

73748-7

8/26/2009

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

AUG 26 2009

Jane Miller
Agent for Univar USA, Inc.
c/o Biologic Inc.
115 Obtuse Hill
Brookfield, Connecticut 06804

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

Dear Ms. Miller:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated July 13, 2009 for:

EPA Registration 73748-7 Masterline Bifenthrin 7.9 Termiticide 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 nonrefillable 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 Nicole Williams of my staff at 703-308-5551.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

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

20927



United States
Environmental Protection Agency
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 73748-7	2. EPA Product Manager R. Gebken	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Masterline Bifenthrin 7.9 Termiticide/Insecticide	PM# 13	
5. Name and Address of Applicant (Include ZIP Code) Univar USA, Inc. 9430 Research Blvd., Suite 350, Echelon Bldg. IV Austin, TX 78759 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: NOTIFICATION EPA Reg. No. _____ AUG 26 2009 Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

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 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and 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 checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 2.5, 5, 15, 30 gal.		5. Location of Label Directions <input checked="" type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Jane M. Miller	Title Agent	Telephone No. (Include Area Code) (203) 740-1200
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. 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)
2. Signature 	3. Title Agent	
4. Typed Name Jane M. Miller	5. Date July 13, 2009	

July 13, 2009

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
US Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Room S-4900, 4th Floor
Arlington, VA 22202

Attention: Mr. R. Gebken (PM #13)

RE: "Masterline Bifenthrin 7.9 Termiticide/Insecticide"; EPA Reg. No. 73748-7
Notification to revise Storage and Disposal Statement

Dear Mr. Gebken:

On behalf of Univar USA, Inc. please find enclosed the following:

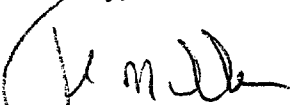
"Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of 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 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

The following documents are enclosed to process this Notification:

1. Application for Pesticide Notification (8570-1)
2. One (1) copy of the draft label with the additional language underlined.

Should you have any questions, or wish to reach me, please feel free to contact our office at 203-740-1200.

Sincerely,


Jane Miller
Agent to Univar USA, Inc.

203-740-1200
www.biologicconsulting.com

Bracketed text [] optional language

Masterline Bifenthrin 7.9 Termiticide/Insecticide

- [Multi Use Insecticide]
- [Mixes Easily with Water]
- [Controls a Wide Range of Insects and Mites on Trees, Shrubs, Flowering Plants, Non-Bearing Fruit and Nut Trees, and Flowers]
- [Controls Pests Indoors and Outdoors on Residential, Institutional, Public, Commercial, and Industrial Buildings, and Lawns, Ornamentals, Parks, Recreational Areas and Athletic Fields.]
- [For Use in Interiorscapes including Hotels, Shopping Malls, and Office Buildings]
- [For Use in Outdoor Plantscapes including Residential Dwellings, Parks, Institutional Buildings, Recreational Areas, Athletic Fields, and Home Lawns]
- [Prevents and Controls Termites [In] [and] [Around] [Structures] [and] [Constructions]
- [Prevents and Controls Ticks (including ticks that may transmit Lyme Disease and Rocky Mountain Spotted Fever)
- [For the Control of Deer ticks (Ixodes sp.)]
- [<PRODUCT NAME> contains Bifenthrin, the active ingredient used in <BRAND NAME>™ or ®.]
- [<PRODUCT NAME> is not manufactured or distributed by <BASIC REGISTRANT / BRAND HOLDER>, seller of <BRAND>™ or ®.]
- [<BRAND>™ or ® is a trademark of <TRADEMARK HOLDER>.]

When used as a Termiticide, Individuals/ Firms must be licensed by the State to apply termiticide products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the pest control regulatory agency of your State prior to use of this product.

Active Ingredient:	By Wt.
Bifenthrin*	7.9%
Other Ingredients:	<u>92.1%</u>
Total	100.0%

Contains 3/8 pound active ingredient per gallon.
*Cis isomers 97% minimum, trans isomers 3% maximum.

KEEP OUT OF REACH OF CHILDREN CAUTION

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 the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • 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.
If on skin or clothing	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye. • Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For a medical emergency involving this product, call 800-222-1222.	
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.	

Orig. Approval 2/8/2007
Label Notification Approved 9/27/2007
Storage & Disposal Notification 07/13/2009

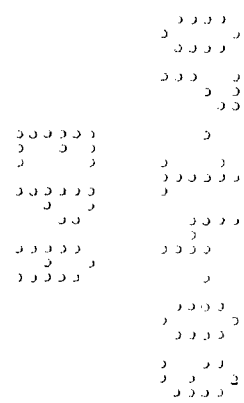
- Do not apply by air.
- Do not apply in greenhouses, nurseries.
- Do not apply this product through any kind of irrigation system.
- Not for use on sod farm turf, golf course turf, or grass grown for seed.
- Do not apply to pets, crops, or sources of electricity.
- Firewood is not to be treated.
- Do not apply this product in livestock buildings (barns).
- Do not broadcast apply more than 0.4 lbs. a.i. per acre per year.
- For residential lawn use, do not apply more than 0.2 lbs. a.i. per acre per application.

In New York State:

- This product may not be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
- A single repeat application of Masterline Bifenthrin 7.9 Termiticide/Insecticide may be made if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

Application equipment that delivers low volume treatments, such as Patriot Injector® or Actisol® applicators, may also be used to make crack and crevice, deep harborage, spot and general surface treatments of Masterline Bifenthrin 7.9 Termiticide/Insecticide.

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.



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 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 rinsate 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:

Plastic Container: Triple rinse (or equivalent).

Nonrefillable Container. Do not reuse or refill container. Offer for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

Containers 5 gallons or less: 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 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. Once cleaned, offer for recycling if available.

Containers larger than 5 gallons: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip 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. Once cleaned, offer for recycling or reconditioning if appropriate.

Pressure rinse as follows (all sizes): Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use for disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with 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 the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing process two more times.

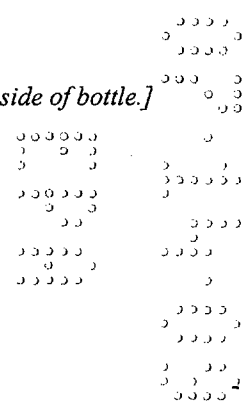
Returnable/ Refillable Sealed Container: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC 1-800-424-9300.

[Use Directions for Tip-N-Measure Container

1. Remove the measuring chamber cap and induction seal. Replace the cap and securely tighten. Tip container until liquid fills measuring chamber.
2. Return container to level position. No adjustment is needed.
3. Remove measuring chamber cap and dispense into proper application equipment.

For multiple dose measuring, remove fill chamber cap and dispense according to markings on side of bottle.]



