

Thiodan® 3 E.C.

KEEP OUT OF REACH OF CHILDREN  
WARNING  
See Side Panel For Additional WARNINGS

ACTIVE INGREDIENT:

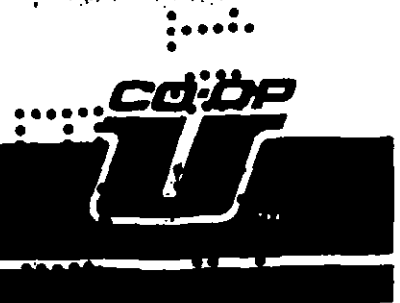
Endosulfan (Hexachlorohexahydromethano-2, 4,3-benzodioxathiepin oxide)* .....	32.5%
INERT INGREDIENTS .....	67.5%
Total .....	100.0%

Contains 3 Pounds Thiodan Per Gallon. \*Thiodan U.S. Patent No. 2,799,685. Thiodan is a Registered Trademark of Canadian Hoechst Limited. DO NOT STORE AT TEMPERATURE BELOW 32° F.

NET VOLUME: 5 Gallons

EPA Reg. No. 1386-594  
EPA Est. No. 1386-OH-1

Not Reviewed. Registrant claims to be in accordance with  
Federalization of Pesticide Products Act for Phase 2  
Implementation, Parts 2, 12, and 14, and 15.1001 in 2003.



Manufactured By:  
UNIVERSAL COOPERATIVES, INC., MINNEAPOLIS, MN 55440

## DIRECTIONS FOR USE

### NOT FOR USE OR STORAGE IN OR AROUND THE HOME

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, unless otherwise noted, for listed crops. 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. Observe days interval between last application and harvest indicated by number in ( ) following the crop.

**ROOT CROPS**—Do not plant root crops other than carrots, potatoes, sugar beets and sweet potatoes as follow-up crops. When applying this material by aircraft, mix the recommended amount with sufficient water to provide a minimum of 2 gallons finished spray 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 3 E. C. used.

**BARLEY, OATS, RYE, WHEAT**—Army Cutworm: 1-1/3 pt. per acre. Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter. For airplane application apply in 2 gals. diesel fuel oil per acre.

**BEANS** (3), succulent and dry (except Lima Beans); Black Bean Aphid, Bean Leaf Skeletonizer, Cucumber Beetles, Green Stink Bug, Mexican Bean Beetle: Use 1-1/3 to 2-2/3 pt. Western Bean Cutworm: Use 1-1/3 qt. 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.

**BROCCOLI** (7), **CABBAGE** (7), **BRUSSELS SPROUTS** (14), **CAULIFLOWER** (14)—Cabbage Aphid, Cabbage Looper, Cross-striped Cabbageworm, Diamond-back Moth Larvae, Flea Beetle, Harlequin Bug, Imported Cabbageworm, Stink Bug: 1 to 1-1/3 qts. Armyworms, Cutworms: 1-1/3 qts. per acre.

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

**CELERY** (7)—Green Peach Aphid: 1-1/3 pt.—or **CELERY** (14)—Green Peach Aphid, Cabbage Looper: 1-1/3 to 2-2/3 pts. Do not exceed 3 applications.

**COLLARDS** (21)—Cabbage Looper, Diamond-back Moth Larvae, Harlequin Bug, Imported Cabbageworm: 1 qt. per acre. Do not exceed 1 application.

**CUCUMBERS** (0), **MELONS** (0), **SUMMER AND 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 2-2/3 pts. 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 1-1/3 qts.

**EGGPLANTS** (1)—Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Whitefly—1-1/3 pt.

**KALE** (21)—Cabbage Flea Beetle, Harlequin Bug, Imported Cabbageworm: 1 qt. per acre. Do not exceed 1 application.

**LETTUCE** (14)—Cabbage Looper, Green Peach Aphid, Diamond-back Moth Larvae, Imported Cabbageworm: 1 to 1-1/3 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.

**MUSTARD GREENS** (21)—Aphids, Cabbage Looper, Imported Cabbageworm: 1 qt. per acre. Do not exceed 1 application.

**PEAS**, Succulent (0)—Pea Aphid, Pea Weevil: 1-1/3 to 2-2/3 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.

**PEPPERS** (4)—Green Peach Aphid, Flea Beetles, Hornworms, Pepper Maggot: 1-1/3 to 2-2/3 pts. 1 day if minimum of 1-1/3 pt. per acre is applied.

**POTATOES** (0)—Aphids, Armyworms, Colorado Potato Beetle, Green Stink Bug, Leaf-footed Bug, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Whitefly: 1-1/3 to 2-2/3 pts. per acre. European Corn Borer, Potato Psyllid: 1 to 1-1/3 qts. per acre. False Chinch Bug: 1-1/3 qts. per acre. Three-lined Potato Beetle: 1-1/3 pt. per acre.

**PUMPKINS** (0)—Aphids, Cucumber Beetles, Squash Vine Borer: 1-1/3 to 2-2/3 pts. per acre. For vine borer control, apply weekly to flower buds, stems and vines beginning when moths first appear.

**SPINACH** (21)—Crown Mite, Green Peach Aphid: 1 qt. Do not exceed one application.

**STRAWBERRIES** (4)—Cyclamen Mite: 2-2/3 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: 1-1/3 qts. per acre in 200 gals. of water. Do not reapply within 15 days or more than twice within a 35 day period when fruit is present.

