

66330-321

09-30-2010

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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Mr. Bill Washburn  
Arysta Life Science  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

SEP 30 2010

Subject: Label Notification(s) for Pesticide Registration Notice 98-10

Dear Mr. Washburn:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated May 6, 2010 for the following product(s):

Bifenthrin 7.9% FL L&T

Reg. No. 66330-321


The Registration Division (RD) has conducted a review of this request for applicability under PR Notice 98-10 and finds that the label change(s) requested falls within the scope of PRN 98-10. The label has been date-stamped "Notification" and will be placed in our records.

If you have any questions, please contact Linda A. DeLuise at 703-305-5428.

Sincerely,

A handwritten signature in cursive script, appearing to read "Linda A. DeLuise".

Richard J. Gebken  
Product Manager  
Insecticide Branch  
Registration Division (7504P)

	<b>EPA</b> <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> <b>Registration</b> <input type="checkbox"/> <b>Amendment</b> <input checked="" type="checkbox"/> <b>Other:</b>	OPP Identifier Number
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**Application for Pesticide - Section I**

1. Company/Product Number <b>66330-321</b>	2. EPA Product Manager <b>Richard Gebken</b>	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>Bifenthrin 7.9% FL L&amp;T</b>	PM# <b>1013</b>	
5. Name and Address of Applicant (Include ZIP Code)  <b>Arysta LifeScience North America, LLC</b> <b>15401 Weston Parkway, Suite 150</b> <b>Cary, NC 27513</b>  <input type="checkbox"/> Check if this is a new address		6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. <b>NOTIFICATION</b>  Product Name <b>SEP 30 2010</b>

**Section - II**

<input type="checkbox"/> Amendment – Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application <input type="checkbox"/> Other - Explain below
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**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

**Notification of label change per June 4, 2009, letter from Environmental Protection Agency.** This notification is consistent with guidance in the June 4, 2009 letter and requirements of EPA's regulations at 40 CFR part 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 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if the amendment is not consistent with the requirements of 40 CFR part 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.

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Unit Packaging wgt.    No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Package wgt.    No. per container	<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)		
* <b>Certification must be submitted</b>					
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)			
Name <b>Bill Washburn</b>	Title <b>Regulatory Manager</b>	Telephone No. (Include Area Code) <b>901-432-5118</b>	
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete, and I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)  <div style="border: 1px solid black; padding: 5px; text-align: center;">             RECEIVED              MAY 6 2010           </div>
2. Signature 	3. Title <b>Regulatory Manager</b>		
4. Typed Name <b>Bill Washburn</b>	5. Date <b>May 6, 2010</b>		



Mr. Richard Gebken, PM 10  
Document Processing Desk (NOTIF -PYRETHROID)  
Office of Pesticide Programs – 7504P  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

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Enclosed are two copies of the revised label. One clean copy and one copy with changes highlighted. Please acknowledge acceptance of this notification.. Should you have any questions or comments, please do not hesitate to contact me at 901-432-5118 or by e-mail at [bill.washburn@arystalifescience.com](mailto:bill.washburn@arystalifescience.com)

Sincerely,

Bice Washburn

Bill Washburn  
Regulatory Manager

Arysta LifeScience North America  
15401 Weston Parkway, Suite 150, Cary, NC 27513 Phone 919-678-4900 Fax 919-678-2194  
[www.arystalifescience.com](http://www.arystalifescience.com)

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**BIFENTHRIN 7.9% FL L&T  
INSECTICIDE/MITICIDE**

Only for Use and Storage by Commercial Applicators. To control insect pests and mites indoors, in interiorscapes and outdoors on ornamentals and lawns in landscaped areas around residential, institutional, public, commercial, and industrial buildings, parks, recreational areas and athletic fields.

<b>ACTIVE INGREDIENT:</b>	By Wt.
Bifenthrin*	7.9%
<b>INERT INGREDIENTS:</b>	92.1%
<b>TOTAL:</b>	100.0%

BIFENTHRIN 7.9% FL L&T contains 2/3 pound active ingredient per gallon.  
\*Cis isomers 97% minimum, trans isomers 3% maximum.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See other panels for additional precautionary information

**FIRST AID**

**IF SWALLOWED:** Call a physician or 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.

**IF INHALED:** Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for further treatment advice.

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

**IF 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 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

**NOTE TO PHYSICIAN:** This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

**EMERGENCY TELEPHONE NUMBERS:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL:** 1-866-303-6952

**FOR CHEMICAL EMERGENCY:** Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

EPA Reg. No. 66330-321  
Ad 032503

EPA Est. No. 51036-GA-001

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

Manufactured For:  
Arysta LifeScience North America, LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

**NOTIFICATION**

SEP 30 2010

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**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans (and Domestic Animals)**

**CAUTION.** Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

All pesticide handlers (mixers, loaders and applicators) must wear long sleeved shirt and long pants, socks, shoes and chemical resistant gloves. After this product is diluted in accordance with label directions for use shirt, pants, socks and waterproof gloves are sufficient.

