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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

MAY - 6 2010

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Control Solutions, Inc. c/o Joe Blake 5903 Genoa-Red Bluff Road Pasadena, TX 77507-1041

Subject: Application to Amend 53883-261 CSI Lambda 9.7 CS EPA Reg. No. 53883-261 Your Submission Dated February 4, 2010 Decision No: 427949

Dear Mr. Blake:

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

- Submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data, and submit acceptable responses required for reregistration of your product under FIFRA section 4.
- 2. On page 4 of the label in the Directions for Use section under the "Bees, Flies, Mosquitoes, and Wasps" paragraph, change the last sentence to read as follows:

"Allow 2 - 3 days for the colony to die and repeat after 21 days, if necessary."

- 3. On page 4 of the label in the Directions for Use section under the "Boxelder Bugs, Centipedes, Millipedes, Pillbugs, and Sowbugs" paragraph, delete the word "barrier" from the last sentence.
- 4. To clarify some statements on page 6 of the label in the second paragraph under "Livestock/Poultry Housing Structures and Pet Kennels," replace the first sentence with the following sentence:

"With the exception of cattle and calves that may be present, only apply Lambda 9.7 CS [Cyzmic CS] to livestock barns or housing structures when unoccupied by animals."

On page 7 of the label in the first sentence under the "Note" paragraph, correct the word "base" to "based." (Water - base)

- 6. On page 11 of the label, remove Mole crickets and the associated application rate (i.e., 14 mL/1,000 ft² or 20 fl. oz/A) for Mole Crickets (mature adults) and Chinch Bugs in the table for Rates for Lawn and Turfgrass Pests, because this application rate for these pests is not listed on the me-too label.
- 7. On page 11 of the label, move Chinch Bugs to the row containing the 3.4 7 mL/1,000 ft² group of pests.
- 8. On page 12 of the label, remove the 20 oz./A dilution rate from the table.
- 9. As stated in the EPA's Notice of Registration, dated December 23, 2009, you must submit data on one year storage stability testing and corrosion characteristics studies (OPPTS Guidelines 830.6317 and 830.6320, respectively) by or before December 23, 2010.

If you have any questions regarding this action, please contact Rosanna Louie at (703) 308-0037.

Sincerely. 11arez

Product Manager 13, Insecticide Branch Registration Division (7505P)

Enclosure:

- CSI Lambda 9.7 CS label, Stamped Accepted with Comments

CSI LAMBDA 9.7 CS [alt name CSI Karis 9.7 CS] [alt name CYZMIC CS] Controlled Release Insecticide

MAY - 6 2010 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 53 803-261

ACCEPTED with COMMENTS In EPA Letter Dated:

(Contains Sigma Technology) [**OR** (With CapVantageTM Technology)] [*Optional Marketing Language*]

For use in, on and around buildings and structures for the control of listed pest, including on lawns, ornamental trees and shrubs around residential, institutional, public, commercial, agricultural and industrial buildings; and parks, recreational areas and athletic fields.

GROUP 3 INSECTICIDE

Active Ingredient:

Lambda-cyhalothrin¹:

[1 a(S*),3 a(Z)]-(±)-cyano-(3-phenoxyphenyl)methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-
2,2-dimethylcyclopropanecarboxylate
Other Ingredients:
Total:

¹Synthetic pyrethroid

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet.

	First Aid
Have the product treatment.	t container or label with you when calling a poison control center or doctor, or going for
lf 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 in eyes:	 Hold eye open and rinse slowly and gently with water 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed:	 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.
lf inhaled:	 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 poison control center or doctor for further treatment advice.
Have the product treatment.	t container or label with you when calling a poison control center or doctor, or going for
FOR CHEMICAL E	EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

Net Contents ____

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Environmental Hazards

This product is extremely toxic to fish and other aquatic organisms. Do not contaminate water when cleaning equipment or disposing of equipment wash water. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label. When making applications, care should be used to avoid household pets, particularly fish and reptile pets.

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 And Chemical Hazards

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

General Information

LAMBDA 9.7 CS [CYZMIC CS] is a unique formulation utilizing Sigma Technology [CapVantageTM] which is a proprietary blend of ingredients for use with the active ingredient Lambda-cyhalothrin.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

IMPORTANT: Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on lawns or grounds.

