07 10 2009



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

> OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms Amy Warren Control Solutions, Inc 5903 Genoa-Red Bluff Pasadena, TX 77507-1041

JUL 10 2009

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated May 4, 2009 for:

EPA Registration 53883-244 Lan

Lambda 9.7 GC-O Insecticide

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on <u>nonrefillable</u> containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Banza Djapao of my staff at 703-305-7269.

Sincerely,

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Linda Arrington Notifications & Minor Formulations Team Leader Registration Division (7505P) Office of Pesticide Programs

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Yellow - Applicant Pγ



May 4, 2009

Document Processing Desk (NOTIF) Office of Pesticide Programs(7504P) U.S. Environmental Protection Agency Room S-4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202-4501

Re: Notification per (PR) Notice 2007-4, Labeling Revisions required by the Final Rule "Pesticide Management and Disposal" (EPA Reg. No. 53883-244) Lambda 9.7 GC-O Insecticide

Dear Sir or Madam:

Enclosed is a Notification for (PR) 2007-4; See highlighted text on attached labeling.

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

If you have any questions or need additional information, please feel free to contact me.

Sincerely,

Amy Warren Regulatory Affairs Specialist Control Solutions, Inc.



5903 Genoa Red Bluff • Pasadena, TX 77507-1041 • www.controlsolutionsinc.com 281-892-2500 • Fax 281-892-2501 • 800-242-5562 RESTRICTED USE PESTICIDE Due to Toxicity to Fish and Aquatic Organisms FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

Lambda 9.7 GC-O Insecticide [alt name: Cyonara 9.7 GC-O]

For Use to Control Insect Pests On:

- Golf Course and Athletic Field Turf
- Sod Farms
- · Ornamentals Grown in Commercial Greenhouses, Shadehouses and Nurseries
- Ornamentals and Lawns in Landscaped Areas Around Residential, Institutional, Public, Commercial and Industrial Buildings, Parks, Recreational Areas, Golf Courses and Athletic Fields

Contains Sigma Technology [optional marketing language]

Active Ingredient: Lambda-cyhalothrin*	
[1α(S*), 3 α(Z))-(<u>+</u>)-cyano(3-phenoxyphenyl)methyl-3- (2-chloro-3,3,3-trifluoro-I -propenyl)-2,2-	
d imethylcyclopropanecarboxylate:	
Other Ingredients:	
Total	100 0%

* synthetic pyrethroid Contains 0.88 lbs. active ingredient per gallon or 0.22 lbs. a.i. per quart

KEEP OUT OF REACH OF CHILDREN Warning

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 53883-244 EPA Est. No. 53883-TX-002

Manufactured By: Control Solutions, Inc. 5903 Genoa-Red Bluff Pasadena, TX 77507

	FIRST AID
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 for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If 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 by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Have the product doctor, or going fo	container or label with you when calling a poison control center or or treatment.
	HOT LINE NUMBER
You may also conta	act Safety Call® (866) 897-8050 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING

Harmful if absorbed through skin. Harmful if inhaled. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or vapors. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Skin exposure may also result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- · Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrite rubber or vitor.
- 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. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly-and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This product is extremely toxic to fish. Do not contaminate water when 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. Care should be used when making applications 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.

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. In the state of New York, do not apply within 100 ft. of coastal marshes or streams that drain into marshes. When treating tall trees (>15 ft. from the ground) with high pressure sprays or during any application with air assisted equipment (mist blowers), do not apply within 150 ft. of aquatic areas.

Notify State and/or Federal authorities immediately if you observe any adverse environmental effects due to the use of this product.

Physical or Chemical Hazards

Do not use this product in or on 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.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forects, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered

by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- · Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, or viton
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep adults, children, and pets off treated areas until spray has dried following the application.

Lambda 9.7 GC-O Insecticide is for use on turf and ornamentals in indoor and out door areas such as residential landscapes and non-residential landscapes around institutional, public, commercial, and industrial buildings, parks, recreational areas, golf courses, and athletic fields.

Lambda 9.7 GC-O Insecticide may be applied to ornamentals grown in commercial greenhouses, shadehouses, and nurseries, and turf grown on sod farms or for commercial seed production.

Lambda 9.7 GC-O Insecticide may also be used for applications to golf course fairways, greens, greens aprons, and tee areas.

USE RESTRICTIONS:

• Do not apply to flowering plants when pollinating insects are present. Make applications during the early morning or late evening hours.

- Do not apply this product through any type of irrigation system.
- Do not apply this product to edible crops or crops grown for food/feed.
- Do not apply this product by aerial application.

Spray Drift Precautions

Do not make applications when wind speed is 15 miles per hour or greater. Low humidity and high temperatures increase the likelihood of spray drift to sensitive areas.

