

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460

EPA Reg. Number: 51036-435

Date of Issuance:

JAN 3 1 2005

Term of Issuance: Conditional

NOTICE OF PESTICIDE:

x Registration

Reregistration

Name of Pesticide Product:

Bifenthrin Pro 0.2% DG Granular Insecticide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Micro Flo Company LLC PO Box 772099 Memphis, TN 38117

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is <u>conditionally</u> registered in accordance with FIFRA sec. 3(c)(7)(A), provided that you:

- Submit and/or cite all data required for registration/reregistration of your product 1. under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of you product under FIFRA section 4.
- 2. Make the following labeling changes:
  - Revise the EPA Registration Number to read "EPA Reg. No. 51036-435" a)
  - **b**) Add "Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse" to Precautionary Statement.
- 3. Micro Flo Company LLC has agreed to comply with the conditions of continued and future registration as stipulated in the Agency's June 13, 2000 letter (Jim Jones ro C.E. Formby).
- 4. In May, 2003 the Agency conditioned the registration of FMC Corporation's technical

Signature of Approving Official: George T. LaRocca, Product Manager (13), IB/RD (7505C)

Jan 31,2005

bifenthrin product with a new data requirement (Developmental Neurotoxicity Study; EPA Guideline 870.6300). Please be aware that as the manufacturer of another technical bifenthrin product (EA Registration Number 51036-390), Micro Flo will also be subject to this data requirement.

- 5. Submit an updated at matrix that lists efficacy data for public health pests.
- 6. Please submit two (2) copies of your final printed label before you release product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing amended labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this action, please contact BeWanda Alexander of my team at (703) 305-7460.

# RESTRICTED USE PESTICIDE Toxic to fish and aquatic organisms

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for the uses covered by the certified applicator's certification.

# **Bifenthrin Pro**

# 0.2% DG Granular 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, golf courses, sod farms and athletic fields.

DO NOT USE THIS PRODUCT ON GOLF COURSES AND SOD FARMS IN NASSAU COUNTY OR SUFFOLK COUNTY, NEW YORK, OR ON SOD FARMS IN ARIZONA

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

FOR MORE INFORMATION, PLEASE VISIT OUR WEB SITE www.turffacts.com

EPA REG NO. 51036-	EPA EST No.

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with COMMENTS
In EPA Letter Dated

JAN 3 1 2005
Under the Federal Insecticide, Fungleide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

Manufactured By: Micro Flo Company LLC P.O.Box 772099 MEMPHIS, TN 38117

	FIRST AID
If on skin	•Take off contaminated clothing.
or	•Rinse skin immediately with plenty of water for 15-20 minutes.
clothing	•Call a poison control center or doctor for treatment advice.
Note to Physician	This product is a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.
Hotline Number	Have the product container label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-832-HELP (4357) for emergency assistance.

#### 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 800-424-9300.
- Human health: Call 1-800-832-HELP (1-800-832-4357).
- Animal health: Call ASPCA at 800-345-4735.

### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- 1. Long sleeved shirt and long pants
- 2. Waterproof gloves
- 3. Shoes and socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### USER SAFETY RECOMMENDATIONS

#### **Users Should:**

- 1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **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 apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not apply by air.

Do not apply more than 0.2 lb. active ingredient (a.i.) per acre per application on residential use sites (i.e., around private homes, apartment buildings, condominiums, nonagricultural outbuildings, non-commercial greenhouses, pre-schools or day care facilities). May be applied at up to 0.4 lb. a.i. per acre per application on non-residential use sites (i.e., around institutional, public, commercial or industrial buildings; parks; recreational areas or athletic fields).

Do not broadcast apply more than 0.4 lbs. a.i. (200 lbs. BIFENTHRIN PRO 0.2% DG Granular Insecticide) per acre per year.

Do not apply within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds. Not for use on nurseries, commercial greenhouses or grass grown for seed.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry to treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

- 1. Coveralls
- 2. Waterproof gloves

## 3. Shoes plus socks

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and greenhouses.

If watering-in of the granules is necessary, do not allow people or pets on treated areas until the grass or soil is dry.

Do not touch treated surfaces until dry.

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use 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.

**PESTICIDE DISPOSAL:** 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 empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

# GRASS AND PERIMETER APPLICATIONS (Including Golf Courses and Sod Farms)

GRASS APPLICATION (Including Golf Courses and Sod Farms): Broadcast BIFENTHRIN PRO 0.2% DG Granular Insecticide with suitable application equipment to ensure uniform coverage over the treatment area.

#### APPLICATION RATES

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, BIFENTHRIN PRO 0.2% DG Granular Insecticide may be applied at up to 0.4 lb a.i./Acre to control each of the pests fissted in this table. For residential lawn use, do not apply more than 0.2 lbs. a.i. per acre per application.

PEST	ACTIVE INGREDIENT LBS. PER ACRE	APPLICATION PRO 0.2% DG G	RATE BIFENTHRIN RANULAR
Armywerms <sup>1</sup> Cutworms <sup>1</sup> Sod Webrworm <sup>1</sup>	0.1 lbs. Ai/A	50 lbs per acre	1.15 lbs. per 1000 sq. ft.
Annual Bluegrass Weevil (Hyperoxies)(Adult) <sup>2</sup> Billbugs Adult) <sup>3</sup> BlackTurrfgrass Atanius (Adult) <sup>4</sup> Leafhormers Mealybugs	0.1-0.2 lbs. Ai/A	50-100 lbs per acre	1.15-2.3 lbs. per 1000 sq. ft.
Ants Centipectes Chinch Esugs <sup>5</sup> Fleas (Amults) Fleas (Larvae) <sup>6</sup> Imported Fire Ants (Adult) Imported Fire Ants (Mounds: 7 Millipedies Mole Cricket (Adult) <sup>8</sup> Mole Cricket (Nymph) <sup>9</sup>	0.2-0.4 lbs. Ai/A	100-200 lbs per acre	2.3-4.6 lbs. per 1000 sq. ft
Pillbugs Sowbugs	0.4 lbs. Ai/A	200 lbs per acre	4.6 lbs. per 1000 sq. ft

In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a weater body (lake, pond, river, stream, wetland, or drainage ditch).