This product is RESTRICTED for use in New York State.

PERIMETER PEST CONTROL

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LAMBDA 9.7 CS [CYZMIC CS] is for use as a general surface (nonfood/nonfeed areas), crack and crevice, or spot treatment in, on, and around buildings and structures and their immediate surroundings, and on modes of transport. Areas of use include, industrial buildings, houses, patios, porches, closets, furniture, apartment buildings, mobile homes, laboratories, buses, greenhouses (non-commercial), stores, factories, warehouses, wineries, vessels, railcars, trucks, trailers, aircraft (cargo and other non-cabin areas only), schools, nursing homes, hospitals, mausoleums, restaurants, hotels, correctional facilities, livestock/poultry housing, pet kennels, food granaries, food grain mills and food manufacturing, processing, and servicing establishments.

Nonfood/nonfeed areas of food/feed handling establishments include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

For indoor applications, LAMBDA 9.7 CS [CYZMIC CS] can be reapplied at 21-day intervals if necessary.

Mixing Instructions

Dilute **LAMBDA 9.7 CS [CYZMIC CS]** with water for application using hand-held or power-operated application equipment as a coarse spray for crack and crevice or spot and general surface (non-food/ nonfeed areas only) treatments. Application equipment that delivers low volume treatments, such as the Micro-Injector[®] or Actisol[®] applicator, may also be used to make crack and crevice or spot and general surface treatments. Fill applicator tank with the desired volume of water and add

LAMBDA 9.7 CS [CYZMIC CS]. Close and shake before use in order to ensure proper mixing. Shake or reagitate applicator tank before use if application is interrupted. Mix only amount of treatment volume as required. LAMBDA 9.7 CS [CYZMIC CS] may be applied by using a paintbrush or other porous applicator attached to a handle as a general surface treatment

Tank Mixing

LAMBDA 9.7 CS [CYZMIC CS] may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, **LAMBDA 9.7 CS [CYZMIC CS]** should be added last. If mixed with EC formulations, use within 24 hours. Fill tank to desired volume and continue to agitate while making applications.

LAMBDA 9.7 CS [CYZMIC CS] may be tank mixed with an Insect Growth Regulator (IGR). Observe all restrictions and precautions which appear on the labels of these products.

Foam Applications

LAMBDA 9.7 CS [CYZMIC CS] may be converted to a foam and the foam used to treat structural voids to control or prevent pests including ants, bees, termites (above ground only), wasps, or other arthropods harboring in walls, under slabs, or in other void areas.

Pests	Dilution Rate (Concentration of Al)	SPECIFIC USE DIRECTIONS
Ants	0.2 fl. oz.	Ants: Apply to any trails around doors and windows and other
Bedbugs (adult)	(6 mL)	places where ants may be found. Locate and treat nests. Where
Bees	to	ants are trailing inside, apply as a residual surface treatment to
Boxelder Bugs	0.4 fl. oz.	active areas such as baseboards, corners, around pipes, in and
Carpenter Bees	(12 mL) per	behind cabinets, behind and under refrigerators, sinks, furnaces
Carpet Beetles	gallon of water	and stoves, cracks and crevices. When combining baits and
Centipedes		residual surface insecticides, apply surface insecticides in cracks
Cigarette Beetles	(0.015-0.03%	and crevices, along baseboards, and infested surfaces and
Clover Mites	AI)	outside barrier treatments. Use baits in other areas that are
Cockroaches ¹		untreated by residual insecticides; also see Outdoor Surfaces
Confused Flour Beetles		Use.
Crickets		
Earwigs		Bedbugs: Clean floors and surfaces by vacuuming. Apply as a
Firebrats		coarse, low-pressure spray to harborage areas including crevices,
Fleas ²		baseboards, loose plaster, behind bed frames and headboards,
Flies		beneath beds and furniture, and to bedsprings and bed frames.
Lesser Grain Borers		Do not apply to furniture surfaces or mattresses where people will
Millipedes		be laying or sitting. Infested bedding should not be treated, but
Mosquitoes		should be removed, placed in sealed plastic bags, and taken for
Red Flour Beetles		laundering and drying at high temperatures.
Rice Weevils		
Saw-toothed Grain Beetles		Cockroaches, Crickets, Earwigs, Firebrats, Silverfish, and
Silverfish		Spiders: Apply as a coarse, low pressure spray to areas where
Sowbugs		these pests hide, such as baseboards, corners, storage areas,
Spiders		closets, around water pipes, doors and windows, attics and eaves,
Ticks		cabinets, behind and under refrigerators, sinks, furnaces and
Wasps		stoves, the underside of shelves, drawers and similar areas. Pay
Cockroaches ¹	0.8 fl. oz.	particular attention to cracks and crevices; also see Outdoor

