

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

Office of  
Prevention, Pesticides and  
Toxic Substances

OCT 1 1993

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. 51036-90  
ETHION 8 EC

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

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 (7505C)

MICRO-FLO CO.  
ETHION 8 EC  
51036-90 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.

Your label contains redundant WPS phrases that should be eliminated. Please see the attached comments.

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

Admin: 51036-90

**Analyst comments:**

Statement of Practical Treatment contains redundant phrasing with respect to cholinesterase inhibition.

Draft labeling for WPS language in resp. as to PR 93-7

**RESTRICTED USE PESTICIDE**

**Due To Dermal and Inhalation Toxicity**

**For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's Certification**

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated**

**ETHION 8 ZC  
ORGANOPHOSPHATE**

**Insecticide - Miticide**

**OCT 1 1993**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
51036-90

**ACTIVE INGREDIENT:**

**Ethion (0,0,0'0,'-tetraethyl S,S'-methylene  
bisphosphorodithioate** .....

**81.9%**

**INERT INGREDIENTS:** .....

**18.1%**

**TOTAL** .....

**100.0%**

**Contains 8 Pounds Ethion Per Gallon**

**KEEP OUT OF CHILDREN**

**POISON**

**DANGER**

**PELIGRO**

**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 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Never give anything by mouth to an unconscious person. Get medical attention. If breathing has stopped, start artificial respiration immediately and maintain until a doctor sees victim.

**IF IN EYES:** Flush with water for 15 minutes and get immediate medical attention.

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

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

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

**NOTE TO PHYSICIAN:** Active ingredient in 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. 2-PAM is also antidotal and may be administered in conjunction with atropine.

See Elsewhere On Label For Additional Precautionary Statements

EPA Reg. No. 51036-90

EPA Est. No. 51036-GA-1

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

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

**DANGER**

Fatal if swallowed, inhaled or absorbed through skin. Do not breathe vapor or spray mist. Do not get in eyes, on skin or on clothing.

**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 F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

1. Coveralls over long-sleeved shirt and long pants
2. Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber 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 outdoor exposure, 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 enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)]. The handler PPE requirements may be reduced 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 product is toxic to fish and wildlife. Keep out of lakes, ponds and streams. Do not contaminate water by cleaning of equipment or disposal of wastes and containers. Shrimp and crab may be killed at application rates recommended on this label. Do not apply when these are important resources. Do not apply when weather conditions favor drift from the areas treated. Do not apply where run-off is likely to occur. Apply this product only as specified on this label. This product is toxic to bees and should not be applied when bees are actively visiting the 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.

**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 24 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 over long-sleeved shirt and long pants]
2. Chemical-resistant gloves, such as barrier laminate or butyl , rubber or nitrile rubber or viton
3. Chemical-resistant footwear plus socks
4. Protective eyewear
5. Chemical-resistant headgear for overhead exposure

**CHEMIGATION PROHIBITION**

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

**STORAGE AND DISPOSAL PESTICIDE STORAGE:**

Do not store below 0 degrees F, (-18 degrees C). 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 acutely hazardous. 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.

**GENERAL DIRECTIONS**  
**NOT FOR USE OR STORAGE IN OR AROUND THE HOME.**  
**DO NOT USE IF MATERIAL DOES 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 with dilute or concentrate sprayers, 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 8 used. Do not use in undiluted form. Observe days interval between last application and harvest indicated by the number ( ) following the crop.

**APPLES (Dormant or Delayed Dormant):**  
 Apple Aphid, European Red Mite, Rosy Apple Aphid, San Jose Scale - 4.8 fluid ounces plus 2 gallons dormant oil per 100 gallons water. (Superior type oil of 60 to 70 second viscosity preferred for delayed dormant use).  
 Summer: Brown Mite, European Red Mite, Twospotted Spider Mite - Use 1/4 pint per 100 gallons of water (maximum of 2 1/2 pints per acre). Apply during the fruiting period. If making no more than 4 applications, wait 40 days before harvest; if making no more than 3 applications, wait 30 days before harvest; if making no more than 2 applications, wait 20 days before harvest.  
 Codling Moth - Use 1/2 pint per 100 gallons of water (maximum of 5 pints per acre). If making no more than 4 applications, wait 60 days before harvest; if making no more than 2 applications, wait 40 days before harvest. Apply at petal fall and every 10 to 14 days thereafter until control is achieved. Do not use Ethion on Astrachen, Pratt, Melba, N.J. No. 3 (Brite Mac), Wealthy, Williams Red (Red Williams), Yellow Transparent or any variety maturing with or before Early McIntish as injury is likely to occur.

