

Reg # 51036-89

PM-14

File

United States Environmental Protection Agency  
Washington, D.C. 20460

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OCT 1 1993

Office of  
Prevention, Pesticides and  
Toxic Substances

Morris Gaskins  
MICRO-FLO CO.  
BOX 5948  
LAKELAND FL 33807

Subject: Label Amendment Submission of 06/02/93  
in Compliance with WPS Labeling Requirements  
EPA Reg No. 51036-89  
ETHION 4EC

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is accepted subject to the comments listed below.

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

A copy of your proposed labeling stamped "Accepted with comments" is attached. Make any required changes described in the attached and send three copies of final labeling as soon as it is available to:

Document Processing Desk (FIN-LABEL)

Office of Pesticide Programs (H-7504C)  
U.S. Environmental Protection Agency  
401 M Street SW  
Washington, DC 20460-0001

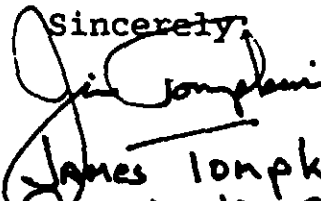
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Hand or courier deliveries of final labels may be made to:

Document Processing Desk (FIN-LABEL)  
Room 266A Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Please correct the typographical errors circled on the draft before printing final labeling.

In your final labeling the "Agricultural Use Requirements" text must be contained in a clearly separate box. This box may be set apart by a line, by another graphical device, by a different color background, or in any other way that clearly distinguishes it from surrounding text.

Sincerely,  
  
James Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division

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MICRO-FLO CO.  
ETHION 4EC  
51036-89 06/02/93  
Original Submission

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

The Agricultural Use Requirements section must either be placed in a box or printed on the label in a contrasting color from the surrounding text.

Delete the REI exception statement from the Agricultural Use Requirements box. Follow the instructions on page 36 of the Main Label Guidance for placement of crop-specific REIs.

There is a typographical error(s) in the engineering control statement(s).

There is a typographical error(s) in the User Safety Recommendations section.

4910

Draft labeling for WPS language in response to PR 93-7

**MICRO FLO  
ETHION 4EC  
ORGANOPHOSPHATE**

**Miticide-Insecticide For Agricultural or Commercial Use Only**

**ACTIVE INGREDIENT:**

Ethion (0,0,0'-0'-tetraethyl S.S'-methylene bisphosphorodithioate .....	46.5%
INERT INGREDIENTS:* .....	53.5%
TOTAL .....	100.0%

\*Contains petroleum distillate 4 Pounds Ethion per gallon

**KEEP OUT OF REACH OF CHILDREN**

**WARNING AVISO**

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

**STATEMENT OF PRACTICAL TREATMENT  
Organophosphate**

**IF SWALLOWED:** Call a physician or poison control center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth-to-mouth. Get medical attention.

**IF IN EYES:** Flush with plenty of water. Get medical attention if irritation persists.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**This product is an organophosphorus ester that inhibits cholinesterase.**

**NOTE TO PHYSICIAN:** Active ingredient is a cholinesterase inhibitor. Patient should be kept under observation for 48 hours. Atropine is antidotal. Give 4 mg. Atropine sulfate intramuscularly or intravenously as soon as cyanosis is overcome. Repeat every 15 minutes until patient is fully atropinized. Pralidoxime (2-PAM) is also antidotal and should be administered in conjunction with Atropine. Never give morphine.

See Additional Precautionary Statements Elsewhere on label

EPA Reg. No. 51036-89

ACCEPTED  
with COMMENTS EPA Est. No. 51036-GA-1  
In EPA Letter Dated

OCT 1 1993

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

51036-89

5910

Manufactured By  
MICRO FLO COMPANY  
P.O. BOX 5948  
LAKELAND, FLORIDA 33807

**PRECAUTIONARY STATEMENTS**  
**Hazards To Humans And Domestic Animals**

**WARNING**

May be fatal if swallowed or absorbed through skin. May cause eye injury. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist.

**PERSONAL PROTECTIVE EQUIPMENT**

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

Applicators and other handlers must wear:

1. Coveralls over short-sleeved shirt and short pants
2. Chemical-resistant gloves, such as barrier laminate or viton
3. Chemical-resistant footwear plus socks
4. Protective eyewear
5. Chemical-resistant headgear for overhead exposure
6. Chemical resistant apron when cleaning equipment, mixing, or loading
7. For exposure in enclosed areas, use a respirator with either an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)

For exposure outdoors, use a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Control:**  
Human flaggers must be in enclosed cabs.

The closed system or enclosed cabs must be used in a manner that meets tyhe requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)]. The handler PPE requirements may be r4educed or modified as specified in the WPS.

**USER SAFETY RECOMENDATIONS**

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 toxic to fish, and aquatic invertebrates. Fish and aquatic invertebrates may be killed in areas where this pesticide is used. Do not contaminate water when disposing of equipment washwaters.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

**CHEMIGATION PROHIBITION**

Do not apply this product through any type of irrigation system.

**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.

**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 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 4 days.

EXCEPTION: REI for grapes is 14 days

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 over short-sleeved shirt and short pants
2. Chemical-resistant gloves, such as barrier laminate or viton
3. Chemical-resistant footwear plus socks
4. Protective eyewear
5. Chemical-resistant headgear for overhead exposure

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Do not use or store near heat, open flame or hot surfaces. 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 containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

**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. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not cut or weld metal containers.

RECOMMENDATIONS

Do not use in undiluted form. Do not use if material does not emulsify.