RATES FOR PESTS (HAND APPLICATION EQUIPMENT)

Crickets ⁶	(24 mL) per	Surfaces Use.
Flies ⁵	gallon of water	
Litter Beetles ³ (adults/ immature stages such as	(0.06% AI)	Bees, Flies, Mosquitoes, and Wasps: Apply directly to walls, ceilings, window screens, and other resting areas as a residual
Darkling, Hide, and Carrion)		surface treatment. May be used inside residential buildings as well
Mosquitoes ⁴		as in and around carports, garages, and storage sheds; also see Outdoor Surfaces Use. Use caution when treating nests of
Pillbugs		stinging insects as LAMBDA 9.7 CS [CYZMIC CS] does not
Scorpions		provide instant knockdown. Protective equipment for the
Spiders ⁶		applicator may be required. Treat bee, wasp and hornet nests late
Spider Mites (Two-spotted,		in the day when most insects will be present. Allow 2-3 days fo
Spruce)		the colony to die and repeat if necessary.
Ticks ⁶		
		Carpenter Bees: Apply coarse spray to thoroughly wet wood
		surfaces where bees have been previously active or to provide
		protection against further damage. Apply early in the spring to
		prevent bees from invading wood. When bees have infested
		wood, surface applications can help control embedded larvae and
,		bees that emerge from the wood.
		Pantry Pests (i.e., Carpet beetle, Cigarette beetle, Confused flour
		beetle, Lesser grain borer, Red flour beetle, Rice weevil, and Saw-
		toothed grain beetle): Apply to cupboards, shelving, and storage
		areas. Remove all utensils, uncovered foodstuffs (or any having
		original package opened), and shelf paper before making
		application. Allow treated surfaces to dry and cover shelves with
		clean paper before replacing any utensils, foodstuff, or other
		items. Any foodstuff accidentally contaminated with treatment
		solution should be destroyed.
		Boxelder Bugs, Centipedes, Millipedes, Pillbugs, and
		Sowbugs: Apply around doors and windows and other places
		where these pests may be found or where they may enter
		premises. Treat baseboards, storage areas, and other locations.
		Apply barrier treatments to prevent infestation as described below;
		also see Outdoor Surfaces Use.
		Fleas and Ticks: To control nuisance fleas and ticks (e.g. dog
		ticks) apply to kennels, yards, runs, and other areas where pets
		may frequent. To control ticks, apply using a coarse fan spray to
		vegetation brush, branches, rock walls, and other areas near
		habitation where ticks may harbor or frequent. Treat entire area
		rather than making spot treatments, and retreat as necessary to
		maintain control. Do not apply to pasture or cropland, and do not
		allow animals and people access to treated areas until the deposit
		has dried. Applications can begin in the spring and can continue
		until frost to control both larvae and adult ticks; also see Outdoor Surfaces Use .
		Cluster Flies: Apply in late summer or early fall before flies are
		observed alighting on surfaces. Apply thoroughly on siding, under
		eaves, and around windows and doors, paying particular attention
		to south-facing surfaces, but do not allow runoff to occur. Heavy
		precipitation prior to frost may require retreatments to maintain
		protection. In winter and spring when flies become active and are
		emerging, interior crack and crevice and void treatments can help
		reduce the infestation, along with ULV or general surface application in infested attics or unoccupied lofts.
		Litter Beetles (Darkling, Hide, and Carrion Beetles) and Flies In Animal Housing (Such As Poultry Houses): To control adult
		litter beetles, apply LAMBDA 9.7 CS [CYZMIC CS] to walls and

