

SPECIMEN



Bifenthrin **Pro**

**0.2% Lawn Granular
Insecticide**

For control of Insects, including mole crickets and imported fire ants, on lawns and perimeters around buildings (commercial, industrial, institutional, public and residential), parks and recreational areas, including athletic fields. For sale, use and storage by commercial applicators only.

Active Ingredient:	By Weight:
Bifenthrin*0.2%
Inert Ingredients:	99.8%
Total	100.0%

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

See other panels for additional precautionary information.

FOR PRODUCT USE INFORMATION, CALL
1-800-545-9525

FOR MEDICAL AND TRANSPORTATION EMERGENCIES ONLY, CALL 24 HOURS A DAY
1-800-832-HELP (1-800-832-4357)

EPA REG. NO. 51036-394
AD 092305

EPA EST. NO.:

NET CONTENTS: _____

Manufactured By:
MICRO FLO COMPANY LLC
P.O. BOX 772099
MEMPHIS, TN 38117

FIRST AID

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.
Note to Physician	This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

Caution. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing.

EMERGENCY NUMBERS:

- Transportation or spill:
call CHEMTREC 1-800-424-9300.
- Human health:
call 1-800-832-HELP(1-800-832-4357).
- Animal health:
call ASPCA at 1-800-345-4735.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. **DO NOT** apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** apply when weather conditions favor drift from treated areas. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

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

DO NOT use this product on plants grown for sale, for research purposes, for commercial seed production or for any other commercial use. This product is intended for use only on plants grown for aesthetics uses or for climatic alteration such as plants in interior landscapes, ornamental gardens, parks and lawns. This product is not intended for use for agricultural purposes, including private (non-commercial) greenhouses, etc.

This product may be used around residential structures such as apartments, condominiums, homes, outbuildings, and preschool and day care facilities. For each application at residential use sites, apply no more than 100 pounds of **BIFENTHRIN PRO 0.2% Lawn Granular Insecticide** (0.2 lb active ingredient (ai)) per acre.

This product may be used at non-residential non-agricultural use sites, such as commercial, industrial, institutional or public buildings, parks and recreational areas, including athletic fields. For each application at non-residential use sites, apply no more than 200 pounds of **BIFENTHRIN PRO 0.2% Lawn Granular Insecticide** (0.4 lb ai) per acre.

Per year, apply a maximum of no more than 200 lbs **BIFENTHRIN PRO 0.2% Lawn Granular Insecticide** (0.4 lbs ai) per acre.

Use of this product in commercial greenhouses or on golf courses, nurseries, sod farms or grass grown for seed is prohibited.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: DO NOT store this product near fertilizers, seeds, or other pesticides.

Keep this product out of reach of children and animals at all times. Store this product in a cool, dry place in its original container only. **DO NOT** expose the product to excessive heat. Open the product container carefully and, after use, seal tightly.

TO CONTAIN A SPILL: Cover the spilled product to prevent the material from spreading. If the product container is damaged, place the entire container along with the product in a secure receptacle and clearly label the contents.

PESTICIDE DISPOSAL: Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Paper and plastic bags: Completely empty bag into application equipment. Then dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

APPLICATION TO LAWNS AND PERIMETERS

LAWN APPLICATION: Use broadcast equipment designed to give consistent coverage of the area to be treated with **BIFENTHRIN PRO 0.2% Lawn Granular Insecticide**.

The following table provides recommended application rates of this product for control of the respective pests under normal conditions. However, for maximum control, this product can be applied at up to 0.4 lbs ai/A (200 pounds per acre) to control the pests listed in the following table. When used on residential sites such as lawns, apply no more than 0.2 lbs ai/A (100 pounds per acre) per application.

PEST	ACTIVE INGREDIENT	APPLICATION RATE	
		BIFENTHRIN PRO 0.2% Lawn Granular Insecticide	
Armyworm ¹ Cutworm ¹ Sod Webworm ¹	0.1 lbs ai/A	50 lbs per acre	1.15 lbs per 1,000 sq ft
Annual Bluegrass Weevil (<i>Hyperodes</i>) (Adult) ² Billbugs (Adult) ³ Black Turfgrass Ataenius (Adult) ⁴ Leafhopper Mealybug	0.1 - 0.2 lbs ai/A	50 - 100 lbs per acre	1.15 - 2.3 lbs per 1,000 sq ft
Ants Centipede Chinch Bug ⁵ Flea (Larvae) ⁶ Flea (Adults) Imported Fire Ant (Adult) ⁷ Imported Fire Ant (Mounds) ⁷ Millipede Mole Cricket (Adult) ⁸ Mole Cricket (Nymph) ⁹	0.2 - 0.4 lbs ai/A	100 - 200 lbs per acre	2.3 - 4.6 lbs per 1,000 sq ft
Pillbug Sowbug	0.4 lbs ai/A	200 lbs per acre	4.6 lbs per 1,000 sq ft

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 **BIFENTHRIN PRO 0.2% Lawn Granular Insecticide** if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

COMMENTS

¹ **Armyworms, Cutworm, and Sod Webworm:**

Immediately following application, irrigate with no more than 0.1 inches of water in order to activate the product.