**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and aquatic invertebrates. ~~Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.~~ 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 hours 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. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. ~~Do not contaminate water when disposing of equipment washwaters.~~ Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.

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 to drift to blooming crops if bees are visiting the treatment area.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not apply water-based dilutions of BIFENTHRIN 7.9% FL L&T to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible 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 through any kind of irrigation system.

Do not apply by air.

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Do not apply in greenhouses and nurseries.

Not for use on sod farm turf, golf course turf, or grass grown for seed.

Do not water the treated area to the point of run-off.

Do not make applications during rain.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- 1) Treatment to soil or vegetation around structures;
- 2) Applications to lawns, turf, and other vegetation;
- 3) Applications to building foundations, up to a maximum height of 3 feet.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications, only.

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.

#### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use replace lids and close tightly. Do not put concentrate or dilute material into food or drink container. In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.

**To Confine Spill:** If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**Pesticide Disposal:** Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinseate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:**

**Containers equal to or less than 5 gallons:** 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 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, or puncture and dispose of in a sanitary landfill, or by incineration or if allowed by state and local authorities, by burning. If burned stay out of smoke.

**Returnable/Refillable containers:** Refillable container. Refill this container with this pesticide 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 refiller. 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 recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Do not break seals. Return intact to point of purchase.

Formula for Determining the Active Ingredient Content of the Finished Spray Mixture: The following formula may be used to determine the percent active ingredient that is in the spray tank after mixing BIFENTHRIN 7.9% FL L&T:

$$\frac{(7.9)(\text{Fl. oz. of product added to tank})}{(\text{Gallons of finished spray mix})(128)} = \text{Percent Active Ingredient of Spray Mixture}$$

**IMPREGNATION AND APPLICATION OF BIFENTHRIN  
ON DRY BULK TURF FERTILIZERS**

BIFENTHRIN 7.9% FL L&T may be impregnated on dry bulk fertilizers. When applied as directed, Bifenthrin/dry bulk fertilizer mixtures provide insect control equal to that provided by the same rates of Bifenthrin applied in water.

**Impregnation:** Apply using a minimum of 2.3 pounds of dry bulk fertilizer per 1,000 sq. ft. with the recommended amount of Bifenthrin 7.9% FL L&T per 1,000 sq. ft. Use a closed rotary-drum mixer or a similar type of closed blender equipped with suitable spray equipment. The spray nozzle(s) should be positioned to provide a uniform, fine spray pattern over the tumbling fertilizer for thorough coverage. The physical

properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with BIFENTHRIN 7.9% FL L&T provides a satisfactory, dry mixture. If the absorptive capacity is inadequate, use of a highly absorptive powder is required to provide a dry, flowable mixture. Microcel-E (Johns-Manville Products Corporation) is a recommended absorbent powder. Generally less than 2% by weight of Microcel-E is required. DO NOT impregnate BIFENTHRIN 7.9% FL L&T onto straight coated ammonium nitrate or straight limestone because these materials will not absorb the insecticide. Dry fertilizer blends containing mixtures of ammonium nitrate or limestone may be impregnated with BIFENTHRIN 7.9% FL L&T.

The amount of BIFENTHRIN 7.9% FL L&T actually required in the preparation of individual fertilizer mixtures should be determined carefully for each production operation. This is necessary to ensure that the amount of pesticide actually contained in the mixture applied to the soil represents the correct rate of use. Bulk fertilizer impregnated with BIFENTHRIN 7.9% FL L&T should be applied immediately, not stored.

All individual Federal and State regulations relating to bulk dry fertilizer blending, registration, labeling, and application of the mixtures are the responsibility of the individual and/or company selling the fertilizer and BIFENTHRIN 7.9% FL L&T mixture.

Fertilizer for this use should be grass/lawn fertilizers recommended for specific regions.

#### GENERAL APPLICATIONS INSTRUCTIONS

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 only for aesthetic purposes or climatic modifications and being grown in interior plantscapes, ornamental gardens or parks, or lawns and grounds.

BIFENTHRIN 7.9% FL L&T formulation mixes readily with water and other aqueous carriers, and controls a wide spectrum of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in interiorscapes including hotels, shopping malls, office buildings, etc., and, outdoor plantscapes, such as around residential dwellings, parks, institutional buildings, recreational areas, athletic fields and home lawns. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application.

