

**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.

# Methyl Parathion 2 Thiodan 3 EC Insecticide

EPA Reg. No. 279-2149

EPA Est., 279-

**Active Ingredients:**

Methyl Parathion .....	19.4%
Related Compounds .....	1.0%
**Endosulfan .....	31.0%

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→ Inert Ingredients: .....	48.6%
	100.0%

\*O,O—dimethyl O-4-nitrophenyl phosphorothioate  
 \*\*Hexachlorohexahydromethano-2,4,3-benzodioxathiepin oxide

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

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Contains Xylene Range Aromatic Solvents  
**STOP! READ THE LABEL**



**CAN KILL YOU**

**KEEP OUT OF REACH OF CHILDREN**

**DANGER—POISON  
PELIGRO**

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

**ACCEPTED**  
 JUL 12 1989

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



FMC Corporation  
 Agricultural Chemical Group  
 Philadelphia PA 19103



**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

USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT DURING MIXING/LOADING, APPLICATION, REPAIR, AND CLEANING OF APPLICATION EQUIPMENT. DISPOSAL OF PESTICIDE AND EARLY REENTRY INTO TREATED AREAS: protective suit of one or two pieces covering all parts of the body except the head, hands, and feet; chemical resistant gloves; chemical resistant shoes (or chemical resistant shoe coverings or chemical resistant boots); goggles or face shield; hood or wide brimmed hat; NIOSH approved respirator.

**POISONOUS TO FISH AND WILDLIFE**

**POISON SIGNS (Symptoms)**

METHYL PARATHION is a very dangerous poison. It rapidly enters the body on contact with all skin surfaces and eyes. Clothing wet with this material must be removed immediately. 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 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. Keep all unprotected persons, children, livestock, and pets away from treated area or where there is danger of drift. Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See First Aid (Practical Treatment) section.

**HANDLE THE CONCENTRATE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT:**

Wear a protective suit of one or two pieces " " covers all parts of the body except the head, hands, and feet. Wear chemical resistant gloves, chemical resistant apron, and chemical resistant shoes, shoe coverings, or boots. Wear goggles or a face shield. Wear a pesticide respirator approved by the National Institute for Occupational Safety and Health under the provisions of 30 CFR part 11.

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IF MIXING/LOADING IS PERFORMED USING A CLOSED SYSTEM, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: long-sleeve shirt; long-legged pants; chemical resistant gloves; chemical resistant apron; shoes and socks. Goggles or face shield must be worn when the system is under pressure. All other protective clothing and equipment required for use with open systems must be available nearby.

IF APPLICATION IS PERFORMED USING AN ENCLOSED CAB OR COCKPIT, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: long-sleeve shirt and long-legged pants; shoes and socks. Chemical resistant gloves must be available in the cab or cockpit and must be worn during entry to and exit from the application vehicle. All other protective clothing and equipment required for use during application must be available in the cab and must be worn when exiting the cab into treated area. When used for this purpose, contaminated clothing may not be brought back into the cab unless in an enclosure such as a plastic bag. REMEMBER—THIS CLOTHING IS INADEQUATE TO PROTECT YOU DURING REPAIR AND CLEANING OF APPLICATION EQUIPMENT AND EARLY REENTRY TO TREATED AREAS! REFER TO PROTECTIVE CLOTHING AND EQUIPMENT REQUIREMENTS ABOVE.

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

AFTER WORK: before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Wear only clean clothes when leaving job—do not wear contaminated clothing. Personal clothing worn during work must be stored and laundered separately from protective clothing and household articles. Store protective clothing separately from personal clothing. Clean or launder protective clothing after each use. Respirators must be cleaned and filters replaced according to instructions included with the respirators. Protective clothing and protective equipment heavily contaminated or drenched with methyl parathion must be destroyed according to state and local regulations. HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED. DURING AERIAL APPLICATION, HUMAN FLAGGERS ARE PROHIBITED.

**FIRST AID TREATMENT**

Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to methyl parathion and describe his condition.

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

If swallowed, 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. Get medical attention.

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. See doctor immediately.

**NOTE TO PHYSICIAN**

\*Since any symptoms from absorption of this combination product are likely to be those of methyl parathion intoxication, treatment should be directed towards the relief of cholinesterase inhibition.

