



THIODAN[®] 50W

(50% THIODAN[®] WETTABLE POWDER)

AGRICULTURAL INSECTICIDE

Active ingredient
*Endosulfan (Hexachlorocycloheximethano-2,4,3-
benzodioxathiepen oxide) 50.0%
Inert ingredients 50.0%
*Thiodan U.S. Patent No. 2,799,685
*Thiodan is the Reg. T.M. of Canadian: Hoechst, Ltd

E.P.A. Reg. No. 802-480-AA

WARNING — Keep out of reach of children

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, immediately remove contaminated clothing and flush skin or eye with plenty of water. For eyes, get medical attention. Wash thoroughly with soap and water after handling and before eating or smoking, wear clean clothing. During commercial or prolonged exposure in spray-mixing and loading operations, wear clean synthetic rubber gloves and a mask or respirator of a type passed by the U.S. Bureau of Mines for endosulfan protection. Do not apply or allow to drift to areas occupied by unprotected humans or beneficial animals.

Not for use or storage in or around the home.

WARNING—Workers entering treated areas within 24 hours of applications should wear protective clothing.

This product is toxic to fish and wildlife. Keep out of any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

Do not apply to any area not specified on this label. Do not apply when weather conditions favor drift from areas treated. Apply this product only as specified on this label.

This product is toxic to bees and should not be applied when bees are actively working in the area. Bees feeding on treated areas may be killed. Do not apply where runoff is likely to occur.

Do not use in undiluted form. Dealers should sell in original packages only.

DISPOSAL WARNING—Rinse equipment and containers and dispose of wastes by burying in non-crop areas away from water supplies. Containers should be disposed of by punching holes in them and burying with wastes. Do not contaminate water by cleaning of equipment or disposal of wastes.

Do not allow this material to drift into neighboring crop or non-crop areas or use it in a manner not at a time other than as indicated with label directions, because animal, plant, or crop injury, illegal residues or other undesirable results may occur.

GENERAL DIRECTIONS

Apply when insects first appear and repeat as required to control the pest. Where an insect is not controlled, repeat with water for thorough coverage. Coverage of all exposed plant surfaces is essential for control. Thorough wetting of trunks and main branches is important. For use in a spray program with other suitable pesticides, consult your local extension agent or dealer for details. Do not apply to fruit or harvest material.

FRUITS AND BERRIES

APPLES (30)—Apple Aphid, Apple Rust Mite, Woolly Apple Aphid. 4 to 5 lbs. per acre. In the State of Washington only, reduce amount to 2 to 3 lbs. per acre. Apple Aphid, Rosy Apple Aphid. 1 lb. per acre. May increase amount per acre to 2 lbs. in sprays prior to petal fall. Apple Aphid. Do not feed pomace from treated apples to livestock.

APPLES (21)—Apple Aphid, Rosy Apple Aphid. 4 to 5 lbs. per acre. In the State of Washington only, reduce amount to 2 to 3 lbs. per acre. Do not feed pomace from treated apples to livestock.

APRICOTS (30), NECTARINES (30), PEACHES (30)—Black Cherry Aphid, Black Peach Aphid, Rusty Plum Aphid. 4 to 5 lbs. per acre. Cat-facing Insects (Stink Bug Type), Green Peach Aphid, Peach Twig Borer. 1 lb. per 100 gals. or 4 to 5 lbs. per acre. Lesser Peach Tree Borer. 1 lb. per 100 gals. using 50 to 150 gals. per acre. Thorough wetting of trunks and main branches is important. Peach Silver Mite. 1 lb. per 100 gals. or 4 to 5 lbs. per acre. Do not exceed 2 applications during fruiting season.

APRICOTS (21), NECTARINES (21), PEACHES (21)—Peach Tree Borer. 1 lb. per 100 gals. spray all areas from ground level to scaffold limbs using 100 to 150 gals. per acre.

CHERRIES (21)—Eye-spotted Bud Moth, Fruit-tree Leaf Roller (Pacific Northwest only). 1 lb. per 100 gals. For Bud Moth, apply during pre-bloom stage of growth. For Leaf Roller, apply during pre-bloom stage. Black Cherry Aphid, Plum Rust Nursery Mite. 2 lbs. per 100 gals. or 4 to 5 lbs. per acre. Lesser Peach Tree Borer. 1 lb. per 100 gals. or 4 to 5 lbs. per acre. Thorough wetting of trunks and main branches is important. Peach Tree Borer. 1 lb. per 100 gals. spray scaffold areas from ground level to scaffold limbs using 100 to 150 gals. per acre. Time applications with moth flight. Do not exceed 2 applications during fruiting season.

continued on back panel

Net Weight lbs

MILLER PRODUCTS
THE CHAS. H. LILLY CO.
INDIANAPOLIS, IN.

Miller's THIODAN 50W

FRUITS AND BERRIES—continued

GRAPES 7—Grape Leafhopper, Rose Chafer—1 lb. per 100 gals. or 3 lbs. per acre. Do not apply more than once per season. Do not use on Concord variety of grapes as it is toxic to it.

