrounds, Commercial and Industrial Buildings, Correctional Facilities, Dairy Areas, Decks, Empty Chicken Houses, Fencing, Food Processing Plants, Food Storage Areas, Grain Mills, Granaries, Greenhouses (non-commercial), Hog Barns, Homes, Horse Barns, Hospitals, Hotels, Laboratories, Landscape Vegetation; Locker Rooms, Machine Rooms, Mausoleums, Meat Packing Plants, Milkrooms, Mobile Homes, Motels, Mulch, Nursing Homes, Offices, Patios, Pet Kennels, Porches, Rabbit Hutches, Resorts, Restaurants and other Food Handling Establishments, Schools, Storage Rooms, Sewers (dry), Stores, Supermarkets, Transportation Equipment (Buses, Boats, Planes†, Ships, Trains, Trucks), Utility Passages, Utilities, Vestibules, Warehouses and Wineries

† Do not use in aircraft cabins.

**ACTIVE INGREDIENT:**

Lambda-cyhalothrin<sup>1</sup>

[1α(S\*),3 α(Z)]-(+/-)-cyano-(3-phenoxyphenyl) methyl-3-(2-chloro-3,3,-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate ..... 9.7%

**OTHER INGREDIENTS:** ..... 90.3%

<sup>1</sup>Synthetic pyrethroid, capsule suspension (microencapsulated) ..... TOTAL: 100.0%

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

[See back panel/inside booklet for First Aid, Precautionary Statements, Directions for Use and Storage and Disposal.]

EPA Reg. No. 499-535 • EPA Est. No. 7969-MO-1

NET CONTENTS: \_\_\_\_\_

**FIRST AID**

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 min. Call a poison control center or doctor for treatment advice.

**IF IN EYES:** Hold eyes open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 min, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call 1-800-832-HELP for emergency medical treatment information.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. When making applications, take care to avoid household pets, particularly fish and reptiles.

### ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. 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. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hr will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run-off to water bodies or drainage systems.

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.

### PHYSICAL OR CHEMICAL HAZARDS

Do not apply this product in or around electrical equipment due to the possibility of shock hazard.

## DIRECTIONS FOR USE

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT  
IN A MANNER INCONSISTENT WITH ITS LABELING.**

### GENERAL INFORMATION

Apply this product only as specified on this label. This product is a flowable microencapsulated concentrate containing 0.5 lb of lambda-cyhalothrin per gallon. This product may be used on any surface which will not be damaged or stained by water. Heavy applications may leave a visible deposit. On some surfaces this deposit can be removed with a damp cloth or sponge.

In situations where conventional application methods have not or are not likely to provide adequate coverage, Micro-Injector®, foam generating equipment or similar machines can be used to provide a continuous coverage. Use drier foam inside wall voids to avoid any water damage or electrical short circuits. Refer to section entitled "Foam Application Use Directions".

### USE RESTRICTIONS

- Do not make outdoor applications during rain.
- Do not apply this product through any type of irrigation system.
- Do not water the treated area to the point of run-off.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways and patios except as a spot or Crack & Crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.
- All outdoor applications, if permitted elsewhere on this label, must be limited to spot or Crack & Crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label:
  1. Applications to soil or vegetation, as listed on this label, around structures;
  2. Applications to lawns, turf and other vegetation, as listed on this label;
  3. Applications to the side of a building, up to a maximum height of 3 ft above grade;
  4. Applications to underside of eaves, soffits, doors or windows permanently protected from rainfall by a covering, overhang, awning or other structure;
  5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed 1" in width;
  6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutter or surface waters, in order to control occasional invaders or aggregating pests.
- Do not apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies or aquatic habitat can occur, except as directed by this label.
- Do not apply water-based sprays of this product to conduits, motor housing, junction and switch boxes or other electrical equipment because of possible shock hazard. Do not spray where electrical short circuits might result, such as wall outlets, conduits, etc.
- Do not apply in aircraft cabins.
- Do not apply to humans, their clothing or bedding.
- Do not allow children or pets to contact treated surfaces until spray has dried.
- Do not use on household pets. Cover fish tanks prior to application.

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- Do not allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in and/or around structures being treated.
- Do not apply this product in patient rooms while occupied or in any rooms while occupied by the elderly or infirm.
- Do not apply to classrooms when in use.
- Avoid contamination of food, feedstuffs or water supply. Do not contaminate food preparation surfaces, kitchen utensils, dishes or feed storage containers. Any food/feed contact surfaces and cooking utensils in the treatment area should be covered during treatment or thoroughly cleaned before using.
- Do not apply this product to edible growing crops or stored raw agricultural commodities.