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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. To help control flies, apply a directed application to horizontal surfaces and overhead areas and allow to dry before reintroduction of animals; also see Livestock/Poultry Housing Structures and Pet Kennels. LAMBDA 9.7 CS [CYZMIC CS] may be used on termites to Termites (above ground 0.2 fl. oz. only) (6 mL) kill workers or winged reproductive forms which may be to present in treated channels at the time of treatment. These 0.4 fl. oz. applications are not a substitute for mechanical alteration to (12 mL) per control subterranean termites, soil treatment labeled gallon of water termiticides, or fumigation for extensive infestation of drywood termites or other wood-infesting insects, but are (0.015-0.03%) considered supplemental. This product is not AI) recommended as sole protection against termites. For active termite infestations, get a professional inspection. For cockroaches, the recommended rate for maintenance treatments is 0.015% and for clean-out treatments is 0.03%. For control of severe infestations, use 0.06% rate.

²For outdoor use only and use 0.03% rate.

³For control of LIGHT beetle infestations, use 0.03% rate.

⁴For residual control, use 0.06% rate.

⁵In all states except California, rates for flies may be increased to 0.06% when environmental conditions are severe and/or populations are high.

⁶For clean-out/severe infestations, use 0.06% rate.

Application Within Food Handling Establishments

For places other than private residences in which exposed food is held, processed, prepared, or served including, but not limited to, areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing foods, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups), and serving areas.

Use as a crack and crevice or spot treatment in and around both food and nonfood areas. 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. Food contact surfaces and equipment should be cleaned with an effective cleaning compound and rinsed with potable water before using.

Limit individual spot treatments to an area no larger than 20% of the treated surface. Individual spot treatments may not exceed two sq. ft. 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

For facilities where foods are served, such as dining rooms. Apply as a crack and 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. (Do not apply when facility is in operation or foods are exposed.) Food must be covered or removed in area being treated. Do not apply directly to food or allow applications to contaminate food.

NOTE: Application of this product in the Food Areas and/or Food Serving Areas of Food Handling Establishments other than as a spot and/or crack and crevice treatment is not permitted. Use of application equipment such as the Micro-Injector or Actisol applicator in food areas should be limited to crack and crevice treatment only.

Livestock/Poultry Housing Structures and Pet Kennels

Apply as a general surface (including directed sprays) and/or crack and crevice treatment. Make interior and exterior perimeter applications in and around the livestock, poultry, and pet housing structures. Normal cleaning of the structure must also be done along with applications of **LAMBDA 9.7 CS [CYZMIC CS]** to effectively control the crawling and flying insect pests listed in the table.

LAMBDA 9.7 CS [CYZMIC CS] may be used in unoccupied areas, except cattle and calves, of livestock barns or housing structures. Apply to floors, vertical, and overhead surfaces where crawling or flying insect pests are or may be present. Feeders, waterers, and feed carts should be covered before application to prevent contamination. Do not apply to milk rooms or feed rooms. Pay attention to animal areas including stanchions, pipes, windows and 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). Application should also be made 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.

RESTRICTIONS:

• DO NOT make applications of LAMBDA 9.7 CS [CYZMIC CS] in areas where animals, except cattle and calves, are present in the facility. 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.

Outdoor Surfaces Use

For control of ants, bees, centipedes, cockroaches, crickets, fleas, flies, millipedes, mosquitoes, scorpions, sowbugs, pillbugs, spiders, termites* (above ground only), ticks, wasps, and other similar perimeter arthropod pests.

Apply with either hand or power application equipment as a residual treatment to ornamental plants next to foundations of buildings and to surfaces of buildings, porches, screens, window frames, eaves, patios, garages, refuse dumps, and other similar areas where these insect pests are active. Remove all exposed food and cooking utensils. Cover all food handling surfaces or wash thoroughly after treatment and before use. Do not use on edible crops.

Perimeter Treatments

Apply a continual band of insecticide around building foundations and around windows, doors, service line entrances, eaves, vents, and other areas to reduce the potential for entry by crawling pests. Before application, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation. Apply the band up to 10 ft. wide around the structure (or according to state regulations governing commercial pest control) and upwards along the foundation to 3 ft. and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active.

Amount of concentrate is dependent upon pest species (see pest table and comments), infestation levels, and service interval desired.

