

100-1334

12-17-2009

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



OFFICE OF
PREVENTION, PESTICIDES,
AND TOXIC SUBSTANCES

December 17, 2009

Thomas J. Parshley
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419

Dear Mr. Parshley:

Subject: Amended labeling to clarify directions for use
Thiamethoxam 0.40/Lambda-Cyhalothrin 0.16 ME Concentrate
EPA Reg. No. 100-1334
Your submission dated December 16, 2009

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable. A stamped copy is enclosed for your records. Please submit two copies of your final printed labeling before you release the product for shipment. If you have any questions, please contact Julie Chao by phone at: (703) 308-8735, or by email at: chao.julie@epa.gov.

Regards,

A handwritten signature in black ink that reads "Julie A. Chao".

Julie A. Chao
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure

2
15

(Master label)

Thiamethoxam 0.40/Lambda-cyhalothrin 0.16 ME Concentrate

[For control of grubs and other insects in lawns and landscape plantings] [and outdoor nuisance pests]

Active Ingredient:	
Thiamethoxam (CAS No. 153719-23-4)	0.40%
Lambda-cyhalothrin (CAS No. 91465-08-6)	0.16%
<u>Other Ingredients:</u>	<u>99.44%</u>
Total:	100.00%

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use [in booklet] [on label].

EPA Reg. No. 100-1334
EPA Est. XXXX

SCP 1334A-M(draft)

- 1 pint [(16 fl. oz.)] [(473 ml.)]
 - 1 quart [(32 fl. oz.)] [(946 ml.)]
 - 1 quart, 6.4 fluid ounces [(38.4 fl. oz.)] [(1136 ml.)]
 - 2 quarts [(64 fl. oz.)] [(1893 ml.)]
 - 1 gallon [(128 fl. oz.)] [(3785 ml.)]
 - _____ gallons.
- Net Contents

ACCEPTED
DEC 17 2009

**Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for the
pesticide registered under:**

EPA. Reg. No: 100-1334

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals**CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Avoid contact with eyes or clothing.

FIRST AID	
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, and after the first 5 minutes, then continue rinsing eye.• Call a poison control center, doctor, or 1-800-888-8372 immediately for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call [1-800-888-8372] [Alternate phone number]	

Environmental Hazards

This product is extremely toxic to fish. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

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.

CONDITIONS OF SALE AND DISCLAIMERS OF WARRANTY AND LIMITATIONS OF LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Disclaimers of Warranty and Limitations of Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

Syngenta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when used in accordance with the directions under normal use conditions. You assume any and all risk of using, storing, or handling this product contrary to label instructions, or under abnormal conditions or conditions not reasonably foreseeable to Seller or Syngenta. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NEITHER SYNGENTA NOR SELLER MAKE ANY WARRANTY OF MERCHANTABILITY NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES EXCEPT AS STATED ABOVE.**

To the extent consistent with applicable law, in no event shall Syngenta or Seller be liable for any incidental, consequential, or special damages resulting from the use, storage, or handling of this product.

DIRECTIONS FOR USE

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

- Read entire label before using this product.
- People and pets may re-enter after the treated area has been allowed to dry.
- This product is non-staining to most home siding depending on age and cleanliness. However, before using in areas where the spray may contact home siding (vinyl siding in particular), test in an inconspicuous area and recheck in a few hours. Do not use if any staining is observed.
- Do not use measuring utensils such as cups and spoons for food purposes after use with pesticides. (*Mix and Spray product only*)
- Do not allow applications to contact water bodies, particularly those inhabited by aquatic organisms, such as ornamental fish ponds.