**MIXING INSTRUCTIONS**

Thoroughly clean spray equipment before using this product. Shake concentrate well before diluting. When diluting, first add approximately one-half of the water to the spray tank and then add the proper amount of this product. When emptying the bottles, triple rinse with water, shake well and add the rinsate to the spray tank. Add the rest of the water and agitate the sprayer thoroughly. Agitate sprayer occasionally during use to ensure even mixture. Shake or reagate sprayer if spraying is interrupted or if dilution is left in sprayer overnight. If spray screens are used, they should be 50 mesh or larger.

**SPRAY DILUTION CHART**

<u>Application Rate</u>	<u>Amount of Water</u>	<u>% of λ-cyhalothrin in Finished Spray</u>	<u>Area of Coverage (ft<sup>2</sup>)</u>
0.2 fl oz	1 gal	0.015%	800 – 1200 ft <sup>2</sup>
0.4 fl oz	1 gal	0.030%	800 – 1200 ft <sup>2</sup>
0.8 fl oz	1 gal	0.060%	800 – 1200 ft <sup>2</sup>

Use the higher rate for clean-outs, for longer residual control or for high insect infestations.

**MIXING CHART FOR MULTIPLE GALLONS**

<u>Gallons</u>	<u>% of λ-cyhalothrin in Finished Spray</u>		
	<u>0.015%</u>	<u>0.030%</u>	<u>0.060%</u>
1	0.2 fl. oz.	0.4 fl. oz.	0.8 fl. oz.
2	0.4 fl. oz.	0.8 fl. oz.	1.6 fl. oz.
5	1.0 fl. oz.	2.0 fl. oz.	4.0 fl. oz.

**VOID / CRACK & CREVICE® APPLICATION**

To treat insects harbored in voids and in cracks and crevices, apply with equipment designed for Crack & Crevice or void applications. Follow the manufacturer's recommendations for proper equipment set up and operating pressures. Place the tip of the applicator at or into the crack or crevice to be treated. Apply product in short bursts while keeping tip in position. Allow the air stream to push insecticide deep into voids. Application should be made in such a manner to limit dripping and run-off on structural surfaces and plants.

**FOAM APPLICATION USE DIRECTIONS:** This product can be converted to foam and the foam used to treat structural voids to control insect and arthropod pests in walls, under slabs or in other void areas. Apply as a dry foam (approximately 25:1). Fill void with foam so that all surfaces are contacted. Mix end-use dilution of this product with manufacturer's recommended volume of foaming agent. Use the recommended rate suspension converted to foam to achieve the desired foam expansion ratios. Verify before treatment that the foaming agent is compatible with this product.

**FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS**

Food handling establishments are defined as places other than private residences in which exposed food is held, processed, prepared or served. Food areas are areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) of food. Serving areas where food is exposed and the facility is in operation are also considered food areas.

Product applications in food areas of food handling establishments are limited to Crack & Crevice or spot treatment. Apply in small amounts directly into cracks and crevices, using equipment capable of delivering a pin stream of insecticide, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment and bases. Clean food contact surfaces and equipment with an effective cleaning compound and rinse with potable water before using.

Limit individual spot treatments to an area no larger than 20% of the treated surface. Individual spot treatments should not exceed 2 ft<sup>2</sup>. Take extreme care that the product is not introduced into the air. Avoid contamination of food and food processing surfaces.

**Application within Food Serving Areas (facilities where foods are served, such as dining rooms):** Do not apply when facility is in operation or foods are exposed. Apply as a Crack & Crevice or spot treatment to selective surfaces such as baseboards, under elements of construction and into cracks and crevices. Avoid treating surfaces likely to be contacted by food. Cover or remove food in the area being treated. Do not apply directly to food or allow applications to contaminate food.

APPLICATION OF THIS PRODUCT IN THE FOOD AREAS AND/OR FOOD SERVICE AREAS OF FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A CRACK & CREVICE OR SPOT TREATMENT IS NOT ALLOWED.

## INDOOR TREATMENTS

Apply as a Crack & Crevice residual product where insects may be hiding, living and breeding and/or for selected spot application. Retreat at 21 day intervals or as necessary to maintain control.