BIFENTHRIN 7.9% FL L&T may be tank-mixed with other pesticides including insect growth regulators. When tank mixing BIFENTHRIN 7.9% FL L&T with other pesticides, observe all precautions and limitations on each separate product label. The physical



compatibility of BIFENTHRIN 7.9% FL L&T may vary with different sources of pesticide products, and local cultural practices. Any tank mixture which has not been previously tested should be prepared on a small scale (pint or quart jar), using the proper proportions of pesticides and water to ensure the physical compatibility of the mixture.

The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions: (1) Add wettable powders to tank water, (2) Agitate, (3) Add liquids and flowables, (4) Agitate, (5) Add emulsifiable concentrates, and (6) Agitate. If a mixture is found to be incompatible following this order of addition, try reversing the order of addition, or increase the volume of water.

**Note:** If the tank-mixture is found to be compatible after increasing the amount of water, then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight.

**Resistance:** Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state pest management authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and suspect that resistance is a reasonable cause, immediately consult your local company representative or pest management advisor for the best alternative method of control for your area.

#### APPLICATION RECOMMENDATIONS

**Lawns:** Apply BIFENTHRIN 7.9% FL L&T as a surface or sub-surface treatment. Use application volumes of up to 10 gallons per 1000 square feet to get uniform coverage when treating dense grass foliage.

For low volume applications, less than 2 gallons/1000 square feet, immediate irrigation of treated area with at least 0.25 inches of water following application is recommended to ensure efficacy of sub-surface pests such as, but not limited to, Mole Crickets.

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### LAWN APPLICATION RATES

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, BIFENTHRIN 7.9% FL L&T may be applied at up to 1 fluid oz. per 1000 square feet to control each of the pests listed in this

Table. The higher application rates should be used when maximum residual control is desired.

Pest	Application Rate of BIFENTHRIN 7.9% FL L&T
Armyworms <sup>1</sup> Cutworms <sup>1</sup> Sod Webworm <sup>1</sup>	0.18 - 0.25 fluid oz. per 1000 sq. ft.
Annual Bluegrass Weevil (Hyperodes) (Adult) <sup>2</sup> Banks Grass Mite <sup>6</sup> Billbugs (Adult) <sup>3</sup> Black Turfgrass Ataenius (Adult) <sup>4</sup> Centipedes Chinch Bugs <sup>5</sup> Crickets Earwigs Fleas (Adult) Grasshoppers Leafhoppers Mealybugs Millipedes Mites <sup>8</sup> Pillbugs Sowbugs	0.25 - 0.5 fluid oz. per 1000 sq. ft.
Ants Fleas (Larvae) <sup>7</sup> Imported Fire Ants <sup>9</sup> Japanese Beetle (Adult) Mole Cricket (Adult) <sup>9</sup> Mole Cricket (Nymph) <sup>10</sup>	0.5 - 1.0 fluid oz. per 1000 sq. ft.

### COMMENTS

<sup>1</sup>**Armyworms, Cutworms and Sod Webworms:** To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. If the grass area is being maintained at a mowing height of greater than 1 inch, then higher application rates (Up to 1 fluid oz. per 1000 square feet) may be required during periods of high pest pressure.

<sup>2</sup>**Annual Bluegrass Weevil (Hyperodes) adults:** Applications should be timed to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when *Forsythia* is in full bloom and concludes when flowering dogwood (*Cornus florida*) is in full bloom. Consult your State Cooperative Extension Service for more specific information regarding application timing.

<sup>3</sup>**Billbug adults:** Applications should be made when adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over-wintered chinch bugs.

<sup>4</sup>**Black Turfgrass Ataenius adults:** Applications should be made during May and July to control the first and second generation of black turfgrass ataenius adults, respectively. The May application should be timed to coincide with the full bloom stage of *Vanhoutte spiraea* (*Spiraea vanhouttei*) and horse chestnut (*Aesculus hippocastanum*). The July application should be timed to coincide with the blooming of Rose of Sharon (*Hibiscus syriacus*).

<sup>5</sup>**Chinch Bugs:** Chinch Bugs infest the base of grass plants and are often found in the thatch layer. Irrigation of the grass area before treatment will optimize the penetration of the insecticide to the area where the chinch bugs are located. Use higher volume applications if the thatch layer is excessive or if a relatively long mowing height is being maintained. Chinch Bugs can be one of the most difficult pests to control in grasses and the higher application rates (Up to 1 fluid oz. per 1000 square feet) may be required to control populations that contain both nymphs and adults during the middle of the summer.

