

228-498

09-29-2010

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

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

September 29, 2010

Mr. Matthew Granahan  
Registrations Manager  
Nufarm Americas, Inc.  
150 Harvester Drive, Suite 200  
Burr Ridge, IL 60527

Subject: Label Notification(s) for Pesticide Registration Notice 98-10  
Adding the marketing statement "Controls Ticks!"

Dear Mr. Granahan:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice PRN 98-10 dated June 24, 2010 for the following product(s):

**Bifenthrin 0.2% Granule Insecticide**

**EPA Reg. No. 228-498**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 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.

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 Regina Foushee'-Smith at 703-605-0780.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard J. Gebken".

Richard J. Gebken  
Product Manager  
Insecticide Branch  
Registration Division (7505P)



Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060

<p><b>United States</b> <b>Environmental Protection Agency</b> Washington, DC 20460</p>	<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**

<b>1. Company/Product Number</b> 228-498	<b>2. EPA Product Manager</b> Richard Gebken	<b>3. Proposed Classification</b> <input type="checkbox"/> None <input type="checkbox"/> Restricted
<b>4. Company/Product (Name)</b> Bifenthrin 0.2% Granule	<b>PM#</b> 10	
<b>5. Name and Address of Applicant (Include ZIP Code)</b> Nufarm Americas, Inc. 150 Harvester Drive, Suite 200 Burr Ridge, IL 60527 <input type="checkbox"/> Check if this is a new address	<b>6. Expedited Review.</b> In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: <div style="text-align: center; font-size: 1.2em; font-weight: bold;">NOTIFICATION</div> EPA Reg. No. _____ <b>SEP 29 2010</b> Product Name _____	

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input 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.)

Label notification consistent and 98-10, see cover letter for detailed explanation. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make false statements to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, 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**

<b>1. Material This Product Will Be Packaged In:</b>				<b>2. Type of Container.</b>	
<b>Child-Resistant Packaging</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Unit Packaging</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Water Soluble Packaging</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
* Certification must be submitted		If "Yes" Unit Packaging wgt.    No. per container	If "Yes" Package wgt    No. per container	<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
<b>3. Location of Net Contents Information</b>		<b>4. Size(s) Retail Container</b>		<b>5. Location of Label Directions</b>	
<input checked="" type="checkbox"/> Label <input checked="" type="checkbox"/> Container		1 - 60 lb Bags		<input checked="" type="checkbox"/> _____	
<b>6. Manner in Which Label is Affixed to Product</b>			<input checked="" type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Stenciled		

**Section - IV**

<b>1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)</b>		
<b>Name</b> Matthew Granahan matthew.granahan@us.nufarm.com	<b>Title</b> Registration Manager	<b>Telephone No. (Include Area Code)</b> 630.455.2048
<b>Certification</b> 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.		<b>6. Date Application Received (Stamped)</b>  <div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto;"></div>
<b>2. Signature</b> 	<b>3. Title</b> Registration Manager	
<b>4. Typed Name</b> Matthew Granahan	<b>5. Date</b> 06/24/10	





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**NOTIFICATION**

**SEP 29 2010**

# **BIFENTHRIN 0.2% GRANULE**

## **INSECTICIDE**

**FOR USE TO CONTROL ANTS (INCLUDING IMPORTED FIRE ANTS), MOLE CRICKETS AND OTHER INSECT PESTS ON LAWNS IN LANDSCAPED AREAS AND PERIMETERS AROUND RESIDENTIAL, INSTITUTIONAL, PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS AND ATHLETIC FIELDS.**

**ACTIVE INGREDIENT:**

Bifenthrin\* ..... 0.2%

**OTHER INGREDIENTS:** ..... 99.8%

**TOTAL:** ..... 100.0%

\*Cis isomers 97% minimum, trans isomers 3% maximum.

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION / PRECAUCION**

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

**For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300**  
**For Medical Emergencies Only, Call (877) 325-1840**

NOTE: Spanish language is optional

EPA REG. NO. 228-498  
EPA EST. NO.

Manufactured For  
**NUFARM AMERICAS INC.**  
150 Harvester Drive  
Burr Ridge, IL 60527



NET WEIGHT:      Lbs. (    Kg)



### 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, this product may be applied at up to 0.4 pounds a.i./acre on non-residential use sites to control each of the pests listed in the table. See specific pest for recommended level. Irrigation or watering by 0.1 to 0.5 inches immediately after application generally improves the effectiveness of this product.