When using in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed, refer to the section entitled "Food/Feed Areas of Food Handling Establishments" for use directions. Non-food/feed areas are areas such as garbage rooms, restrooms, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

**CENTIPEDES, COCKROACHES, CRICKETS, DERMESTIDS, EARWIGS, FIREBRATS, MILLIPEDES, PSOCIDS, SILVERFISH, SOWBUGS AND SPIDERS:** Make spot treatment and/or Crack & Crevice injections into hiding places such as cracks and crevices, void areas, moist areas, openings around pipes and sinks and under refrigerators.

**FLIES:** Make spot applications of this product on surfaces where flies rest in the dark at night or frequent during the day, such as window frames, screens, trash cans, ceilings and upper wall surfaces.

**CARPET BEETLES (DERMESTIDS):** Treat along edges of carpet, under carpet edge, furniture, throw rugs and as a Crack & Crevice application in closets and other shelving where infested items are stored. Do not treat clothing with this product.

**BED BUGS:** Allow treated articles to dry thoroughly before use. Take bed apart. Treat joints and channels if hollow, such as square or round tubing, and see that the interior framework is treated. Treat mattresses, especially tufts, folds and edges. Cover mattresses with outer sheets before use. Also treat other areas where bed bugs may be harboring such as box springs, furniture and wall voids, and behind headboards, wall hangings, baseboards and crown moldings.

**TICKS:** Apply as a spot and/or Crack & Crevice treatment in infested and egg laying areas such as pet resting quarters, nearby cracks and crevices, behind baseboards, door and window frames. Replace pet's old bedding with clean fresh bedding after treatment. Do not treat pets with this product.

**ANTS:** Inject cracks, crevices and voids where ants may be traveling and/or harboring, including but not limited to, around doors, window frames, and other structural cracks, crevices and voids. Spot treatment of trails and feeding areas may also be made.

**STORED PRODUCT PESTS (exposed adult and immature stages):** Before storing products, treat warehouses, production facilities, storage areas, rail cars, truck beds and other areas where products are stored with this product. Apply as a spot and/or Crack & Crevice treatment to cracks, crevices and surfaces where pests have been seen or may have harborage. Apply as a spot and/or Crack & Crevice treatment in pantries and other areas where food may be stored in a home or other structures. This product may be used to treat grain storage facilities and other listed areas for stored product pest control. Cleaning areas prior to use of this product will increase levels of control. Any foodstuffs infested with pests should be removed and destroyed.

## INDOOR AND OUTDOOR TREATMENTS

**HIBERNATING STAGES OF BOXELDER BUGS, ELM LEAF BEETLES, CENTIPEDES, CLUSTER FLIES, CLOVER MITES, COCKROACHES, CRICKETS, DERMESTIDS, EARWIGS, FIREBRATS, MILLIPEDES, PSOCIDS, SILVERFISH, SOWBUGS AND SPIDERS:** Inject cracks, crevices and/or voids where these insects may be harboring or hibernating. Infested areas include, but are not limited to, cracks and crevices in weep holes, wall voids, around window and door frames, and under siding. Treat wall area around entry points on exterior where insects congregate.

**CARPENTER ANTS:** Make spot and/or Crack & Crevice applications to any trails, inside or outside around doors and windows, and other places where ants enter premises. Areas which may be treated include, but are not limited to, atriums, crawl spaces, ceilings, garages, soffits, wall voids, weep holes, and other void areas. Where possible, treat ant nest or infested wood directly.

**BEEES, WASPS AND YELLOWJACKETS:** As a preventative or remedial treatment to help prevent these insects from building nests or workers from congregating on structures, follow perimeter treatment directions under outdoor section of label. Pay particular attention to soffit and eave areas.

For treatment of a yellowjacket or wasp nest, liberally treat the nest, inside the nest for yellowjackets and the surrounding area. For treatment of nests inside wall voids, inject a sufficient quantity of product into the nest to treat the entire nest. More than one point of application maybe required. Most applications would not require more than 1/2 gallon of diluted material. Pay particular attention to what the water may contact such as electrical wiring. Do not use where there is a possibility of shock hazard.

THIS PRODUCT DOES NOT PROVIDE INSTANT KNOCKDOWN. The best time to treat is late in the day. The colony should be dead in 2 – 3 days. Depending on the situation, protective equipment for the applicator may be required (is advisable).

## WOOD DESTROYING INSECTS

**LOCALIZED TREATMENT OF WOOD-INFESTING INSECTS - Beetles and Borers (such as the following families): *Anobiidae*, *Bostrichidae*, *Buprestidae*, *Cerambycidae*, *Lyctidae*, *Oedemeridae*, *Sesiidae* and Termites:** Locate suspected infestation and/or insect tunnels and cavities. Drill pilot holes into insect tunnels, gallery and inaccessible closed voids. Drill holes 8 – 10" apart to ensure thorough coverage. Inject 5 – 10 seconds per hole. Do not contact electrical wiring, plumbing, etc.