<sup>6</sup>**Mites:** To ensure optimal control of eriophyid mites, apply in combination with the labeled application rate of a surfactant. A second application, five to seven days after the first may be necessary to achieve acceptable control.

<sup>7</sup>**Flea larvae:** Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Use a higher volume application when treating these areas to ensure penetration of the insecticide into the soil. Note: if the lawn area is being treated with BIFENTHRIN 7.9% FL L&T at 0.25 fluid oz. per 1000 square feet for adult flea control, then the larval application rate may be achieved by increasing the application volume two- to four-fold.

<sup>8</sup>**Imported Fire Ants:** Control will be optimized by combining broadcast applications that will control foraging workers and newly mated fly-in queens with mound drenches that will eliminate existing colonies. If the soil is not moist, then it is important to irrigate before application or use a high volume application. Broadcast treatments should apply 1 fluid oz. per 1,000 square feet. Mounds should be treated by diluting 1 teaspoon of BIFENTHRIN 7.9% FL L&T per gallon of water and applying 1 to 2 gallons of finished spray per mound. The mounds should be treated with sufficient force to break the apex and allow the insecticide solution to flow into the ant tunnels.

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<sup>10</sup>**Mole Cricket nymphs:** Grass areas that received intense adult mole cricket pressure in the spring should be treated immediately prior to peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging, nymphs later in the year may require both higher application rates and more frequent applications to maintain acceptable control. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.

### BIFENTHRIN 7.9% FL L&T Lawn Dilution Chart

Application Volume	Application Rate:	Fluid Ounces* of BIFENTHRIN 7.9% FL L&T			
		Diluted to these Volumes of Finished Spray			
Gallons Per 1000 sq. ft.	Fluid Ounces per 1000 sq. ft.	1 Gallon	5 Gallons	10 Gallons	100 Gallons
1.0	0.18	0.18	0.90	1.8	18.0
1.0	0.25	0.25	1.25	2.5	25.0
1.0	0.5	0.5	2.5	5.0	50.0
1.0	1.0	1.0	5.0	10.0	100.0
2.0	0.18	-	0.45	0.90	9.0
2.0	0.25	0.13	0.63	1.25	12.5
2.0	0.5	0.25	1.25	2.5	25.0
2.0	1.0	0.5	2.5	5.0	50.0
3.0	0.18	-	0.30	0.60	6.0
3.0	0.25	-	0.42	0.83	8.3
3.0	0.5	0.17	0.83	1.67	16.7
3.0	1.0	0.33	1.67	3.33	33.3
4.0	0.18	-	0.23	0.45	4.5
4.0	0.25	-	0.31	0.63	6.3
4.0	0.5	0.13	0.63	1.25	12.5
4.0	1.0	0.25	1.25	2.5	25.0
5.0	0.18	-	0.18	0.36	3.6
5.0	0.25	-	0.25	0.5	5.0
5.0	0.5	0.1	0.5	1.0	10.0
5.0	1.0	0.2	1.0	2.0	20.0
10.0	0.18	-	-	0.18	1.8
10.0	0.25	-	0.13	0.25	2.5
10.0	0.5	-	0.25	0.5	5.0
10.0	1.0	0.1	0.5	1.0	10.0

\*To convert to milliliters, multiply by 29.57

1 fluid oz. = 29.57 ml = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure BIFENTHRIN 7.9% FL L&T.

## ORNAMENTALS AND TREES

For ornamental applications (including but not limited to trees, shrubs, ground covers, bedding plants, and foliage plants) apply 0.125 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per 1,000 square feet or 5.4 to 43.5 fluid oz. per 100 gallons. BIFENTHRIN 7.9% FL L&T may be diluted and applied in various volumes of water providing that the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fluid oz. per 100 gallons) is not exceeded. BIFENTHRIN 7.9% FL L&T may be applied through low volume application equipment by dilution with water or other carriers and providing that the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fluid oz. per 100 gallons) is not exceeded.

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Apply the specified application rate as a full coverage foliar spray. Repeat treatment as necessary to achieve control using higher application rates as pest pressure and foliage area increases. Repeat application should be limited to no more than once per seven days.

Certain cultivars may be sensitive to the final spray solution. A small number of plants should be treated and observed for one week prior to application to the entire planting.

Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance

# BIFENTHRIN 7.9% FL L&T ORNAMENTAL DILUTION CHART

Application Volume:		Applic. Rate:	Fluid Ounces* of BIFENTHRIN 7.9% FL L&T			
			Diluted to these Volumes of Finished Spray			
Gallons Per 1000 sq. ft.	Acre	Fluid Ounces per 1000 sq. ft.	1 Gallon	5 Gallons	10 Gallons	100 Gallons
2.3	100	0.125	-	0.27	0.54	5.4
2.3	100	0.25	0.11	0.54	1.08	10.8
2.3	100	0.5	0.22	1.09	2.17	21.7
2.3	100	1.0	0.44	2.17	4.35	43.5
4.6	200	0.125	-	0.14	0.27	2.7
4.6	200	0.25	-	0.27	0.54	5.4
4.6	200	0.5	0.11	0.54	1.09	10.9
4.6	200	1.0	0.22	1.09	2.17	21.7
6.9	300	0.125	-	-	0.18	1.8
6.9	300	0.25	-	0.18	0.36	3.6
6.9	300	0.5	-	0.36	0.72	7.2
6.9	300	1.0	0.15	0.72	1.45	14.5

\*To convert to milliliters, multiply by 29.57

300 gallons per acre is a typical application volume for landscape ornamental applications.

1 fluid oz. = 29.57 ml = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure BIFENTHRIN 7.9% FL L&T.

Calculating Dilution Rates using the Ornamental Application Rates Table and the BIFENTHRIN 7.9% FL L&T Ornamental Dilution Chart: The following steps should be taken to determine the appropriate dilution of BIFENTHRIN 7.9% FL L&T that is required to control specific pests:

- 1) Identify the least susceptible target pest (the pest requiring the highest application rate for control)

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- 2) Select an application rate in terms of fluid oz. of Bifenthrin.
- 3) Identify your application volume and how much spray mix you want to prepare.
- 4) Use the Ornamental Dilution Chart to determine the appropriate volume of BIFENTHRIN 7.9% FL L&T that must be mixed in your desired volume of water.

For example, suppose you are trying to control black vine weevil adults on rhododendron. The Ornamental Application Rates table shows that 0.25 to 0.5 fluid oz. of BIFENTHRIN 7.9% FL L&T should be applied per 1,000 square feet. You select an application rate of 0.5 fluid oz. per 1,000 square feet because maximum residual control is desired. Your application volume is approximately 300 gallons per acre, which is equivalent to 6.9 gallons per 1,000 square feet. Consulting the Ornamental Dilution Chart reveals that you should dilute 0.72 fluid oz. of BIFENTHRIN 7.9% FL L&T in 10 gallons of water.

#### ORNAMENTAL APPLICATION RATES

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, BIFENTHRIN 7.9% FL L&T may be applied at up to 1 fluid oz. per 1,000 square feet (43.5 fluid oz. per 100 gallons) to control each of the pests listed in this Table. The higher application rates should be used when maximum residual control is desired.

PEST	Application Rate BIFENTHRIN 7.9% FL L&T	
	Fluid Ounces per 1000 square feet	Fluid Ounces per 100 gallons
Bagworms <sup>11</sup> Cutworms Elm Leaf Beetles Fall Webworms Gypsy Moth Caterpillars Lace Bugs Leaf Feeding Caterpillars Tent Caterpillars	0.125 - 0.25	5.4 - 10.8
Adelgids Ants Aphids Bees Beet Armyworm Beetles <sup>12</sup> Black Vine Weevil (Adults) Brown Soft Scales Broad Mites Budworms	0.25 - 0.5	10.8 - 21.7

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PEST	Application Rate BIFENTHRIN 7.9% FL L&T	
	Fluid Ounces per 1000 square feet	Fluid Ounces per 100 gallons
California Red Scale (Crawlers) <sup>12</sup>		
Centipedes		
Cicadas		
Citrus Thrips		
Clover Mites		
Crickets		
Diaprepes (Adults)		
Earwigs		
European Red Mite		
Flea Beetles		
Fungus Gnats (Adults)		
Grasshoppers		
Japanese Beetle (Adult)		
Leafhoppers		
Leafrollers		
Mealybugs		
Millipedes		
Mites		
Mosquitoes		
Orchid Weevil		
Pillbugs		
Pine Needle Scales (Crawlers) <sup>12</sup>		
Plant Bugs (Including <i>Lygus</i> spp.)		
Psyllids		
San Jose Scales (Crawlers) <sup>12</sup>		
Scorpions		
Sowbugs		
Spider Mites <sup>13</sup>		
Spiders.		
Spittlebugs		
Thrips		
Tip Moths		
Treehoppers		
Twig Borers <sup>12</sup>		
Wasps		
Weevils <sup>12</sup>		
Whiteflies		
Imported Fire Ants**	0.5 - 1.0	21.7 - 43.5
Leafminers		
Pecan Leaf Scorch Mite		
Pine Shoot Beetle (Adults)		
Spider Mites <sup>13</sup>		

<sup>12</sup>**Bagworms:** Apply when larvae begin to hatch and spray larvae directly. Applications when larvae are young will be most effective.

