

PM 03 279-2149 11/21/97 Page 177

Ms. Nancy Hilton  
FMC Corporation  
Agricultural Products Group  
1735 Market Street  
Philadelphia, PA 19103

NOV 21 1997

Dear Ms. Hilton:

Subject: Amendment- Delete: Broccoli, Celery, Lettuce, Potatoes  
Methyl Parathion 2 Thiodan 3 EC  
EPA Registration Number 279-2149  
Your submission dated August 16, 1994 and  
Federal Register Notice dated February 13, 1997

The amendment referred to above, submitted in connection with a registration under FIFRA section 3(c)(7)(a), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a) In the Ingredients Statement, in the footnote \*\*\*, change "Solvents" to "Solvent".
  - b) In the Personal Protective Equipment (PPE) section, if the solvent in this formulation is over 40% the correct chemical resistance category would be category G rather than category F. In the PPE listing, for consistency with the rest of the entries, capitalize the "C" of "chemical-resistant apron" and the "R" of "respirator". Delete "For exposure in enclosed areas:" before "A respirator..." [which should appear as "and a Respirator..."]. Delete "; For exposures outdoors: Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)".

- 2 7 7
- c) Add the heading **Engineering Control Statement** over the paragraph beginning "When handlers use closed systems...".
  - d) Revise the first paragraph of the **Environmental Hazards** to read as follows [retain the second paragraph as it currently appears]:

This product is highly toxic to aquatic invertebrates, fish, birds, and other wildlife. Birds in treated areas may be killed. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Due to the risk of runoff and drift, do not apply within a distance of 300 feet of lakes, ponds, streams, and estuaries. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This product must not be used in areas where impact on threatened endangered species is likely. Contact your State Fish and Game Agency before applying this product. Apply this product only as specified on this label.

- e) According to the information you FAXed to the Agency regarding your current California registrations, this product is not registered for use in California. Delete "SEE SUPPLEMENTAL LABEL FOR DIRECTIONS FOR USE IN CALIFORNIA." from under the heading **GENERAL INSTRUCTIONS**. You may elect instead to add in that location "This product is not registered for use in California."
- f) Replace the paragraph beginning "Apply when insects..." with the following:

Apply the listed amount per acre when insects first appear or feeding is noticed and repeat as required, unless otherwise noted, to maintain control. Unless otherwise noted, use in sufficient water for thorough coverage of listed crops. Coverage of upper and lower leaf surfaces is essential for good control. For ground application, apply recommended amount of pesticide in a minimum of 10 gallons of water per acre. When applying this product by aircraft, mix the recommended amount with sufficient water to provide a minimum of 1 gallon of finished spray per acre. Observe use limitations. If insect control is required beyond the following use patterns, supplement the control program with other suitable pesticides.

Do not plant root crops other than carrots, potatoes, sweet

potatoes, and sugar beets as follow-up crops. Observe interval between last application and harvest indicated by number in ( ) following the crop name.

- g) For the crop Beans, this Thiodan/Parathion combination product shows a PHI of 21 days, while your other Thiodan/Parathion combination product (Methyl Parathion 1.0 Thiodan 2.0 C.O. EC, EPA Reg. No. 279-2609) shows a PHI of 15 days for this same crop. What is the reason for this discrepancy?
- h) Also for the crop Beans, add "ALL USES:" before "Do not exceed..", which should be revised to read "Do not make more than 3 applications per year. Do not exceed a maximum of 4 quarts per acre per year."
- i) For the crops Brussels-Sprouts, Cabbage, and Cauliflower, add "ALL USES:" before "Do not exceed..", which should be revised to read "Do not make more than 2 applications per year. Do not exceed a maximum of 2 quarts per acre per year."
- j) For the crop Carrots, add "ALL USES:" before "Do not exceed..", which should be revised to read "Do not make more than one application per year. Do not exceed a maximum of 1 1/3 quarts per acre per year. Do not use tops for food or feed."
- k) For the crop Cotton, add "ALL USES:" before "Do not exceed..", which should be revised to read "Do not make more than 2 applications per year. Do not exceed a maximum of 4 quarts per acre per year. Do not graze dairy or meat animals in treated fields. Do not apply after bolls open."
- l) For the crop Spinach, add "ALL USES:" before "Do not exceed..", which should be revised to read "Do not make more than one application per year. Do not exceed a maximum of 1 quart per acre per year."
- m) You may choose to reformat the directions for use on this label to match the easier to read block format found on most of your other current Thiodan labels. If you elect this uniformity within this product line, then for each crop be sure to add "Make applications [or application, if only one is permitted] when insects appear or feeding is noticed." to the Method of Application column.
3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

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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.