PEST	ACTIVE INGREDIENT POUNDS PER ACRE	APPLICATION RATE OF THIS PRODUCT	
Armyworms <sup>1</sup> Cutworms <sup>1</sup> Sod Webworm <sup>1</sup>	0.1 pound a.i./acre	50 pounds per acre	1.15 pounds per 1,000 square feet
Annual Bluegrass Weevils ( <i>Hyperodes</i> ) (Adult) <sup>2</sup> Billbugs (Adult) <sup>3</sup> Black Turfgrass Ataenius (Adult) <sup>4</sup> Leafhoppers Mealybugs	0.1 to 0.2 pound a.i./acre	50 to 100 pounds per acre	1.15 to 2.3 pounds per 1,000 square feet

PEST	ACTIVE INGREDIENT POUNDS PER ACRE	APPLICATION RATE OF THIS PRODUCT	
European Crane Flies	0.15 to 0.3 pound a.i./acre	75 to 150 pounds per acre	1.75 to 3.50 pounds per 1,000 square feet
Ants Centipedes Chinch Bugs <sup>5</sup> Fleas (Larvae) <sup>6</sup> Fleas (Adult) Imported Fire Ants (Adult) <sup>7</sup> Imported Fire Ants (Mounds) <sup>7</sup> Millipedes Mole Cricket (Adult) <sup>8</sup> Mole Cricket (Nymph) <sup>9</sup> Scorpions <sup>10</sup> Ticks <sup>11</sup>	0.2 to 0.4 pound a.i./acre	100 to 200 pounds per acre	2.3 to 4.6 pounds per 1,000 square feet
Pillbugs Sowbugs	0.4 pound a.i./acre	200 pounds per acre	4.6 pounds per 1,000 square feet

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).

In New York State, do make a single repeat application of this product if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

<sup>1</sup>**Armyworms, Cutworms, and Sod Webworms:** To ensure optimum control, irrigate the treated area with up to 0.1 inches of water immediately after application to activate (release from the granule) the insecticide.

<sup>2</sup>**Annual Bluegrass Weevil (*Hyperodes*) adults:** Applications should be timed to control adult weevils as they leave their over-wintering sites and move into grass areas. This movement generally begins when *Forsythia* is in full bloom and concludes when Flowering Dogwood 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 synacus*).

<sup>5</sup>**Chinch Bugs:** Chinch Bugs infest the base of grass plants and are often found in the thatch layer. Irrigate the treated area with up to 0.25 inches of water immediately after application to activate (release from the granule) the insecticide. Chinch Bugs can be one of the most difficult pests to control in grasses and the higher application rates may be required to control populations that contain both nymphs and adults during the summer.

**\*Flea Larvae:** Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Irrigate the treated area with up to 0.5 inches of water immediately after application to activate (release from the granule) the insecticide.

**\*Imported Fire Ants:** Control will be optimized by combining broadcast applications that will control foraging workers and newly mated fly-in queens with mound treatments that will control existing colonies. If the soil is not moist, then it is important to irrigate before application. Broadcast treatments should apply 0.4 pound a.i./acre. Mounds should be treated by applying 1/2 cup of this product per mound and then drenching the mound with 1 to 2 gallons of water. The mounds should be treated with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. A four-foot diameter circle around the mound should also be treated. For best results, apply in cool weather (65 to 80°F) or in early morning or late evening hours. Food utensils such as spoons and measuring cups should not be used for food purposes after use in measuring pesticides. Application of 1.25 lbs./acre of this product will provide 6 months residual activity for the control of foraging fire ants and newly mated fly-in queens.

**\*Mole Cricket Adults:** Achieving acceptable control of adult Mole Crickets is difficult because preferred grass areas are subject to continuous invasion during the early spring by this extremely active stage. 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. Grass areas that receive pressure from adult Mole Crickets should be treated at peak egg hatch to ensure optimum control of subsequent nymph populations (see below).

**\*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.

**\*Scorpions:** To ensure optimum control, treat the building perimeter at dusk to prevent outdoor scorpions from entering the building. Scorpions reside hidden in cracks and voids during the day and are active at night at temperatures above 77°F/25°C. Resting areas can be identified at night using a blacklight (UV bulb) as scorpions will fluoresce. These areas should also be treated. Prior to treatment, to increase treatment efficacy, remove trash, debris, or firewood that scorpions may use as resting sites.

**\*Ticks (Including ticks that may transmit Lyme Disease and Rocky Mountain Spotted fever):** Do not make spot applications. Treat the entire area where exposure to ticks may occur. Use higher application rates when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals. Do not allow public use of treated areas during application.

Deer ticks (Ixodes sp.) have a complicated life cycle that ranges over a two-year period and involves four life stages. Applications should be made in mid to late spring to control larvae and nymphs that reside in the soil and leaf litter.

American dog ticks may be a considerable nuisance in suburban settings, particularly where homes are built on land that was previously field or forest. These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Applications should be made as necessary from mid spring to early fall to control American dog tick larvae, nymphs and adults.