In New York State, do make a single repeat application of BIFENTHRIN PRO 0.2% DG Granular Insecticide if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

#### **COMMENTS**

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

<sup>5</sup>Chinch Bugs: Chinch bugs infest the base of grass plants and are often found in the thatch layer. 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 applications rates may be required to control populations that contain both nymphs and adults during the summer.

<sup>6</sup>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.

<sup>7</sup>Imported Fire ants: Control will be optimized by combining broadcast applications that will control foraging workers and newly mated fly-in queens with mound drenches that will eliminate existing colonies. If the soil is not moist, then it is important to irrigate before application. Broadcast treatments should apply up to 0.4 lb a.i./A. Mounds should be treated by diluting 1 teaspoon of BIFENTHRIN PRO Multi-Insecticide Golf Courses / Nursery (EPA Reg. No. 51036-391) formulation per gallon of water and applying 1 to 2 gallons of finished spray per mound. The mounds should be treated with sufficient force to break 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 - 80 F) or in early morning or late evening hours.

Note: a sorray rig that is calibrated to apply 0.1 lb a.i./A (20 ozs.) of BIFENTHRIN PRO Multi-Insecticize: Golf Courses / Nursery (EPA Reg. No. 51036-391) in 2.5 gallons per 1,000 square feet constains the approximate dilution (1 teaspoon per gallon) that is required for fire ant mound drenches im the spray tank.

Mole Crucket 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 smould be treated at peak egg hatch to ensure optimum control of subsequent nymph populatioms (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 woung nymphs are more susceptible to insecticides and they are located near the soil surface winere the insecticide is most concentrated. Control of larger, more damaging, nymphs later in time 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, them 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.

#### PERIMETER APPLICATION

Apply to ground area 5 to 10 feet wide around and adjacent to the structure.

Appl Rate: Pounds Per 1,000 sq. ft. to be	Band Width In Feet								
treated		(100)	(150)	(200)	(250)	(300)	(400)	(500)	(1000)
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

NOTE: The amounts of BIFENTHRIN PRO 0.2% DG Granular Insecticide 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).

# 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 lbs. BIFENTHRIN PRO 0.2% DG Granular Insecticide per 1000 sq. ft. (0.2 to 0.4 lbs. a.i./Acre). See comments section under Grass 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 lbs.) of BIFENTHRIN

PRO 0.2%. DG Granular Insecticide per 4 sq. ft. 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: Exectrical transformers appear to be more attractive to ants during the cooler months. For best ressults, treat in the fall or early spring.

# **BIFENTHRIN PRO 0.2% DG Granular Insecticide Recommended Spreader Settings for Broadcast Applications**

	Application	on Rate lbs/1	,000 sq. ft.	Pattern Setting	Width
Equipmen:	1.15	2.3	4.6		·· · · · · · · · · · · · · · · · · · ·
LESCO Beroadcast	F	G	I		10
Prizelawn PBR-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 SR 2000	H 1/2	I 1/2	L ½	8	12
Scotts Handy	2	3	4		10
Scotts Acccupro	4 1/2	4 3/4	5	8	12
Spyrker	3 1/2	3 ¾	4 1/4		10
Vicon -402*	25	28 ½	38		40
Lely W*	3 3/4	4 1/4	5	III-B	52
Cyclonæway	1.5	3	5 3/4		4
Earthway 2400	8 1/2	10 1/2	12 1/2		10

<sup>\*</sup> 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 BIFENTHRIN PRO 0.2% DG Granular Insecticide. After calibration, the technician should regularly observe the amount of BIFENTHRIN PRO 0.2% DG Granular Insecticide 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 BIFENTHRIN PRO 0.2% DG Granular Insecticide. Calibration instructions are included: in the Owner's Manual that was provided by the equipment manufacturer at the time of purchase.

RESISTANICE: Some insects are known to develop resistance to products used repeatedly for control. Beccause the development of resistance cannot be predicted, the use of this product should correcorm to resistance management strategies established for the use area. Consult your local or scarce pest management authorities for details. If resistance to this product develops in your area. trhis product, or other products with a similar mode of action, may not provide adequate countrol. If poor performance cannot be attributed to improper application or extreme weather counditions, a resistant strain of insect may be present. If you experience difficulty with control same suspect that resistance is a reasonable cause, immediately consult your local company respresentative or pest management advisor for the best alternative method of control for your arrea.

Dealers Smoould Sell in Original Packages Only.

#### TERMS OF SALE OR USE

On purchases of this product, buyer and user agree to the following conditions:

WARRANTTY: MICRO FLO COMPANY LLC (MICRO FLO) makes no warranty, expressed or implied. Concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

of application and weather conditions, mixture with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller armd are assumed by the buyer at his own risk.

USE OF PRODUCT: MICRO FLO recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufactureer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

DAMAGEES: Buyer's or user's exclusive remedy for damages for breach of warranty or negligence: shall be limited to direct damages not exceeding the purchase price paid and shall not include inscridental or consequential damages.