Sincerely,

George T. LaRocca  
Product Manager 13  
Insecticide/Rodenticide Branch  
Registration Division (7505C)

Code 31297

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### RESTRICTED USE PESTICIDE

Due to very high acute toxicity to Humans and Birds  
For retail sale to and use only by certified applicator or persons under their direct supervision and only for those uses covered by the certified applicator's certification. Direct supervision for this product is defined as the certified applicator being physically present during application, mixing, loading, repair and cleaning of application equipment. Commercial certified applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.

Net Contents



ACCEPTED  
with COMMENTS  
in EPA Letter Dated

NOV 21 1997

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
279-2149

# EC Insecticide

STOP! READ THE LABEL



**CAN KILL YOU**

**KEEP OUT OF REACH OF CHILDREN  
DANGER—POISON  
PELIGRO**

EPA Reg. No. 279-2149

EPA Est. 279-

**Active Ingredients:**

* 0,0—dimethyl 0-4-nitrophenyl phosphorothioate.....	19.4%
Related Compounds.....	1.0%
** Endosulfan .....	31.0%
Inert Ingredients:*** .....	48.6%
	100.0%

\* Methyl Parathion

\*\* Hexachlorohexahydromethano-2,4,3-benzodioxathiepin 3-oxide

\*\*\* Contains xylene range aromatic solvents

Contains 2 pounds methyl parathion and 3 pounds endosulfan per gallon.

See Other Panels for Additional Precautionary Information.

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.)



**DANGER—POISON—PRECAUTIONS**

**POISONOUS IF SWALLOWED**

This product can kill you if swallowed even in small amounts: spray mist or dust may be fatal if swallowed.



**POISONOUS BY SKIN CONTACT**

Poisonous if touched by hands or spilled or splashed on skin, in eyes or on clothing (liquid goes through clothes.)



**POISONOUS IF BREATHED**

Breathing vapors, spray mist or dust may be fatal.



FMC Corporation  
Agricultural Chemical Group  
Philadelphia PA 19103

## STATEMENT OF PRACTICAL TREATMENT

Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to a mixture of methyl parathion (an organophosphate), endosulfan (an organochlorine) and xylene range aromatic solvents and describe his condition.

If breathing has stopped, start artificial respiration immediately and maintain until doctor sees victim.

If swallowed: Call a physician or Poison Control Center immediately. Consideration should be given to reducing ingestion exposure by gastric lavage with an endotracheal tube in place. Vomiting should be induced under medical supervision. Drink 1 or 2 glasses of water and induce vomiting by giving one ounce of syrup of ipecac or by touching the back of the throat with a finger. Do not induce vomiting or give anything by mouth to a person who is unconscious or convulsing. Do not give animal or vegetable fats, as they enhance absorption of endosulfan.

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. See doctor immediately.

### NOTE TO PHYSICIAN

The symptoms from absorption of this product are likely to be the result of methyl parathion and endosulfan, treatment should be directed towards the relief of cholinesterase inhibition and the control of convulsions.

Antidote—administer atropine sulfate in large doses, TWO to FOUR mg. intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2-PAM chloride is also antidotal and may be administered in conjunction with atropine. This product contains light aromatic hydrocarbons that can produce a severe pneumonitis or pulmonary edema if aspirated. Consideration should be given to gastric lavage with an endotracheal tube in place. MORPHINE, RESERPINE, PHENOTHIAZINES AND THEOPHYLLINE ARE PROBABLY CONTRAINDICATED. Epinephrine is contraindicated due to cardiac muscle stimulation. Parathion is a strong cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and fatal relapses have been reported after initial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS. Endosulfan is a central nervous system stimulant. There is no specific antidote. Central nervous system stimulation can be controlled with diazepam (i.v.), barbituric acid derivatives such as phenobarbital may be used additionally.