<sup>12</sup>**Beetles, Scale Crawlers, Twig Borers, and Weevils:** Treat trunks, stems and twigs in addition to plant foliage.

<sup>13</sup>**Spider Mites:** BIFENTHRIN 7.9% FL L&T provides optimal two-spotted spider



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mite control when applied during spring to mid-summer. Higher application rates and/or more frequent treatments may be required for acceptable two-spotted spider mite control during mid- to late-summer. The addition of a surfactant or horticultural oil may increase the effectiveness of BIFENTHRIN 7.9% FL L&T. Combinations of BIFENTHRIN 7.9% FL L&T with other registered miticides have also proven effective. Alternately, BIFENTHRIN 7.9% FL L&T applications may be rotated with those of other products that have different modes of action in control programs that are designed to manage resistance by two-spotted spider mites. Consult your local Cooperative Extension Service for resistance management recommendations in your region.

\*\*For foraging ants.

#### PEST CONTROL ON OUTSIDE SURFACES AND AROUND BUILDINGS

For control of Ants, Bees, Beetles, Biting Flies, Boxelder Bugs, Centipedes, Clover mites, Cockroaches, Crickets, Earwigs, Elm Leaf Beetles, Firebrats, Fleas, Flies, Millipedes, Mosquitoes, Pillbugs, Scorpions, Silverfish, Sowbugs, Spiders, and Wasps.

Apply BIFENTHRIN 7.9% FL L&T using a 0.02 to 0.06% suspension as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns such as grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, soil, trunks of woody ornamentals and other areas where pests congregate or have been seen. Use a spray volume of up to 10 gallons of emulsion per 1,000 square feet. Higher application volumes may be used to obtain the desired coverage of dense vegetation or landscaping materials.

**Mixing Directions:** For 0.02% suspension, mix 0.33 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water. For 0.06% emulsion, mix 1 fluid oz. BIFENTHRIN 7.9% FL L&T per gallon of water (1 fluid oz. = 2 tablespoons). Do not use household utensils to measure BIFENTHRIN 7.9% FL L&T. Use the higher rate for heavy pest infestation, quicker knockdown or longer residual control. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity. Repeat application should be limited to no more than once per seven days.

**Perimeter Treatment:** Treat a band of soil and vegetation 6 to 10 feet wide around and adjacent to the structure. Also, treat the foundation of the structure to a height of 2 to 3 feet. Apply 0.33 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per 1,000 square feet in sufficient water to provide adequate coverage (refer to Perimeter Application Dilution Chart).

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**BIFENTHRIN 7.9% FL L&T  
PERIMETER APPLICATION DILUTION CHART**

Application Volume	Application Rate	Fluid Ounces* of BIFENTHRIN 7.9% FL L&T Diluted to these Volumes of Finished Spray			
		1 Gallon	5 Gallons	10 Gallons	100 Gallons
1.0	0.33	0.33	1.67	3.33	33.3
1.0	0.5	0.5	2.5	5.0	50.0
1.0	0.67	0.67	3.33	6.67	66.7
1.0	0.75	0.75	3.75	7.5	75.0
1.0	1.0	1.0	5.0	10.0	100.0
2.0	0.33	0.17	0.83	1.65	16.5
2.0	0.5	0.25	1.25	2.5	25.0
2.0	0.67	0.33	1.67	3.35	33.5
2.0	0.75	0.38	1.88	3.75	37.5
2.0	1.0	0.5	2.5	5.0	50.0
3.0	0.33	0.11	0.55	1.10	11.0
3.0	0.5	0.17	0.83	1.67	16.7
3.0	0.67	0.22	1.11	2.23	22.3
3.0	0.75	0.25	1.25	2.5	25.0
3.0	1.0	0.33	1.67	3.33	33.3
4.0	0.33	-	0.41	0.83	8.3
4.0	0.5	0.13	0.63	1.25	12.5
4.0	0.67	0.17	0.84	1.67	16.7
4.0	0.75	0.19	0.94	1.88	18.8
4.0	1.0	0.25	1.25	2.5	25.0
5.0	0.33	-	0.33	0.67	6.7
5.0	0.5	0.1	0.5	1.0	10.0
5.0	0.67	0.13	0.67	1.33	13.3
5.0	0.75	0.15	0.75	1.5	15.0
5.0	1.0	0.2	1.0	2.0	20.0
10.0	0.33	-	0.17	0.33	3.3
10.0	0.5	-	0.25	0.5	5.0
10.0	0.67	-	0.33	0.67	6.7
10.0	0.75	-	0.38	0.75	7.5
10.0	1.0	0.1	0.5	1.0	10.0

\*To convert to milliliters, multiply by 29.57  
1 fluid oz. = 29.57 ml = 2 tablespoons = 6 teaspoons  
Do not use household utensils to measure BIFENTHRIN 7.9% FL L&T.

