



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

APR 12 1993

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Mr. Morris Gaskins  
Manager of Registrations  
Micro Flo Company  
P.O. Box 5948  
Lakeland, FL 33807

Dear Mr. Gaskins:

Subject: Ethion 4E  
EPA Registration No. 51036-89  
Labeling Submitted November 23, 1992

The amendment referred to above, submitted in connection with registration under FIFRA, is acceptable, provided that you:

Submit one copy of your final printed labeling incorporating the following correction before you release the product for shipment.

The directions for use on citrus must specify a minimum amount of diluent to be applied per acre. According to our files, 50 gallons per acre is the minimum amount of diluent currently registered for the use of ethion on citrus. To support the use of a more concentrated spray application, appropriate residue data must be provided or referenced for our evaluation. In addition, you must comply with 40 CFR 152 Subpart E entitled "Procedures to Ensure Protection of Data Submitter's Rights".

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of this condition.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Robert A. Forrest  
Product Manager (14)  
Insecticide-Rodenticide Branch  
Registration Division (H7504C)



Recycled/Recyclable  
Printed on paper that contains  
at least 75% recycled fiber

This draft to convert citrus rates from per 100 gallon dilute to a per acre rate.

MICRO FLO

ETHION 4EC

Miticide-Insecticide For Agricultural or Commercial Use Only

ACTIVE INGREDIENT:

Ethion (0,0,0'-0'-tetraethyl S.S'-methylene bisphosphorothioate ..... 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

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

STATEMENT OF PRACTICAL TREATMENT

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.

See Additional Precautionary Statements Elsewhere on label

EPA Reg. No. 51036-89

EPA Est. No. 51036-GA-1

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

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

APR 12 1993

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

51036-89

BEST AVAILABLE COPY

**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 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.

**RE-ENTRY**

Grapes ..... 14 days  
All other crops (including citrus).....2 days (48 hours)

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. Because certain states may require more restrictive reentry 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. Inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure. An example of such information is given under written warnings. 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 4EC on (insert date). Do not enter without appropriate protective clothing for: Grapes - 14 days; all other crops (including citrus) - 2 days (48 hours). In case of accidental exposure to pesticide spray or dust, wash the skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse. If in eyes, flush with plenty of water. If inhaled, go to an area where the pesticide has not been applied. Get medical attention if needed. Do not enter or allow entry into treated areas until (sprays have dried/dusts have settled/vapors have dispersed as applicable) to perform hand labor tasks. A person may enter the area to perform hand labor tasks only if the person is wearing the personal protective clothing listed on the label. After (sprays have dried/dusts have settled/vapors dispersed, as applicable) do not enter or allow entry into the treated area until the reentry interval has expired, unless the person entering the treated area is wearing the personal protective equipment listed on the label for early reentry.

**WORKER PROTECTION STATEMENTS**

Do not rub eyes or mouth with hands. If you feel sick in any way STOP work and get help right away. See Practical Treatment Section on this label.

Do not apply this product in a way that will contact unprotected workers, either directly or through drift. Only protected handlers may be in the area during application.

**USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT DURING MIXING/LOADING, APPLICATION, REPAIR AND CLEANING OF MIXING, LOADING, AND APPLICATION EQUIPMENT, DISPOSAL OF THE PESTICIDE, AND EARLY REENTRY INTO TREATED AREAS:**

Protective suit of one or two pieces covering all parts of the body except head, hands, and feet; chemical resistant gloves; chemical resistant shoes (or chemical resistant shoe covers or chemical resistant boots); and a NIOSH or MSA approved respirator. In addition, mixer/loaders must wear a chemical resistant apron and face shield or goggles.

During equipment repair and cleaning, the respirator need not be worn. During early reentry after sprays have dried or dusts have settled and vapors have dispersed, the respirator need not be worn.

IF MIXING/LOADING IS PERFORMED USING A CLOSED SYSTEM, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: long-sleeved shirt and long-legged pants; shoes and socks. Chemical resistant gloves must be available in the cab or cockpit and must be worn when exiting. This clothing is inadequate protection during equipment repair or cleaning, reentry, or pesticide disposal work.

IMPORTANT! If pesticide comes in contact with skin, immediately wash off with soap and water. Always wash hands, face, and arms with soap and water before smoking, eating, drinking, or when using toilet.

AFTER WORK: Wash gloves with soap and water before removing them. Take off all work clothes and shoes. After removing clothing, shower using soap and water, then put on clean clothes. Do not reuse contaminated clothing. Personal clothing worn during work must be laundered separately from household items. Store protective clothing separate from personal clothing. Clean or launder protective clothing after each use. Respirators must be cleaned and filters replaced according to instructions included with the respirator. Protective clothing and equipment that becomes heavily contaminated or drenched must be destroyed according to state and local regulations.

HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.

DURING AERIAL APPLICATION, HUMAN FLAGGERS MUST BE IN A TOTALLY ENCLOSED VEHICLE.

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:

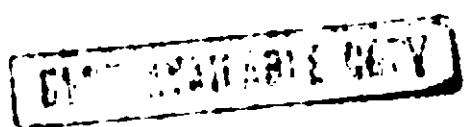
Black Cherry Aphid, San Jose Scale - 0.5 to .75 pt. plus 2 gals. dormant oil per 100 gals. water. Apply during dormant or delayed dormant period. ("Superior" type oil of 60 to 70 second viscosity preferred for delayed dormant use).

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,



7 04 8

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 sufficient water 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.

**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 11 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.

**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.

**BEST AVAILABLE COPY**