**TERMITES:** To inhibit termite infestations, treat exposed tubing, cracks or cold joints in concrete or other structural interstices. Treat exposed surfaces to cover thoroughly but avoid excess run-off. This type of application is intended to be a supplemental treatment for control of drywood and above ground subterranean termites and other wood-infesting insects. It is not intended to be a substitute for soil

treatment or for extensive infestation of drywood or other wood-infesting insects. To treat for severe infestations or for treatments under slabs, in basements and buildings with insufficient crawlspace, use a registered termiticide.

### OUTDOOR TREATMENTS

**CONTROLS:** Ants, Boxelder Bugs, Carpenter Ants, Carpenter Bees, Carpet Beetles, Centipedes, Clover Mites, Cluster Flies, Cockroaches, Crickets, Dermestids, Earwigs, Elm Leaf Beetles, Fleas, Flies, Grasshoppers, Millipedes, Mosquitoes, Psocids, Scorpions, Silverfish, Sowbugs, Spiders and Ticks

Follow the instructions for outdoor applications under Use Restrictions. This product can be used as a residual treatment on outdoor surfaces and/or as a crack, crevice and void treatment of buildings, porches, window frames, eaves, patios, garages, garbage dumps and other areas where pests congregate or enter premises. Repeat treatment as necessary to maintain effectiveness, but not more than twice per week. Treatments must be at least 3 days apart.

This product can be used as a residual treatment to control pests in outdoor void areas such as meter boxes and manholes. Repeat treatment as necessary, but not more than twice per week. Treatments must be at least 3 days apart.

**PERIMETER TREATMENT:** To help prevent infestations of buildings, treat a band of soil 6 – 10 ft wide around and adjacent to the building. Also treat the building foundation to a height of 2 – 3 ft where pests are active and may find entrance. Treat other insect entry points such as doors, windows, under siding and eaves of structure. This product may be applied in compressed air, backpack or power spray equipment. Apply at 0.2 – 0.8 fl oz of concentrate per 1,000 ft<sup>2</sup> in a sufficient amount of water to adequately cover the area being treated. Apply in such a manner to limit dripping and run-off on structural surfaces.

#### SUGGESTED MIXING CHART FOR LARGER TANK SIZES

<u>Tank Size (Gallons)</u>	<u>Suggested Amount of Concentrate per Tank (fl oz.)</u>
15	0.8 – 3.2
25	1.0 – 4.0
50	2.0 – 8.0
100	4.0 – 16.0

**FLIES:** Treat outside surfaces of screens, doors, window frames or wherever flies enter. Also treat surfaces on porches, in garages and other places where insects light or congregate. Repeat as necessary. Treat normal fly resting areas such as ceilings, upper corners of the area, around windows and doors and other surfaces. Treat inside and outside surfaces of dumpsters and other trash holding containers. Treat trash storage areas. Treat so as to lightly moisten the target surface. For best results, begin treatments at the start of the fly season and repeat during periods of heavy fly activity. Treat no more than twice per week and at least 3 days apart.

**MOSQUITO CONTROL OUTDOORS:** To control adult mosquitoes, use handheld, back-pack or truck mounted misters or sprayers only. Not for use with truck mounted cold aerosol ULV sprayers, hand-held cold aerosol ULV sprayers or thermal fogging devices. Do not apply by aircraft. Do not apply through any kind of irrigation and/or lawn sprinkler systems. Use up to 150 gal of diluted spray per acre. Treat shrubbery, vegetation and other areas where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shorelines may be treated if applied as a wet spray. Direct application of this product to any body of water is prohibited.

**CARPENTER BEES:** Locate entrance holes. Treat galleries through entrance holes. Seal bee entrances after application.

**SCORPIONS:** Remove accumulations of lumber, firewood and other materials which serve as harborage sites. Before stacking firewood or lumber, apply this product as a residual spray to surfaces immediately below such materials. Band treatment may also be helpful in reducing pests immigrating from surrounding areas.

