

51036-89

PM-16

10/19/89

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Updated 10-4-89 per reregistration phase 2 (inerts)

**ETHION 4EC**  
**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%**

**4 Pounds Ethion per gallon**

**KEEP OUT OF REACH OF CHILDREN**  
**WARNING AVISO**

**PRECAUCION AL USUARIO: Si usted no lee ingles, no use este  
producto hasta que la etiqueta haya sido explicada ampliamente.**

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**STATEMENT OF PRACTICAL TREATMENT**

**IF SWALLOWED:** Call a physician or poison control center. Give 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 or convulsing person.

**IF INHALED:** If not breathing, give artificial respiration. Get medical attention.

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

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

**See Additional Precautionary Statements Inside**

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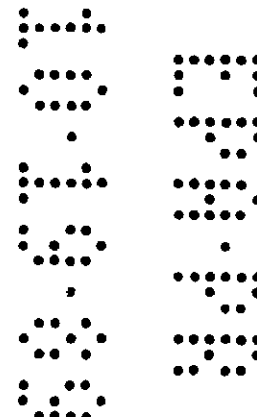
**EPA Reg. No. 51036-89**

**EPA Est. No. 51036-GA-1**

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

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

Not Reviewed. Registrant claims to be in accordance with  
EPA's Pesticide Product Guidance for Phase 2  
Registration (Page 2-12), Active to Inert Change in Status.



**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. Wear protective clothing, glasses (goggles), and rubber gloves. Wash thoroughly after handling and before eating or smoking. Wash contaminated clothing before reuse.

**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.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to wildlife and aquatic invertebrates. Do not apply directly to water or wetlands. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning equipment or disposal of wastes.

This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your Agricultural Extension Service.

**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.

**RE-ENTRY**

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas for 24 hours unless appropriate protective clothing is worn.

**REQUIRED CLOTHING AND EQUIPMENT FOR APPLICATION**

All applicators, flaggers and all personnel involved with the mixing, loading, and transferring operations must wear the

protective clothing and equipment enumerated below. Pilots are exempt from this requirement. The protective clothing and equipment to be worn is as follows:

- a. Impermeable gloves (for example, rubber or plastic-covered reinforced gloves).
- b. Boots or boot covers.
- c. Long-sleeved shirt and long pants.
- d. Wide-brimmed hat.
- e. Respirators must be worn by flaggers and mixer/loaders.

Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information. **WARNING!** Area treated with Ethion on (date of application). Do not enter without appropriate protective clothing for 24 hours. See Statement of Practical Treatment and Precautionary Statements for actions to be taken in case of accidental exposure.

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#### 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.

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### 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 - Use 0.5 to 0.75 pt. per 100 gals. water combined with 0.5 to 0.7% summer oil (Florida and Texas area) or 0.5 to 0.75 pt. per 100 gals. water combined with 1 to 2 gals. summer oil (West Coast). 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 2000 gals. spray per acre. 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.

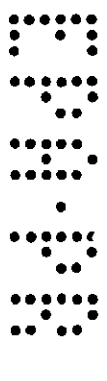
**MELONS (0):** Melon, Leafminer, Serpentine Leafminer, Twospotted Spider Mite - 1 pt. per acre. Melon Leafhopper - 1.5 to 2 pts. per acre. Petrobia Mite (California only), Cucumber Beetle - 1 to 2 pts. in a minimum of 10 gals. water per acre.

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