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. DO NOT GIVE MORPHINE OR TRANQUILIZERS. 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.

**FOR EMERGENCY ASSISTANCE CALL  
716-735-3765**

**POST TREATED AREA**

Consult your State Agricultural Extension Service or Experiment Station regarding posting treated areas.

**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

Due to the risk of runoff and drift, do not apply within a distance of 300 feet of lakes, ponds, streams, and estuaries

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 OR 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 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.

Reentry into treated fields is prohibited for 48 hours after application, unless all protective clothing and equipment required for early reentry as described elsewhere on the label are worn.

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:

**DANGER**

Area treated with Methyl Parathion 2 Thiodan, on (insert date). Do not enter without appropriate protective clothing for 48 hours (insert State Department of Agriculture's re-entry 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.

**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 collect: (716) 735-3765.

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.

**ENDANGERED SPECIES RESTRICTIONS**

The following restrictions apply to use of this product after February 1, 1988.

Before using this pesticide on cotton in the counties listed below, you must obtain the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES for the county in which the product is to be used. The bulletin is available from your County Extension Agent, State Fish and Game Office, or your pesticide dealer. Use of this product in a manner inconsistent with the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES is a violation of Federal laws.

**Alabama**

Colbert, Greene, Jackson, Lamar, Lauderdale, Limestone, Madison, Marshall, Morgan, Pickens and Sumter

1988-2-26-5

- Graham, Maricopa, Mohave, Pima, Pinal and Santa Cruz
- Arkansas**  
Benton, Clay, Clark, Cross, Lawrence, Lee, Poinsette, Polk, Randolph, Sharp and St. Francis
- California**  
Butte, Colusa, Glenn, Imperial, Inyo, Kern, Los Angeles, Merced, Modoc, Orange, Riverside, Sacramento, San Bernardino, San Diego, Santa Barbara, Solano, Stanislaus, Sutter, Tehama, Ventura and Yolo
- Florida**  
Alachua, Baker, Bradford, Brevard, Broward, Charlotte, Citrus, Clay, Collier, Columbia, Dade, De Soto, Dixie, Duval, Flagler, Gadsden, Gilchrist, Glades, Hardee, Hendry, Hernando, Highlands, Hillsborough, Indian River, Jefferson, Lafayette, Lake, Lee, Leon, Levy, Madison, Manatee, Marion, Martin, Monroe, Nassau, Orange, Okeechobee, Osceola, Palm Beach, Pasco, Pinellas, Polk, Putnam, St. Johns, St. Lucie, Sarasota, Seminole, Sumter, Suwannee, Taylor, Union, Volusia and Wakulla
- Georgia**  
Brantley, Bryan, Bulloch, Burke, Camden, Candler, Charlton, Chatham, Effingham, Emanuel, Evans, Glascock, Glynn, Jefferson, Jenkins, Johnson, Liberty, Long, McIntosh, Pierce, Richmond, Screven, Ware, Washington and Wayne
- Kansas**  
Clark, Comanche, Meade and Stafford
- Kentucky**  
Ballard, Butler, Edmundson, Green, Hart, Jackson, Laurel, Livingston, Marshall, McCracken, McCreary, Pulaski, Rockcastle, Taylor, Warren and Wayne
- Mississippi**  
Claiborne, Copiah, Hinds, Itawamba, Lowndes, Monroe and Noxubee
- Missouri**  
Barry, Benton, Camden, Christian, Dallas, Greene, Hickory, Jasper, Lawrence, Miller, Newton, Osage, Polk, St. Clair, Stone and Webster
- Montana**  
Garfield, McCone, Sheridan and Valley
- Nebraska**  
Boyd, Brown, Buffalo, Butler, Cass, Cedar, Colfax, Dawson, Dodge, Douglas, Hall, Hamilton, Holt, Howard, Kearney, Keya Paha, Knox, Merrick, Nance, Phelps, Platte, Polk, Rock, Sarpy and Saunders
- Nevada**  
Clark
- New Mexico**  
Chaves, DeBaca and Eddy
- North Carolina**  
Edgecombe, Nash and Pitt
- North Dakota**  
Banson, Bottineau, Burke, Burleigh, Divide, Dunn, Eddy, Emmons, Foster, Kidder, Logan, McHenry, McIntosh, McKenzie, McLean, Mercer, Morton, Mountrail, Nelson, Oliver, Pierce, Ramsey, Ranville, Rolette, Sheridan, Sioux, Stutsman, Towner, Ward, Wells and Williams
- Ohio**  
Pickaway
- Oklahoma**  
Delaware, McCurtain and Pushmataha
- Oregon**  
Lake
- South Carolina**  
Aiken, Barnwell, Beaufort, Berkeley, Charleston, Colleton, Dorchester, Georgetown, Hampton, Horry, Jasper and Marion
- South Dakota**  
Clay, Haakon, Hughes, Potter, Stanley, Sully, Union, Walworth, Yankton and Ziebach
- Tennessee**  
Bedford, Blount, Claiborne, Decatur, Franklin, Hancock, Hardin, Hawkins, Hickman, Knox, Lawrence, Lincoln, Loudon, Marshall, Maury, Meigs, Monroe, Rhea, Roane, Scott, Sequatchie, Smith, Sullivan, Trousdale and Wayne
- Texas**  
Aransas, Austin, Bastrop, Burleson, Cameron, Colorado, Comal, Fort Bend, Goliad, Harris, Hays, Jeff Davis, Pecos, Reeves, Refugio and Victoria
- Utah**  
Utah and Washington
- Virginia**  
Lee, Russell, Scott, Smyth, Tazewell, Washington and Wise