Avoid spraying during conditions of low humidity and/or high temperature. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when the wind direction is toward the aquatic area. Do not make outdoor applications during temperature inversions. Inversions are characterized by stable air and increasing temperature with height above ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Application

Lambda 9.7 GC-O Insecticide may be mixed with water and applied in all types of application equipment. Mix product with the required amount of water and apply as a dilute application to the point of runoif. Apply as a coarse spray using appropriate equipment. To avoid small droplets, do not use excessive spray pressure, and ensure that the correct nozzle is being used. For hard-to-wet foliage, such as holly, pine, or ivy, use a spreader-sticker to increase knockdown and residual activity. If concentrate or mist-type application equipment is used, Use the equivalent amount of product for concentrate or mist type application equipment as would be used in a dilute application.

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Note: 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 still be sensitive to the final spray solution. Before treating large areas, prespray a selection of ornamental plants and observe them for 7-10 days if local use data is not available.

MIXING

- 1. Fill application tank with 1/2 3/4 volume of water. The recommended pH of the water should be 5-7 pH. Use a buffering agent to adjust the pH level if necessary.
- Slowly add Lambda 9.7 GC-O Insecticide to tank water with maximum agitation. If other chemicals are added to the applicator tank, Lambda 9.7 GC-O Insecticide should be added last. If mixed with EC formulations or oils, use within 24 hours.
- 3. Fill tank to desired volume and continue to agitate while making applications. Shake or reagitate application equipment before use if application is interrupted
- 4. Make up only amount of application volume required.

Mixing Chart for Use on Ornamental

Lambda 9.7 GC-O Insecticide to add per spray tank.

Rate of Lambda 9.7 GC-O Insecticide	25 gals.	50 gals.	100 gals.	200 gals.	300 gals.
1 .5 oz.	0.4 oz.	0.8 oz.	1.5 oz.	3.0 oz.	4.5 oz.
3.0 oz.	0.8 oz.	1.5 oz.	3.0 oz.	6.0 oz.	9.0 oz.
5.0 oz.	1.3 oz.	2.5 oz.	5.0 oz.	10.0 oz.	15.0 oz.

Mixing Chart for Use on Turf

Lambda 9.7 GC-O Insecticide to add per 100 gallon spray tank.

Rate of Lambda 9.7 GC-O Insecticide	2 gals.	4 gals.	6 gals.	8 gals.	10 gals.
5 oz./A	5.7 oz.	2.9 oz.	1.9 oz.	1.4 oz.	1.2 oz.
10 oz./A	11.5 oz.	5.7 oz.	3.8 oz.	2.9 oz.	2.3 oz.
20 oz./A	23.0 oz.	11.5 oz.	7.7 oz.	5.7 oz.	4.6 oz.

Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (mL)

Compatibility

Lambda 9.7 GC-O Insecticide has been found to be compatible with all commonly used fungicides, miticides, liquid fertilizers, and other insecticides. Check compatibility using the correct proportion of products in a small jar, if local experience is not available.

ORNAMENTALS

Agricultural Uses:

Ornamentals in Greenhouses, Shadehouses, and Nurseries

Non-Agricultural Uses:

Ornamentals (Including Trees, Shrubs, Flowers, Evergreens, Foliage Plants, and Ground covers) in Residential Landscaped Areas and Landscaped Areas around Institutional, Public, Commercial, and Industrial Buildings, Parks, Recreational Areas, Golf Courses, and Athletic Fields

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NOTE: Do not apply more than 0.36 lb. of the active ingredient (52.4 fl. oz. of concentrate) per acre per year.

Pes	t Controlled	Amount of Lambda 9.7 GC-O Insecticide
Ants (Including Imported	June beetles (adult),	1.5 – 5 fl. oz/100 gals.
fire ants), Armyworms,	Lace bugs,	or
Azalea caterpillars,	Leaf-feeding caterpillars,	44 – 148 mL/100 gals.
Aphids,	Leafhoppers	Ŭ
Bagworms,	Leafminers (adult)	
Black vine weevils (adult),	Leaf rollers,	
Boxelder bugs,	Leaf skeletonizers,	
Budworms,	Midges,	
California oakworms,	Mosquitoes	
Cankerworms,	Oleander moth larvae, Pillbugs,	
Cockroaches, Crickets,	Pine sawflies,	
Cutworms,	Pine shoot beetles,	
Eastern tent caterpillars,	Pinetip moths,	
Elm leaf beetles,	Plant bugs,	
European sawflies, Fall	Root weevils,	
webworms,	Sawflies,	
Flea beetles,	Scale insects (crawlers), Spiders,	
Forest tent caterpillars	Spittlebugs,	
Gypsy moth larvae,	Striped beetles,	
Japanese beetles (adult),	Striped oakworms,	
	Thrips,	
	Tip moths,	
	Tussock moth larvae, Wasps	
Broadmites,	Mealybugs,	3 – 5 fl. oz/100 gals.
Brown softscales,	Pine needlescales (crawler),	or
California redscales	Spider mites,	88 – 148 mL/100 gais.
(crawler),	Whiteflies	
Clover mites,		

Application Instructions:

Apply to ornamentals before the onset of high pest populations. Reapply at 7 day intervals if necessary to maintain control. Use higher rates when pest pressure increases.

