

279-1380

2-5-1974

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ACCEPTED
 5 FEB 1974

UNDER THE FEDERAL INSECTICIDE
 FUNGICIDE AND RODENTICIDE ACT
 FOR ESTABLISHED REGISTERED
 UNDER NO. 279-1380
 TO ~~REGISTERED~~

**CODE
190**



**CONTAINS
5-1 LB.
SOL-U-BAGS**

THIODAN® 50 WP

INSECTICIDE

EPA REG. NO. 279-1380-AA

ACTIVE INGREDIENT:

*Endosulfan (Hexachlorohexahydromethano-2, 4, 3-benzodioxathiepin oxide).....	50.0%
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INERT INGREDIENTS:	50.0%
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*Thiodan, U. S. Pat. No. 2,799,685	100%
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WARNING

KEEP OUT OF REACH OF CHILDREN

For Emergency Assistance Call 716-735-3765

Hazardous if Swallowed, Inhaled, or Absorbed Through Skin! Do not breathe dust or spray mist. Do not get in eyes, on skin or on clothing. In case of contact, immediately remove contaminated clothing and flush skin or eyes 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 spray or allow to drift to areas occupied by unprotected humans or beneficial animals.

Workers entering treated fields within 24 hours after application should wear protective clothing.

NOTE TO PHYSICIANS: Thiodan is a central nervous system stimulant and may cause convulsions. There is no specific antidote. Barbituric acid derivatives may be used in treatment.

This product is toxic to fish and wildlife. Keep out of any body of water. Birds feeding on treated areas may be killed. Do not apply when weather conditions favor drift from areas treated. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

This product is toxic to bees and should not be applied when bees are actively visiting the area.

DISPOSE OF WASTES by burying in non-crop lands away from water supplies.

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, ILLEGAL RESIDUES OR OTHER UNDESIRABLE RESULTS MAY OCCUR.

DEALERS SHOULD SELL IN ORIGINAL PACKAGES ONLY.


TERMS OF SALE OR USE: On purchase or use of this product buyer and user agree to the following conditions:

WARRANTY: Niagara warrants that this product, as of the time of sale by Niagara, (1) conforms to the ingredient statement on the label, and (2) is reasonably fit for the purposes set forth in the Directions for Use. EXCEPT AS SO WARRANTED THE PRODUCT IS SOLD AS IS. NIAGARA MAKES NO OTHER WARRANTY EXPRESS OR IMPLIED.

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. Notice of any claim must be reported to Niagara within 10 days of discovery by buyer or user, failing which buyer or user waives any claim for such damage.

EXCUSE FROM NON-CONTROLLABLE CONDITIONS: Because of certain critical conditions created or incurred by buyer or user or over which Niagara has no control, buyer and user, as a condition of purchase or use, assume responsibility for and release Niagara from, liability arising out of the handling or use of the product attributable to such causes. No person is authorized to vary or waive any statement contained herein.


Thiodan is a registered trademark of Canadian Hoechst Limited

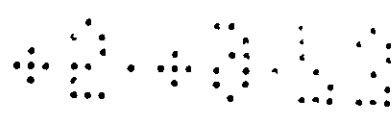


NIAGARA CHEMICAL DIVISION

FMC CORPORATION

MIDDLEPORT, N. Y. 14105





INSTRUCTIONS

The enclosed ~~1~~ pound NIAGARA SOL-U-BAGS* of THIODAN 50 WETTABLE POWDER are water soluble. Add the bags, without opening, directly to the spray tank during the filling operation. AVOID HANDLING BAGS WITH WET HANDS. To protect unused bags from moisture re-tie this polyethylene bag, close the carton and store in a dry place. Read front panel for safe handling and environmental protection.

DIRECTIONS FOR USE

NOT FOR USE OR STORAGE IN OR AROUND THE HOME.

ADDITIONAL USES for THIODAN 50 WP have been placed inside the carton.

