

279-1254

12/10/2001

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**RESTRICTED USE PESTICIDE**

This product is a Restricted Use Pesticide due to worker and ecological risk.  
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 Applicators certification.

ACCEPTED

DEC 10 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 279-1254



# Ethion

## 4 Miscible Insecticide-Miticide

For Agricultural or Commercial Use Only

EPA Reg. No. 279-1254

EPA Est. 279-FL-1

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

Contains Petroleum Distillates  
Contains 4 pounds of the organophosphate 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 the label, find someone to explain it to you in detail.)



FMC Corporation  
Agricultural Products Group  
Philadelphia PA 19103

Ethion\_sec3\_11-15-2001

### FIRST AID

**If swallowed:** Call a physician or Poison Control Center. Do not induce vomiting unless advised to do so by medical personnel. Do not induce vomiting or give anything by mouth to an unconscious person.

**If on skin:** 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 an organophosphate and 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 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.

#### Personal Protective Equipment:

Some materials that are chemical-resistant to this product are: Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton. If you want more options, follow the instructions for category E on an EPA chemical-resistance category selection chart.

#### Mixers, loaders, applicators and other handlers supporting airblast applications must wear:

- Long-sleeved shirt & long pants
- Shoes plus socks
- Chemical-resistant gloves and chemical-resistant apron for mixers and loaders and persons exposed to concentrate.

See Engineering Controls for additional requirements.

#### Mixers, loaders, and applicators supporting high-pressure hand-gun applications from truck- or trailer-mounted tanks must wear:

- Coveralls over long-sleeved shirt & long pants
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves
- Chemical-resistant apron for mixers and loaders and persons exposed to concentrate
- A NIOSH-approved dust/mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any R, P, or HE filter.
- Chemical-resistant headgear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

### Engineering Controls

Mixers and loaders must:

-- use a closed mixing/loading system with a dry disconnect system designed by the manufacturer to enclose the liquid pesticide to prevent it from contacting handlers or other people AND the system must be functioning properly and must be used and maintained in accordance with the manufacturer's written operating instructions.

Mixers and loaders must also:

- wear the personal protective equipment required for mixers/loaders in the PPE section of this labeling,
- wear protective eyewear if the system operates under pressure, and
- have immediately available for use in case of an accident:
  - a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or
  - a NIOSH -approved respirator with any R, P or HE filter, and
  - coveralls and chemical-resistant footwear.

Applicators using airblast equipment must use an enclosed cab, defined as a cab with a nonporous barrier that totally surrounds the occupants and prevents contact with pesticides outside of the cab. The enclosed cab must meet the requirements in the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(5)] for inhalation protection providing at least as much respiratory protection as the type of dust/mist filtering respirator specified in the PPE section of this labeling.

Alternatively, applicators using airblast equipment may use an enclosed cab that meets the definition in the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, applicators using this type of cab must wear the type of dust/mist filtering respirator specified in the PPE section of this labeling.

All such applicators, regardless of which type of enclosed cab they are using, must also:

- wear the personal protective equipment required in the PPE section of this labeling for applicators using airblast equipment,
- be provided and must have immediately available for use in an emergency when they must exit the cab in the treated area: coveralls, chemical-resistant gloves, chemical-resistant footwear, chemical-resistant headgear, if overhead exposure, and a respirator of the type specified in the PPE section of this labeling,
- take off any PPE that was worn in the treated area before reentering the cab, and
- store all such PPE in a chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

**User Safety Recommendations**

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should 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 chemical is toxic to wildlife. Spray last three rows windward of surface water, using nozzles on grove side only, with spray directed away from surface water. Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove when spraying the outside row. Shut off nozzles when turning at ends of rows and passing gaps in rows. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

### 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.

The sale and distribution of this product by the registrants is prohibited after December 31, 2003. The sale and distribution of this product by anyone other than the registrants is prohibited after October 1, 2004. The use of this product is prohibited after December 31, 2004.

### General Application Restrictions

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.

Do not allow spray to drift from the application site and contact people, structures people occupy at any time, non-target property on which those structures are located, animals, non-target crops, parks and recreation areas, aquatic and wetland areas, forests, pastures, and rangelands.

For airblast applications, apply only when wind speed is 10 mph or less at the application site, as measured by an anemometer outside of the orchard on the upwind side.

The applicator must use all other measures necessary to control drift in addition to the drift control measures listed above.

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 (PPE), and restricted-entry interval. 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 five days. Exception: In addition to early-entry exceptions allowed by the WPS, you may enter and or allow workers/handlers to enter treated areas to perform irrigation and/or scouting tasks 3 days after application, as long as at least long pants, long-sleeved shirt, shoes, and socks are worn. Notify workers of the exception (including when entry is permitted for each of the tasks named in the exception) by warning them orally OR by posting warning signs at the entrances to treated areas.

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:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves made of waterproof material
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposures.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

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

Returnable/Refillable Sealed Containers: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

Do not use in undiluted form.

Do not use if material does not emulsify.

### Application Instructions

This product may only be applied to citrus.

This product may only be applied to citrus via airblast sprayer or, for spot treatment of snow scale on citrus, via high-pressure hand-gun attached to a truck- or trailer-mounted tank. All other application methods are prohibited.

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

**For use in Florida and Texas only. Grapefruit (0), Lemons (15), Limes (15), Oranges (0), Tangelos (15), Tangerines (15):** To control Citrus Red Mite, Citrus Rust Mite, Sixspotted Mite, Texas Citrus Mite, Snow Scale, Citrus Whitefly, Citrus Blackfly—Use 5 pints of Ethion 4 Miscible (2.5 pounds active ingredient) per acre. 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, Citrus Blackfly—Use 5 pints of Ethion 4 Miscible (2.5 pounds active ingredient) per acre plus 0.5% to 0.7% summer oil. Where Snow Scale is a problem, spray trunk, limbs and twigs thoroughly. Apply in sufficient water for good coverage but not less than 250 gallons of water per acre by ground equipment. Do not apply aerially. Do not make more than two applications per crop per year. Applications should not be made less than 90 days apart. Do not use Ethion 4 Miscible plus oil on Navel oranges. Refer to oil label for use directions and precautions.

The maximum use rate for citrus via airblast is 2.5 lbs. ai/A per application. The maximum number of applications for citrus via airblast is two per year.

Applicators of spot treatments for snow scale must use no more than 2.5 lbs ai/day, diluting to 250 gallons for a final concentration of 0.01 lb ai/gal. Applications for snow scale must not exceed more than 250 gal of material diluted in this way each day. The application rate is 3-5 gallons per tree to the trunk and limbs on trees where snow scale is present.

### 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 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.

—FMC Trademark