



Gallons Net Contents

Insecticide

For Agricultural or Commercial Use Only.

EPA Reg No 279-2924

UFA 131 279.

Active Ingredients

By Wt.

*Endosulfan (Hexachlorohexahydromethano-2,4,3-benzodioxathiepin oxide)	33.7%
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Xylene Range Aromatic Solvent 57.7%

Inert Ingredients	8.6%
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100.0%

• Triogan

The data in Table 1 indicate that the percentage of total weight per species

KEEP OUT OF REACH OF CHILDREN
WARNING

AVISO

PRECAUCION AL USUARIO: Si usted no lee antes, ni usa este producto de la forma correcta, le haya sido expuesto al producto.

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call a physician or Poison Control Center immediately. If possible, something should be induced or oral medical supervision for one or two glasses of water and induce vomiting by giving one or two teaspoons of syrup of ipecac. If available 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.

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

See Other Panels for Additional Precautionary Information.

FMC Corporation
Agricultural Chemical Group
2000 Market Street
Philadelphia Pennsylvania 19103

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279-2924

If in eyes: Flush eyes with plenty of water for at least 15 minutes and
 immediately

Note to Physician: Endosulfan is a contact irritant systemically stimulant and absorbable by mouth, inhalation or through contact with skin. There is no antidote, but, excitant effect can usually be controlled by barbiturates or diazepam. There also is a hazard of chemical pneumonia from aspiration, because of the petroleum hydrocarbon content.

PRECAUTIONARY STATEMENTS

Hazards to Humans (& Domestic Animals)

Warning

Hazardous if Swallowed, Inhaled or Absorbed Through Skin: Do not breathe spray mist. Do not get in eyes, on face, or on clothing. Wash thoroughly with soap and water after handling, and before eating or smoking; wear clean clothing during commercial exposure to spray-mixing and loading operations; wear clear synthetic rubber gloves and a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines), and/or the National Institute for Occupational Safety and Health under provisions of 30 CFR Part 116, and all applicable Federal, State and local laws, regulations, orders, decrees, and court decisions governing occupational safety and health.

Environmental Hazards

This product is toxic to fish, birds, and mammals. Do not apply to treated areas may be used to keep fish and birds out of marshes and estuaries. Do not apply to areas used for recreational purposes and human and animal consumption. 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. This product must not be used in areas where application threatens endangered species, threatened species, and Game and Game Age of before applying. Do not apply to protected areas specified on this label.

This pesticide should be used to control the following insects: Aphids, Flea Beetles, Leaf Beetles, Leafhoppers, and Stink Bugs. Applications should be timed to coincide with the presence of the insects. Apply weekly between late April and early September.

Physical or Chemical Hazards

Do not use poor spin or store heat-treated spinners.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner not consistent with its labeling.

Do not apply this product in such a manner as to create a hazard or to expose workers or other persons to the hazard created by or protected from this pesticide.

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Protective clothing readily available for use includes, but is not limited to, wearing a long sleeved shirt and long pants, wearing a respirator, wearing a protective garment (i.e. coveralls), wearing gloves, wearing a shoe cover, wearing socks, wearing arm and leg coverings, shoes and socks.

BEST DOCUMENT AVAILABLE

4/84-Draft (Add pecan leaf phylloxera)
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Because certain states may require more restrictive re-entry 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:

WARNING

Area treated with Thiodan 3 E.C. on (insert date). Do not enter without appropriate protective clothing for 24 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 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. Contain spill. Call FMC collect (716) 735-3765.

To contain spill, if liquid, soak 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 material, or residue 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.

Not for use or storage in or around the home.

Do not use in undated form.

Apply the listed amount per acre when insects first appear and repeat as required to maintain effective control. Use in sufficient water for thorough coverage of listed crops, unless otherwise noted. Coverage of upper and lower leaf surfaces is essential for good control. Observe use limitations. 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 on vegetable and field crops and a minimum of 20 gallons of finished spray per acre on deciduous trees and vines. 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 3 E.C. used. Do not plant root crops other than carrots, potatoes, sweet potatoes, and sugar beets as follow-up crops. Observe days interval between last application and harvest indicated by number in () following the crop.

