

2-17-54

Vol 3 Page 157

JAN 24 1991

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FMC Corporation  
Agricultural Chemical Group  
2000 Market Street  
Philadelphia, PA 19103

Gentlemen.

Subject Ethion 4 Miscible Insecticide-Miticide  
EPA Reg. No. 279-1254  
Labeling Submitted January 21, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the revised labeling:
  - a. In accordance with the Ethion Registration Standard, the reentry interval for grapes, nectarines and peaches is 14 days. Your labeling bearing these crops must be revised accordingly.
  - b. Since you have chosen to remove the "petroleum distillate" declaration from the list of active ingredients in your label ingredient statement, the label must include a statement such as the following, in close proximity to the ingredient statement.

"Contains petroleum distillate"

As stated in the January 11, 1991 letter to FMC from the Special Review and Reregistration Division (SRRD), the 48 hour reentry interval for citrus is being accepted on an interim basis, pending SRRD's evaluation of the exposure data.

2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely,

*Mautz*

Marilyn A. Mautz  
Acting Product Manager (16)  
Insecticide-Rodenticide Branch  
Registration Division (H7504C)

279-1254

100.0%

Code 1321

Net Contents

ETHION 4 MISCIBLE

Insecticide-Miticide

For Agricultural or Commercial Use Only

EPA Reg. No. 279-1254

EPA Est. 279-

Active Ingredients:	By Wt.
Ethion (0,0,0',0'-Tetraethyl S,S'-methylene bisphosphorodithioate.....	46.5%
Inert Ingredients:.....	53.5%
	<u>100.0%</u>

ACCEPTED  
 WITH COMMENTS  
 BY EPA LABORATORY

JAN 24 1991

279-1254

Contains 4 pounds of the organophosphate Ethion per gallon.

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

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

STATEMENT OF PRACTICAL TREATMENT

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. Do not induce vomiting or give anything by mouth to an unconscious person.

If on skin: Wash with plenty of soap and water. Get medical attention.

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.

Antidote

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. Pralidoxine (2-PAM) is also antidotal and should be administered in conjunction with

4,  
Atropine. Never give morphine.

For Emergency Assistance Call 800-331-3148

See Side Panel For Additional Precautionary Information.

#### PRECAUTIONARY STATEMENTS

##### Hazards to Humans (and Domestic Animals)

###### Warning

May be 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. Wear protective clothing and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

###### 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.

This product is toxic to bees and should not be applied when bees are actively visiting the area.

Do not allow this material to drift onto neighboring crops or noncrop areas or use in a manner or at a time other than in accordance with label directions because animal, plant or crop injury, illegal residues or other undesirable results may occur.

###### Physical/Chemical Hazards

Do not use or store near heat or open flame.

#### 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 through any type of irrigation system.

Do not enter treated areas for 48 hours unless appropriate protective clothing is worn.

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 of 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 longlegged 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.

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 4 Miscible on (insert date). Do not

enter without appropriate protective clothing for 48 hours (insert State Department of Agriculture's reentry interval, if more restrictive).

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 other tasks only if the person is wearing the personal protective clothing listed on the label.

After (sprays have dried/dusts have settled/vapors have 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.

#### **STORAGE AND 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. Call FMC collect: (800) 331-3148.

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

7/1

by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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 Miscible used. 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 gal. of water to cover 200 sq. ft. of lawn or use 3 fluid ozs. per 6 gals. 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 or 70 second viscosity preferred for delayed dormant use.)

**Grapefruit (0), Lemons (21), Limes (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. Mites, Scales, and Citrus Whitefly - Use 0.75 pt. per 100 gals. water combined with 0.5 to 0.7% summer oil (Florida and Texas areas) 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 egg. 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 use oil on Navel Oranges.

**Grapes (California Only)(30):** To control Grape Leafhopper Two-spotted Spider Mite, Willamette Mite - Use 1.5-2.5 pints per acre. Do not apply more than twice during fruiting period.

**Home Grounds (For Use By Trained Pest Control Operators) For Outside use only:** Clover (Brown Almond) Mite infesting houses - 1 pt. per 2500 square feet area. Mix well with sufficient water to cover 2500 sq. ft. Spray areas of mite infestation from the bottom of first floor windows down to the ground and 15 to 20 ft. away from building. Keep children and animals off treated areas until spray has completely dried.

**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 (Greerhouse) 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 (Out of Doors):** 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, Sn Jose Scale - 0.75 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 70 second viscosity preferred for delayed dormant use).

**Summer Squash (3):** Serpentine Leafminer, Twospotted Mite - 1 pt. per acre.

**Turf: (Commercial Use) - Chinch Bugs, Sod Webworm -** Use 0.33 to 0.5 pt. per 1000 sq. ft. of turf applied in 20 gals. of water or 1.67 to 2.5 pts. in 100 gals. of water to treat 5000 sq. ft. To treat one acre, use 1.75 to 2.5 gals. applied in 800 gals. 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.

**Dealers Should Sell in Original Packages Only.**

**Terms of Sale or Use:** On purchase of this product buyer and user agree to the following conditions:

**Warranty:** FMC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume all risk



1/7  
of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

**Directions and Recommendations:** Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and are assumed by the buyer at his own risk.

**Use of Product:** FMC's recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

**Damages:** Buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.