

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

October 23, 2000

Matthew Talley  
Federal Registration Specialist  
Micro Flo Company  
P.O. Box 772099  
Memphis, TN 38117-2099

Subject: Chlorpyrifos MOU dated June 7, 2000  
Chlorpyrifos 0.5% Granule  
EPA Reg No.: 51036-263  
Submission Dated: August 16, 2000

Dear Mr. Talley:

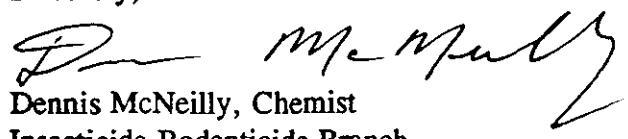
The revised labeling referenced to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended, is acceptable, provided you incorporate the Agency's conditions as enumerated in this letter below and submit one copy of your final printed label prior to releasing the product for shipment.

1. Provided the retail size of your product is 50 lbs the phrase "restricted use pesticide" is not required on the product label.
2. Add "For Professional Use Only" to the directions for imported fire ant control.

The conditions of paragraph 5 of the June 2000 Memorandum of Agreement apply to this label amendment, specifically this amended label is effective Dec 1, 2000. Failure to comply with any of the conditions of registration set forth in Paragraph 10 the MOA shall be grounds for cancellation of the affected registration(s) under FIFRA section 6(e). Submit one copy of the revised final printed label before releasing the product for shipment. If the conditions enumerated above are not complied with, the registration will be subject to cancellation in accordance with FIFRA Section 6(e).

A stamped copy of the label is enclosed for your records. If you have questions, please contact me at (703) 308-6742 or electronically at [McNeilly.Dennis@EPA.gov](mailto:McNeilly.Dennis@EPA.gov). You may also contact Judy Loranger at (703)-308-8056 if you have specific questions regarding this letter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dennis McNeilly', is written over the typed name.

Dennis McNeilly, Chemist  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Enclosure: stamped label

ACCEPTED  
with COMMENTS  
CHLORPYRIFOS 0.5% GRANULE In EPA Letter Dated:

OCT 23 2000  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
~~as amended~~ ~~the pesticide~~  
registered under EPA Reg. No.

51036-263

For effective long lasting control of Chinch Bugs, Ants, Fleas, Ticks, Foraging Ants, Mole Crickets and other outdoor insects.

ACTIVE INGREDIENT:

Chlorpyrifos (O,O,-diethyl-O-[3,5,6-trichloro-2- pyridyl phosphorothioate]..... 0.50%

INERT INGREDIENTS:..... 99.50%

TOTAL.....100.00%

For mound treatment control of imported fire ants

Controls Ants (including Carpenter, Argentine & Foraging), Army-worms (Beet, Fall, Yellow-striped), Centipedes, Chinch Bugs (2), Clover Mites, Cutworms, Crickets, Earwigs, Fiery Skipper, Fleas, Grasshoppers, Greenbugs, Leafhoppers, Millipedes, Mole Crickets (4), Roaches (asian), Sod Webworms (Lawn Moth) (3), Sow Bugs, Springtails, Ticks (Brown Dog Tick) (1), Turfgrass Weevil (Hyperodes), White Grubs, European Crane Fly, Southern Chafer, Japanese Beetle, and June Beetle (Larvae), (5), Bluegrass Billbugs (6) Imported Fire Ants (7). (See numbered paragraphs for insect control). 2 lbs. treats up to 400 sq. ft.

USE FOR CRAWLING INSECT CONTROL OUTSIDE OF BUILDINGS AT INDUSTRIAL PLANT SITES (SUCH AS AROUND WAREHOUSES, FOOD PROCESSING AND FOOD MANUFACTURING SITES).

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

Organophosphate

IF SWALLOWED: 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF IN EYES: Hold eye 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 eye. Call a poison control center or doctor for 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 INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

This product is an organophosphorus ester that inhibits cholinesterase.

MICRO FLO COMPANY  
P.O. BOX 772099  
MEMPHIS, TN 38117

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

May be harmful if swallowed. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling and before eating or smoking. Wash contaminated clothing before reuse. Keep away from food, feed-stuffs, and water supplies. Keep children and pets off treated areas until this material is washed into the soil and the grass is dry.

EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact:

- (800) 424-9300 CHEMTREC (transportation and spills)
- (800) 900-4044 Poison Control Center (human health)
- (800) 345-4735 ASPCA (animal health)

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. 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 where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters. Use only as directed.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

STORAGE: Store product in its original labeled container in a cool, dry locked place out of reach of children.

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: 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.

SPECIFIC DIRECTIONS

The following numbered paragraphs correspond to numbers in parenthesis (x) on the front panel following the insect names. Insects not numbered may be controlled by following the GENERAL DIRECTIONS. Repeat treatments as needed for control. Keep the public off treated areas until the granules are sprinkled in and the area is dry.

DO NOT EXCEED 200 LBS. OF CHLORPYRIFOS 0.5% GRANULE PER ACRE

(1) BROWN DOG TICKS, & FLEAS

Use 1 ¼ lb./400 sq.ft. (4.6 lb./1,000 sq.ft.) for area control of these insects, infesting road medians where these pests are present and create a nuisance or a possible public health problem. DO NOT allow public use of treated area during applications.

(2) CHINCH BUGS

Apply 1 ¼ lbs./300 to 400 sq.ft. (4.0 to 4.6 lbs./1,000 sq.ft. or 180 to 200 lb./A) when insects appear and/or their damage is imminent. To prevent damage apply as soon as daily temperatures reach 80°F and repeat every 2 months. Use lower rate as preventive treatment or for light infestations; the higher rate when insects are present in large numbers and turf is being damaged.