Apply the listed amount per acre when insects first appear and repeat as required to maintain effective control. Use in sufficient water for thorough coverage, unless otherwise noted for listed crops. Coverage of upper and lower leaf surfaces is essential for good control. Observe use limitations. If insect control is required beyond the following use patterns, supplement the control program with other suitable pesticides. When applying this material by aircraft, mix the recommended amount with sufficient water to provide a minimum of 1 gallon finished spray per acre. Where more than 2 quarts are recommended, mix with sufficient water to provide a minimum of finished spray equal to twice the amount of Ethion.

Observe days interval between last application and harvest indicated by number in ( ) following the crop.

APPLES:

Apple Aphid, European Red Mite, Rosy Apple Aphid, San Jose, Scale - Use 0.6 pt. plus 2 gals. dormant oil per 100 gals. water. Apply during dormant or delayed dormant period. ("Superior" type oil of 60 to 70 second viscosity preferred for delayed dormant use.)

BERMUDA GRASS (Lawns and Seed Crop):

Eriophyid Mites - 1 tablespoon per gallon of water to cover 200 sq. ft. of lawn or use 3 fluid ozs. per 6 gallons of water per 1200 sq. ft. Apply as needed to maintain effective control. Keep children and animals off treated areas until the spray has completely dried. Do not apply to Bermuda grass to be used for grazing or forage to be fed to livestock.

CHERRIES:

Black Cherry Aphid, San Jose Scale - 0.5 to .75 pt. plus 2 gals. dormant oil per 100 gals. water. Apply during dormant or delayed dormant period. ("Superior" type oil of 60 to 70 second viscosity preferred for delayed dormant use).

CUCUMBERS (0), SUMMER SQUASH (0):

Serpentine Leafminer, Two-spotted Spider Mite - 1 pint per acre.

GRAPEFRUIT(0), LEMONS (21), ORANGES (0), TANGELOS (0), TANGERINES (0):

To control Citrus Red Mite, Citrus Rust Mite, Sixspotted Mite, Texas Citrus Mite, Black Scale, Brown Soft Scale, California Red Scale, Chaff Scale, Florida Red Scale, Glover Scale, Purple Scale, Snow Scale, Yellow Scale, Citrus Whitefly. Mites - Apply 4 to 6 pints per acre in a minimum of 50 gallons of diluent to insure thorough coverage of foliage. Use the higher rate on groves that have mature trees with more foliage to cover. If a summer oil is



used in spray mixture, consult the oil label for recommended rates. Where Snow Scale is a problem, spray trunk, limbs and twigs thoroughly. For Whitefly, apply shortly after Whiteflies have laid their eggs. Do not apply more than once on Lemons and Limes; on other citrus crops listed, do not apply within 90 days of previous application. On Tangerines, do not apply more than twice per crop. Do not apply oil within 3 weeks of a sulfur application. Do not oil use on Naval oranges.

**GRAPES (California only) (30):**

To control Grape Leafhopper, Twospotted Spider Mite, Willamette Mite - Use 1.5 to 2.5 pints per acre. Do not apply more than twice during fruiting period.

**NOTE: REI for grapes is 14 days.**

**MELONS (0):**

Melon, Leafminer, Serpentine Leafminer, Twospotted Spider Mite - 1 pt. per acre.

Melon Leafhopper - 1.5 to 2 pts. per acre.

Petrobia Mite (California only), Cucumber Beetle - 1 to 2 pts. in a minimum of 10 gals. water per acre.

**ORNAMENTALS (Greenhouse) Soil Treatment:**

Millipedes - Use 10 fl. ozs. in 75 gals. of water and apply to 2,500 sq. ft of bench space. Wear mask or respirator approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part II for Ethion protection.

**ORNAMENTALS (Outdoors):**

Twospotted Spider Mite - Use 0.5 pint per 100 gals. May cause some needle drop on Anderson Yew.

**PEARS:**

Clover (Brown Almond) Mite, European Red Mite, San Jose Scale - .75 pt. plus 1 to 2 gals. dormant oil per 100 gals. water. Apply during dormant or delayed dormant period. ("Superior" type oil of 60 to 708 second viscosity preferred for delayed dormant use).

**TURF: (Commercial Use) -**

Chinch Bugs, Sod Webworm - Use 0.33 to 0.5 pint per 1000 sq. ft. of turf applied in 20 gallons of water or 1.67 to 2.5 pints in 100 gallons of water to treat 5000 sq. ft. To treat one acre, use 1.75 to 2.5 gallons applied in 800 gallons of water. It is important that the spray penetrate through the mat of turf to reach the insects. It helps to have the turf well irrigated prior to treatment.

**NOTE:** Keep children and animals off treated areas until this material has been thoroughly watered into soil and the grass has completely dried.

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**WALNUTS (Dormant or Delayed Dormant):**

Overwintering eggs of European Red Mite, Brown Mite, San Jose Scale and Soft Scale (West Coast only): Use 4 pints per acre with 2 gallons of a dormant oil in a minimum of 100 gallons of water. This treatment should only be used on trees that have not suffered from lack of moisture at anytime during the growing season. Oil should be applied to orchards when soil moisture is low. Do not graze livestock in treated groves.

**SUMMER:**

European Red Mite, Twospotted Spider Mite, Walnut Aphid, and Walnut Husk Fly (California only) - Use 5 pints per acre. Do not make more than 2 applications during the fruiting period. Do not apply after husks split. Do not graze livestock in treated groves.

**CONDITIONS OF SALE**

All statements concerning the use of this product apply only when used as directed.

THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THIS PRODUCT OR ITS USE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL.

Read all directions carefully.