5
15

HOW TO APPLY *(Mix and Spray product only)*

- **[Shake container well before each use.]**
- **Determine size of spraying job.** For lawns, measure the area to be sprayed. For landscape plantings, estimate the amount of spray mixture to provide thorough coverage of the foliage. For outdoor nuisance pests, estimate the square footage of the treatment area.
- **Carefully measure and mix** the amount of product and water as indicated in the use directions. **[squeeze and pour container only]** To use the squeeze and pour bottle, remove cap and inner seal from the calibrated [dosing][measuring] chamber. Then replace cap and tighten, then loosen ¼ turn. Gently squeeze bottle to fill chamber to the appropriate [level][dose]. Tilt the bottle to the direction indicated by the arrow on the bottle. Pour [Thiamethoxam 0.40/Lambda-cyhalothrin 0.16 ME Concentrate][concentrate] directly into sprayer and slowly add the appropriate amount of water. Replace cap.
- **Spray as directed.** Thorough coverage is important. Spray just enough to cover treated area. Avoid over wetting.
- **Flush sprayer** with clean water after each use.

HOW TO APPLY *(Hose End Spray product only)*

- **[Shake container well before each use.]**
- **Connect a garden hose** to the [Hose End Sprayer] nozzle. Make sure the dial on the hose end sprayer is in the "OFF" position [with the safety tab in the valve notch].
- **Turn on water at faucet.** Extend hose to the farthest area to be treated and work back toward the faucet so you don't come in contact with the treated area.
- **To begin spraying,** point nozzle toward treatment area and [1.) bend the safety tab back with your thumb, 2.) hold safety tab back while turning dial counter clockwise until it stops.] turn the hose end sprayer to the "ON" position. Water will automatically mix with the product. [Optional graphic of hose end sprayer]
- **Spray until wet.** Walk at a steady pace while spraying using an even sweeping motion, slightly overlapping treated areas.
- **To stop spraying,** quickly turn the [dial counter clockwise until it stops and the safety tab engages into the notch on the valve] [hose end sprayer to the "OFF" position]. Turn water off at faucet. To relieve pressure before removing nozzle from hose, [bend the safety tab back and turn dial "ON"] [turn the hose end sprayer to the "ON" position] until water stops spraying.

(Directions for Mix and Spray product and Hose End Spray product)

Where to Apply

- Home lawns
- Landscape plantings, flower beds
- Outdoor areas around the home

Benefits

- *[Dual-action]* with contact control *plus* long-lasting residual control
- *[Rainfast]* *[Rainproof]* *[Waterproof]* within 1 hour.
- *[Broad spectrum control.]*
- *[[For use][For insect control][Can be used] on [all major] landscape plantings]*
- *[[For use][For insect control][Can be used] on home lawns]*
- *[[For use][For insect control][Can be used] on home lawns and [all major] landscape plantings]*
- *[Provides a barrier to insect pests outside your home]*

How it Works

The *[dual-action]* *[dual activity]* of Thiamethoxam 0.40/Lambda-cyhalothrin 0.16 ME Concentrate *[kills]* *[controls]* many insects two ways: through direct contact and by ingestion.

One ingredient starts working right away *[killing]* *[controlling]* insects that come in contact with the product. The other ingredient is absorbed into the plant, moves rapidly throughout, and causes insects *[which ingest plant tissue]* to stop feeding and die. Thiamethoxam 0.40/Lambda-cyhalothrin 0.16 ME Concentrate keeps insects from reestablishing for up to 30 days.

7
15

LAWNS (Directions for Mix and Spray product)

How to apply

- Mix the specified amount of product, listed in the **How Much to Apply** column of the table below, in 1 gallon of water to [cover] [treat] 500 sq. ft.
- [1 qt. of Thiamethoxam 0.40/Lambda-cyhalothrin 0.16 ME Concentrate treats up to 4,000 sq. ft.]

Insect pest	How much to apply (in 1 gallon water)	When to apply
Underground/Thatch Infesting Insects		
White grubs*	8 fl. oz.	May through mid-August. [Contact your local Cooperative Extension Service for the best time to apply in your area.]
Mole crickets (nymphs and young adults)	8 fl. oz.	For Florida, apply once in April to early May. In other areas, apply mid-May to mid-June.
Chinch bugs	8 fl. oz.	Apply prior to hatching of nymphs.
Billbugs	8 fl. oz.	Apply when activity is first observed or when chewed or brown grass indicates billbugs are present.
Hyperodes weevils (adult)	8 fl. oz.	Apply when first noticed, about April - May.
Black turfgrass atenius (adult) Chiggers European crane flies	8 fl. oz.	Apply when first noticed.
Surface Insects		
Ants Armyworms Centipedes Cockroaches Crickets Cutworms Earwigs Fleas Grasshoppers Green June Beetles Japanese Beetles (adult) Millipedes Mosquitoes Palmetto bugs Pillbugs Sod webworms Sowbugs Springtails Mites Ticks (including species which transmit Lyme disease) Waterbugs	4-8 fl. oz.	Apply when insects are present.

