



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
279-3222

Date of Issuance:  
SEP 27 1999

Term of Issuance: Conditional

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Name of Pesticide Product:  
Methyl Parathion 2 Thiodan  
3 EC

Name and Address of Registrant (include ZIP Code):

FMC Corporation  
Agricultural Products  
1735 Market St.  
Philadelphia, PA 19103

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following label changes before you release the product for shipment:
  - a. Add the phrase "EPA Registration Number 279-3222".
  - b. Provide page number to each page of the label.

(continued on page 2)

Signature of Approving Official:

Rita Kumar

Date:

SEP 27 1999

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Notice of Registration; EPA Registration Number 279-3222.

3. As requested in your letter dated September 8, 1999, the conditions of paragraph 8 of the August 1999 Memorandum of Agreement Between the Environmental Protection Agency and Signatory Registrants Regarding the Registration of Pesticide Products Containing Methyl Parathion (MOA) are accepted by the Agency as conditions of the subject registration.

Failure to comply with any of the conditions of registration set forth in Paragraph 8 of the MOA shall be grounds for cancellation of the affected registration(s) under FIFRA section 6(e).

4. Submit an updated Confidential Statement of Formula (CSF) indicating the EPA Registration Number of the source product for methyl parathion.

5. Submit five copies of the revised final printed labeling before you release this product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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,

*Rita Kumar*

Rita Kumar  
Senior Regulatory Specialist  
Insecticide Rodenticide Branch  
Registration Division (7505C)

Enclosure

Code 31297

### 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  
with COMMENTS  
In EPA Letter Dated:

SEP 27 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 279-3222

STOP! READ THE LABEL 279-3222



# EC Insecticide

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 solvent

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



**CAN KILL YOU**

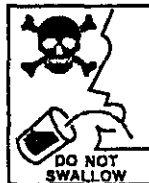
KEEP OUT OF REACH OF CHILDREN  
**DANGER—POISON**  
**PELIGRO**

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.)

#### Precautionary Statements Hazards to Humans and Domestic Animals

#### DANGER—POISON—PRECAUTIONS



#### POISONOUS IF SWALLOWED

Fatal 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.) Fatal if absorbed through skin. Do not get on skin, in eyes, or on clothing.



#### POISONOUS IF BREATHED

Fatal if inhaled. Breathing vapors, spray mist or dust may be fatal. Do not breathe vapors or spray mist.

#### 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 receive 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 neck, muscle spasms and coma.



FMC Corporation  
Agricultural Products Group  
Philadelphia PA 19103

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## 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; and 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 TC-14G).

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.

### Engineering Control Statement

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.

## 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

## ENVIRONMENTAL HAZARDS

This pesticide 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.

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, pour, spill 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.

\* SEE ATTACHMENT -  
INSERT "A" HERE

\* SEE ATTACHMENT -  
INSERT "S" HERE

### 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.

\*SEE ATTACHMENT- INSERT "C" HERE

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.

### STORAGE AND DISPOSAL

#### Pesticide Storage

Do not store in or around the home.

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.

#### Returnable/Refillable Sealed Container

Do not break seals or add any material to the container. Do not rinse container or empty any residue from container. This container must be returned intact after use to the point of purchase.

### GENERAL INSTRUCTIONS

Not for use or storage in or around the home.

Do not use in undiluted form.

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.

Beans, *Dry* (except Lima Beans) (21)

Insects Controlled	Rate of Application	Method of Application
Black Bean Aphid Bean Leaf Skeletonizer Cucumber Beetles Green Stink Bug Mexican Bean Beetle	2/3 to 1 1/2 quarts per acre	Make applications when insects appear or feeding is noticed.
Aphids Armyworms Flea Beetles Leafhoppers	1 1/2 quarts per acre	

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.  
Do not make more than 3 applications per year.  
Do not exceed a maximum of 4 quarts per acre per year.

Cabbage (10)

Insects Controlled	Rate of Application	Method of Application
Aphids Cabbage Looper Cross-striped Cabbage-worm Diamondback Moth larvae Flea Beetles Harlequin Bug Imported Cabbageworm Leafhoppers Stink Bugs Armyworm	1 quart per acre	Make applications when insects appear or feeding is noticed.

Do not make more than 2 applications per year.  
Do not exceed a maximum 2 quarts per acre per year.

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Cotton

Insects Controlled	Rate of Application	Method of Application
Aphids Armyworms Boll Weevil Bollworm Cabbage Looper Cotton Leafperforator Cotton Leafworm Fleahoppers Lygus Bugs Stink Bugs Thrips	2 quarts per acre	Make applications when insects appear or feeding is noticed. For control of aphids, thorough coverage is important.
<p>Do not apply after bolls open.            Do not graze dairy or meat animals in treated fields.            Do not make more than two applications per year.            Do not exceed a maximum of 4 quarts per acre per year.</p>		

**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 AgrEvo.

**FMC** —FMC Trademark

(31297-xx/xx/xx-A)

# ATTACHMENT

(A) "This product may not be formulated or used under a State Special Local Need Registration for any uses not specified on this labeling."

(B) prominently displayed bold print: "**Application by Backpack Sprayer or other Hand-held Sprayer is Prohibited.**"

(C) in the Agricultural Use Requirements box:

(1) "Do not enter or allow worker reentry into treated area during the restricted-entry intervals of 5 days in areas where average annual rainfall is less than 25 inches a year and 4 days in areas where average annual rainfall is equal to or greater than 25 inches a year."

(2) "Certified crop advisors or persons entering under their direct supervision under certain circumstances may be exempt from the early reentry requirement pursuant to 40 C.F.R. Part 170."