

Reg # 279-2735

PM-13

file 196



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAY 26 1994

CHRISTINE A. DIVELY
FMC CORPORATION
ACG SPECIALTY PRODUCTS
1735 MARKET STREET
PHILADELPHIA, PA 19103

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 04/15/94 Response to PR Notice 93-7
EPA Reg. No. 279-2735
THIODAN PYRENONE C.O. EC

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling.

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

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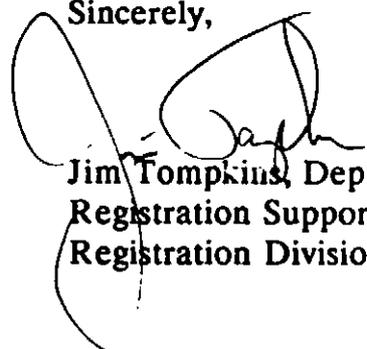
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Christine A. Dively
FMC CORP.
ACG SPECIALITY PRODUCTS
1735 MARKET STREET
PHILADELPHIA PA 19103

Comment for: EPA Reg Nr.279-2735
THIODAN PYRENONE C.O. EC

The following specific comments pertain to your WPS
labeling submission concerning the product
cited above:

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

Correct the typographical errors circled on your proposed
label.

Thiodan Pyrenone C.O. EC

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Insecticide

For Agricultural or Commercial Use Only

EPA Reg. No. 279-2735

EPA Est. No. 279-

Active Ingredient

*Endosulfan (Hexachlorohexahydromethano-2,4,3-benzodioxathiepin oxide)	23.15%
Pyrethrins	0.18%
**Technical piperonyl butoxide	1.80%
Xylene range aromatic solvent	18.00%
Inert Ingredients	56.87%
	100.00%

This product contains 2 pounds Endosulfan (*Thiodan*) 0.25 ounce Pyrethrins, and 2.5 ounces piperonyl butoxide (Butacide*) per gal.

*Consists of 1.44% (butylcarbityl) (6-propylpiperonyl)ether and 0.36% of related compounds.

**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.)

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call a physician immediately. Drink one or two glasses of water or one ounce of syrup of ipecac, if available, and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled: Remove victim to fresh air. Apply respiration if indicated.

If on skin: Remove--contaminated--clothing--and-- wash contaminated skin with soap and water.

If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

Note to Physician: Endosulfan is a central nervous system stimulant. Treat symptomatically. There is no specific antidote.

For Emergency Assistance Call (716) 735-3765

See other panels for additional precautionary information.

FMC Corporation
Agricultural Chemical Group
Philadelphia, PA 19103

ACCEPTED
with COMMENTS
in EPA Letter Dated

MAY 26 1994

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

279-2735

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

Warning:

Hazardous if swallowed, inhaled or absorbed through skin! Do not breathe spray mist. Do not get in eyes, on skin or on clothing. In case of contact, flush skin or eyes with plenty of water; for eyes, get medical attention.

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 short-sleeved shirt and short 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
- 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)

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 Controls 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 the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

BEST AVAILABLE COPY

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Keep out of lakes, ponds, and streams. Apply this product only as specified on the label. This product is toxic to bees and should not be applied when bees are actively visiting the area. Do not apply where runoff is likely to occur. Do not allow this material to drift onto neighboring crops or non-crop areas or use in a manner or at a time other than in accordance with label directions because animal, plant, or crop injury. Do not contaminate water by cleaning of equipment or disposal of wastes.

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. 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.

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 24 hours.

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 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 collect. (714) 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 rinseate 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 corn 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

Arizona

Graham, Maricopa, Mohave, Pima, Pinal and Santa Cruz

Arkansas

Benton, Clay, Clark, Cross, Lawrence, Lee, Poinsett, 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

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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

Benson, Bottineau, Burke, Burleigh, Divide, Dunn, Eddy, Emmons, Foster, Kidder, Logan, McIntenry, McIntosh, McKenzie, McLean, Mercer, Morton, Mountrail, Nelson, Oliver, Pierce, Ramsey, Renville, Rolette, Sheridan, Sioux, Stutsman, Towner, Ward, Wells and Williams

Ohio

Pickaway

Oklahoma

Delaware, McCurtain and Pushmataha

Oregon

Lake

South Carolina

Aiken, Bamwell, Beaufort, Berkeley, Charleston, Colleton, Dorchester, Georgetown, Hampton, Horry, Jasper and Marion

South Dakota

Clay, Haakon, Hughs, Potter, Stanley, Sully, Union, Watworth, 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

Apply the listed amount per acre when insects first appear and repeat as required to maintain effective control. Coverage of upper and lower leaf surfaces is essential for good control. Observe use limitations. Do not use in undiluted form. If insect control is required beyond the following use patterns, supplement the control program with other suitable pesticides.