Alfalfa, Grown for Forage (21): Meadow Spittlebug 1/2 qt. per acre. Apply 1 week after eggs begin to hatch or when first small masses of froth are produced in the crowns of the plant which is usually about the time the alfalfa is 4 to 6 inches tall. Apply in a minimum of 10 gallons of water per acre by ground or 2 gallons of water per acre by air. Do not apply more than once per cutting. Do not graze or cut forage within 21 days of treatment. **Seed Crop Only:** Aphids—1 1/2 pints. Lygus Bugs—2 to 2 1/2 quarts. Meadow Spittlebug—pints.

Do not feed treated forage to dairy or meat animals. Do not use on forage to be sold commercially or shipped interstate.

Almonds: Peach Twig Borer 2 1/2 to 3 1/2 qts. per acre for control of early season infestation. Apply during popcorn, pink or petal fall. Use in a minimum of 200 gallons of water per acre; dilute or in 40 gallons per acre concentrate. For areas less than one acre, use 1 qt. per 100 gallons of water. Do not exceed one application per season. Treated hulls may be fed to livestock and dairy animals.

Apples (30): Apple Aphid, Rosy Apple Aphid, Woolly Aphid—1/2 qt. per 100 gallons or 2 1/2 to 3 1/2 qts. per acre. Apple Rust Mite—10 to 15 qts. per 100 gallons or 4 to 5 1/2 qts. per acre. Do not feed pomace from treated apples to livestock. Do not exceed 2 applications during the fruiting period at rate above 3 1/2 quarts per acre.

Apples (21): Apple Aphid, Rosy Apple Aphid—1 qt. per 100 gallons or 2 1/2 to 3 1/2 qts. per acre. Do not exceed 3 applications during fruiting period. Do not feed pomace to livestock.

Apples (30) Western Use Only: Woolly Apple Aphid—1 qt. per 100 gallons or 5 1/2 qts. per acre. Do not exceed 2 applications during fruiting period. Do not feed pomace from treated apples to livestock.

Apricots (21), Nectarines (21), Peaches (21): Peach Tree Borer, Lesser Peach Tree Borer. Use 1 qt. per 100 gallons. Best control—1 qt. per 100 gallons. For Eastern States, use 2 to 3 qts. per 100 gallons. Best control is obtained with a single application during the first week of September. Spray all bark areas from ground level to scaffold limbs.

OR:

Apricots (30), Nectarines (30), Peaches (30): Aphid, Black Cherry, Black Peach, Green Peach, Rusty Plum, Catfacing Insects, Peach Twig Borer—1 qt. per 100 gallons or 2 1/2 to 3 1/2 qts. per acre. Peach Silver Mite—1 qt. per 100 gallons or 2 1/2 to 3 1/2 qts. per acre. Do not exceed 2 applications during the fruiting period.

Artichokes (7): Artichoke Aphid, Green Peach Aphid, Pear Psyllid—1 qt. per acre. Artichoke Plume Moth—1 qt. per acre.

Barley, Oats, Rye, Wheat: Army Cutworm—1 qt. per acre. For aerial application, apply in 2 gallons diesel fuel or per acre cereal leaf beetle (Illinois, Indiana, Michigan, and Ohio only) 10 to 15 pints per acre. Apply when small larvae are readily found in the field. For aerial application use a minimum of 100 gallons of water per acre. Do not apply after heads begin to form. Do not feed treated

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forage to livestock

Beans, Succulent and Dry (Except Lima Beans) (3): Black Bean Aphid, Bean Leaf Skeletonizer, Cucumber Beetles, Green Stink Bug, Mexican Bean Beetle. Use 1/2 to 2 1/2 pts. Western Bean Cutworm. Use 1/2 qts. Do not exceed 3 applications per season. Do not feed threshings or allow livestock to graze in treated fields.

Blueberries: Blueberry Bud Mite—2 qts. per acre in 300 gallons of water. Apply immediately after harvest and repeat 6 to 8 weeks later. Do not apply after buds are well formed.