(3) SOD WEBWORMS

For Sod Webworms, delay watering or mowing the treated area for 12 to 24 hours after treatment. Treat in the spring or when insects first appear troublesome. Additional treatments at 30 day intervals may be needed for new infestations. Apply at rate of 4.6 lbs. per 1,000 sq. ft.

(4) MOLE CRICKETS

Use 4.6 lbs. per 1,000 sq. ft. Treat suspected problem areas when insects become a problem or as recommended by your local Agricultural Extension Service Specialist.

The Best Time to Control Adult Mole Crickets

JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1.											
2.											

1. Indicates egg laying time.      2. Best time to control Crickets

(5) WHITE GRUBS; CRANE FLY LARVAE

To control White Grubs, Black Turfgrass Ataenius, European Crane Fly, Southern Masked Chafer, Japanese Beetle and June Beetle Larvae, use 4.6 lbs. to treat 1,000 sq.ft. To improve efficacy apply enough water to thoroughly wash the insecticide into the turf. For best results remove thatch first and treat when grubs are young and actively feeding near the soil surface, usually during late July & August. Consult your local Agricultural Extension Service Specialist for best time to treat.

European Crane Fly Larvae will be controlled using 4.6 lbs. per 1,000 sq. ft. or will be controlled simultaneously with the same application being applied for control of "White Grubs", i.e., (4.6 lbs./1,000 sq.ft.) Consult your agricultural agent for proper time to apply. For best results, first remove thatch. Water the granules into the soil.

## (6) BLUEGRASS BILLBUGS

Use 4.6 lbs./1,000 sq. ft. for Bluegrass Billbugs. To improve control apply enough water to wash granules into soil where insects are feeding.

## (7) IMPORTED FIRE ANT CONTROL

**MOUND TREATMENT** - For treatment of Fire Ant mounds occurring in golf courses and non-residential premise areas, treat individual ant mounds measuring from 3 to 12 inches in diameter by applying two tablespoons (3.2 oz.) of granules evenly in a circle around the outer edges (1 to 2 feet from the center of the mound. Finish the treatment by applying 4 tablespoons (0.8 oz.) sprinkled evenly over the center of the mound. After application of the granules, gently sprinkle the treated area with a minimum of 1 quart of water per 6 inches of mound diameter. Apply in cool weather 65 to 80 degrees F) or in early morning or late evening. Best results will be obtained if mound is not disturbed after treatment thus allowing ants to come and go and to be exposed to the insecticide. Repeat treatments as needed for additional control but not more than once every 7 days.

**GENERAL DIRECTIONS FOR USE ON GOLF COURSES TURF ONLY** Apply 1/2% Chlorpyrifos Granule uniformly to golf courses turf, using any hand or power operated type spreader designed for application of granules. Treat when insects first appear at the rate of 4.6 lbs./1,000 sq. ft. (200 lbs./Acre) for Surface insects. Increase this rate as indicated for control of certain Soil insects under SPECIFIC DIRECTIONS. For best efficacy sprinkle the turf with water to move the granules into the zone of insect infestation. Repeat treatment as necessary. Observe Watering limitation in paragraph for No. (3) Sod Webworms. Keep the public (especially children and pets) off treated areas until the granules are sprinkled in and the area is dry.

## RATE TO USE FOR SURFACE INSECTS

For control of Ants (as listed on front panel), Armyworms (Beet, Fall, Yellowstriped), Centipedes, Chinch Bugs, Clover Mites, Cutworms, Crickets, Earwigs, Fiery Skipper, Fleas, Grasshoppers, Greenbugs, Leafhoppers, Millipedes, Sod Webworms (Lawn Moth), Sowbugs, Springtails, and Ticks (Brown Dog Tick) use 4.6 lbs./1,000 sq. ft.

## FOR SOIL FEEDING INSECTS

Refer to SPECIFIC DIRECTIONS paragraphs; (3), (4), and (5) in for rates to control the listed turf insects which feed below the soil surface. When using a spreader, calibrate with each application by accurately weighing a few pounds into the spreader and apply to a measured area. Adjust spreader setting in order to assure the correct rate of application.

NOTE: The age, condition of spreader and operator speed can cause a wide variation of rates.

PERIMETER TREATMENT AROUND BUILDINGS AT INDUSTRIAL PLANT SITES- USE FOR  
CRAWLING INSECT CONTROL

USE FOR CRAWLING INSECT CONTROL OUTSIDE OF, WAREHOUSES, FOOD PROCESSING,  
FOOD MANUFACTURING ESTABLISHMENTS AND COMMERCIAL BUILDINGS.

To protect against insects entering the indoors, a band of granules may be placed around the outside of buildings to kill Ants (as listed on front panel), Ticks (Brown Dog Tick), Crickets, Earwigs, Fleas, Millipedes, Roaches (Asian), Sowbugs, Springtails before they attempt to enter. Use 1 ¼ pounds to treat 400 sq. ft. (as a band 5 ft. x 80 ft. long) around the structure. Apply when insects have become troublesome or before they cause problems in the spring or early fall. Repeat one month later and then as needed for control but not more than once every 7 days. Keep the public off treated area until granules are sprinkled in and the area is dry.

MICRO FLO WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL THEREOF AND IS REASONABLY FIT FOR THE PURPOSE STATED ON SUCH LABEL ONLY WHEN USED IN ACCORDANCE WITH THE DIRECTIONS FOR USE. IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE 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 THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF MICRO FLO. IN NO CASE SHALL MICRO FLO BE LIABLE FOR THE CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

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