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279-2609

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SEP - 6 1994

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Ms. Nancy J. Hilton
FMC Corporation
1735 Market Street
Philadelphia, PA 19103

Dear Ms. Hilton:

Subject: Amendment - Label
Methyl Parathion 1.0 Thiodan 2.0 C.O EC
EPA Registration No. 279-2609
Your Submission dated April 6, 1994

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. Five copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed.

1. Under Precautionary Statements add the following text:
.....Fatal if swallowed or inhaled. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Do not breathe vapor or spray mist.

2. Under Environmental Hazards:
Revise the third and fourth sentences as follows:
.....Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the 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.

3. Under Physical and Chemical Hazards, revise the statement to read:
.....Do not use, pour, spill or store near open flame.

4. Under Storage and Disposal add the the following additional statement under Pesticide Storage
.....Keep away from heat, open flame or sparks.

5. As directed in the Agency's letter dated June 9, 1994, please make the following revisions:

CONCURRENCES

| SYMBOL | SURNAME | DATE | | | | | |
|--------|---------|------|--|--|--|--|--|
| | Mouts | | | | | | |

a. Add "Organophosphate" to your label in one of the locations shown in Section E of Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

b. Insert the following statement above the Agricultural Use Requirements box: "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." The exact location is shown in Section F on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

c. Delete the 72-hour arid area REI statement and the notification statement from your label. EPA has determined that they are not required for products containing methyl parathion as the sole active ingredient.

d. Correct the typographical errors circled on the proposed label.

e. Delete the crossed-out statements on your proposed label. They are redundant statements.

Sincerely yours,

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

Code 31931

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 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

SEP - 6 1994

Methyl Parathion 1.0 Thiodan® 2.0 C.O.EC

279-2609

Insecticide

EPA Reg. No. 279-2609

EPA Est. 279-

| Active Ingredients: | By Wt. |
|---|--------|
| *Endosulfan | 22.40% |
| **0,0-dimethyl 0-4-nitrophenyl phosphorothioate | 10.65% |
| Related Compounds | 0.55% |
| Inert Ingredients:*** | 66.40% |
| | 100.0% |

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

**Methyl Parathion

***Contains xylene range aromatic solvents

Contains xylene range aromatic solvents

Contains 1 pound methyl parathion and 2 pounds endosulfan per gallon.

STOP! READ THE LABEL



CAN KILL YOU

DANGER

POISON

Keep out of reach
of children

See side panels
for antidote
and precautions

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.)



FMC Corporation
Agricultural Chemical Group
Philadelphia PA 19103

9/89

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, 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

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



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 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.

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

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 Lamine 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 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 Lamine 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.

STORAGE AND DISPOSAL

Pesticide Storage

Do not store in or around the home.

Do not store below 20°F, (-7°C).

Keep away from fire and sparks.

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.

Apply when insects first appear and repeat as necessary to maintain control. Do not apply this product in undiluted form. Use the following recommended rates in sufficient water to thoroughly cover one acre. (By ground, apply a minimum of 10 gallons; when applying this material by aircraft mix the recommended amount with sufficient water to provide a minimum of 3 gallons of finished spray per acre). Observe days interval between last application and harvest indicated by number in parenthesis () following the crop.

Artichokes (7): Aphids—Use 1½ to 2 quarts per acre. Artichoke Plume Moth—Use 2 quarts per acre. Do not make more than 2 applications per year. Do not exceed a maximum of 2.0 lbs. active ingredient (i.e., 4 quarts) per acre per year.

Beans, Succulent and Dry (except Lima Beans) (15): Black Bean Aphid, Cucumber Beetle, Bean Leaf Skeletonizer, Flea Beetles, Green Stink Bug, Mexican Bean Beetle—Use 1 to 2 quarts per acre. Armyworms, Leafhoppers—Use 2 quarts per acre. All uses: Do not exceed 3 applications per year or a maximum of 6 quarts per acre per year. Do not feed treated threshings to livestock or allow 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

Beans, Succulent and Dry (except Lima Beans) (15): Black Bean Aphid, Cucumber Beetle, Bean Leaf Skeletonizer, Flea Beetles, Green Stink Bug, Mexican Bean Beetle—Use 1 to 2 quarts per acre Armyworms, Leafhoppers—Use 2 quarts per acre. All uses: Do not exceed 3 applications per year or a maximum of 6 quarts per acre per year. Do not feed treated threshings to livestock or allow 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.

Broccoli (7), Brussels Sprouts (14), Cabbage (10), Cauliflower (14): Aphids, Cabbage Looper, Imported Cabbageworm, Diamondback Moth Larvae, Cross-striped Cabbageworm, Flea Beetles, Harlequin Bug, Stink Bugs—Use 1½ to 2 quarts per acre. Do not exceed 4 applications per year or a maximum of 6 quarts per acre per year.

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

Celery (Whole Plant) (15): Aphids including Green Peach Aphid, Cabbage Looper, Flea Beetles—Use 1 to 2 quarts per acre. Armyworms, Leafhoppers—Use 2 quarts per acre. Do not exceed 3 applications per season.

Collards (21): Cabbage Looper, Diamondback Moth Larvae, Harlequin Bug, Imported Cabbageworm—Use 1½ quarts per acre. Do not exceed one application per season.

Kale (21): Cabbage Flea Beetle Harlequin Bug, Imported Cabbageworm—Use 1½ quarts per acre. Do not exceed one application per season.

Lettuce (21): Aphids including Green Peach Aphid, Cabbage Looper, Diamondback Moth Larvae, Armyworms, Flea Beetles, Imported Cabbageworm, Leafhoppers—Use 1½ to 2 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 6 quarts per acre per year.

Mustard Greens (21), Turnip Greens (21): Aphids, Cabbage Looper, Imported Cabbageworm—Use 1½ quarts per acre. Do not exceed one application per season.

Peas, Succulent (Northwest Only) (10): Pea Aphid, Pea Weevil—Use 2 quarts per acre. Do not exceed two applications per year. Use only on peas when crop is to be harvested by combine. Do not feed treated vines or 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.

Spinach (21): Armyworm, Crown Mite, Flea Beetles, Green Peach Aphid, Leafhoppers—Use 1½ quarts per acre. Do not exceed one application per season.

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.