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. In row crops apply in a minimum of 25 gallons per acre by ground and a minimum of 5 gallons of water per acre by aircraft, unless otherwise indicated. 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.

BEANS (3), (Succulent and Dry, Southern Field Peas): Black Bean Aphid, Bean Leaf Skeletonizer, Cucumber Beetles, Green Stink Bug, Mexican Bean Beetle, Cowpea Curculio—Use 1 to 2 lbs. per acre. Do not exceed 3 applications per season. 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. For control of Cowpea Curculio make 3 applications at 5 day intervals, starting when the pods are $\frac{1}{2}$ inch long.

BROCCOLI (7), **CABBAGE (7)**, **BRUSSELS SPROUTS (14)**, **CAULIFLOWER (14)**: Cabbage Aphid, Cabbage Looper, Imported Cabbage Worm, Diamondback Moth Larvae, Cross-striped Cabbage Worm, Flea Beetles, Harlequin Bugs, Stink Bugs—Use $1\frac{1}{2}$ to 2 lbs. per acre. Armyworm, Cutworm—Use 2 lbs. per acre.

CARROTS (7): Green Peach Aphid—Use 1 to 2 lbs. per acre. Do not use tops for food or feed. Do not exceed 2 applications per season. Do not plant root crops other than carrots, potatoes, sugar beets, and sweet potatoes as follow-up crops.

CELERY (4): Green Peach Aphid, Cabbage Looper—Use 1 to 2 lbs. per acre. Do not exceed 3 applications.—OR—(7): Green Peach Aphid—Use 1 lb. per acre. Unlimited number of applications.

COLLARDS (21): Cabbage Looper, Diamondback Moth Larvae, Harlequin Bug, Imported Cabbage Worm—Use $1\frac{1}{2}$ lbs. per acre. Do not exceed one application.

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

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—Use 1 to 2 lbs. per acre. For Vine Borer control, apply weekly to flower buds, stems, and vines beginning when moths first appear. For Cabbage Looper and Omnivorous Leaf Roller on Melons use 2 lbs. per acre.

EGGPLANTS (1): Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Green Stink Bug, Whitefly—Use 1 lb. per acre.

KALE (21): Cabbage Flea Beetle, Imported Cabbage Worm, Harlequin Bug—Use $1\frac{1}{2}$ lbs. per acre. Do not exceed one application per season.

LETTUCE (14): Cabbage Looper, Diamondback Moth Larvae, Green Peach Aphid, Imported Cabbage Worm—Use $1\frac{1}{2}$ to 2 lbs. per acre. On Head Lettuce, do not exceed 3 applications after thinning. Remove wrapper leaves at harvest. Do not feed crop refuse to livestock. On Leaf Lettuce, do not exceed 2 applications per season.

MUSTARD GREENS (21): Aphids, Cabbage Looper, Imported Cabbage Worm—Use $1\frac{1}{2}$ lbs. per acre. Do not exceed one application per season.

PEAS, succulent (0): Pea Aphid, Pea Weevil—Use 1 to 2 lbs. 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—Use 1 to 2 lbs. per acre. *1 day if no more than 1 lb. per acre is used.

POTATOES (0): Aphids, Colorado Potato Beetle, Green Stink Bug, Leaf-footed Bug, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Southern Armyworm, Whitefly—Use 1 to 2 lbs. per acre. European Corn Borer, Potato Psyllid—Use $1\frac{1}{2}$ to 2 lbs. per acre. False Chinch Bug—Use 2 lbs. per acre. Threelined Potato Beetle—Use 1 lb. per acre. Do not plant root crops other than carrots, potatoes, sugar beets, and sweet potatoes as follow-up crops.

PUMPKINS (0): Aphids, Cucumber Beetle, Squash Vine Borer—Use 1 to 2 lbs. per acre. For vine borer, apply weekly to flower buds, stems and vines, beginning when moths first appear.