**CRAWLING INSECTS - including but not limited to Ants, Cockroaches, Crickets, Earwigs, Sowbugs, and Spiders:** For treatment of infestations of these insects on structures and in outdoor areas which are landscaped, planted, mulched or unmaintained. For ants, treat mounds and runways. Repeat applications as infestation warrants and as reinfestations occur. Apply this product to cracks and crevices where insects may enter premises, to surrounding areas and to areas where insects may congregate. Areas to be treated include, but are not limited to, weep holes, under siding, wall voids, soffits, around attic vents, cracks and crevices, openings around windows, doors and pipes. Treatment of infested fences and tree holes is permitted.

**FLEAS:** Treat infested areas.

### LAWN AND ORNAMENTAL PLANTS

**FOR USE INDOORS AND AT RESIDENTIAL OUTDOOR SITES ONLY:** Hobby Greenhouses, Interiorscapes, Landscapes, Lawns and Residential Lawns

Not for use in commercial greenhouses and nurseries. Not for use on plants/sod being grown for sale or other commercial use or for commercial seed production or for research purposes.

**KILLS:** Ants, Aphids, Armyworms, Bagworms, Bees, Beetles, Billbugs (adults), Boxelder Bugs, Caterpillars, Centipedes, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Earwigs, Firebrats, Flies, Fruitworms, Fungus Gnats, Fungus Gnat Larvae, Grasshoppers, Japanese Beetle (adults), Lace Bugs, Leafminers, Leafrollers, Loopers, Mealy Bugs, Millipedes, Mosquitoes, Pillbugs, Plant Bugs, Psylla, Scale Insects, Scorpions, Sod Webworms, Sowbugs, Spiders, Tent Caterpillars, Thrips, Ticks, Wasps and Yellowjackets

For trees, shrubs, foliage plants and flowers in outdoor landscaped areas (such as parks, recreational areas, athletic fields, institutional groups, etc.) and internal landscaped areas (such as in hotels, shopping malls, office buildings, etc.) where these plants are grown. This product also controls designated pests in home lawns and can also be used in areas adjacent to or at the edge of landscaped areas to control encroaching pests such as ticks. Apply specified rate, at lawn use dosage, to tall grass or weeds, under brush and trees or in areas of no maintenance. Follow all restrictions and precautions in other parts of this label.

Use of this product adjacent to water may affect aquatic organisms. To protect these organisms, do not apply this product within 25 ft of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

Do not make outdoor broadcast applications to turf and ornamentals when wind speed is 15 mph or greater.

In the state of New York, do not apply within 100 ft of coastal marshes or streams that drain into coastal marshes.

**ORNAMENTALS:** Treat upper and lower foliage surfaces of plants uniformly. Use 1.5 – 5.0 fl oz of this product per 100 gal of water.

**LAWNS (RESIDENTIAL SITES ONLY):** Use a coarse, low-pressure spray using suitable application equipment.

**SPECIAL NOTICE:** This product has demonstrated excellent plant safety; however, all varieties of the plants listed have not been tested. When treating large numbers of plants of a single variety, treat a few plants and observe for phytotoxicity prior to full scale application.

Direct treatment to some open blooms may cause petal drop.

**FOR USE INDOORS AND OUTDOORS ON:**

***Bedding Plants (including):*** Impatiens, Marigolds, Petunias, Geraniums, Garden Mums, Verbena, New Guinea Impatiens and Dahlia

***Cut Flowers (including):*** Roses, Chrysanthemums, Carnations, Snapdragons and Orchids

***Flowering Hanging Baskets (including):*** Fuchsia and Lantana

***Foliage (including):*** Boston Fern, Dracaena, Ficus, Schefflera and Philodendron

***Potted Flowering Plants (including):*** Poinsettia, Chrysanthemums, Florist's Azaleas, Lilies, African Violets, Geraniums, Hibiscus, Kalanchoes, Begonias, Gloxinia, Cyclamen, Cineraria, Calceolaria and Exacum

***Trees & Shrubs (including):*** Azalea, Barberry, Cotoneaster, Euonymus, Holly, Ivy, Juniper, Oak, Pine, Rhododendron, Roses, Spiraea, Spruce, Virburnum and Yew

Do not treat vegetable gardens.

**USE IN AND AROUND LIVESTOCK HOUSING**

MAY BE USED IN AND ON OUTSIDE SURFACES OF OTHER BUILDINGS. Follow the instructions for outdoor applications under Use Restrictions. Do not apply to lactating or food animals. Do not contaminate milk, food or drinking water. Remove all animals prior to applying to housing. Do not apply or allow insecticide to drift onto animals. Do not allow animals to enter treated areas until surfaces are dry.