**CUCUMBERS (0): SUMMER SQUASH (0):**

Serpentine Leafminer, Twospotted Spider Mite - 8 fluid ounces per acre.

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

Citrus Red Mite, Citrus Rust Mite, Sixspotted Mite, Scales (Black, Brown Soft, California Red, Purple, Yellow Chaff, Glover), and Citrus Whitefly. For Mites - Use 2 to 6 pints per acre in sufficient water for thorough coverage. Use the higher rate for large trees or when infestations are severe. For Mites, Scales and Citrus Whitefly - Use 5 to 7.5 pints per acre in sufficient water for thorough coverage combined with 0.5 to 0.7% summer oil (Florida and Texas area) or same rate combined with 1 to 2 gallons summer oil for West Coast. For Whitefly, apply shortly after eggs have been laid. Do not apply more than 2000 gallons spray per acre. With concentrate sprayers apply 50 to 100 gallons of spray per acre.

Citrus thrips, California and Arizona only: Use 2 1/2 to 3 pints per acre. Apply when Thrips first appear and before they exceed 2 to 3 thrips per leaf. Do not apply more than once per season on lemons. On grapefruit, oranges, tangelos and tangerines do not apply within 90 days of previous application. On tangerines do not apply more than twice per season. Do not apply oil within 3 weeks of sulfur application.

**GRAPES (30):**

Grape Leafhopper, Twospotted Spider Mite, Willamette Mite (West Coast insects) - Use 1 to 2 1/4 pints per acre. When used at rates of 1 1/4 pints per acre or less, do not apply within 30 days of harvest or more than twice during the fruiting period; or do not apply within 60 days of harvest with no limit on the number of applications per season. At rates above 1 1/4 pints per acre, make only 1 application per season. Do not apply to Salvador, Muscat or Fehr-Szago varieties of grapes.

**MELONS (0):**

Melon Leafminer, Serpentine Leafminer, Twospotted Spider Mite - Use 1/2 pint per acre.

Melon Leafhopper - Use 3/4 to 1 pint per acre in a minimum of 5 gallons of water per acre by ground.

Petrobia Mite (California only) - Use 1/2 to 1 pint in a minimum of 10 gallons of water per acre.

**ORNAMENTALS (Greenhouse):**

Millipedes - Soil Treatment: Use 5 fluid ounces in 75 gallons of water and apply to 2,500 square feet of bench space wear mask or respirator approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health for Ethion protection.

(Outdoors): Twospotted Spider Mite - Use 4 fluid ounces per 100 gallons of water. May cause some needle drop on Anderson Yew.

**PEARS (Dormant or Delayed Dormant):**

Brown Mite, European Red Mite, San Jose Scale - 6 fluid ounces plus 1 to 2 gallons dormant oil per 100 gallons water.

Summer: Brown Mite, European Red Mite, Twospotted Spider Mites - Use 1/4 to 1/3 pint per 100 gallons of water (maximum of 2 1/2 pints per acre). Do not make more than 3 applications after the first cover spray nor apply within 30 days of heaviest; or do not make more than 2 applications after the first cover spray nor apply within 20 days of harvest.

Pear Psylla - Use 1/3 to 1/2 pint per 100 gallons of water. (Maximum of 5 pints per acre). Apply just before bloom if insects are present. Repeat 30 days later if necessary. Do not make more than 3 applications after the first cover spray nor apply within 60 days of harvest.

**TURF (Commercial Use):**

Chinch Bugs, Scd Webworm - Use 1/4 pint per 1000 square feet of turf applied in 20 gallons of water or 1 1/4 pints in 100 gallons of water to treat 5000 square feet. To treat one acre, use 7 to 9 pints applied in 800 gallons of water. It is important that the spray penetrates through the mat of turf to reach the insects. It helps to have the turf well irrigated prior to treatment.

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

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

Overwintering eggs of European Red Mite, Brown Mite, San Jose Scale and Soft Scale (West Coast only) - Use 2 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 any time during the growing season. Oil should not 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 2 1/2 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.