² **Annual Bluegrass Weevil (*Hyperodes*) (adult):**

Time applications to control adult insects as they move from over-wintering sites and to grass areas. Movement generally starts when *Forsythia* is in full bloom and ends when flowering dogwood is in full bloom. Consult your State Cooperative Extension Service for more information.

³ **Billbug (adult):** Apply when adult insects are first observed (April and May). Degree-day models are available to determine best application timing. Spring applications will also control over-wintered chinch bugs in temperate regions. Consult your State Cooperative Extension Service for information.

⁴ **Black Turfgrass Ataenius (adult):** Apply during May and July for control of the first and second generation of insects. Apply in May when Vanhoutte spiraea and horse chestnut are blooming. Apply in July when Rose of Sharon is blooming.

⁵ **Chinch Bug:** Immediately following application, irrigate treated area with no more than 0.25 inches of water in order to activate the product. Use higher application volume if the thatch layer is excessive or if grass height is relatively high. Chinch bugs are difficult pests to control in grasses; thus, higher application rates (up to 1 fluid oz per 1000 sq ft) may be required during the middle of the summer.

⁶ **Flea larvae:** Use a higher application volume should be used when treating the soil of shaded areas that are accessible to pets and other animals to ensure penetration of the product into the soil. If the lawn area is being treated at the rate of 0.25 fl oz per 1000 sq ft for adult flea control, the larval application rate should be two- to four-fold of this application volume.

⁷ **Imported Fire Ant:** For best results, combine broadcast applications (to control foraging workers and newly mated fly-in queens) with mound drenches (to eliminate existing colonies). If the soil is dry, water before application or use a high volume application. For broadcast treatments, apply up to 0.4 lbs ai/A. Treat mounds by diluting 1 teaspoon of **BIFENTHRIN PRO Multi-Insecticide** (EPA Reg. No. 51036-392) formulation per gallon of water and applying 1 to 2 gallons of finished spray per mound. Spray with sufficient force to break the mound apex and allow the insecticide solution to flow into the ant tunnels. In addition, treat the four foot diameter circle surrounding each mound. For optimal control, treat in cool weather (65 - 80° F) or in early morning or late evening hours.

⁸ **Mole Cricket (adult):** Apply as late in the day as possible. If the soil is dry, irrigate before application to bring the insects closer to the soil surface (maximizing contact with the product). Immediately after application, water in with up to 0.5 inches of water. Treat grassy areas that receive pressure from adult mole crickets at peak egg hatch for best control of subsequent nymph populations (see below).

⁹ **Mole Cricket Nymph:** Apply as late in the day as possible. If the soil is dry, irrigate before application to bring the insects closer to the soil surface (maximizing contact with the product). Immediately after application, water in with up to 0.5 inches of water. Treat grassy areas that received intense adult mole cricket pressure in the spring immediately prior to peak egg hatch. Higher application rates and more frequent applications may be required to control larger nymphs later in the year.

PERIMETER APPLICATION

When treating perimeters of structures, apply to the ground in a band of 5-10 feet width around the structure.

Boundary Applications: Apply to ornamental gardens as well as the following areas: soil areas, pavement crevices, fencelines, planter areas, vegetation areas and mulch areas.

Appl. Rate: Pounds Per 1,000 sq ft	Band Width In Feet	Pounds of BIFENTHRIN PRO 0.2% Lawn Granular Insecticide for Perimeter Applications							
		Linear Distance (Feet) Around Structure							
		100	150	200	250	300	400	500	1,000
2.3	5	1.3	1.9	2.5	3.0	3.6	4.8	5.9	11.7
2.3	10	3.0	4.2	5.3	6.5	7.6	9.9	12.2	23.7
3.0	5	1.7	2.5	3.3	3.9	4.7	6.3	7.7	15.2
3.0	10	3.9	5.4	6.9	8.5	9.9	12.9	15.9	30.9
3.5	5	2.0	2.9	3.8	4.5	5.4	7.2	8.9	17.5
3.5	10	4.5	6.3	8.0	9.8	11.4	14.9	18.3	35.5
4.6	5	2.6	3.8	5.0	6.0	7.2	9.6	11.8	23.4
4.6	10	6.0	8.4	10.6	13.0	15.2	19.8	24.4	47.4

PLEASE NOTE: In using the above chart, the listed amounts of **BIFENTHRIN PRO 0.2% Lawn Granular Insecticide** correspond to the total treatment area. This area includes (1) the area of a circle whose radius is the bandwidth (this corresponds to the area treated at the four corners of the structure) plus (2) the bandwidth multiplied by the linear distance treated.