Rate Table For Perimeter Applications

Application Rate:	
ADDIICATION Rate:	

FI. oz. (mL) of LAMBDA 9.7 CS [CYZMIC CS]	Gals. of Water ¹	Area of Coverage (sq. ft.)
0.2 fl. oz. (6mL)	1-5 gals.	800-1600 sq. ft
0.4 fl. oz. (12 mL)	1-5 gals.	800-1600 sq. ft.
0.8 fl. oz. (24 mL)	1-5 gals.	800-1600 sq. ft.
¹ Application volume may be great vegetative or landscaping mater		

Examples Of Dilutions For Perimeter Applications

	Application	FI. oz. (mL) of LAMBDA 9.7 CS [CYZMIC CS] to Dilute in Water According to Spray Tank Volumes			
Application Volume Gals. of Solution per 1,000 sq. ft.	Rate FI. oz. (mL) of LAMBDA 9.7 CS [CYZMIC CS] per	5 gals.	10 gals.	50 gals.	
	1,000 sq. ft.				
1 gal. per 1,000 sq. ft.	0.2 fl. oz. (6mL) 0.4 fl. oz. (12 mL) 0.8 fl. oz. (24 mL)	1 fl. oz. (30 mL)\ 2 fl. oz. (60 mL) 4 fl. oz. (120 mL)	2 fl. oz. (60 mL) 4 fl. oz. (120 mL) 8 fl. oz. (240 mL)	10 fl. oz. (300 mL) 20 fl. oz. (600 mL) 40 fl. oz. (1200 mL)	
2 gal. per 1,000 sq. ft.	0.2 fl. oz. (6mL) 0.4 fl. oz. (12 mL) 0.8 fl. oz. (24 mL)	0.5 fl. oz. (15 mL) 1 fl. oz. (30 mL) 2 fl. oz. (60 mL)	1 fl. oz. (30 mL) 2 fl. oz. (60 mL) 4 fl. oz. (120 mL)	5 fl. oz. (150 mL) 10 fl. oz. (300 mL) 20 fl. oz. (600 mL)	
5 gal. per 1,000 sq. ft.	0.2 fl. oz. (6mL) 0.4 fl. oz. (12 mL) 0.8 fl. oz. (24 mL)	0.2 fl. oz. (6 mL) 0.4 fl. oz. (12 mL) 0.8 fl. oz. (24 mL)	0.4 fl. oz. (12 mL) 0.8 fl. oz. (24 mL) 1.6 fl. oz. (48 mL)	2 fl. oz. (60 mL) 4 fl. oz. (120 mL) 8 fl. oz. (240 mL)	

Example calculation: to apply the mid-rate of LAMBDA 9.7 CS [CYZMIC CS] at a volume of 5 gal./1000 sq. ft., mix 4 oz of concentrate in 50 gallons of water. The percent active ingredient in the finished Lamda 9.7 CS dilution can be calculated with the following formula:

mL needed to add times 9.7% active in concentrate, divided by gal. finished dilution times 3785 mL/gal. = % active in dilution. (Example: 4 oz. in 50 gal. is 120 mL times 9.7 equals 1164, and 50 gal. times 3785 is 189250. Dividing 1164 by 189250 equals 0.006% active in the tank dilution.)

NOTE: Do not use water base sprays of **LAMBDA 9.7 CS [CYZMIC CS]** in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. Thoroughly wash out sprayer and screen with water and detergent before using **LAMBDA 9.7 CS [CYZMIC CS]**. **LAMBDA 9.7 CS [CYZMIC CS]** has not stained or caused damage to painted or varnished surfaces, plastics, fabrics, or other surfaces where water applied alone causes no damage. However, treat a small area and allow to dry, to determine whether staining will occur.

LET TREATED SURFACES DRY BEFORE ALLOWING HUMANS AND PETS TO CONTACT SURFACES.

RESTRICTIONS:

- DO NOT use this product with oil.
- DO NOT apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.
- DO NOT apply to institutions (including libraries, sports facilities, etc.,) in the immediate area when occupants are present.

- DO NOT apply to classrooms when in use.
- DO NOT apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
- DO NOT allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in/around structures being treated.