### FOR EMERGENCY ASSISTANCE CALL

800-331-3148

### Precautionary Statements

Hazards to Humans and Domestic Animals

### POISON SIGNS (Symptoms)

METHYL PARATHION is a very dangerous poison. It rapidly enters the body on contact with all skin surfaces and eyes. Exposed persons must give prompt medical treatment or they may die.

Some of the signs and symptoms of poisoning are: Headache, nausea, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, labored breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms and coma.

### WORK SAFETY RULES

The National Pesticide Telecommunication Network is available for recommendations regarding poisoning management, emergency treatment, and other information regarding the toxicity of methyl parathion. The toll free number for the National Pesticide Telecommunication Network is 1-800-858-7378.

If handled indoors provide mechanical exhaust ventilation. If you feel sick in any way STOP work and get help right away. See First Aid (Practical Treatment) section.

DURING AERIAL APPLICATION, HUMAN FLAGGERS ARE PROHIBITED.

### 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: Coveralls over long-sleeved shirt and long pants; Chemical-resistant gloves; such as Barrier Laminate or Butyl Rubber, or Nitrile Rubber or Viton; Chemical-resistant footwear plus socks; Protective eyewear; Chemical-resistant headgear for overhead exposure; chemical-resistant apron when cleaning equipment, mixing or loading; For exposure in enclosed areas: 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 exposures outdoors: 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/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft 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 Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to aquatic invertebrates and wildlife. Birds in treated areas may be killed. Do not apply directly to water or wetlands (swamps, marshes, bogs, and potholes). Runoff and drift from target areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product 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.

## 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 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.

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

### 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), notification to workers, 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 48 hours.

Each 48-hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches a year.

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 long-sleeved shirt and long pants; Chemical-resistant gloves; such as Barrier Laminate or Butyl Rubber, or Nitrile Rubber or Viton; Chemical-resistant footwear plus socks; Protective eyewear; Chemical-resistant headgear for overhead exposure

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

Beans, succulent and dry (except Lima Beans) (21): Bean Leaf Skeletonizer, Black Bean Aphid, Cucumber Beetles, Green Stink Bug and Mexican Bean Beetle—Use 3/4 to 1 1/2 quarts per acre. Aphids, Armyworms, Flea Beetles and Leafhoppers—Use 1 1/2 quarts per acre. Do not exceed 3 applications per year. Do not feed treated threshings to livestock or allow livestock to graze in treated fields. Do not use on Lima Beans that are to be removed from the field for processing. Do not apply if the crop or weeds in the treatment area are in bloom.

Brussels Sprouts (14), Cabbage (10), Cauliflower (14): Aphids, Armyworm, Cabbage Looper, Cross-Striped Cabbageworm, Diamondback Moth Larvae, Flea Beetles, Harlequin Bug, Imported Cabbageworm, Leafhoppers, Stink Bugs—Use 1 quart per acre. Do not exceed 2 applications per acre per year.

Carrots (15): Green Peach Aphid, Armyworm, Flea Beetle, Leafhoppers—Use 1 1/2 quarts per acre. Do not exceed 2 applications per season. Do not use treated tops for food or feed.

Cotton: Aphids, Armyworms, Boll Weevil, Bollworm, Cabbage Looper, Cotton Leafworm, Cotton Leafperforator, Fleahoppers, Lygus Bugs, Stink Bugs, and Thrips—Use 2 quarts per acre. Do not exceed 2 applications per year or a maximum of 4 quarts per acre per year. Do not apply after bolls open.

Spinach (21): Armyworms, Crown Mite, Flea Beetles, Green Peach Aphid, Leafhoppers—Use 1 quart per acre. Do not exceed one application per season.

### STORAGE AND DISPOSAL

#### Pesticide Storage

Do not store below 20°F, (-7°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. 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 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.

### 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.

Thiodan is a registered trademark of Hoechst AG.

—FMC Trademark

(31297-7/12/89-A)

### GENERAL INSTRUCTIONS

SEE SUPPLEMENTAL LABEL FOR DIRECTIONS FOR USE IN CALIFORNIA.

Not For Use Or Storage In Or Around The Home.

Do not use in undiluted form.

Apply when insects first appear and repeat as necessary. Apply the recommended rates in sufficient water for thorough coverage. (By ground, apply a minimum of 10 gallons; by air, apply a minimum of 1 gallon of finished spray per acre). Observe days interval between last application and harvest indicated by number in parenthesis ( ) following the crop.

FMC