**For Ant and Fire Ant Mounds use BIFENTHRIN 7.9% FL L&T 0.06% emulsion as Drench Method:** Apply 1-2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around the mound. Use the higher volume for mounds larger than 12". For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.

**Mosquito Control:** Dilute 0.33 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general spray around landscapes, lawn and buildings to control mosquitoes. For higher volume applications, BIFENTHRIN 7.9% FL L&T may be diluted at

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lower concentrations and applied at greater volumes to deliver the desired amount of product per area (refer to the Ornamental or Perimeter Application Dilution Charts).

#### INDOOR USE

Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food/feed is exposed or facility is in operation. Serving areas are areas where prepared foods are served, such as dining rooms, but excluding areas where food may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.

Do not apply a broadcast application to interior surfaces of homes.

For control of ants, bees, beetles, boxelder bugs, centipedes, cockroaches, crickets, earwigs, firebrats, flies, millipedes, pillbugs, scorpions, silverfish, sowbugs, spiders, and wasps.

Use a 0.02% to 0.06% suspension (0.33 to 1 fluid oz. per gallon of water) for residual pest control in buildings and structures and on modes of transport. Apply either as a crack and crevice, pinstream, spot, coarse, low pressure spray (25 psi or less) or with a paint brush.

**Indoor Treatments:** Apply as a coarse, low pressure, crack and crevice or spot spray to areas where pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, stoves, the underside of shelves, drawers and similar areas. Do not use as a space spray. Pay particular attention to cracks and crevices.

**Mixing Directions:** See mixing directions in "Pest Control on Outside Surfaces and Around Buildings" section.

BIFENTHRIN 7.9% FL L&T is to be diluted with water for spray or brush application. Fill sprayer with the desired volume of water and add BIFENTHRIN 7.9% FL L&T. Close and shake before use in order to insure proper mixing. Mix only the amount of solution needed for the application. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity. Repeat application should be limited to no more than once per seven days.

**Cockroaches, Crickets, Firebrats, Scorpions, Silverfish, and Spiders:** Apply as a coarse, low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas,

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closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices.

**Ants:** Apply to any trails, around doors and windows and other places where ants may be found.

**Bees and Wasps:** Application to nests should be made late in the evening when insects are at rest. Thoroughly spray nest and entrance and surrounding areas where insects alight.

**Boxelder Bugs, Centipedes, Earwigs, Beetles, Millipedes, Pillbugs, and Sowbugs:** Apply around doors and windows and other places where these pests may be found or where they may enter premises. Spray baseboards, storage areas and other locations.

**Food Handling Establishments:** Places other than private residences in which food is held, processed, prepared or served.

**Nonfood Areas:** Permitted areas of use include industrial buildings, houses, apartment buildings, laboratories, buses, and the nonfood/feed areas of stores, warehouses, vessels, railcars, trucks, trailers, aircraft (Do not use in aircraft cabins); schools, nursing homes, hospitals, restaurants, hotels, food manufacturing, processing and service establishments. Nonfood/feed areas are areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets and storage (after canning or bottling). BIFENTHRIN 7.9% FL L&T may be used as a general spot, crack and crevice treatment in non-food areas. All areas where insects hide or through which insects may enter should be treated.

#### FOAM APPLICATIONS

BIFENTHRIN 7.9% FL L&T may be converted to foam and used to treat structural voids. Dilute 0.33 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and add the manufacturers recommended volume of foaming agent to produce a 0.02 to 0.06 percent foam concentration. Verify before treatment that the foaming agent is compatible with BIFENTHRIN 7.9% FL L&T.

#### TERMITE CONTROL (ABOVE GROUND ONLY)

The purpose of the applications described below are to kill termite workers or winged reproductives that may be present at the time of treatment. These applications are intended as supplements to, and not substitutes for, mechanical alteration, soil treatment or foundation treatment.

To control exposed workers and winged reproductive termites in a localized area, dilute 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T

To control above-ground termites in localized areas of infested wood, dilute 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply as a liquid or foam to voids and galleries in damaged wood as well as to spaces between wooden structural members and between the sill plate and foundation where wood is vulnerable to attack. Applications may be made to inaccessible areas by drilling and then injecting the dilution or foam, with a suitable directional injector into damaged wood or wall voids. All treatment holes drilled in construction elements in commonly occupied areas of structures should be securely plugged after treatment.