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

SPINACH (21): Green Peach Aphid, Crown Mite—Use $1\frac{1}{2}$ lbs. per acre. Do not exceed one application per season.

STRAWBERRIES (4): Tarnished Plant Bug, Meadow Spittlebug, Strawberry Aphid—Use 2 lbs. per acre. Do not re-apply within 15 days or more than twice during any 35 day period when fruit is present. Cyclamen Mite—Thoroughly wet the foliage, stem, and crowns of the plant. For multiple applications, do not apply at intervals less than 35 days during the fruiting period. West Coast—Use 8 lbs. in 800 gals. water per acre. Other areas—Use 1 lb. per 100 gals.; 4 lbs per acre in 400 gals. of water.

SUGAR BEETS (30): Green Peach Aphid, Meadow Spittlebug—1 to 2 lbs. per acre; Sugar Beet Webworm— $1\frac{1}{2}$ to 2 lbs. per acre. Make 1 or 2 applications as needed for control. Do not feed treated tops to livestock. Do not plant root crops other than carrots, potatoes, sugar beets and sweet potatoes as follow-up crops.

SUNFLOWER (0): Sunflower Moth—Use 2 lbs. per acre. Do not exceed 3 applications. Make the first application at the onset of bloom and make two more applications at 4 to 7 day intervals. Do not feed treated forage to livestock.

SWEET POTATOES (South Central States Only): Banded Cucumber Beetle larvae (aids in control of)—Apply 2 to 4 lbs. per acre broadcast, or $\frac{3}{4}$ to $1\frac{1}{2}$ lbs. per acre in a 16 inch band over the row (48 inch spacing). Work into the soil to a depth of approximately 3 inches. A single treatment should be made just prior to plant set. Do not feed treated potatoes to livestock. Do not plant root crops other than carrots, potatoes, sugar beets, and sweet potatoes as follow-up crops.

TOBACCO (5): Budworm, Cabbage Looper, Flea Beetle, Green Peach Aphid, Hornworm—SEED BED: Use 1 lb. per 100 gals. Apply about 6 gallons of finished spray per 100 square yards. FIELD: Use 1 to 2 lbs. per acre to control above insects. For Stink Bugs—Use 2 to 3 lbs. per 100 gals. PLANT BED: Green June Bug Larvae—Use $\frac{1}{2}$ lb. per 100 gals. drenching at rate of 1 gal. per sq. yd.

TOMATOES (FIELD and GREENHOUSE) (1): Blister Beetles, Colorado Potato Beetle, Flea Beetles, Green Peach Aphid—Use 1 lb. per acre. Hornworm—Use 1 to 2 lbs. per acre. Tomato Fruitworm, Yellow-striped Armyworm—Use 2 lbs. per acre. Cabbage Looper, Stink Bugs—Use $1\frac{1}{2}$ to 2 lbs. per acre. Whitefly—Use 1 lb. per 100 gals.; 100 to 200 gals. per acre.

DOGWOOD, LILACS: Dogwood Borer, Lilac Borer—Use 1 to 2 lbs. per 100 gals. Apply in early June and repeat in 10 to 14 days. Drench all bark areas down to the ground level.

LEATHERLEAF FERN: Leatherleaf Fern Borer—Use 1 lb. per 100 gals. 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.

ORNAMENTALS (greenhouse & out of doors): Aphid, Cyclamen Mite, Rose Chafer, Whitefly—Use 1 lb. per 100 gals. On Chrysanthemums, best results will be obtained if applied before plants flower.

Do not use on Birch Trees. In greenhouse wear mask or respirator approved for Endosulfan protection.

TAXUS: Taxus Bud Mite—Use 1 lb. per 100 gals. Apply 3 to 5 applications beginning in mid-May. Spray foliage, twigs and bark. Black Vine Weevil—Use 2 lbs. per 100 gals. Spray thoroughly and drench soil under plants. Apply when weevils first appear. Repeat in 14 days.

*SOL-U-BAG—Trademark of FMC CORPORATION