When applying this material by aircraft, mix the recommended amount with sufficient water to provide a minimum of 1 gallon finished spray per acre. By ground, use a minimum of 25 gallons of water per acre. Where more than 2 quarts of this material are recommended, mix with sufficient water to provide a minimum of finished spray equal to twice the amount of Thiodan Pyrenone C O EC used. Observe days interval between last application and harvest indicated by number in () following the crop

Artichokes (7): Artichoke Aphid, Green Peach Aphid—1½ to 2 quarts per acre. Artichoke Plume Moth—2 quarts per acre

Beans, Dry and Succulent (3): Bean Leaf Skeletonizer, Black Bean Aphid, Cucumber Beetle, Green Stink Bug, Mexican Bean Beetle—1 to 2 quarts per acre. Do not make more than 3 applications. Do not feed treated threshings to livestock or allow to graze in treated fields. Do not use on lima beans as injury may result.

Broccoli (7), Brussels Sprouts (14), Cabbage (7), Cauliflower (14): Cabbage Aphid, Cabbage Looper, Cross-striped Cabbageworm, Diamondback Moth Larvae, Flea Beetle, Harlequin Bug, Imported Cabbageworm, Stink Bug—1½ to 2 quarts per acre. Armyworms, Cutworms—2 quarts per acre

Carrots (7): Green Peach Aphid—1 to 2 quarts per acre. Do not make more than 2 applications. Do not use tops for food or feed

Celery, Whole Plant (7): Green Peach Aphid—1 quart per acre.

Celery, Whole Plant (4): Green Peach Aphid, Cabbage Looper—1 to 2 quarts per acre. Do not make more than 3 applications

Collards (21): Cabbage Looper, Diamondback Moth Larvae, Harlequin Bug, Imported Cabbageworm—1½ quarts per acre. Do not apply more than once

Corn, Sweet (Fresh Vegetable Use Only) (0): Corn Leaf Aphid—2 quarts per acre. Corn Earworm—3 quarts per acre applied at 2 to 3 day intervals beginning when silks first appear and continuing until they begin to dry. Do not make more than 5 applications. Do not apply to sweet corn to be processed. Do not feed treated forage or ensilage to livestock or allow to graze in treated fields

Cucumbers (0), Melons (0), Pumpkins (0), Summer & Winter Squash (0): Aphids, Cucumber Beetle, Striped Cabbage Flea Beetle, Melonworm, Pickleworm, Rindworm (on watermelons), Squash Beetle,

Squash Bug, Squash Vine Borer—1 to 2 quarts per acre. For Vine Borer control, apply weekly to flowerbuds, stems and vines beginning when moths first appear. For Cabbage Looper and Omnivorous Leaf-roller on melons, use 2 quarts per acre.

Eggplants (1): Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Green Stink Bug, Whitefly—1 quart per acre

Lettuce (14): Cabbage Looper, Green Peach Aphid, Imported Cabbageworm, Diamondback Moth Larvae—1½ to 2 quarts per acre. On head lettuce do not apply more than 3 times after thinning. Remove outside leaves at harvest. Do not feed crop waste to livestock. On leaf lettuce do not make more than 2 applications per season.

Peppers (4): Green Peach Aphid, Flea Beetle, Hornworm, Pepper Maggot—1 to 2 quarts per acre. *1 day if maximum of 1 quart per acre is applied.

Potatoes (0): Aphids, Armyworms, Colorado Potato Beetle, Green Stink Bug, Leaf-footed Plant Bug, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Whitefly—Use 1 to 2 quarts per acre. European Corn Borer, Potato Psyllid—Use 3 to 4 quarts per acre. False Chinch Bug—Use 2 quarts per acre. Threelined Potato Beetle—Use 1 quart per acre.

Spinach (21): Crown Mite, Green Peach Aphid—1½ quarts per acre. Do not exceed 1 application.

Tomatoes (Field & Greenhouse) (1): Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid—1 quart per acre. Hornworms—1 to 2 quarts per acre. Tomato Russet Mite, Tomato Fruitworm, Yellow-striped Armyworm—2 quarts per acre. Stink Bugs—1½ to 2 quarts per acre. Cabbage Looper—1½ quarts per acre.

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 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

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FMC - FMC Trademark (31111-7/87)