Boxelder: Boxelder Bug—2 qts. per 100 gallons (1 1/2 tablespoons per gallon). Spray foliage and trunks when insects first appear. Repeat as required. In late summer or fall spray tree trunks, outside walls, fences and other places where bugs congregate.

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—1 to 1 1/2 qts. Armyworms, Cutworms—1/2 qts. per acre.

Carrots (7): Green Peach Aphid—1 1/3 to 2 1/3 pts. Do not exceed 2 applications. Do not use tops for food or feed.

Celery (7): Green Peach Aphid—1 1/3 pts. —or— **Celery (4):** Green Peach Aphid, Cabbage Looper—2 1/3 pts. Do not exceed 3 applications per season.

Cherries (21): Black Cherry Aphid, Plum Rust (Nursery) Mite—1 qt. per 100 gallons or 2 1/2 to 3 qts. per acre. Do not exceed 2 applications after shuck split. (Michigan only) Mineola Moth—1/2 qts. per 100 gallons applied in delayed dormant period.

Cherries (21)—Pacific Northwest Only: Eyespotted Bud Moth, Fruit-tree Leafroller—1 qt. per 100 gallons or 2 1/2 to 3 1/2 qts. per acre. For Eyespotted Bud Moth, apply during popcorn stage of growth. For Fruit-tree Leafroller, apply during pre-pink stage of growth. Do not exceed 2 applications after shuck split.

Cherry, Peach, Plum Nursery Stock Dip: Peachtree Borer—Thoroughly mix 2 1/2 gallon per 40 gallons of water. Immerse the bundles of trees so that the roots and crowns are covered well above the grafting bud scar. Plant immediately, or dry before returning to storage. Wear rubber gloves when dipping.

Citrus (Nonbearing Trees and Nursery Stock): Citrus Aphid—1 pt. per 100 gallons or 3 qts. per acre. Do not apply to bearing trees or trees that will bear fruit within 12 months. Shrimp and crab may be killed at application rates recommended. Do not apply where these are important resources.

Collards (21): Cabbage Looper, Diamondback Moth Larvae, Harlequin Bug, Imported Cabbageworm—1 qt. per acre. Apply only once per season.

Cotton: Thrips—2 qts. per acre. Do not apply after bolls open. Do not graze dairy or meat animals in treated fields.

Cotton—Eastern Use Only: Boll Weevil—1/2 to 1 qt. per acre. Bollworm, Cabbage Looper, Cotton Leafperforator, Lygus Bugs, Stink Bugs—1 qt. per acre. Do not apply after bolls open. Do not graze dairy or meat animals in treated fields.

Cotton—Western Use Only: Boll Weevil—1/2 to 2 qts. per acre. Bollworm, Cabbage Looper, Cotton Leafperforator, Lygus Bugs, Stink Bugs—1/2 to 2 qts. per acre. Do not apply after bolls open. Do not graze dairy or meat animals in treated fields.

Cucumbers (0), Melons (0), Summer & Winter Squash (0): Aphids, Cucumber Beetles, Striped Flea Beetle, Melonworm, Pickleworm, Rindworm (on Watermelons), Squash Beetle, Squash Bug, Squash Vine Borer—1 1/3 to 2 1/3 pts. For Vine Borer control, apply weekly to flowerbuds, stems and vines beginning when moths first appear. For

Cabbage Looper and Omnivorous Leafroller on Melons use 1 1/3 qts.

Dogwood: Dogwood Borer. **Lilac:** Lilac Borer—2 1/2 to 1 1/2 qts. per 100 gallons. Apply in early June and repeat in 10 to 14 days. Drench all bark areas down to the ground level.

Douglas Fir (Grown for Ornamentals)—Pacific Northwest Only: Conoley Spruce Girdler, Douglas Fir Needle Midge—1/2 qt. per 100 gallons or 1 tsps. per gallon. To control Girdler, apply when white cottony tufts appear. To control Needle Midge, apply in late April or early May just before buds open.