8
15

Insect pest	How much to apply (in 1 gallon water)	When to apply
<i>(Surface Insects continued)</i> Craneflies Flea Beetles Greenbugs Leafhoppers Spittlebugs Annual bluegrass weevil	8 fl. oz.	Apply when insects are present.
Fire Ants	13 fl. oz.	Thoroughly soak each mound and a 3 ft. diameter area around each mound. Apply the mixture gently to avoid disturbing the mound. For best results, apply in the early morning or late evening.

*Grubs (larvae) of Japanese beetle, Northern masked chafer, Southern masked chafer, European chafer, May or June beetle, Asiatic garden beetle, Oriental beetle, Green June beetle, Scarab beetle, Black turfgrass ataenius, Dung beetle, Billbugs.

LAWNS (Directions for Hose End Spray product)

Insect pest	How much to apply	When to apply
Underground/Thatch Infesting Insects		
White grubs*	[1 qt./2,000] [1 pt./1,000] sq. ft. of lawn	May through mid-August. [Contact your local Cooperative Extension Service for the best time to apply in your area.]
Mole crickets (nymphs and young adults)	[1 qt./2,000] [1 pt./1,000] sq. ft. of lawn	For Florida, apply once in April to early May. In other areas, apply mid-May to mid-June.
Chinch bugs	[1 qt./2,000] [1 pt./1,000] sq. ft. of lawn	Apply prior to hatching of nymphs.
Billbugs	[1 qt./2,000] [1 pt./1,000] sq. ft. of lawn	Apply when activity is first observed or when chewed or brown grass indicates billbugs are present.
Hyperodes weevils (adult)	[1 qt./2,000] [1 pt./1,000] sq. ft. of lawn	Apply when first noticed, about April - May.
Black turfgrass ataenius (adult) Chiggers European crane flies	[1 qt./2,000] [1 pt./1,000] sq. ft. of lawn	Apply when first noticed.
Surface Insects		
Ants (excluding fire ants) Armyworms Centipedes Cockroaches Crickets Cutworms Earwigs Fleas Grasshoppers Green June Beetles Japanese Beetles (adult) Millipedes Mosquitoes Palmetto bugs Pillbugs Sod webworms Sowbugs Springtails Mites Ticks (including species which transmit Lyme disease) Waterbugs	[1 pt.-1 qt./2,000] [½ pt.-1 pt./1,000] sq. ft. of lawn	Apply when insects are present.
Craneflies Flea Beetles Greenbugs Leafhoppers Spittlebugs Annual bluegrass weevil	[1 qt./2,000] [1 pt./1,000] sq. ft. of lawn	Apply when insects are present.

*Grubs (larvae) of Japanese beetle, Northern masked chafer, Southern masked chafer, European chafer, May or June beetle, Asiatic garden beetle, Oriental beetle, Green June beetle, Scarab beetle, Black turfgrass ataenius, Dung beetle, Billbugs.

LANDSCAPE PLANTS (*Directions for Mix and Spray product and Hose End Spray product*)

Where to Apply

- Landscape plantings, such as shrubs, roses, evergreens, trees, foliage plants, groundcovers
- Flower beds

How to Apply

- (*Mix and Spray product only*) Mix 3 fl. oz. in 1 gallon of water.
- Spray uniformly to wet the leaves, but not to runoff.
- [*Contact your local Cooperative Extension Service for more information on the best time to apply in your area.*]
- Re-apply as needed.