**SUGAR BEETS** (3)—Green Peach Aphid: 2/3 to 1-1/3 qts. Meadow Spittlebug: 2/3 qt. Sugar Beet Webworm: 1 to 1-1/3 qts. Do not feed treated tops 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** (6)—Sweet Potato Flea Beetle: 2/3 qt. planting or as soon as flea beetles appear. Banded Cucumber South Central States only: 1-1/3 to 2-2/3 qts. per acre broadcast immediately 3 inches making a single treatment just prior to planting.

**TOBACCO** (5)—Flea Beetle, Hornworm, Budworm—Green Peach Aphid: 2/3 qt. per 100 gals. of water and apply larvae: Use 1/3 qt. per 100 gals. of water and drench plant by field application of 2/3 qt. per 100 gals.

**TOMATOES** (field and greenhouse) (1)—Blister Beetle, Cucumber Aphid: 2/3 qt. Hornworms: 2/3 to 1-1/3 qts. Tomato Russet Mite: 1-1/3 qts. Stink Bugs: 1 to 1-1/3 qts. Cabbage Looper: 1 qt. gals. water.

**ORNAMENTALS** (greenhouse and out of doors)—Aphids, Cucumber Aphid: 2/3 qt. On chrysanthemums, best results will be obtained if "Bonafon Deluxe", "Fred Shoemith" and "White Knight" chrysanthemums are used. In greenhouse applications wear approved mask on birch trees. In greenhouse applications wear approved mask on birch trees.

**SHADE TREES** (except Birch), **SHRUBS**—Aphids: 2/3 qt. per 100 gals. of water. **FINES** (Austrian, Jack, Red, Scotch, White)—Zimmerman Pine Borer: 2/3 qt. per 100 gals. of water.

**SPRUCE**—Spruce Gall Aphid (New England area only): 2/3 qt. per 100 gals. of water. May when aphids are present but before galls are formed.

**BOX ELDER**—Box Elder Bug: 2 qts. per 100 gals. (1-1/3 qt. per 100 gals. of water) when insects first appear. Repeat as required. In late summer and other places where bugs congregate.

**DOGWOOD**—Dogwood Borer; **LILAC**—Lilac Borer: 2/3 to 1-1/3 qt. per 100 gals. of water. Drench all bark areas down to the ground.

**TAXUS**—Taxus Bud Mite: 2/3 qt. per 100 gals. Apply 3 to 4 times during the growing season. Treatment of foliage, twigs and bark is essential.

**SUNFLOWER** (0)—Sunflower Moth: 1-1/3 qts. per acre. Do not exceed 2 applications during the fruiting period.

**APPLES** (30)—Apple Aphid, Rosy Apple Aphid: 2/3 qt. per 100 gals. of water. Rust Mite: 1/3 to 2/3 qts. per 100 gals. or 4 to 5-1/3 qts. per 100 gals. of water. Do not exceed 2 applications during the fruiting period.

**PEACHES** (30), **APRICOTS** (30), **NECTARINES** (30)—Black Cherry Aphid, Peach Aphid, Peach Twig Borer, Rusty Plum Aphid: 2/3 qt. per 100 gals. of water. Lesser Peach Tree Borer: 1 qt. per 100 gals. Peach Silver Chinch Bug: 1 qt. per 100 gals. of water. Do not exceed 2 applications during fruiting period.

**PLUMS** (7), **PRUNES** (7)—Lesser Peach Tree Borer: 1 qt. per 100 gals. of water. Do not exceed 2 applications during fruiting period. Spray thoroughly to cover all bark areas from ground to top of tree.

**CHERRY** (21)—Plum Rust (plum nursery) Mite: 2/3 qt. per 100 gals. of water. Do not exceed 2 applications after shuck split. Mineola Moth (M. m.) in delayed dormant period.

## ANTIDOTE

**NOTE TO PHYSICIANS**—Active Ingredient is a central nervous system depressant. There is no specific antidote. Barbituric acid derivatives may be used.

**WARNING**—Hazardous if swallowed, inhaled, or absorbed through skin, on skin or on clothing. In case of contact, immediately wash with plenty of water; for eyes, get medical attention. Wash and before eating or smoking; wear clean clothing. During construction and loading operations, wear clean synthetic rubber gloves.

**THE MINING ENFORCEMENT AND SAFETY ADMINISTRATION** (formerly the Bureau of Mines) has approved this material for use in the provision of occupational safety and health under the provisions of the Federal Safety and Health Act of 1970.

**WARNING**—Workers entering treated areas within 24 hours after application should wear protective clothing.

**DO NOT STORE AT TEMPERATURES BELOW 32° F.**

**DO NOT USE IN UNDILUTED FORM.**

**DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME.**

## ENVIRONMENTAL

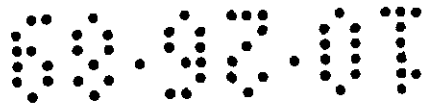
This product is toxic to fish, shrimp, crabs and other wildlife in marshes and estuaries. Do not apply where runoff is likely to cause drift from areas treated. Do not contaminate water by application of this product only as specified on this label. Birds feeding in treated areas should not be fed.

This product is toxic to bees and should not be applied within 3 days of bloom or allow to drift to areas occupied by unprotected bees.

**CONTAINER DISPOSAL**—Rinse equipment and containers and dispose of in non-crop lands well away from water supplies.

## NOTICE

Use only for the purposes and in compliance with the limitations stated on this label.



**BEST AVAILABLE COPY**