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[Use Directions for Squeeze-N-Measure Container

1. Remove the measuring chamber cap and induction seal.
2. Replace cap loosely on measuring chamber to allow venting.
3. Squeeze container gently until liquid fills measuring chamber.
4. Remove measuring chamber cap and dispense into proper application equipment.
5. Replace cap onto measuring chamber and tighten]

SUBTERRANEAN TERMITE CONTROL

General Information

Using this product in and around structures and building construction will prevent and control termite infestations.

To institute a barrier between the wood and the termites in the soil, the chemical dilution must be effectively dispersed in the soil. It is important to remove unnecessary materials that contain cellulose and wood from around foundation walls, crawl spaces (inside of structure), and porches, and fix damaged plumbing and construction grade in order to deny termite access to moisture.

To use this product effectively, it is important that the service technician be familiar with current termite control practices including trenching, rodding, sub-slab injection, low-pressure spray application, coarse fan spraying of soil surfaces, crack and crevice (void) injection, excavated soil treatment, and brush or spray applications to infested or susceptible wood. Using these techniques correctly is essential to prevent or control infestations by subterranean termite species of genera *Coptotermes*, *Heterotermes*, *Reticulitermes* and *Zootermopsis*. When determining what procedures to follow, the service technician should consider certain variables such as biology and behavior of the termite specie, structure design, heating ventilation, and air conditioning (HVAC) systems, water table, soil type and compaction, grade conditions, and the location and type of domestic water supplies and utilities.

For information concerning the most up to date control practices in a given region or locale, consult the local resources for structural pest control, state cooperative extensions, and regulatory agencies.

Important: Observe the following precautions to avoid contamination of public and private water supplies:

- Use anti-backflow equipment or procedures to prevent siphonage of insecticide into water supplies.
- Do not contaminate cisterns, wells, or other water tanks by treating the soil beneath these structures.
- Do not treat soil that is water saturated or frozen.
- Do not treat soil where runoff may occur.
- Consult state and local specifications for recommended treatment practices in your area.
- If local or state specifications do not exist, consult the Federal Housing Administration Specifications (H.U.D.) guidance documents.

Note: For the purpose of this label, crawl spaces are defined as being inside of the structure.

Critical Areas: Points at which the foundation is penetrated or abuts another structure are Critical Areas. These include utility entry points, cracks and expansion joints, bath traps and adjacent structures such as stairs, patios and slab additions.

Structures with Wells/ Cisterns Inside Foundations

Structures that contain wells or cisterns within the foundation of a structure can only be treated using the following techniques:

1. Do not treat soil while it is beneath or within the foundation or along the exterior perimeter of a structure that contains a well or cistern. The treated backfill method must be used if soil is removed and treated outside/away from the foundation. The treated backfill technique is described as follows:
 - a) Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.
 - b) Treat the soil at the rate of 4 gallons of dilute emulsion per 10 linear feet per foot of depth of the trench, or 1 gallon per 1.0 cubic feet of soil. See **Mixing Directions** section of this label. Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage.
 - c) After the treated soil has absorbed the diluted emulsion, replace the soil into the trench.

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- 2. Treat infested and/or damaged wood in place using an injection technique such as described in the **Control of Wood Infesting Insects** section of this label.

Structures with Adjacent Wells/ Cisterns and/or Other Water Bodies

Applicators must inspect all structures with nearby water sources such as wells, cisterns, surface ponds, streams, and other bodies of water and evaluate, at a minimum, the treatment recommendations listed below prior to making an application

- 1. Prior to treatment, if feasible, expose the water pipe(s) coming from the well to the structure, if the pipe(s) enter the structure within 3 feet of grade.
- 2. Prior to treatment, applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains that could empty into any bodies of water. These precautions include evaluating whether application of the termiticide to the top of the footer may result in contamination of the subsurface drain. Factors such as depth to the drain system and soil type and degree of compaction should be taken into account in determining the depth of the treatment.
- 3. When appropriate (i.e., on the water side of the structure), the treated backfill technique (described above) can also be used to minimize off-site movement of termiticide.

Before these techniques are used close to cisterns, wells, or other bodies of water, seek advice from local, state or federal agencies for information on treatment practices that are acceptable in your area.

Application Rate:

Use a 0.06% dilution for subterranean termites. For other pests on the label use specific listed rates.

Mixing Directions: Mix the termiticide use dilution in the following manner:

- 1. Fill tank ¼ to ½ full.
- 2. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose.
- 3. Add appropriate amount of Masterline Bifenthrin 7.9 Termiticide/Insecticide.
- 4. Add remaining amount of water.
- 5. Let pump run and allow recirculation through the hose for 2 to 3 minutes.

Masterline Bifenthrin 7.9 Termiticide/Insecticide may also be combined into full tanks of water. If combined into full tanks of water, allow sufficient time for agitation and/or recirculation to ensure consistency of dilution.

To prepare a 0.06% water dilution, ready to use, dilute 3 quarts of Masterline Bifenthrin 7.9 Termiticide/Insecticide with 99.25 gallons of water.

Mixing:

Using the chart below, determine the volume of Masterline Bifenthrin 7.9 Termiticide/Insecticide and water to produce the desired volume of finished dilution.

Amount of Masterline Bifenthrin 7.9 Termiticide/Insecticide (Gallons except where noted)			
Emulsion Concentrate	Amount of Masterline Bifenthrin 7.9 Termiticide/Insecticide	Amount of Water	Desired Gallons of Finished Emulsion
0.06%	1 oz.	127 oz.	1
	5 oz.	4.9	5
	10 oz.	9.9	10
	25 oz.	24.8	25
	1.5 qt.	49.6	50
	2.25 qt.	74.4	75
	3 qt.	99.25	100
	4.5 qt.	148.8	150
0.12%*	6 qt.	198.5	200
	2 oz.	126 oz.	1
	10 oz.	4.9	5
	19.5 oz.	9.8	10

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Apply 1 gallon of 0.06% emulsion per 10 square feet, or use 1 fluid ounce of Masterline Bifenthrin 7.9 Termiticide/Insecticide per 10 square feet in sufficient water (no less than 1/2 gallon or more than 2 gallons) to provide a uniform treated barrier for the area being treated.

If the fill is coarse aggregate, such as washed gravel, a sufficient volume of emulsion must be applied to allow it to reach the soil beneath the coarse fill.

Make applications with a low-pressure spray (less than 50 p.s.i.) using a coarse spray nozzle. If foundation walls have not been installed around the treated soil and the slab will not be poured the same day as treatment, the treated soil must be covered with a water-proof barrier. Polyethylene sheeting may be used for this purpose.

Vertical Barriers

Vertical barriers must be established in Critical Areas such as along the inside of foundation walls, plumbing, bath traps, utility services and other features that will penetrate the slab.

