

51036-395

07/16/2003

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
1200 Pennsylvania Ave. N.W.  
Washington, D.C. 20004

EPA Reg. Number:

51036-395

Date of Issuance:

JUL 16 2003

Term of Issuance: Conditional

Name of Pesticide Product:

Bifenthrin 7.9% FL T &amp; O

## NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Micro Flo Company LLC  
P.O. 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 conditionally registered in accordance with FIFRA sec. 3(c)(7)(A), subject to the following provisions:

1. You must make the following label changes:
  - a. Revise the EPA Registration Number to read "EPA Reg. No. 51036-395"
  - b. Add the following restriction after the first sentence of the Environmental Hazards section: "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."
2. Submit or cite data to satisfy product chemistry guidelines 830.6317 (storage stability) and 830.6320 (corrosion characteristics). EPA acknowledges that you submitted data (MRID# 458147-01) to fulfill these guidelines under the identical product file symbol 51036-GOG (Bifenthrin 7.9% FL GC). These data are currently under review. We will notify you of our determination regarding the acceptability of these data once our review is completed.

Signature of Approving Official:

*Susan L. Stanton for George T. Larocca*

Date:

JUL 16 2003

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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 to C.E. Formby).
4. In May, 2003 the Agency conditioned the registration of FMC Corporation's technical 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 two (2) copies of your final printed label before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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 Susan Stanton of my team at (703) 305-5218.

Sincerely,

George T. LaRocca  
Product Manager (13)  
Insecticide Branch  
Registration Division (7505C)

Enclosures

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ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
JUL 16 2003

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

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
51036-395

For Agricultural and Commercial Use Only

ACTIVE INGREDIENT:	By Wt.
Bifenthrin*.....	7.9%
INERT INGREDIENTS:.....	92.1%
TOTAL	100.0%

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

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See below for additional precautionary information.

**FIRST AID**

**IF SWALLOWED:** Call a physician or Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor.

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

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

**IF IN EYES:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

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

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

EPA Reg. No. 51036-395

EPA Est. No. 51036-GA-001

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

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

**EMERGENCY TELEPHONE NUMBERS:**

(800) 424-9300 (CHEMTREC, transportation and spills)  
(800) 900-4000 (Poison Control Center, human health)  
(800) 345-4735 (ASPCA, animal health)

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

**CAUTION.** Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton
- Shoes plus socks

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton
- Shoes plus socks
- Protective eyewear

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 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. 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.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow to drift to blooming crops if bees are visiting the treatment area.

#### **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 this product through any kind of irrigation system,

#### **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 into 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:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride or viton.
- 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 Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep children and pets off treated areas following application until the lawn has dried.

## STORAGE AND DISPOSAL

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

**Storage:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use replace lids and close tightly. Do not put concentrate or dilute material into food or drink container.

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

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

**Pesticide Disposal:** Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or 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). Then offer for recycling or reconditioning, 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.

## APPLICATION RECOMMENDATIONS

Landscape Ornamentals, Greenhouse and Home Lawn Uses (Including Interiorscapes, Plantscapes, and Ornamental Plantings Grown for Aesthetic Purpose)

## GENERAL APPLICATIONS INSTRUCTIONS

BIFENTHRIN 7.9% FL T&O formulation mixes readily with water and other aqueous carriers, and may be applied using all types of spray equipment. BIFENTHRIN 7.9% FL T&O may be tank-mixed with other products, including insect growth regulators, to control a wide spectrum of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in greenhouses and 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.

When tank mixing BIFENTHRIN 7.9% FL T&O with other products, observe all precautions and limitations on each separate product label. The addition of spreader stickers is not necessary.

**To use Tip 'N' Measure Containers:**

1. Remove the measuring chamber cap and induction seal.  
Replace 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.

**RECOMMENDED APPLICATION RATES FOR  
LANDSCAPE ORNAMENTALS AND GREENHOUSES**

Pest	Rate lb. ai/10 gal.	Rate oz./10 gal.	Comments
Ants Aphids Bagworms Blackvine Weevil Brown Soft Scales Broad Mites Budworms California Red Scale (crawlers) Centipedes Clover Mites Crickets Cutworms Earwigs Elm Leaf Beetles Fall Webworms Flea Beetles Fungus Gnats Grasshoppers Lacebugs Leafhoppers Leaf feeding Caterpillars Mealybugs Millipedes Orchid Weevil Pillbugs Pine Needle Scales (crawlers) Plant Bugs (incl. <i>Lygus</i> <i>spp.</i> ) San Jose Scales (crawlers) Sowbugs Spiders Tent Caterpillars Tip Moths Weevils Whiteflies	0.004 to 0.02	0.80 to 4.0	Apply the specified rate as a full coverage foliar spray. Repeat as necessary to achieve control using higher rates as pest pressure and foliage area increases.  To control Bagworm: Apply when larvae begin to hatch. Spray larvae directly. Applications made when larvae are young will be most effective.  To control scale crawlers and twig borers: Treat trunks, stems, and twigs in addition to plant foliage.  Certain cultivars may be sensitive to the final spray solution. A small number of plants should be treated prior to application of the entire planting.  Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance.
Citrus Thrips Beet Armyworm European Red Mite Leafrollers Spider Mites Thrips Twig Borers	0.006 to 0.02	1.2 to 4.0	
Japanese Beetles (adult) Leafminers Pecan Leaf Scorch Mite	0.01 to 0.02	2.0 to 4.0	

**Application to Home Lawns:** Apply BIFENTHRIN 7.9% FL T&O as a broadcast treatment in 2 to 10 gallons of carrier per 1000 sq. ft. Use higher volumes to get uniform coverage when treating dense grass foliage.



## RECOMMENDED LAWN APPLICATION RATES

Pest	BIFENTHRIN 7.9% FL T&O	Comments
Ants	0.23 - 0.46	*For control of overwintered Mole Crickets apply the lower rate early Spring. For the control of adult Mole Crickets late Summer or early Fall apply the higher rate. To enhance control a non-ionic surfactant or a silicon based surfactant (0.25% w/v) may be applied as a tank-mix for the control of late Summer or Fall Adult Mole Crickets. For best results irrigate immediately after application with a minimum of 0.25 inch of water.
Armyworms	oz. per 1000 ft <sup>2</sup>	
Bluegrass billbugs	-or-	
Chinchbugs	10 - 20	
Crane Flies	oz. Per acre	
Crickets (Mole)*	-or-	
Cutworms	0.05 - 0.1	
Earwigs	lbs. ai per acre	
Fall Webworms	-or-	
Fleas	0.46 - 0.92	
Grasshoppers	oz. per 1000 ft <sup>2</sup>	
Mites	-or-	
Sod Webworms	20 - 40	
Imported Fire Ants	oz. per acre	
Japanese Beetles (adult)		

Rate Bifenthrin 7.9% FL T&O in oz. (lbs. a.i.)	BIFENTHRIN 7.9% FL T&O/Gallons of Finished Spray				
	1 gal.	3 gal.	5 gal.	25 gal.	100 gal.
0.80 (0.004)	-	1/3	1/2	2	8
1.2 (0.006)	1/3	1/2	2/3	3	12
2.0 (0.010)	1/2	1	1	5	20

**Dealers Should Sell in Original Packages Only**

**Terms of Sale or Use:** On purchase of this product buyer and user agrees to the following conditions:

**Warranty:** Micro Flo Company 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.

**Use of Product:** Micro Flo Company's 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 manufacturer, 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.

**Damages:** 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 incidental or consequential damages.