LAWNS/TURFGRASS AND ORNAMENTALS

LAMBDA 9.7 CS [CYZMIC CS] may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential landscaped areas and non-residential landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (Including trees, shrubs, flowers, evergreens, foliage plants and groundcovers). Application rates for turf and ornamentals are lower than structural pest control rates, reflecting that treatment intervals are more frequent.

Applicators must ensure that they are certified in the necessary pesticide certification categories to allow application of **LAMBDA 9.7 CS [CYZMIC CS]** away from structures, such as to turf and ornamental plantings. Structural pest control certification categories may limit the distance away from structures for pesticide application. Consult your state extension office or pesticide regulatory officials for further information.

IMPORTANT: Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

RESTRICTIONS:

- DO NOT apply this product through any type of irrigation system.
- DO NOT apply this product to edible crops.
- DO NOT apply this product by aerial application.
- Use of this pesticide adjacent to water may affect aquatic organisms. To protect these organisms, **DO NOT**apply this pesticide 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.

Mixing Instructions

LAMBDA 9.7 CS [CYZMIC CS] is to be mixed with water and may be used in all types of standard application equipment. Fill applicator tank with the desired volume of water and add LAMBDA 9.7 CS [CYZMIC CS]. It is suggested that the water be 5 - 7 pH. Adjust water pH with a buffering agent if necessary. Slowly add LAMBDA 9.7 CS [CYZMIC CS] to applicator tank water with maximum agitation. Close and shake or reagitate applicator tank before use if application is interrupted. Make up only amount of treatment volume as required.

Tank Mixing

LAMBDA 9.7 CS [CYZMIC CS] may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, LAMBDA 9.7 CS [CYZMIC CS] should be added last. Fill tank to desired volume and continue to agitate while making applications. If mixed with EC formulations, use within 24 hours.

Observe all restrictions and precautions which appear on the labels of these products.

INSECT CONTROL on ORNAMENTAL PLANTS

LAMBDA 9.7 CS [CYZMIC CS] is for use to control the pests listed in the table below in such areas as residential landscaped areas and landscaped areas around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers).

NOTE: While phytotoxicity testing has been carried out on a wide range of ornamental plants under various environmental conditions, and no phytotoxicity has been observed, certain cultivars may be sensitive to the final spray solution.

It is advised to prespray a selection of ornamental plants and observe them for 7-10 days prior to treating large areas if local use experience is unavailable.

RESTRICTIONS:

• DO NOT apply more than 0.36 lbs. of the a.i. (52.4 fl. ozs. of concentrate) per acre per year.

Pest	Amount Of	Application Instructions
Ants (Including Imported fire	[CYZMIC CS] 1.5 - 5 fl. oz. per	Application to ornamentals should be started
Ants)	100 gals.	prior to the establishment of high insect pest
Armyworms	, ee gale.	populations.
Azalea caterpillars	or	
Aphids		Apply at 7-day intervals if retreatment is
Bagworms	44 - 148 mL per	necessary. Limit more frequent treatment to
Black vine weevils (adult)	100 gals.	spot treatments.
Boxelder bugs	, ee guie.	
Budworms		Good spray coverage is necessary to provide
California oakworms		the most effective level of control. Addition of a
Cankerworms		spreader-sticker at recommended rates may
Cockroaches		enhance the control of insects on certain species
Crickets		of ornamentals having waxy, hard to wet foliage.
Cutworms		5 ,, 5
Eastern tent caterpillars		For spot treatments use 0.5 fl. oz. LAMBDA 9.7
Eim leaf beetles		CS [CYZMIC CS] per 1 - 2.5 gals. of water.
European sawflies		
Fall webworms		Consult your state university or local
Flea beetles		Cooperative Extension Service office for specific
Forest tent caterpillars		pest control application timing in your area.
Gypsy moth larvae		
Japanese beetles (adults)		Scale: Thoroughly cover the plant with LAMBDA
June beetles (adults)		9.7 CS [CYZMIC CS] spray, including trunks,
Lace bugs		stems, twigs, and foliage for control of scale
Leaf-feeding caterpillars		insects (crawler stage).
Leafhoppers		
Leafminers (adults)		Bagworm: Apply LAMBDA 9.7 CS [CYZMIC
Leaf rollers		CS] when bagworm larvae begin to hatch. Spray
Leaf skeletonizers		directly on the larvae. Application is the most
Midges		effective when the larvae are young.
Mosquitoes		
Oleander moth larvae		
Pillbugs		
Pine sawflies		
Pine shoot beetles		
Pinetip moths		