Using a 0.06% emulsion, apply 4 gallons of emulsion per 10 linear feet per foot of depth or 4 fluid ounces of Masterline Bifenthrin 7.9 Termiticide/Insecticide per 10 linear feet per foot of depth from grade level to the top of the footing in sufficient water (not less than 2 gallons or more than 8 gallons) to provide a uniform treated barrier.

When trenching and rodding into the trench, or trenching, ensure that the emulsion reaches the top of the footing. Space rod holes so that a continuous treated barrier is created, but not exceeding 12 inches apart. Avoid soil wash-out around the footing. Trenches should be about 6 inches wide and 6 inches deep. Mix the chemical emulsion with the soil as it is being replaced in the trench. Inside vertical barriers may not be required for monolithic slabs.

When treating hollow block voids, use 2 gallons of emulsion per 10 linear feet to assure that the emulsion reaches the top of the footing..

Prior to each application, applicators must notify the general contractor, construction superintendent, or similar responsible party, of the intended termiticide application and intended sites of application and instruct the responsible person to notify construction workers and other individuals to leave the area to be treated during application and until the termiticide is absorbed into the soil.

Post Construction Subterranean Termite Treatment

For a post-construction treatment, use a 0.06% emulsion. Post-construction treatments shall be made by subslab injection, trenching and rodding into the trench or trenching using a low-pressure spray not exceeding 25 p.s.i at the nozzle. Proper precautions should be taken to avoid soil wash-out around the footing.

Locate, identify, and mark wells, electrical conduits, water and sewer lines, and radiant heat pipes prior to application of Masterline Bifenthrin 7.9 Termiticide/Insecticide. Do not puncture or inject Masterline Bifenthrin 7.9 Termiticide/Insecticide into these structures.

Basements

Treatment must be made by trenching and rodding into the trench, or trenching at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth wherever the footing, from grade to the bottom of the foundation, is greater than 1 foot of depth. When the footer is greater than four feet below grade, the applicator may trench and rod into the trench, or trench beside foundation walls at the rate designated for four feet of depth. Space rod holes to create a continuous insecticidal barrier, but in no case more than 12 inches apart. Depending on the type of soil, degree of compaction and location of termite activity, the actual depth of treatment will differ. However, a structure should never be treated below the footer. Sub-slab injection may be needed beside the inside of foundation walls, around conduits, piers, and pipes, beside both sides of interior footing-supported walls, and beside cracks and partition walls.

Accessible Crawl Spaces: For crawl spaces, apply vertical termiticide barriers at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Apply by trenching and rodding into the trench, or trenching. Treat both sides of foundation and around all piers and pipes. Where physical obstructions such as concrete walkways adjacent to

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foundation elements prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. Read and follow the mixing and use direction section of the label if situations are encountered where the soil will not accept the full application volume.

1. Rod holes and trenches must not extend below the bottom of the footing.
2. Rod holes must be spaced so as to achieve a continuous termiticide barrier but in no case more than 12 inches apart.
3. Trenches must be a minimum of 6 inches deep or to the bottom of the footing, whichever is less, and need not to be wider than 6 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and prevent termiticide from running off. The emulsion must be mixed with the soil as it is replaced in the trench.
4. When treating plenums or crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.

Inaccessible Crawl Spaces: For inaccessible interior areas, such as areas where there is insufficient clearance between floor joists and ground surfaces to allow operator access, excavate if possible, and treat according to the instruction for accessible crawl spaces. Otherwise, apply one or a combination of the following two methods.

1. To establish a horizontal barrier, apply to the soil surface, 1 gallon of emulsion per 10 square feet overall using a nozzle pressure of less than 25 p.s.i. and a coarse application nozzle (e.g., Delavan® Type RD Raindrop®, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet® or comparable nozzle). For an area that cannot be reached with the application wand, use one or more extension rods to make the application to the soil. Do not broadcast or powerspray with higher pressures.
2. To establish a horizontal barrier, drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 1 gallon of emulsion per 10 square feet. Drill spacing must be at intervals not to exceed 16 inches. Many states have smaller intervals, so check State regulations which may apply.

When treating plenums and crawl spaces, turn off the air circulation systems of the structure until application has been completed and all termiticide has been absorbed by the soil.

Excavation Technique: When treating in troublesome areas (e.g., beside fieldstone or rubble walls, beside faulty foundation walls, and around pipes and utility lines leading downward from the structure to a well or pond) apply using the following technique:

- a. Prepare a trench, placing the removed soil into heavy-weight plastic sheeting or similar, water-impermeable material.
- b. Treat the soil with 4 gallons of 0.06% emulsion per 10 linear feet per foot of depth of the trench. Completely mix the emulsion into the soil exercising care to avoid liquid running off the sheeting.
- c. Place the treated soil back into the trench after it has absorbed the emulsion.

Attention: Wear NIOSH approved unvented goggles and a respirator when applying Masterline Bifenthrin 7.9 Termiticide/Insecticide in a confined area.

Foundations

For applications made after the final grade is installed, the applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to the top of the footing. When the footing is more than four (4) feet below grade, the applicator must trench and rod into the trench or trench along the foundation walls at the rate prescribed to a minimum depth of four feet. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

Masonry Voids: Drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil in order to create a continuous treatment barrier in the area to be treated. Apply at a rate of 2 gallons of emulsion per 10 linear feet of footing, using a nozzle pressure of less than 25 p.s.i. When using this treatment, access holes must be drilled below the sill plate and should be as close as possible to the footing as is practical. Treatment of voids in block or rubble foundation walls must be closely examined. Applicators must inspect areas of possible runoff as a precaution.

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against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy the contaminated areas of the structure until the clean-up is completed.

Note: When treating behind veneer structures (walls, etc.) take proper care to not drill beyond the veneer. If concrete blocks exist behind the veneer, both can be drilled and treated simultaneously.

Masterline Bifenthrin 7.9 Termiticide/Insecticide may not be used in voids insulated with rigid foam insulation.

Slabs

Create vertical barriers by trenching and rodding into the trench or trenching outside at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth and by sub-slab injection within the structure. Ensure an even distribution of chemical. Applications must not be made below the bottom of the footing.

Apply beside the outside of the foundation and under the slab on the inside of foundation walls, where needed. Treatment of slabs may also be necessary under and beside both sides of any interior footing-supported walls, in all cracks and expansion joints, and beside one side of interior partitions. By long-rodding or grid pattern injection vertically through the slab, horizontal barriers may be created where necessary.