Controls these Insects

Adelgids [<i>Hemlock woolly adelgid</i>]	June beetles (adults)	Scale insects (crawlers)* [<i>California red scale (crawlers)*</i>]
Ants	Lace bugs [<i>Azalea lace bug</i>]	[<i>Pine needle scale (crawlers*)</i>]
Aphids	[<i>Hawthorne lace bug</i>]	Soft Scales* [<i>Cottony cushion scale*</i>]
Armyworms	Leaf rollers	[<i>Brown soft scale*</i>]
Azalea caterpillars	Leaf skeletonizers	[<i>Fletcher scale*</i>]
Bagworms**	Leaf-feeding beetles	Spider mites
Black vine weevils (adult)	Leaf-feeding caterpillars	Spittlebugs
Blister gall	Leafhoppers	Spiders
Boxelder bugs	Leafminers (adults)	Striped beetles
Broadmites	Mealybugs	Striped oakworms
Budworms	Midges	Tent caterpillars [<i>Forest tent caterpillars</i>]
California oakworms	Mosquitoes	[<i>Eastern tent caterpillars</i>]
Cankerworms	Nipple gall	Thrips
Clover mites	Oleander moth larvae	Tip moths
Cockroaches	Pillbugs	Tussock moth larvae
Crickets	Pine shoot beetles	Wasps
Cutworms	Pinetip moths	Whiteflies
Elm leaf beetles	Plant bugs	
Fall webworms	Root weevils	
Flea beetles	Sawflies	
Gypsy moth larvae	[<i>Pine sawflies</i>]	
Honeylocust pod gall midge	[<i>Pear sawfly</i>]	
Japanese beetles (adults)	[<i>European sawflies</i>]	

* For best control of scale insects, spray leaves, stems, and trunks thoroughly.

** Spray directly on the bagworm larvae after they hatch. Control is most effective when the larvae are young.

OUTDOOR NUISANCE PESTS (*Directions for Mix and Spray product only*)

Where to apply

- around doors and window frames
- around light fixtures, utility entry points
- soffits, eaves, and vents
- other areas where pests may enter the home, alight, trail or congregate
- along foundations

How to Apply

- *[Mix [8 fl. oz.] [1 cup] [16 tablespoons] in 4 gallon of water to [cover] [treat] 1,000 sq. ft.]*
- *[Mix [2 fl. oz.] [¼ cup] [4 tablespoons] in 1 gallon of water to [cover] [treat] 250 sq. ft.]*
- Spray uniformly over the surface.
- Ants: thoroughly wet ant hills and ant trails.

Ants*	Crickets	Pillbugs**
Asian lady beetles	Earwigs	Scorpions**
Bees	Fleas	Sowbugs
Beetles	Flies	Spider mites
Boxelder bugs	Lady beetles	Spiders
Carpenter bees	Millipedes	Ticks
Centipedes	Mites	Wasps
Clover mites	Mosquitoes	Waterbugs
Cockroaches	Palmetto bugs	

* Argentine, Southern, Field, Allegheny Mound, Florida Carpenter, Black Carpenter, Cornfield, Honey, Pavement, Nuisance.

**Pillbugs and scorpions must be sprayed directly to be killed.

(Directions for Mix and Spray product and Hose End Spray product)

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in a cool, dry place. Keep container closed and away from food, feedstuffs, and domestic water supplies.

Pesticide Disposal and Container Handling (consumer products)

Nonrefillable container. Do not reuse or refill this container.

If empty: Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency or [1-800-888-8372] [Alternate phone number] for disposal instructions. Never place unused product down any indoor or outdoor drain.

Pesticide Disposal (bulk and mini-bulk)

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office.

Container Handling (bulk and mini-bulk)

Nonrefillable container. 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 $\frac{1}{4}$ 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn unless allowed by state and local ordinances.