### GENERAL INSTRUCTIONS

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.

Workers entering treated fields within 24 hours after application should wear protective clothing.

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**BEANS, Succulent and Dry (except Lima Beans) [21]** Bean Leaf Skeletonizer, Black Bean Aphid, Cucumber Beetles, Green Stink Bug and Mexican Bean Beetle - Use 2/3 to 1 1/3 quarts per acre. Aphids, Armyworms, Flea Beetles and Leafhoppers - Use 1 1/3 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 apply if the crop or weeds in the treatment area are in bloom.

**BROCCOLI [7], BRUSSEL SPROUTS [14], 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.

**Celery (whole plant) (15):** Aphids (including green peach aphid), Cabbage Looper, Armyworms, Flea Beetles, Leafhoppers—Use 1 1/2 quarts per acre. Do not exceed 3 applications per season.

**COTTON** Aphids, Armyworms, Boll Weevil, Bollworm, Cabbage Looper, Cotton Leafworm, Cotton Leaf Perforator, Flea Hoppers, Lygus Bugs, Stink Bugs, 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. Do not graze meat or dairy animals in treated fields. Workers entering fields within 24 hours after application should wear protective clothing.

**LETTUCE [21]** Cabbage Looper, Diamondback Moth larvae, Green Peach Aphid, Imported Cabbageworm - Use 1 1/3 quarts per acre. On Head Lettuce, do not exceed 3 applications after thinning. Remove wrapper leaves at harvest. On Leaf Lettuce, do not exceed 2 applications per season. All Uses: Do not feed crop refuse to livestock. Do not exceed 4 quarts per acre per year.

**PEPPERS [15]** Armyworm, Flea Beetles, Green Peach Aphid, Hornworms, Leafhoppers, Pepper Maggot - Use 1 1/3 quarts per acre. Do not exceed 3 applications per year or a maximum of 4 quarts per acre per year.

**POTATOES [5]** Aphids, Colorado Potato Beetle, European Corn Borer, Plant Bugs (including shield-shaped bugs), Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Potato Psyllid, Southern Armyworm, Three-lined Potato Beetle, Mites - Use 1 to 1 1/3 quarts per acre. Do not exceed 4 applications per year or a maximum of 4 quarts per acre per year.

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

**TOMATOES [15] Blister Beetle, Colorado Potato Beetle, Flea Beetles, Green Peach Aphid, Tomato hornworm, Whitefly -Use 3/4 to 1 1/3 quarts per acre. Cabbage Looper, Stink Bugs - Use 1 to 1 1/3 quarts per acre. Tomato Russet Mite, Tomato Fruitworm, Armyworms - Use 1 1/3 quarts per acre. Do not exceed 5 applications per year or a maximum of 4 quarts per acre per year.**

**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—FMC Trademark