- a. To permit the creation of an uninterrupted insecticidal barrier, drill holes in the foundation and/or slab.
- b. For foundations that are less than or equal to 1 foot, dig a narrow trench about 6 inches wide beside the outside of the foundation walls. Do not dig beneath the bottom of the footing. As the soil is placed back into the trench, apply 4 gallons of 0.06% emulsion per 10 linear feet per foot of depth to the trench and soil.
- c. For foundations that are deeper than 1 foot, follow the rates stated above for basements
- d. A 0.06% emulsion may be used to treat exposed wood in bath traps.

SPECIFIC PEST CONTROL APPLICATIONS

Underground Services such as, but not limited to: wires, cables, utility lines, pipes, conduits, etc. Services may be within structures, in right-of-ways or to protect long range (miles) of installations of services.

To prevent attack by termites and ants, apply 0.06 to 0.12% Masterline Bifenthrin 7.9 Termiticide/Insecticide emulsion to the soil.

Apply to the bottom of the trench at the rate of 2 gallons of emulsion per 10 linear feet. Let the emulsion be absorbed into the soil. Lay services on the treated soil and cover with about 2 inches of fill soil. Apply another 2 gallons per 10 linear feet over the soil surface to complete the chemical barrier. In wide trenches, only the soil near the services should be treated. A continuous barrier of treated soil surrounding the services must be established.

In cases where the soil will not accept the above labeled volume, 1 gallon of 0.12% Masterline Bifenthrin 7.9 Termiticide/Insecticide may be used per 10 linear feet of trench. Apply both to the bottom of the trench and over the soil on top of the services.

Fill the trench with treated fill soil. Treat the soil where each service sticks out from the ground by trenching/ rodding of not more than 1 to 2 gallons of emulsion into the soil.

Precautions: Do not treat electrically active underground services.

Posts, Poles, and Other Constructions: Around wooden constructions such as signs, fences and landscape ornamentation an insecticidal barrier can be established by treating with a 0.06% emulsion. Sub-surface injection and gravity-flow through holes in the bottom of the trench, are two treatment methods that can be used on poles and posts that have already been installed. A complete chemical barrier around the pole can be established by treating on all sides. For poles and posts less than six inches in diameter use 1 gallon of emulsion per foot of depth and for larger poles, use 1.5 gallons of emulsion per foot of depth. Apply to a depth of 6 inches below the bottom of the wood. For larger constructions, use 4 gallons per 10 linear feet per foot of depth.

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LAWNS AND ORNAMENTALS

General Application Instructions

Masterline Bifenthrin 7.9 Termiticide/Insecticide may be mixed with water and other aqueous carriers for the control of insects and mites on trees, shrubs, foliage plants, non-bearing (perennial crops that will not produce a harvestable raw agricultural commodity during the season of application) 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.

In New York State:

- This product may not be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
- A single repeat application of Masterline Bifenthrin 7.9 Termiticide/Insecticide may be made if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

Masterline Bifenthrin 7.9 Termiticide/Insecticide may be tank-mixed with insect growth regulators as well as other pesticides. Observe all precautions and the Directions for Use for each tank mix product. Physical compatibility of Masterline Bifenthrin 7.9 Termiticide/Insecticide may vary with different combinations of products, and local cultural practices. Prepare a small scale (pint or quart jar) test sample for any combination not tested previously. Use the proper proportions of pesticides and water to make sure of the compatibility of the mixture.

Unless otherwise noted, follow the procedure below to prepare a tank mix:

- 1) Add wettable powders to tank water
- 2) Agitate
- 3) Add liquids and flowables
- 4) Agitate
- 5) Add emulsifiable concentrates
- 6) Agitate

Try reversing the order of addition, or increasing the amount of water if the combination is not compatible using the order listed above.

Note: After increasing the amount of water, if the mixture is found to be compatible, it will be necessary to recalibrate the sprayer for the higher volume application. Do not allow mixture to stand overnight.

Resistance: Some insects may 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 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 in your area.

Lawn Application Recommendations

Apply Masterline Bifenthrin 7.9 Termiticide/Insecticide as a broadcast treatment. For uniform control when applying to dense grass foliage, use volumes of up to 10 gallons per 1,000 square feet.

To ensure control of sub-surface pests, including but not limited to Mole Crickets, using low volume applications, (less than 2 gallons per 1,000 square feet) immediately follow treatment with irrigation of treated area with at least 0.25 inches of water.

Application Rates

Under typical conditions, the application rates shown in the table below will provide control of the listed pests. Follow the application rates listed in the table below for typical pest pressure. Masterline Bifenthrin 7.9 Termiticide/Insecticide may

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be applied at up to 1 fl. oz. per 1000 square feet at the discretion of the applicator. Use the higher application rate for maximum residual control.

Pest	Application Rate	Application Instructions
Armyworms Cutworms Sod Webworm	0.18 - 0.25 fl. oz. per 1,000 sq. ft.	For best results, postpone watering (irrigation) or mowing for 24 hours after application. Higher treatment rates (up to 1 fluid oz. per 1000 square feet) may be necessary if high pest pressure exists and grass is maintained taller than 1 inch.
Annual Bluegrass Weevil (Hyperodes) (Adult) Banks Grass Mite Billbugs (Adult) Black Turfgrass Ataenius (Adult) Centipedes Chinch Bugs Crickets Earwigs Fleas (Adult) Grasshoppers Leafhoppers Mealybugs Millipedes Mites Pillbugs Sowbugs	0.25 - 0.5 fl. oz. per 1,000 sq. ft.	<p>Annual Bluegrass Weevil (<i>Hyperodes</i>) adults: Treatment should be timed as they travel into grass away from their overwintering sites. Travel usually begins when <i>Forsythia</i> is in full bloom and concludes when flowering dogwood (<i>Cornus florida</i>) is in full bloom. For additional detailed information, check with your State Cooperative Extension Service.</p> <p>Billbug adults: Treatment should be made when adult billbugs are first noticed in April and May. To optimize treatment, degree day models have been developed. For additional detailed information, check with your State Cooperative Extension Service. Spring treatments for billbug adults will also offer control of over-wintered chinch bugs in temperate climates.</p> <p>Black Turfgrass Ataenius adults: To control the first and second generation of black turfgrass ataenius adults, respectively, treatments should take place in May and July. Time the May treatment to coincide with the full bloom stage of Vanhoutte spiraea (<i>Spiraea vanhoutte</i>) and horse chestnut (<i>Aesculus hippocastanum</i>). Time the July treatment to coincide with the blooming Rose of Sharon (<i>Hibiscus syriacus</i>).</p> <p>Chinch Bugs: Mostly found in the thatch layer, Chinch bugs infest the base of grass plants. In order to optimize the penetration of the insecticide to location of the chinch bugs, irrigation of the grass prior to treatment may be necessary. If the grass is kept at a long mowing height or if the thatch layer excessive, use higher volume treatments. It may be necessary to use higher application rates (up to 1 fluid oz. per 1000 square feet) to control Chinch Bug populations made up of both nymphs and adults in mid summer.</p> <p>Mites: Apply in combination with a labeled application rate of a surfactant to achieve optimal control of eriophyid mites. A second application may be needed, five to seven days after the first, to ensure optimal control.</p>
Crane Flies	0.5 fl. oz. per 1,000 sq. ft.	Applications should be made August – February to control early to mid-season larvae as they feed on plant crowns. Applications made March – April to late-season larvae may aid in suppression.
Ants Fleas (Larvae) Imported Fire Ants Japanese Beetle (Adult) Mole Cricket (Adult) Mole Cricket (Nymph) Ticks	0.5 - 1.0 fl. oz. per 1,000 sq. ft.	<p>Flea larvae: Flea larvae mature in shaded areas accessible to pets or other animals. When treating these areas use a higher volume treatment so that the insecticide penetrates into the soil. Note: If the lawn area is being treated with Masterline Bifenthrin 7.9 Termiticide/Insecticide at 0.25 fluid ounces per 1000 square feet for adult flea control, then the larval application rate can be accomplished by a two- to four-fold increase in spray volume.</p> <p>Imported Fire Ants: For best control use broadcast treatments in combination with mound drenches. This will control present colonies along with foraging workers and newly mated fly-in queens. It is critical either to use high volume treatments or to irrigate prior to application if the soil is dry. Apply 1 fluid oz. per 1,000 square feet when using broadcast treatments. For mound drenches, dilute 1 teaspoon of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and use 1 to 2 gallons of finished spray per mound using sufficient force to penetrate the top and allow the emulsion to flood ant channels. Treat a four foot diameter around each ant mound. Application should be made in late evening or early morning when it is cooler (65-80°F). Note: A spray rig calibrated to apply 1</p>