ANT CONTROL

**Nuisance Ants Indoors:** For best results, locate and treat ant nests. Dilute 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general surface, crack and crevice or spot treatment to areas where ants have been observed or are expected to forage. These areas include, but are not limited to, baseboards, in and behind cabinets, under and behind dishwashers, furnaces, refrigerators, sinks and stoves, around pipes, cracks and crevices and in corners. Particular attention should be given to treating entry points into the home or premises such as around doors and windows. When using BIFENTHRIN 7.9% FL L&T in combination with baits, apply Bifenthrin as instructed above, and use baits in other areas that have not been treated with Bifenthrin.

**Nuisance Ants Outdoors:** For best results, locate and treat ant nests. Apply BIFENTHRIN 7.9% FL L&T to ant trails around doors and windows and other places where ants have been observed or are expected to forage. Apply a perimeter treatment using either low or high volume applications described in the "Pest Control on Outside Surfaces and Around Buildings" section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for ant control. Maximum control is generally achieved using the following procedure:

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- 1) Treat non-porous surfaces with low volume applications using 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet.
- 2) Treat porous surfaces and vegetation with high volume applications using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per 1,000 square feet (refer to the Ornamental and Perimeter Application Dilution Charts).
- 3) For maximum residual control, dilute 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 square feet.

**Carpenter Ants Indoors:** Dilute 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general surface, crack and crevice or spot treatment to areas where carpenter ants have been observed or are expected to forage. These areas include, but are not limited to, baseboards, in and behind cabinets, under and behind dishwashers, furnaces, refrigerators, sinks, and stoves, around pipes, cracks and crevices and in corners. Particular attention should be given to treating entry points into the home or premises such as around doors and windows. Spray or foam into cracks and crevices or drill holes and spray, mist or foam into voids where carpenter ants or their nests are present. When using BIFENTHRIN 7.9% FL L&T in combination with baits, apply BIFENTHRIN 7.9% FL L&T as instructed above, and use baits in other areas that have not been treated with BIFENTHRIN 7.9% FL L&T.

**Carpenter Ants Outdoors:** Apply BIFENTHRIN 7.9% FL L&T to carpenter ant trails around doors and windows and other places where carpenter ants have been observed or are expected to forage. For best results, locate and treat carpenter ant nests. Apply a perimeter treatment using either low or high volume applications described in the "Pest Control on Outside Surfaces and Around Buildings" section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for carpenter ant control. Maximum control is generally achieved using the following procedure:

- 1) Treat non-porous surfaces with low volume applications using 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet
- 2) Treat the trunks of trees that have carpenter ant trails upon which carpenter ants are foraging, using 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and

- 3) Treat porous surfaces and vegetation with high volume applications using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per 1,000 square feet (refer to the Ornamental and Perimeter Application Dilution Charts)
- 4) For maximum residual control, dilute 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 square feet.

To control carpenter ants inside trees, utility poles, fencing or deck materials and similar structural members, drill to locate the interior infested cavity and inject or foam a 0.06% dilution (1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water) into the cavity using a sufficient volume and an appropriate treatment tool with a splash-back guard.

To control carpenter ants that are tunneling in the soil, dilute 0.5 to 1.0 fluid ounces of BIFENTHRIN 7.9% FL L&T per gallon of water and apply as a drench or inject the dilution or foam at intervals of 8 to 12 inches. Establish a uniform vertical barrier at the edges of walls, driveways or other hard surfaces where ants are tunneling beneath the surfaces.

For wood piles and stored lumber apply a 0.06% emulsion. Use a hose-end sprayer or sprinkling can to deliver a coarse drenching spray. Treated wood can be burned or used for lumber one month after treatment. Do not use in structures.

To protect firewood from carpenter ants (and termites), dilute 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply to the soil beneath where the firewood will be stacked at the rate of one gallon of dilution per 8 square feet. DO NOT treat firewood with this product.

## ATTENTION

Do not allow people or pets on treated surfaces until spray has dried.

Let surfaces dry before allowing people and pets to contact surfaces.

Do not treat pets with this product

Do not apply this pesticide when classrooms are in use.

Do not apply this pesticide in occupied patient rooms, or in any rooms occupied by the infirm, elderly or children for extended periods of time.

Do not apply this pesticide in livestock buildings (barns).

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BIFENTHRIN 7.9% FL L&T will not stain or damage any surface that water alone will not stain or damage.

Application equipment that delivers low volume treatments, such as the Micro Injector or Actisol applicators, may also be used to make crack and crevice, deep harborage, spot and general surface treatments of BIFENTHRIN 7.9% FL L&T.

**Dealers Should Sell in Original Packages Only**

**Warranty and Disclaimer Statement**

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

Arysta 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, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

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