**Perimeter Application:** Apply to ground area 5 to 10 feet wide around and adjacent to the structure.

**Boundary Applications:** Apply to soil areas, ornamental gardens, pavement crevices, fencelines, planter areas, vegetation areas and mulch areas.

APPLICATION RATE POUNDS PER 1,000 SQ. FT.	BAND WIDTH	POUNDS OF THIS PRODUCT FOR PERIMETER APPLICATIONS LINEAR DISTANCE (FEET) AROUND STRUCTURE							
		100	150	200	250	300	400	500	1,000
2.3	5 feet	1.3	1.9	2.5	3.0	3.6	4.8	5.9	11.7
2.3	10 feet	3.0	4.2	5.3	6.5	7.6	9.9	12.2	23.7
3.0	5 feet	1.7	2.5	3.3	3.9	4.7	6.3	7.7	15.2
3.0	10 feet	3.9	5.4	6.9	8.5	9.9	12.9	15.9	30.9
3.5	5 feet	2.0	2.9	3.8	4.5	5.4	7.2	8.9	17.5
3.5	10 feet	4.5	6.3	8.0	9.8	11.4	14.9	18.3	36.5
4.6	5 feet	2.6	3.8	5.0	6.0	7.2	9.6	11.8	23.4
4.6	10 feet	6.0	8.4	10.6	13.0	15.2	19.8	24.4	47.4

**Note:** The amounts of this product listed in the above table are based on the total area being treated. This area is determined by multiplying the linear distance by the band width and then adding to that value the area of a circle whose radius is equal to the band width (to account for the area treated at the four corners of a rectangular structure).

**Fire Ant Mound Treatment:** Apply 1/2 cup of this product per mound and then drench the mound with 1 to 2 gallons of water. The mound should be drenched with sufficient force to break its apex and allow the insecticide to flow into the ant tunnels. For best results, apply in cool weather (65 to 80°F) or in early morning or late evening hours. Treat new mounds as they appear. Food utensils such as teaspoons and measuring cups should not be used for food purposes after use with insecticide.

**INDUSTRIAL NON-AGRICULTURAL APPLICATIONS**  
(Including Industrial Sites, Parks, Ball Fields and Cemeteries)

**Broadcast Spot Applications:** For the control of actively foraging ants (including Imported Fire Ants) broadcast uniformly 2.3 to 4.6 pounds of this product per 1,000 square feet (0.2 to 0.4 pounds a.i./acre). See section under **Lawn Applications** for additional rate recommendations.

**Pad Mounted Electrical Sites:** To reduce or prevent ant mound building activity on electrical pads, uniformly distribute 1.0 to 1.5 tablespoons (0.06 to 0.09 pounds) of this product per 4 square feet of mounting pad. Where existing transformers are completely or partially filled with soil excavated by resident ants, remove any excess fill and level the remaining soil prior to application. **Food utensils such as tablespoons must not be used for food purposes after use in measuring pesticides.**

**Note:** Electrical transformers appear to be more attractive to ants during the cooler months. For best results treat in the fall or early spring.

**RECOMMENDED SPREADER SETTINGS FOR BROADCAST APPLICATIONS**

EQUIPMENT	Application Rate lbs./1,000 square feet			PATTERN SETTING	WIDTH
	1.15	2.30	4.60		
LESCO Broadcast	F	G	I		10
Prizelawn CBR-III	E 1/2	F 1/2	H 1/2		10
Scotts RBA	G 1/2	H 1/2	J 1/2	3	10
Scotts SR2000	H 1/2	I 1/2	L 1/2	8	12
Scotts Handy Green	2	3	4	-	10
Scotts Accupro	4-1/2	4-3/4	5	8	12
Spyker	3-1/2	3-3/4	4-1/4	-	10
Vicon 402*	25	28-1/2	38	-	40
Lely W*	3-3/4	4-1/2	5	III-B	52
Cycloneway	1.5	3	5-3/4	-	4
Earthway 2400	8-1/2	10-1/2	12-1/2	-	10

\*Speed applied: Vicon 5.6 mph, Lely 4.5 mph

**Note:** These recommended settings should be used as starting points when calibrating a spreader to achieve the desired application rate of this product. After calibration, the technician should regularly observe the amount of this product that is applied to a known area and make further setting adjustments, as necessary, to maintain the appropriate application rate. Spreaders should be calibrated periodically to ensure that equipment wear or other factors have not altered the flow rate of this product. Calibration instructions are included in the Owner's Manual that was provided by the equipment manufacturer at the time of purchase.

**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.

**STORAGE AND DISPOSAL**

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 close tightly.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.

To confine spill: Cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**CONTAINER DISPOSAL:** If empty: Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor (including toilet) or outdoor (including sewer) drain.



**Optional Language:**

Controls Ticks!