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	<p>fluid oz. per 1,000 square feet of Masterline Bifenthrin 7.9 Termiticide/Insecticide in 5 gallons per 1,000 square feet contains the equivalent emulsion (1 teaspoon per gallon) required for fire ant mound drenches in the spray tank.</p> <p>Mole Cricket adults: Since the preferred grass areas are subject to constant invasion in early spring by the active adult stage, it can be difficult to maintain control of adult mole crickets. Make treatments as late in the day as possible and follow with up to 0.5 inches of water after treatment. To ensure maximum contact with the insecticide when the soil is dry, irrigate prior to treatment to bring the adult mole crickets closer to the soil surface. To obtain optimal control of potential nymphal populations, the grass areas preferred by adult mole crickets in the should be treated immediately prior to peak hatch stage. (see below).</p> <p>Mole Cricket nymphs: To obtain optimal control of potential nymphal populations, the grass areas preferred by adult mole crickets in the spring should be treated immediately prior to peak hatch stage. Young nymphs are more vulnerable to insecticidal treatment at this stage because they are close to the soil surface where the insecticide is most effective. Use higher application rates and frequent applications to control larger, more damaging, nymphs later in the year. Make treatments as late in the day as possible and water immediately with up to 0.5 inches of water. To ensure maximum contact with the insecticide when the soil is dry, irrigate prior to treatment to bring the adult mole crickets closer to the soil surface.</p> <p>Ticks (including ticks that may transmit Lyme Disease and Rocky Mountain Spotted Fever): Make application to the entire area where contact with ticks may occur. Do not make spot treatments. When applying to areas with heavy leaf litter or dense ground cover use higher spray volumes. To attain and/or sustain control in times of high pest pressure, retreatments may be necessary; retreat only if signs of continued or renewed tick activity are present. Repeat treatments should not be made more often than once per seven days.</p> <p>Deer ticks (<i>Ixodes sp.</i>) have a four-stage life cycle spanning 2 years. Treat in the late fall and/or early spring to control adult ticks located on brush or grass above the soil surface and in mid to late spring to control larvae and nymphs that live in the soil and leaf litter.</p> <p>American dog ticks invade suburban settings in areas where residences and dwellings are constructed on former fields or wooded areas. These pests normally gather by paths or roadways where they are likely to find a host. To control tick larvae, nymphs and adults, treatments should take place, as needed, from mid spring to early fall.</p>
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Calculating Dilution Rates: To determine the proper dilution of Masterline Bifenthrin 7.9 Termiticide/Insecticide that is required to control specific pests, follow the steps below:

- 1) Determine the target pest requiring the highest application rate for effective control in the **Application Rates** chart.
- 2) Choose the treatment rate in terms of fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide.
- 3) Determine the dilution volume necessary for the treatment in the **Dilution Chart**.
- 4) Use the proper amount of Masterline Bifenthrin 7.9 Termiticide/Insecticide that must be mixed in your desired volume of water as shown in the **Dilution Chart**.

For example, to control ticks the **Application Rates** table shows that 0.5 to 1.0 fluid ounces of Masterline Bifenthrin 7.9 Termiticide/Insecticide should be applied per 1,000 square feet. You select an application rate of 1.0 fluid oz. per 1,000 square feet because maximum residual control is desired. Your application volume is approximately 10 gallons per 1,000 sq. ft. Consulting the **Lawn Dilution Chart** reveals that you should dilute 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide in 10 gallons of water.

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Lawn Application Dilution Chart

Application Volume	Application Rate	Fluid Ounces* of Masterline Bifenthrin 7.9 Termiticide/Insecticide Diluted to these Volumes of Finished Spray			
		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 ounce = 29.57 ml = 2 tablespoons = 6 teaspoons
 Do not use household utensils to measure Masterline Bifenthrin 7.9 Termiticide/Insecticide.

Ornamentals and Trees Application Recommendations

Masterline Bifenthrin 7.9 Termiticide/Insecticide is for use on, but not limited to, trees, shrubs, ground covers, bedding plants, and foliage plants. Treat with 0.125 to 1.0 fl. oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per 1,000 square feet or 5.4 to 43.5 fl. oz. per 100 gallons. Masterline Bifenthrin 7.9 Termiticide/Insecticide may be diluted and used in different volumes of water as long as the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fl. oz. per 100 gallons) is not exceeded. If diluted with water or other carriers, Masterline Bifenthrin 7.9 Termiticide/Insecticide may be applied through low volume application equipment as long as the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fl. oz. per 100 gallons) is not exceeded.

Treat as a full coverage foliar spray using the stated application rate. If pest pressure and density of foliage increases, repeat treatments using higher rates may be needed to reach the desired control. Repeat treatments should not be made more often than once per 7 days.

Before application to entire planting, test treat a small number of plants and watch for signs of sensitivity. Some plant species may be sensitive to the final spray solution.

To avoid or delay pest resistance, it is recommended to use an alternate class of pesticide in any application program.