Optional Comprehensive List of Marketing Claims

- *Dual-Action [Formula]*
- *Dual Activity [Formulation]*
- *Fast-Acting [Formula]*
- *Long-Lasting [Formula]*
- *Broad Spectrum [Formula] [Control]*

- *Kills [many insects] on contact [plus residual control]*
- *Residual control*
- *[Dual-action] with contact control plus long-lasting residual control*
- *[Thiamethoxam 0.40/Lambda-cyhalothrin 0.16 ME Concentrate] keeps insects from reestablishing for up to 30 days.*
- *[Thiamethoxam 0.40/Lambda-cyhalothrin 0.16 ME Concentrate] Extended Control*

- *[Kills] [Controls] many insects for up to 30 days*
- *Kills many [insects] [surface insects] on contact*
- *[Insect] Feeding will stop within minutes*
- *Kills fast*
- *Fast Killing*
- *[Kills] [Controls] many insects in 24 hours*
- *Works in 24 hours*

- *[Rainproof] [Rainfast] [Waterproof] within 1 hour*
- *Rain and waterproof in [60 minutes] [one hour][or less]*

- *Controls [Many] [Landscape] [Ornamental] Pests*
- *[For use][For insect control][Can be used] on all major landscape plantings*
- *Controls [Many] [Lawn] [Turf] Pests*
- *[For use][For insect control][Can be used] on [home] lawns*
- *[For use][For insect control][Can be used] on [home] lawns and all major landscape plantings*
- *Can be Applied to: [Lawns] [Turf], Landscape Plantings and Flower Beds, and around the outside of the home.*
- *[Kills] [Controls] Common [Lawn] [Turf] and Landscape [Pests] [Insects]*
- *[Kills] [Controls] A Variety of [Lawn] [Turf] and Landscape [Pests] [Insects]*
- *[Provides] Season-Long [Grub] Control*
- *A Single Application Controls Grubs [Season-Long]*
- *Season-long [soil insect] [grub] control*
- *Protects [Lawns] [Turf] [Turfgrass] from Grub [Damage] [Feeding]*
- *Controls Grubs and Allows Turf to Recover from [Grub] Damage*
- *[Can be Applied] [Apply] [Spring] Through [Late] Summer*

- *[Kills][Controls] more than 100 insects*
- *Kills Ants [On Contact]*
- *Kills Japanese Beetles [on contact]*
- *Kills whiteflies, [and] aphids, [and] [mealybugs]*
- *Kills scale insects*
- *Kills wasps*
- *Kills common insect pests of roses*

- *Provides a barrier to insect pests outside your home*
- *Kills insects [outside] before they come inside*


- *Kills fire ant colony*
- *Kills fire ant queen*
- *Kills fire ant queen and colony [in 24 hours]*
- *[Controls] [kills] fire ants [on contact]*
- *Reaches deep to kill [entire colony] [the queen] [fire ants]*
- *Limits mound formation*
- *Destroys fire ant mounds*
- *[Fire ant] mound destroyer*
- *Kills Fire Ants in 24 Hours*

15
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- *Kills Fire Ant Mounds in 24 hours*
- *Kills the Queen*
- *Kills the Fire Ant Mound*
- *Kills the Queen and Mound*
- *Controls Fire Ants for up to Four Weeks*

- *Clear Formula*
- *Clear Formula – Non-staining, Low odor*
- *Non-staining Clear Formula*
- *Low Odor Clear Formula*
- *No lingering odor*
- *No oily residue*
- *Unscented*
- *Leaves no odor*
- *Low Odor*
- *Water-based*

- *Treats up to xxxx square feet*
- *Contains [Thiamethoxam]*
- *Contains [Lambda-cyhalothrin]*
- *[Results] Guaranteed or Your Money Back*
- *Guaranteed Results or Your Money Back*
- *Satisfaction Guaranteed or Your Money Back*
- *Larger Size – [xx% More!] [covers xxx square feet]*
- *Larger Size [38.4 oz]*
- *Special Value [Larger Size] [xx% more]*
- *Compare and Save - [larger size] [xx% more!]*
- *Squeeze and Measure [no touch] [precise dosing] [easy dose] [no mess] [easy cleanup]*
- *Easy Dose System [no touch] [easy to measure] [no mess] [easy cleanup]*
- *Easy Pour [ing] [System] [no touch] [easy to measure] [no mess] [easy cleanup]*

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[optional]

*For non-emergency (e.g. current product information) call
[Syngenta Crop Protection at 1-800-334-9481][Company name and optional alternate
phone number]*

Manufactured for:
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 1334A-M (draft)

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