For best results ensure thorough spray coverage. For ornamentals with waxy or hard to wet foliage, the use of a spreader-sticker at recommended rates may help with the control of insects.

Lambda 9.7 GC-O Insecticide may also be applied as a spot treatment at the rate of 0.5 fl. oz. per 1-2.5 gallons of water.

Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.

Note: 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 still be sensitive to the final spray solution. Before treating large areas, prespray a selection of ornamental plants and observe them for 7-10 days if local use data is not available.

Scale: Thoroughly cover the plant with Lambda 9.7 GC-O Insecticide spray, including trunks, stems, twigs, and foliage for control of scale insects.

Bagworm: Apply Lambda 9.7 GC-O Insecticide when bagworm larvae begin to hatch. Spray directly on the larvae. Application is the most effective when the larvae are young.

TURFGRASS

Agricultural Sod Farms and Grass Seed Farms

Non-Agricultural

Lawns around Residential, Institutional, Public, Commercial, and Industrial Buildings, Parks, Recreational Areas, Golf Courses, and Athletic Fields

Golf Course and Athletic Field Turf

NOTE:

• Do not apply more than 0.36 lb. of active ingredient (52.4 fl. oz. of concentrate) per acre per year.

• Do not apply when turfgrass is waterlogged or when soils are saturated with water (i.e., will not accept irrigation).

• Keep children and pets off treated areas until spray has dried following the application.

	Amount of Lambda 9.7 GC-O Insecticide
Pest	
Ants (Including	
Imported fire ants),	
Armyworms,	
Centipedes,	
Crickets,	2.4.7 ml (1.000 og ft
Cutworms,	3.4-7 mL/1,000 sq. ft.
Earwigs,	or 5-10 fl. oz./A
Fleas	5-10 11. OZ./A
(adult),	
Grasshoppers,	
Japanese beetles (adult),	
Millipedes,	
Mites	
Pillbugs,	13.1.1
Sod webworms,	
Sow bugs,	
Ticks (including species which may transmit Lyme disease)	

Bluegrass billbugs (adult), Black turfgrass ataenius (adult), Chiggers, Fleas (adult), Grub (suppression), Hyperodes weevils (adult), Mole crickets (nymphs and young adults)	7 mL/1,000 sq. ft. or 10 fl. oz./A
Chinch bugs Mole crickets (mature adults) (Not for use on mature adult mole crickets and chinch bugs in New York State.)	14 mL/1,000 sq. ft. or 20 fl. oz./A

Application Instructions

Make application to turf before high insect populations and turf damage is evident. Reapply at 7 day intervals if necessary to maintain control. Use higher rates when pest pressure increases.

Lambda 9.7 GC-O Insecticide may also be applied as a spot treatment at the rate of 0.5 fl. oz. per 1-2.5 gallons of water.

Surface Insect Control (armyworm, cutworms, fleas, etc.): For best results, apply Lambda 9.7 GC-O Insecticide at recommended rates in 2-5 gals. of water per 1,000 sq. ft. If high rainfall amounts are forecast the addition of a spreader-sticker may be helpful. For normal conditions for surface insect control on turf, the addition of adjuvants is not necessary. For best control of target pests, do not water or mow for 12-24 hours.

Thatch Inhabiting Insect Control (chinch bugs, billbugs, etc.): For best results, apply Lambda 9.7 GC-O Insecticide at recommended rates in 2-10 gals. of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant, or similar adjuvant is recommended at label rates. To help move the Lambda 9.7 GC-o into the thatch layer after application, lightly irrigate with up to 1/2 inch of water. If irrigation is not available, then use high water application rates for optimum results.

Subsurface Insect Control (mole crickets, grubs, etc.): For best results, apply Lambda 9.7 GC-O Insecticide 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 GC-O Insecticide to turf wet with dew, rain, or irrigation. Water-in immediately after application with 1/4-1/2 inch of water for optimum results.

Fire Ant Control: Use 0.5 fl. oz. of Lambda 9.7 GC-O Insecticide per 2.5 gals. of water Use a watering can to treat individual mounds as a drench application. Thoroughly soak each mound and a 3 ft. diameter circle around each mound. In order to avoid disturbing the mound, gently apply the mixture. Disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. For best results, apply in early morning or late evening hours. Make additional treatments as needed, but not more than every 7 days.

Mosquito Control: To control mosquitoes, apply as a general spray around landscape plantings, turf, and building foundations. For best results, apply Lambda 9.7 GC-O Insecticide at recommended rates in 2-5 gals. of water per 1,000 sq. ft.

STORAGE AND DISPOSAL

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

Storage and Spill Procedures: Store upright at room temperature. 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 and drain 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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