Eggplants (1): Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Whitefly, Blister Beetle, Green Stink Bug—1 1/2 pts. per acre.

Grapes (7): Grape Leafhopper—2 1/2 quart per 100 gallons or 1 1/3 to 2 qts. per acre. Rose Chafer—2 1/2 qt. per 100 gallons. Do not apply to Concord variety as severe injury is likely to occur. Ground application preferred.

Kale (21): Cabbage Flea Beetle, Harlequin Bug, Imported Cabbageworm—1 qt. per acre. Apply only once per season.

Leatherleaf Fern: Leatherleaf Fern Borer—2 1/2 qt. per 100 gallons. Begin treatment when first larval feeding is observed in the mid-vein area at the base of the leaflets. Repeat at intervals of 2 to 3 weeks as necessary.

Lettuce (14): Cabbage Looper, Green Peach Aphid, Diamondback Moth Larvae, Imported Cabbageworm—1 to 1 1/2 qts. Do not exceed 3 applications after thinning head lettuce and remove outside leaves at harvest. Do not exceed 2 applications per season on leaf lettuce. Do not feed crop refuse to livestock.

Macadamia Nuts (0): Southern Green Stink Bug—1 1/3 qts. per 100 gallons of water (maximum of 5 gallons per acre). Do not graze livestock in treated groves.

Mustard Greens (21): Aphids, Cabbage Looper, Imported Cabbageworm—1 qt. per acre. Do not exceed 1 application per season.

Ornamentals (Greenhouse, and Out-of-Doors): Aphids, Cyclamen Mite, Whitefly, Rose Chafer—1 qt. per 100 gallons. On chrysanthemums, best results will be obtained if applied before plants flower. Do not apply to Bonnaton Delaire, Fred G. Smith, and White Knight chrysanthemums as injury may result. Do not use on birch trees. In greenhouse application, wear approved mask or respirator.

Peas (7)*: Conspire Stink Bug. **Ground Treatment,** use 2 1/2 qt. per 100 gallons. 200 to 400 gallons spray per acre applied to orchard floor and ground around trees prior to bloom. Do not graze livestock in treated orchards. **Foliar Treatment,** use 1 qt. per 100 gallons or 2 1/2 to 3 1/2 qts. per acre. Stink Bugs must be wet to obtain control. Pear Rust Mite—1 qt. per 100 gallons or 2 1/2 to 3 1/2 qts. per acre. Pearleaf Blister Mite—1/2 to 2 1/2 qt. per 100 gallons applied as a post harvest or dormant treatment. Pear Psylla—3 1/2 qts. in sufficient water to treat 1 acre. (Minimum of 10 gallons per acre for aerial application. 40 gallons per acre for semi-concentrate and 300 gallons per acre for dilute). Apply when adults are first observed or nymphs are small and repeat to maintain control. Make no more than 2 applications during the fruiting period.

* (21) Make no more than 5 applications during the fruiting period. **Note:** Aerial application does not result in satisfactory control and should only be employed if impossible to apply by ground.

Peas, Seed Crop Only (0): Pea Aphid, Pea Weevil—1 1/3 to 2 1/3 pts. per acre. Do not feed treated vines or threshings to dairy or meat animals.

Peas, Succulent (0): Pea Aphid, Pea Weevil—1 1/3 to 2 1/3 pts. per acre. Do not exceed 2 applications during the fruiting period. Use only on peas to be harvested by combine. Do not feed treated vines to livestock or allow to graze in treated fields.

EPA Reg. No. 279-2901

4/84-Draft (Add pecan leaf, pawllozera)

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By _____, Clerk of Court

LPA Reg. No. 279-222

4784-Draft (Add person to draft)
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Strawberries (4): Cyclamen Mite—2 qts. per acre in 400 gallons of water. Do not reapply within 35 days when fruit is present. Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug—1/2 qts. per acre in 200 gallons of water. Do not reapply within 15 days or more than twice within a 35 day period when fruit is present.

Strawberries (4)—Eastern Use Only: Cyclamen Mite—2 qts. per acre in 400 gallons of water. Do not apply at intervals of less than 35 days when fruit is present.