Application Rates

Under typical conditions, the application rates in the table below will offer optimal control of the listed pests. Masterline Bifenthrin 7.9 Termiticide/Insecticide may be applied at up to 1 fl. oz. per 1000 square feet (43.5 oz. per 100 gallons) at the discretion of the applicator. When maximum residual control is preferred, use the higher treatment rates.

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Pest	Application Rate	Application Instructions
Bagworms Cutworms Elm Leaf Beetles Fall Webworms Gypsy Moth Caterpillars Lace Bugs Leaf Feeding Caterpillars Tent Caterpillars	0.125 - 0.25 fl. oz. per 1,000 sq. ft. (5.4 - 10.8 fl. oz. per 100 gal.)	Bagworms: For optimum control treat when larvae have started to hatch and are young, directing spray to contact as many larvae as possible.
Adelgids† Ants Aphids Bees Beet Armyworm Beetles † Black Vine Weevil (Adults) Brown Soft Scales Broad Mites Budworms California Red Scale (Crawlers) 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) Plant Bugs (Including <i>Lygus</i> spp.) Psyllids† San Jose Scales (Crawlers) Scorpions Sowbugs Spider Mites Spiders Spittlebugs† Thrips Tip Moths Treehoppers† Twig Borers Wasps Weevils Whiteflies	0.25 - 0.5 fl. oz. per 1,000 sq. ft. (10.8 - 21.7 fl. oz. per 100 gal.)	Beetles, Scale Crawlers, Twig Borers, and Weevils: Apply to plant foliage; also treat trunks, stems and twigs.
Imported Fire Ants** Leafminers Pecan Leaf Scorch Mite Pine Shoot Beetle (Adults) Spider Mites	0.5 - 1.0 fl. oz. per 1,000 sq. ft. (21.7 - 43.5 fl. oz. per	Spider Mites: Apply during spring and summer for most effective control of twospotted spider mites. During mid- to late-summer it may be necessary to make more frequent treatments, possibly at higher rates to achieve suitable control. Control may

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	100 gal.)	be enhanced by adding a surfactant or horticultural oil or by combining Masterline Bifenthrin 7.9 Termiticide/Insecticide with other products registered to control mites. Applications of Masterline Bifenthrin 7.9 Termiticide/Insecticide may be alternated with chemicals offering other modes of action in programs that are designed to manage resistance by twospotted spider mites. For recommendations on resistance management in your region check with your local Cooperative Extension Service.
**For foraging ants. †Not for use in California.		

Calculating Dilution Rates: To determine the proper dilution of Masterline Bifenthrin 7.9 Termiticide/Insecticide that is required to control specific pests, follow the steps below:

- 1) Determine the target pest requiring the highest application rate for effective control in the **Application Rates** chart.
- 2) Choose the treatment rate in terms of fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide.
- 3) Determine the dilution volume necessary for the treatment in the **Dilution Chart**.
- 4) Use the proper amount of Masterline Bifenthrin 7.9 Termiticide/Insecticide that must be mixed in your desired volume of water as shown in the **Dilution Chart**.

For example, to control black vine weevil adults on rhododendron, the **Application Rates** table shows that 0.25 to 0.5 fluid ounces of Masterline Bifenthrin 7.9 Termiticide/Insecticide 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 Masterline Bifenthrin 7.9 Termiticide/Insecticide in 10 gallons of water.

Ornamental Application Dilution Chart

Application Volume Gallons Per		Application Rate Fl. oz. per	Fluid Ounces* of Masterline Bifenthrin 7.9 Termiticide/Insecticide Diluted to these Volumes of Finished Spray			
1,000 sq. ft.	Acre		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 ounce = 29.57 ml = 2 tablespoons = 6 teaspoons
 Do not use household utensils to measure Masterline Bifenthrin 7.9 Termiticide/Insecticide.

Pest Control on Outside Surfaces and Around Buildings

Masterline Bifenthrin 7.9 Termiticide/Insecticide may be used to control the following pests:

Ants	Clover Mites	Grasshoppers	Silverfish
Carpenter Ants	Crickets	Hornets	Sod Webworms
Fire Ants	Cutworms	Japanese Beetles [†]	Sowbugs (Pillbugs)
Armyworms	Dichondra Flea	Midges	Spider Mites
Bees	Beetles	Millipedes	Spiders (including
Beetles	Earwigs	Mosquitoes	Black Widow
Biting Flies	Elm Leaf Beetles	Moths	Spiders)
Boxelder Bugs	Firebrats	Roaches	Springtails
Centipedes	Fleas	(including	Ticks (including
Chiggers	Flies	Cockroaches)	Brown Dog Ticks)
Chinch Bugs	Gnats	Scorpions	Wasps

[†]Not for use in California.

Application Recommendations

Use a 0.02 to 0.06% dilution to spray 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 dilution per 1,000 square feet. Use higher application volumes if vegetation or landscape materials are dense.

Mixing Directions: For 0.02% suspension, mix 0.33 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water. For 0.06% suspension, mix 1 fluid oz. Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water (1 fluid oz. = 2 tablespoons). Do not use household utensils to measure Masterline Bifenthrin 7.9 Termiticide/Insecticide. Use the higher rates 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 only if there are signs of renewed insect activity. Repeat application limited to once per seven days.

Perimeter Treatment: Treat a band of soil and vegetation 6 to 10 feet wide around and next to the structure and the foundation of the structure to a height of 2 to 3 feet. Use 0.33 to 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per 1,000 square feet in enough water to provide sufficient coverage (refer to **Perimeter Application Dilution Chart**).

For Ant and Fire Ant Mounds use Masterline Bifenthrin 7.9 Termiticide/Insecticide 0.06% dilution as Drench

Method: Use 1-2 gallons of dilution for each mound area. Sprinkle the mound until wet and apply to a 4 foot diameter circle around the mound. For mounds larger than 12", use a higher volume. Applications should be made in cool weather, such as in early morning or late evening hours, not in the heat of the day.

Mosquito Control: To control mosquitoes around buildings, landscapes, and lawns, dilute 0.33 to 1.0 fl. oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general spray. Masterline Bifenthrin 7.9 Termiticide/Insecticide may be diluted at lower concentrations and applied at higher volumes to ensure the proper amount of product per area (refer to the **Ornamental or Perimeter Application Dilution Charts**).

Calculating Dilution Rates: The following steps should be taken to determine the appropriate dilution of Masterline Bifenthrin 7.9 Termiticide/Insecticide that is required to control specific pests:

- 1) Select an application rate in terms of fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide.
- 2) Determine your application volume and amount of spray mix you want to prepare in the **Dilution Chart**.
- 3) Use the **Dilution Chart** to determine the appropriate volume of Masterline Bifenthrin 7.9 Termiticide/Insecticide that must be mixed in your desired volume of water.