PEARS 21—Pear Rust Mite—1 lb. per 100 gals. or 4 to 5 lbs. per acre. Pear Psylla—1/2 lb. per 100 gals. Do not exceed 300 gals. spray per acre. To control second generation Psylla, apply when nymphs are still small and repeat if necessary in 7 to 10 days. Do not exceed 2 applications during fruiting period. Pear Leaf Blister Mite—1 lb. per 100 gals. Apply as a post harvest or dormant treatment.

Conspire Stink Bug—Ground Treatment—Use 1 lb. per 100 gals. or 200 to 400 gals. per acre applied to ground near and around trees prior to bloom. Do not graze livestock in treated orchards. Foliar Treatment—Use 1 lb. per 100 gals. or 4 to 5 lbs. per acre. Stink Bugs must be wet to obtain control.

PLUMS 17, **PRUNES** (Fresh) 17—Fruit-tree Leaf Roller in Pacific Northwest only—1 lb. per 100 gals. or 4 to 5 lbs. per acre. Apply during pink stage of growth. Hop Aphid, Leaf Curl Plum Aphid, Thistle Aphid—1 lb. per 100 gals. or 4 to 5 lbs. per acre. Apply when eggs hatch during pre-bloom or post-fall. Summer applications should be made before leaves fall. Lesser Peach Tree Borer—1/2 lb. per 100 gals. or 4 to 5 lbs. per acre. Apply thoroughly to trunk and main branches. Peach Tree Borer—1/2 to 2 lbs. per 100 gals. Apply at intervals from ground level to scaffold limbs using 50 to 100 gals. per acre. Peach Twig Borer—1 lb. per 100 gals. or 4 to 5 lbs. per acre. Plum Nursery Mite—1 lb. per 100 gals. or 4 to 5 lbs. per acre.

STRAWBERRIES 14—Cyclamen Mite—1 lb. per 100 gals. For West Coast areas apply 600 gals. of spray per acre to thoroughly wet the foliage, stem, and crowns of the plants. For multiple applications, do not apply at intervals of less than 15 days during the fruiting period. Meadow Spittlebug, Strawberry Aphid—2 lbs. per acre. Tarnished Plant Bug—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply at intervals of less than 15 days or more than twice during any 35 day period when fruit is present.

NUTS

Do not graze livestock in treated groves.

HILBERTS 0—Filbert Aphid—1 lb. per 100 gals. or 5 to 4 lbs. per acre. Filbert Leafroller—3 to 4 lbs. per acre.

MACADAMIA NUT 0—Southern Green Stink Bug—2 lbs. per 100 gals. using 700 to 750 gals. per acre.

PECANS—Black Pecan Aphid—1/2 lb. per 100 gals. Pecan Nut Casebearer—1 to 2 lbs. per 100 gals. Apply when eggs of the first generation appear in the tips of the young nuts. Another application may be required after the second generation eggs are deposited. Spittlebug—1 lb. per 100 gals. Apply when first leaves are half grown and repeat as required to maintain control. Do not apply after June 15.

WALNUTS—Walnut Aphid—1/2 lb. per 100 gals. Do not apply after husky split.

VEGETABLES

BEANS 13—Bean Aphid, Bean Leaf Skeletonizer, Cucumber Beetles, Green Stink Bug, Mexican Bean Beetle—1 lb. per 100 gals. Do not exceed 2 applications per season. Do not use on Broad Beans, Snap Beans, and other beans which are susceptible to blight. Do not graze livestock in treated fields.

BROCCOLI 17, **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—1/2 to 2 lbs. per acre. Armyworms, Cutworms—1 lb. per acre.

CARROTS 17—Green Peach Aphid—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season.

CELERY 17—Green Peach Aphid—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season.

CELERY 4—Green Peach Aphid, Cabbage Looper—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season.

COLLARDS 21—Cabbage Looper, Diamondback Moth Larvae, Harlequin Bug, Imported Cabbageworm—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season.

CUCUMBERS 0, **SQUASH** **SUMMER AND WINTER** 0—Aphids—1 lb. per 100 gals. Cucumber Beetles, Melonworms, Pickleworms, Squash Beetles, Squash Bugs, Squash Vine Borer, Striped Flea Beetle—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season. Do not graze livestock in treated fields.

EGGPLANTS 1—Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Green Stink Bug, White Fly—1 lb. per acre.

KALE 21—Flea Beetle, Harlequin Bug, Imported Cabbageworm—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season.

LETTUCE 14—Cabbage Looper, Diamondback Moth Larvae, Green Peach Aphid, Imported Cabbageworm—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season. Do not graze livestock in treated fields.

MELONS 0—Aphids—1 lb. per 100 gals. Cucumber Beetles, Melonworms, Pickleworms, Rindworms on Watermelons, Squash Beetles, Squash Bugs, Squash Vine Borer, Striped Flea Beetle—1 lb. per 100 gals. or 2 lbs. per acre. Do not graze livestock in treated fields. Do not apply more than once per season.