Strawberries—Northwest Use Only: Garden Symphylan (aids in reducing damage)—1 qt. per 100 gallons (plant dip). Mix thoroughly. Dip entire plant. When immersing bundles of plants, make certain any trapped air is forced out to assure thorough wetting of entire plant. Drain and allow plants to dry before setting them out in the field. Wear rubber gloves during dipping operation.

Strawberries (4)—Western Use Only: Cyclamen Mite—8 qts. per acre in 800 gallons of water. Do not apply at intervals of less than 35 days when fruit is present.

Sugar Beets (30): Green Peach Aphid—1/2 to 1 qt. Meadow Spittlebug—1/2 qt. Sugar Beet Webworm—1 to 1 1/2 qts. Do not feed treated tops to livestock.

Sugar Beets (30)—Eastern Use Only: Meadow Spittlebug—1/2 qt. per acre. Do not feed treated tops to livestock.

Sugar Beets (30)—Western Use Only: Meadow Spittlebug—1/2 to 1 qt. per acre. Do not feed treated tops to livestock.

Sunflower (0): Sunflower Moth—1 1/3 qts. per acre. Do not exceed 3 applications. Make first application at onset of bloom and make two more applications at 4 to 7 day intervals. Do not feed treated forage to livestock.

Sweet Corn, Fresh Vegetable Use Only (0): Corn Leaf Aphid—1 1/3 qts. Corn Earworm—2 qts. Apply at 2 to 3 day intervals beginning when silks first appear and continuing until they begin to dry. Do not exceed 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.

Sweet Potatoes (0): Sweet Potato Flea Beetle—2 1/3 qts. per acre. Begin applications shortly after transplanting or as soon as Flea Beetles appear. Banded Cucumber Beetle Larvae (aids in control of, and for use in South Central States only)—1 1/3 to 2 1/3 qts. per acre broadcast. Work into the soil to a depth of approximately 3 inches making a single treatment just prior to plant set. Do not feed treated potatoes to livestock.

Texas: Texas Citrus Mite—1 quart per 100 gallons. Make 3 to 5 applications beginning in mid May. Thorough treatment of foliage, twigs and bark is essential. Black Vine Weevil—1 qt. per 100 gallons. Spray thoroughly at 10 days intervals under plants. Apply when beetles first appear. Repeat in 14 days.

Tobacco (5): Budworm, Cabbage Looper, Flea Beetle, Green Peach Aphid, Hornworm—Field: 2 1/3 to 1 1/3 qts. Seed Bed: Mix 2 1/3 qt. per 100 gals. of water and apply 6 gals. spray per 100 sq. yds. Green June Bug Larvae—1 qt. per 100 gals. of water. Drench plant bed with 1 gal. spray per sq. yd. Stink Bug—Use field application of 2 1/3 qt. per 100 gals.

Tomatoes, Field and Greenhouse (1): Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid—1/2 qt. Hornworms—2 1/3 to 1 1/3 qts. Tomato Pinworm, Tomato Russet Mite, Yellowstriped Armyworm—1 1/3 qts. Flea Beetle—1 to 1 1/3 qts. Cabbage Looper—1 qt. Whitefly—2 1/3 qt. per 100 gals. in 100 to 200 gals. water.

Tomatoes (Field & Greenhouse) (1)—California Only: Webworm—1 to 1 1/3 qts. per acre.

279-2924

Tomatoes (Field & Greenhouse) (1)—Eastern Use Only: Blister Beetles, Colorado Potato Beetle, Flea Beetles, Green Peach Aphid— $\frac{1}{2}$ qt per acre Cabbage Looper—1 qt per acre

Tomatoes (Field & Greenhouse) (1)—Western Use Only: Blister Beetles, Colorado Potato Beetle, Flea Beetles, Green Peach Aphid— $\frac{1}{2}$ to 1 qt per acre Cabbage Looper—1 to 1 qt per acre

Walnuts: Walnut Aphid—2 to 3 qt per acre Do not apply after husk split. Do not graze livestock in treated groves

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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