TANK DILUTION RATES FOR ORNAMENTAL PESTS

Plant bugs	
Root weevils	
Sawflies	
Scale insects (crawlers)	
Spiders	
Spittlebugs	
Striped beetles	
Striped oakworms	
Thrips	
Tip moths	
Tussock moth larvae	
Wasps	
Broadmites	3 - 5 fl. oz. per
Brown softscales	100 gals
California redscales (crawlers)	
Clover mites	or
Mealybugs	
Pineneedlescales (crawlers)	88 -148 mL per
Spider mites	100 gals.
Whiteflies	

LAMBDA 9.7 CS [CYZMIC CS] Mixing Chart for Ornamental Insect Pest Control

Rate of LAMBDA 9.7 CS [CYZMIC CS]	25 Gals.	50 Gals.	100 Gals.	200 Gals	300 Gals.
1.5 oz.1	0.4 oz.	0.8 oz.	1.5 oz.	3.0 oz.	4.5 oz.
3 oz. ²	0.8 oz.	1.5 oz.	3.0 oz.	6.0 oz.	9.0 oz.
5 oz. ³	1.3 oz.	2.5 oz.	5.0 oz.	10.0 oz.	15.0 oz.
² Equivalent to	7 mL per 1,000 s	q. ft. (10 oz. per	acre) when appl acre) when appli er acre) when app	ed at 8 gal. per 1	,000 sq. ft.

(LAMBDA 9.7 CS [CYZMIC CS] to add per spray tank)

LAWN/TURFGRASS INSECT PEST CONTROL

LAMBDA 9.7 CS [CYZMIC CS] is for use to control the pests listed in the table below around such areas as residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

RESTRICTIONS:

- KEEP CHILDREN AND PETS OFF TREATED AREAS UNTIL SPRAY HAS DRIED FOLLOWING APPLICATION.
- **DO NOT** apply when turfgrass is waterlogged or when soils are saturated with water (i.e. will not accept irrigation).
- DO NOT apply more than 0.36 lbs. of a.i. (52.4 fl. oz. of concentrate) per acre per year.

RATES FOR LAWN AND TURFGRASS PESTS

Pest	Amount Of LAMBDA 9.7 CS [CYZMIC CS]*	Application Instructions
Ants (Including Imported Fire	3.4 - 7 mL per	Application to turf should be started prior to the