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Perimeter Application Dilution Chart

Application Volume Gallons Per	Application Rate Fluid Ounces Per	Fluid Ounces* of Masterline Bifenthrin 7.9 Termiticide/Insecticide Diluted to these Volumes of Finished Spray			
		1000 sq. ft.	1000 sq. ft.	1 gallon	5 gallons
1	0.33	0.33	1.67	3.33	33.3
1	0.5	0.5	2.5	5.0	50.0
1	0.67	0.67	3.33	6.67	66.7
1	0.75	0.75	3.75	7.5	75.0
1	1.0	1.0	5.0	10.0	100.0
2	0.33	0.17	0.83	1.65	16.5
2	0.5	0.25	1.25	2.5	25.0
2	0.67	0.33	1.67	3.35	33.5
2	0.75	0.38	1.88	3.75	37.5
2	1.0	0.5	2.5	5.0	50.0
3	0.33	0.11	0.55	1.10	11.0
3	0.5	0.17	0.83	1.67	16.7
3	0.67	0.22	1.11	2.23	22.3
3	0.75	0.25	1.25	2.5	25.0
3	1.0	0.33	1.67	3.33	33.3
4	0.33	-	0.41	0.83	8.3
4	0.5	0.13	0.63	1.25	12.5
4	0.67	0.17	0.84	1.67	16.7
4	0.75	0.19	0.94	1.88	18.8
4	1.0	0.25	1.25	2.5	25.0
5	0.33	-	0.33	0.67	6.7
5	0.5	0.1	0.5	1.0	10.0
5	0.67	0.13	0.67	1.33	13.3
5	0.75	0.15	0.75	1.5	15.0
5	1.0	0.2	1.0	2.0	20.0
10	0.33	-	0.17	0.33	3.3
10	0.5	-	0.25	0.5	5.0
10	0.67	-	0.33	0.67	6.7
10	0.75	-	0.38	0.75	7.5
10	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 Masterline Bifenthrin 7.9 Termiticide/Insecticide.

INDOOR USE

Masterline Bifenthrin 7.9 Termiticide/Insecticide may be used for residual pest control in buildings and structures and on modes of transport. For control of ants, bees, beetles, boxelder bugs, carpet beetles, centipedes, clothes moths, cockroaches, crickets, earwigs, firebrats, flies, gnats, midges, millipedes, pillbugs, scorpions, silverfish, sowbugs, spiders, ticks and wasps.

In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before reuse. Exposed food should be covered or removed. Do not permit humans or pets to contact treated surfaces until the spray has dried. During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.

Wear protective clothing, unvented goggles, gloves and respirator when applying to overhead areas in poorly ventilated areas. Avoid touching sprayed surfaces until sprays have completely dried.

Application Recommendations

Apply to areas where pests hide. These areas include, but are not limited to, baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, stoves,

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the underside of shelves, drawers and similar areas. Treat with a low-pressure spray (25 psi or less), coarse, crack and crevice, pinstream, spot or with a paint brush. Pay close attention to cracks and crevices. Not for use as a space spray.

Mixing Directions: Prepare a dilution of Masterline Bifenthrin 7.9 Termiticide/Insecticide for spray or brush application. See mixing directions in **Pest Control on Outside Surfaces and Around Buildings** section (page XX).

- Fill sprayer with the required amount of water.
- Add Masterline Bifenthrin 7.9 Termiticide/Insecticide.
- Close sprayer and shake to ensure proper mixing.
- Prepare only the amount of solution necessary for treatment.

In order to achieve and/or maintain control in times of high pest pressure, retreatment may be needed. Repeat application should only take place if there are signs of renewed insect activity and should not exceed one application per 7 days.

Application Rates: For 0.02% suspension, mix 0.33 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water. For 0.06% suspension, mix 1 fluid oz. Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water (1 fluid oz. = 2 tablespoons). Do not use household utensils to measure Masterline Bifenthrin 7.9 Termiticide/Insecticide. Use the higher rates for heavy pest infestation, quicker knockdown or longer residual control.

Pest	Application Rate	Application Instructions
Ants Bedbugs Bees Beetles Boxelder bugs Carpet beetles Centipedes Clothes moths Cockroaches Crickets Earwigs Firebrats Flies Gnats Midges Millipedes Pillbugs Scorpions Silverfish Sowbugs Spiders Ticks Wasps	0.33 – 1.0 fl. oz. per gallon of water (0.02% - 0.06% suspension)	<p>Ants: Apply to ant trails, around doors and windows and other places that ants frequent.</p> <p>Bedbugs: To help control bedbugs, apply thoroughly to crack and crevices where bedbugs frequent. This includes bed frames, box springs, inside empty dressers and clothes closets, carpet edges, wall moldings (high and low), and wallpaper edges. Do not use on bed linens, pillows, mattresses, or clothes. Before application, remove all clothes and other articles from dressers or clothes closets. Allow all treated areas to dry before use. Not recommended for use as sole protection against bedbugs. If evidence of bedbugs is found in/on mattresses, use a product approved for this use.</p> <p>Bees and Wasps: Apply to nest in late evening when pests are at rest. Spray nests, entrances to nests and surrounding areas thoroughly. Contact as many insects as possible. Retreat if signs of renewed activity exist.</p> <p>Boxelder Bugs, Centipedes, Earwigs, Beetles, Millipedes, Pillbugs, and Sowbugs: Treat around doors, windows, baseboards, storage areas and other locations where pests may be found.</p> <p>Cockroaches, Crickets, Firebrats, Scorpions, Silverfish, Spiders, and Ticks: Use a coarse, low pressure spray to areas where pests hide. These areas include baseboards, corners, storage areas, 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 close attention to cracks and crevices.</p>

Food/Feed Handling Establishments

Masterline Bifenthrin 7.9 Termiticide/Insecticide, when used as a general spot, surface, or crack and crevice treatment, may be applied in both food/feed and nonfood areas of food/feed handling establishments.

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

Non-food areas in which applications are allowed include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets and storage (after canning or bottling).

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Some of the use sites that are allowed include: aircraft (do not use in aircraft cabins), apartment buildings, bakeries, bottling facilities, breweries, buses, cafeterias, candy plants, canneries, dairy product processing plants, food manufacturing plants, food processing plants, food service establishments, granaries, grain mills, hospitals, hotels, industrial buildings, laboratories, meat/poultry/egg processing plants, mobile/motor homes, nursing homes, offices, railcars, restaurants, schools, ships, trailers, trucks, vessels, warehouses and wineries.

General Surface Application: Do not use this application method in food/feed handling establishments when the facility is in operation or foods/feeds are exposed. During treatment, remove or cover all food processing and/or handling equipment and do not apply directly to food products. All equipment, benches, shelving and other surfaces in food processing plants, bakeries, cafeterias, and other facilities, which food will contact must be washed after treatment. Clean food handling equipment or processing equipment and rinse completely with fresh, clean water.