FIRE ANT MOUND TREATMENT: To each mound apply ½ cup of **BIFENTHRIN PRO 0.2% Lawn Granular Insecticide**. Following the application, drench with 1-2 gallons of water with sufficient force to break the mound apex and allow the insecticide solution to flow into the ant tunnels. For optimal control, treat in cool weather (65 - 80° F) or in early morning or late evening hours. Never use food utensils for food purposes after use with insecticide.

APPLICATION TO INDUSTRIAL NON-AGRICULTURAL SITES

This product may be applied to industrial non-agricultural sites, such as ball fields, cemeteries, industrial sites, and parks.

BROADCAST SPOT APPLICATIONS: Use a consistent broadcast application of 0.2 to 0.4 lbs ai/Acre (2.3 to 4.6 lbs per 1,000 sq ft) of this product for effective control of foraging ants, such as Imported Fire Ants. Additional recommendations for application rates can be found in the footnotes to the **Lawn Application** section.

ELECTRICAL SITES (Pad Mounted): Apply 1.0-1.5 Tbsp. **BIFENTHRIN PRO 0.2% Lawn Granular Insecticide** per 4 sq ft of pad for best control of ant mounds. Care must be taken to ensure that the product is evenly dispersed. If the electrical site is filled with soil previously excavated by ants, this soil must be removed prior to application. Once the soil has been removed, and prior to application, relevel the soil. For optimum control, make applications in the early Spring or Fall.

BROADCAST APPLICATIONS: RECOMMENDED SPREADER SETTINGS

SPREADER TYPE	GROUND SPEED (MPH)	SPREADER SETTING			
		APPL. RATE: 100 lbs/A		APPL. RATE: 200 lbs/A	
		ONCE OVER	TWICE OVER	ONCE OVER	TWICE OVER
Hand-Pushed					
LESCO Rotary	3	B + ¼	A + ½	C + ½	B + ¼
Gandy Models (42, 36, 30, 24)	3	12	10.5	16	12
Scotts R-8A-1 Rotary	3	G	E	Not Rec.	G
Spyker (all Models)	3	2.6	2	3.1	2.6
Equipment Drawn (PTO=540 RPM)					
Gandy Models (42, 36, 30, 24)	4.5	14	11.5	19	14
Gandy 6500 Series	4.5	15	11	20	15
Gandy 10T Series	5.0	16.5	12	24	16.5
Herd GT-77	4.0	-	-	8-H	-
Herd GT-77	8.0	8-H	-	-	8-H
Lely 2.3202.000.1	4.5	2	1	3.5	2
Lely Model L-400	4.5	Not Rec.	Not Rec.	2	Not Rec.
Vicon PS402	4.5	10	7	16	10
Vicon PS1002T	4.5	13	9	21	13

Always calibrate equipment prior to application. The settings recommended above represent initial settings for final calibration. In order to insure continuous delivery of the correct amount of a **BIFENTHRIN PRO 0.2% Lawn Granular Insecticide**, make further adjustments to the settings from time to time during application. Consult the Owner's Manual of the equipment being used for calibration instructions.

Resistance: Repeated use of certain insecticides may create resistance in some insects. Use **BIFENTHRIN PRO 0.2% Lawn Granular Insecticide** in accordance with treatment area-appropriate strategies for resistance management. For further information regarding resistance management strategies for your treatment area, consult local or state pest management authorities.

Adequate control will not be attained if resistance to this or similar products arises in the treatment area. If you are unable to attain adequate control and this result cannot be explained by misapplication or weather extremes, it is possible that a resistant type of insect has developed. Discuss alternative control techniques with your pest management advisor or company representative if it appears that a resistant insect type is present.

Dealers must sell in original packages only.

Conditions of Sale and Warranty

The **Directions For Use** of this product reflects the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of MICRO FLO COMPANY LLC ("MICRO FLO") or the Seller. All such risks shall be assumed by the Buyer.

MICRO FLO warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

MICRO FLO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT PERMITTED BY LAW, MICRO FLO AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. MICRO FLO and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of MICRO FLO.

FOR MORE INFORMATION, PLEASE VISIT OUR WEB SITES
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www.pestcontrolfacts.com

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