Ants)	1,000 sq. ft.	establishment of high insect pest populations and
Armyworms		significant turf damage. Make reapplications as
Centipedes	or	necessary to keep pest populations under control,
Crickets	U1	using higher rates as pest pressure increases.
Cutworms	5 -10 fl. oz. per	using higher rates as pest pressure increases.
Earwigs	acre	Apply at 7-day intervals if retreatment is necessary.
Fleas (adult)	acre	More frequent treatments should be limited to
Grasshoppers		
		spot treatments.
Japanese beetles (adult)		
Millipedes		For spot treatments, use 0.5 fl. oz. of LAMBDA
Mites		9.7 CS [CYZMIC CS] per 1 - 2.5 gals. of water.
Mosquitoes (adult)		
Pillbugs		Surface Insect Control (armyworm, cutworms,
Sod webworms		fleas, etc.): Apply LAMBDA 9.7 CS [CYZMIC CS]
Sow bugs		at recommended rates in 2 - 5 gals. of water per
Ticks (including species which		1,000 sq. ft. The use of a spreader-sticker may be
transmit Lyme disease)		useful if high rainfall amounts are forecast,
Bluegrass billbugs (adult)	7 ML per 1,000	otherwise the addition of adjuvants is not
Black turfgrass	sq. ft	necessary under normal conditions for surface
ataenius (adult)		insect control in turf. Delay watering or mowing for
Chiggers	or	12 - 24 hours to control surface-feeding insect
Fleas (adult)		pests.
Grubs (suppression)	10 fl. oz. per acre	
Hyperodes weevils (adult)	•••••	Thatch Inhabiting Insect Control (chinch bugs,
Mole crickets		billbugs, etc.): Apply LAMBDA 9.7 CS [CYZMIC
(nymphs and young adults)		CS] at recommended rates in 2 - 10 gals. of water
Mole Crickets' (mature adults)	14 mL per 1,000	per 1,000 sq. ft. The use of a nonionic wetting
Chinch Bugs ¹	sq. ft.	agent, penetrant or similar adjuvant is
onnion Bugs	5 4 . it.	recommended at label rates. Lightly irrigate after
	or	application with up to 1/2 inch of water to move the
	0	LAMBDA 9.7 CS [CYZMIC CS] into the thatch
	20 fl og nor ogra	layer. If irrigation is not available, then use high
	20 fl. oz. per acre	water application rates.
		Subsurface Insect Control (mole crickets,
		grubs, etc.): Apply LAMBDA 9.7 CS [CYZMIC
		CS] at recommended rates in 4 - 10 gals. of water
		per 1,000 sq. ft. The use of a nonionic wetting
		agent, penetrant or similar adjuvant is strongly
		recommended following label rates. Use the
		highest water application rates possible with your
	,	sprayer. Apply LAMBDA 9.7 CS [CYZMIC CS] to
		turf wet with dew, rain or irrigation. Water-in
		immediately after application with $\frac{1}{4}$ - $\frac{1}{2}$ inch of
		water.
		Fire Ant Control: Treat individual mounds with a
		drench application using a watering can. Use 0.5 fl.
		oz. of LAMBDA 9.7 CS [CYZMIC CS] per 2.5 gals.
		of water. Thoroughly soak each mound and a 3 ft.
		diameter circle around each mound. Gently apply
		the mixture to avoid disturbing the mound.
		Disturbing the mound may cause the ants to
		migrate and reduce the effectiveness of the
		treatment. Apply in early morning or late evening
		hours. You may make applications on a monthly
	1	inclusion of a may make applications on a monthly
		basis to maintain protection of treated areas.

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	Mosquito Control: Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. Apply LAMBDA 9.7 CS [CYZMIC CS] at recommended rates in 2 - 5 gals. of water per 1,000 sq. ft.
Not for use on mature adult mole cricket	ts and chinch bugs in New York state.

* Example: To treat the listed turf pests at the 7 mL per 1,000 sq. ft. rate, determine the gallons of dilution per 1,000 sq. ft. needed to adequately cover the turf. At a 5 gallon per 1,000 sq. ft. dilution, take the 7 mL and divide it by the 5 (gallon) to get 1.4 mL to be added per gallon. For a 50 gallon tank, therefore, this would be 1.4 mL X 50 = 70 mL (or 2.5 oz.) in 50 gallons of water.

LAMBDA 9.7 CS [CYZMIC CS] Mixing Chart for Turf Insect Pest Control

Rate of LAMBDA 9.7 CS [CYZMIC CS]	Application Rate Per 1,000 Square Feet of Turf				
	2 gal.	4 gal.	6 gal.	8 gal.	10 gal.
5 oz. per acre	5.7 oz.	2.9 oz.	1.9 oz.	1.4 oz.	1.2 oz.
10 oz. per acre	11.5 oz.	5.7 oz.	3.8 oz.	2.9 oz.	2.3 oz.
20 oz. per acre	23.0 oz.	11.5 oz.	7.7 oz.	5.7 oz.	4.6 oz

(LAMBDA 9.7 CS [CYZMIC CS] to add per 100 gal. spray tank)

STORAGE AND DISPOSAL

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

Storage and Spill Procedures: Store upright at room temperature. Keep container closed when not in use. Do not store near food or feed. Avoid exposure to extreme temperatures. In case of spillage or leakages, soak up with an absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste.

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

Container Disposal:

For Containers equal to or less than 5 Gallons : Nonrefillable container. Do not reuse or refill this container. Clean container 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 two more times. Offer for recycling if available. If recycling is not available: then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For Containers greater than 5 Gallons: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one 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 two more times. Offer for recycling if available. If

recycling is not available: then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For Bulk containers: (Refillable Container) Refill this container with pesticides only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the re-filler. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or re-circulate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

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