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MUSTARD GREENS 21), **TURNIP GREENS** 21—Aphids, Cabbage Loopers, Imported Cabbageworm—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season.

PEAS (SUCCULENT) 0—Pea Aphid, Pea Weevil—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season. Do not graze livestock in treated fields. Do not use on peas to be harvested by cutting. Do not graze livestock on or allow livestock to graze in treated fields.

PEPPERS 14—Flea Beetles, Green Peach Aphid, Hornworm, Pepper Maggot—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season.

POTATOES 0—Aphids, Armyworms, Colorado Potato Beetle, Green Stink Bug, Leaf-footed Bug, Plant Bug (including Shield Shaped Bug), Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Whitefly—1/2 to 2 lbs. per acre. European Corn Borer, Potato Psyllid—1/2 to 2 lbs. per acre. Flea Beetle, Chinch Bug—2 lbs. per acre. Three-lined Potato Beetle—1 lb. per acre. Do not plant root crops other than carrots, potatoes, or sweet potatoes as follow-up crops.

PUMPKIN 10—Aphids—1 lb. per acre. Cucumber Beetle, Squash Vine Borer—1 to 2 lbs. per acre. For Squash Vine Borer, apply weekly to flower buds, stems and vines beginning when mites first appear.

SPINACH 121—Crown Mite, Green Peach Aphid—1/2 lb. per acre. Do not apply more than once per season.

TOMATOES 11—(for both field and greenhouse use)—Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid—1 lb. per acre. Cabbage Looper—1/2 lbs. per acre. Stink Bugs—1/2 to 2 lbs. per acre. Tomato Fruitworm, Yellow-striped Armyworm, Tomato Russet Mite—2 lbs. per acre. Tomato Hornworm—1 to 2 lbs. per acre. Whitefly—1 lb. per acre. In greenhouse applications, wear respirator passed by the U.S. Bureau of Mines for end-sulfan protection.

FIELD CROPS

COTTON—Cotton Leaf Perforator—2 lbs. per acre. Do not apply after bolls open. Do not graze meat or dairy animals in treated fields.

PEAS (SEED CROP ONLY)—Pea Aphid, Pea Weevil—1 to 2 lbs. per acre. Do not feed treated vines or threshings to dairy or meat animals.

SAFFLOWER—Green Peach Aphid—2 lbs. per acre. Do not apply after flower heads open.

SUGAR BEETS—Green Peach Aphid, Meadow Spittlebug, Sugar Beet Webworm—1/2 to 2 lbs. per acre. Do not feed treated sugar beet tops to livestock.

NURSERY STOCK

CHERRY, PEACH AND PLUM NURSERY STOCK—Peach Tree Borer—Use 4 lbs. per 40 gals. of water. Mix thoroughly. Immerse the bundles of trees so that the trunks and roots are covered well above the grafting and seal of trees are to be planted immediately, allow to dry to a retarding stage. Wear full her gloves during the dipping operation.

ORNAMENTALS

Do not use around the home.

BOX ELDER—Box Elder Bug—3 lbs. per 100 gals. Spray for up to 2 trunks when insects first appear in May and June. Do not apply as frequently as on summer trees. Do not spray trunks of box elder, hickory, and other trees when in blossom stage.

DOGWOOD—Dogwood Borer—1/2 to 2 lbs. per 100 gals. Apply weekly for 4 to 6 weeks. Do not apply more than once per season.

FIR, DOUGLAS—Grown for Ornamental Use—Cooley Spruce Gall Aphid, Douglas-fir Needle Midge—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season. Do not apply to Douglas-fir trees which are to be planted. To control Needle Midge, apply 1 lb. per 100 gals. or 2 lbs. per acre in May or June.

LEATHERLEAF FERN—Leather Holly Fern—Leatherleaf Fern Borer—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season. Do not apply to ferns which are to be planted. To control Leatherleaf Fern Borer, apply 1 lb. per 100 gals. or 2 lbs. per acre in May or June.

LILAC—Lilac Borer—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season.

ORNAMENTALS, GREENHOUSE and OUT-OF-DOORS—Aphids, Cyclamen Mite, Rose Chafer, Whitefly—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season. Do not graze livestock in treated fields. Do not use on plants which are to be planted. In greenhouse applications, wear respirator passed by the U.S. Bureau of Mines for end-sulfan protection.

PINES—Austrian, Jack, Red, Scotch, White—Zimmerman Pine Moth—1 lb. per 100 gals. or 2 lbs. per acre. Apply in mid-April and again in late May or early June. Do not apply more than once per season. Do not apply to pines which are to be planted.

TAXUS—Black Vine Weevil—1 lb. per 100 gals. or 2 lbs. per acre. Do not apply more than once per season. Do not apply to taxus which are to be planted. To control Black Vine Weevil, apply 1 lb. per 100 gals. or 2 lbs. per acre in May or June.