**HOUSE FLIES AND STABLE FLIES:** For residual control of these pests on outdoor surfaces and in animal areas such as dog kennels, hog barns, horse barns, empty chicken houses, rabbit hutches, dairy areas, milkrooms, calf hutches, calving pens and parlors. Treat normal fly resting areas such as ceilings, screens, upper corners of the area, around windows and doors, light fixtures and other surfaces known to attract flies. Apply as a coarse, wet spray. Apply at 0.015% – 0.060% finished spray using approximately 1 gal/1,000 ft<sup>2</sup> for best results, initiate treatments at the beginning of the fly season and repeat during periods of heavy fly activity. Treat no more than twice per week and at least 3 days apart.

**LITTER BEETLES (Darkling, Hide and Carrion Beetles):** To control adult litter beetles, apply product to walls and floors at cleanout, before reintroduction of animals. This will suppress beetles that escaped earlier treatment and will help delay onset of future infestations. Pay attention to areas where beetles frequently occur, such as walls, supports, cages, stalls, and around feeders. Apply at 0.03% – 0.06% finished spray. Also see **Livestock / Poultry Housing Structures and Pet Kennels** below.

**PERIMETER TREATMENT:** For control of other pests and to help prevent infestations of buildings, treat a band of soil 6 – 10 ft wide around and adjacent to the building. Also treat the building foundation and sides where pests are active and may find entrance. Treat other insect entry points such as doors, windows, under siding and eaves of structure. This product may be applied in compressed air, backpack or power spray equipment. Apply at 0.015% – 0.060% finished spray, using an amount of water sufficient to adequately cover the area being treated, yet limit dripping and run-off on structural surfaces and plants.

**LIVESTOCK / POULTRY HOUSING STRUCTURES AND PET KENNELS:** Apply as a general surface (including directed sprays) and/or Crack & Crevice treatment. Control is enhanced when interior and exterior perimeter applications are made in and around the livestock, poultry and pet housing structures. Normal cleaning practices of the structure also must be followed along with applications of LX417 Lambda-Cyhalothrin to effectively control the listed crawling and flying insect pests.

For unoccupied areas of livestock barns or housing structures, apply to floors, vertical and overhead surfaces where crawling or flying insect pests are or may be present. Cover feeders, waterers and feed carts before application to prevent contamination. Do not apply to milk rooms or feed rooms. Pay attention to animal areas including stanchions, pipes, windows, doors and areas where insect pests hide or congregate. Exterior applications to south facing walls and foundation perimeters can help prevent interior infestations of flying and crawling insect pests.

For poultry houses, apply to floor area (birds grown on litter) or to walls, posts and cage framing (birds grown in cages). Also apply into cracks and crevices around insulation. Reapply after each growout or sanitization procedure. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply in a uniform band 1 – 3 ft up and 2 – 6 ft out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

Do not make interior applications of LX417 Lambda-Cyhalothrin in areas of facility where animals other than cattle or calves are present. Allow treated surfaces to completely dry before restocking the facility.

Do not make applications to any animal feedstuffs, water or watering equipment.

Do not contaminate any animal food, feed or water in and around livestock, poultry or pet housing when making applications.

## STORAGE AND DISPOSAL

Nonrefillable container. Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides or fertilizers. Do not store above 122°F for extended periods of time. Preferred storage is above 32°F. Storage below 32°F may result in solidification. If warmed to above 32°F, product will return to original form. Freezing does not adversely affect this product. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site in accordance with the label directions or at an approved waste disposal facility.

**CONTAINER DISPOSAL (≤ 5 gal):** Empty container by using the product according to the label directions. Do not reuse or refill this container! Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure 2 more times. Place triple rinsed, empty container in trash or offer for recycling if available. If container is partly filled or to dispose of stored rinsate, call your local solid waste agency for disposal instructions. **NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN!**

**CONTAINER DISPOSAL (>5 gal):** Empty container by using the product according to the label directions. Do not reuse or refill this container! Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least 1 complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure 2 more times.

Offer triple rinsed, empty containers for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## CONDITIONS OF SALE AND WARRANTY

Follow the **Directions for Use**. It is impossible to eliminate all risks inherently associated with use of this product, and therefore all such risk shall be assumed by the Buyer. Whitmire warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use**, subject to the inherent risks, referred to above. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) WHITMIRE MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER'S EXCLUSIVE REMEDY AND WHITMIRE'S AND SELLER'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) WHITMIRE AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. Whitmire and the Seller offer this product, and the Buyer accepts it, subject to these **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of Whitmire.

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