Spot, Crack and Crevice Application: These types of treatments can be done when the facility is operating, but food should be covered or removed from the treatment area. Do not apply directly to food.

Foam Applications: Converting Masterline Bifenthrin 7.9 Termiticide/Insecticide to foam will allow it to be used to treat structural voids. To produce a 0.02% to 0.06% foam concentration, dilute 0.33 to 1.0 fl. oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and add the manufacturer's recommended amount of foaming agent. Before application, make sure that the foaming agent is compatible with Masterline Bifenthrin 7.9 Termiticide/Insecticide.

TERMITE CONTROL (ABOVE GROUND ONLY)

The treatment methods that are expressed below are intended to kill termite workers or winged reproductives present at the time of application. These methods should supplement, not substitute for, mechanical alteration, soil treatment or foundation treatment.

Controlling winged reproductive termites and exposed workers in localized areas can be accomplished by diluting 1.0 fluid ounce of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and applying the dilution at the rate of one gallon per 1,000 square feet to attics, crawl spaces, unfinished basements and other void areas as a coarse fan spray. Both swarming termites and the areas where they gather should be treated.

Controlling above-ground termites in localized areas of infested wood can be accomplished by diluting 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and applying as a liquid or foam to voids and galleries in wood that is damaged, in addition to spaces between wooden structural members and between the sill plate and foundation where the wood is at risk to attack. Drilling and then injecting the foam or dilution into damaged wood or wall voids with an appropriate directional injector will help reach those areas that are not easy to access. After treatment is completed, securely plug the holes that are in regularly occupied areas in the construction elements.

Controlling termite carton nests in building voids can be accomplished by diluting 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and apply as a liquid or foam using a pointed injection tool. To obtain control, various depths of injection and numerous injection points may be needed. After treatment is complete and when feasible, remove the carton nest material from the building void.

ANT CONTROL

Nuisance Ants Indoors: Apply to ant nests for best results. Apply a dilution of 0.5 to 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water at the rate of one gallon of dilution per 1,000 square feet to places where ants have been seen or are believed to forage as a general surface, crack and crevice or spot treatment. Some of 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. Pay close attention when treating entry points into the home or around doors and windows. When combining liquid Masterline Bifenthrin 7.9 Termiticide/Insecticide with bait treatments, use Masterline Bifenthrin 7.9 Termiticide/Insecticide as instructed above and apply baits in those areas where Masterline Bifenthrin 7.9 Termiticide/Insecticide has not been applied. Do not apply as a broadcast or general surface treatment in residential areas.

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Nuisance Ants Outdoors: Apply to ant nests for best results. Treat ant trails, around doors and windows, and other places where ants have been seen or are likely to forage. Treat using a low or high volume perimeter treatment depending on the density of vegetation and landscape materials as described in the **Pest Control on Outside Surfaces and Around Buildings** section of this label. When treating concrete surfaces, more frequent treatments, higher dilutions and/or application volumes may be needed for ant control. The following procedure will normally allow optimal control:

1. Non-porous surfaces should be treated with low volume applications using 0.5 to 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet.
2. Vegetation and porous surfaces should be treated with high volume applications using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per 1,000 square feet (refer to the **Ornamental and Perimeter Application Dilution Charts**).
3. Dilute 0.5 to 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 square feet for maximum residual control.

Carpenter Ants Indoors: Treat areas where carpenter ants are seen or are predicted to forage, such as baseboards, in and behind cabinets, under and behind dishwashers, furnaces, refrigerators, sinks, and stoves, around pipes, cracks and crevices, and in corners by diluting 0.5 to 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and applying at the rate of one gallon of dilution per 1,000 square feet as a general surface, crack and crevice or spot and/or foam treatment. Pay close attention 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 and galleries where carpenter ants or their nests are present. When combining liquid Masterline Bifenthrin 7.9 Termiticide/Insecticide with bait treatments, use Masterline Bifenthrin 7.9 Termiticide/Insecticide as instructed above and apply baits in those areas where Masterline Bifenthrin 7.9 Termiticide/Insecticide has not been applied. Do not apply as a broadcast or general surface treatment in residential areas.

Carpenter Ants Outdoors: Treat carpenter ant nests for best results. Treat areas where carpenter ants are seen or are believed to forage, such as ant trails, around doors and windows. As stated in **Pest Control on Outside Surfaces and Around Buildings** section, apply using a low or high volume perimeter treatment of this label. When treating concrete surfaces, more frequent treatments, higher dilution and/or application volumes may be needed for carpenter ant control. Following the procedure below will normally allow optimal control:

1. Treat non-porous surfaces with low volume applications using 0.5 to 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet.
2. Masterline Bifenthrin 7.9 Termiticide/Insecticide may be used as a treatment for the trunks of trees that have carpenter ant trails, or where carpenter ants are foraging. Use 0.5 to 1.0 fl. oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and apply this dilution to wet the bark from the base of the tree to as high as possible on the trunk.
3. Vegetation and porous surfaces should be treated with high volume applications using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per 1,000 square feet (refer to the **Ornamental and Perimeter Application Dilution Charts**).
4. Dilute 0.5 to 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 sq. ft. to obtain maximum residual control.

To control carpenter ants inside trees, utility poles, fencing or deck materials and similar structural members, drill to find the inside infested cavity and inject or foam a 0.06% dilution (1.0 fl. oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water) into the cavity with adequate volume and a proper treatment tool with a splash-back guard.

Where there are ants tunneling below the surface, dilute 0.5 to 1.0 fluid ounces of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water and apply as a drench or inject the dilution or foam at intervals of 8 to 12 inches. A uniform vertical barrier should be established where there are ants tunneling below surfaces such as at the edges of walls, driveways or other hard surfaces.

Apply a 0.06% dilution to stored lumber or wood piles using a sprinkling can or a hose-end sprayer to deliver a coarse drenching spray. This wood may be used for lumber or burned after 30 days. Do not use this method of application in structures.

The soil under the area where firewood will be stacked may be treated with a dilution of 1.0 fluid oz. of Masterline Bifenthrin 7.9 Termiticide/Insecticide per gallon of water to protect the firewood from carpenter ants (and termites). Apply at the rate of one gallon of dilution per 8 square feet. DO NOT treat firewood with this product.

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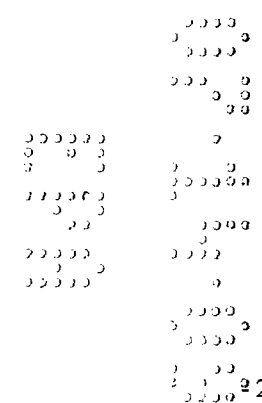
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