Chevron

ORTHO

THIODAN® 50 Wettable

ACCEPTED
JUN 12 1974
UNDER THE FEDERAL INSECTICIDE FUNGICIDE AND RODENTICIDE ACT FOR ENVIRONMENTAL POISON REGISTRATION ED UNDER NO. ... SUBJECT TO ATTACHED COMMENTS.

DEC 14 1973 Pesticides Registration Division, EPA

(INSECTICIDE)

Active Ingredient	By Wt.
*Endosulfan	50%
Inert Ingredients	50%

*Hexachlorohexahydromethano-2,4,3-benzodioxathiepin oxide
U. S. Pat. No. 2,799,685

WARNING: **KEEP OUT OF REACH OF CHILDREN**

See back panel for additional warnings.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH WARNINGS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

KEEP PESTICIDE IN ORIGINAL CONTAINER. DO NOT PUT CONCENTRATE OR DILUTE INTO FOOD OR DRINK CONTAINERS.

BURN BAG IMMEDIATELY WHEN EMPTY. STAY OUT OF SMOKE.

DIRECTIONS

Not for use or storage in or around the home.

Apply when insects first appear and repeat as required to maintain effective control. Where amount is not indicated, use in sufficient water for thorough coverage. Coverage of both upper and lower leaf surfaces is essential for good control.

TERMINAL USE DATES: Unless otherwise specified, numbers shown in parenthesis ( ) indicate number of days which must be allowed between the last application and harvest or grazing.

APPLES (30). **Apple Aphid, Apple Rust Mite, Woolly Apple Aphid**—1 lb. per 100 gals. or 8 lbs. per acre. Do not apply more than twice during fruiting period. In state of WASHINGTON ONLY, reduce amount to ¾ lb. per 100 gals. or 6 lbs. per acre. **Apple Aphid, Rosy Apple Aphid**—1 lb. per 100 gals. or 4 to 5 lbs. per acre. (May increase amount per 100 gals. to 1½ lbs. in sprays prior to petal fall for apple aphid).

APPLES (21). **Apple Aphid, Rosy Apple Aphid**—1 lb. per 100 gals. or 4 to 5 lbs. per acre. Do not exceed 3 applications during the fruiting period. Pomace from treated apples should not be fed to livestock.

APRICOTS (30), **NECTARINES** (30), **PEACHES** (30) **Black Cherry Aphid, Black Peach Aphid, Rusty Plum Aphid**—1 lb. per 100 gals. or 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 (8 lbs. per acre on WEST COAST). **Lesser Peach Tree Borer**—1½ lbs. per 100 gals. **Peach Silver Mite**—½ lb. per 100 gals. or 4 to 5 lbs. per acre. Do not exceed 2 applications during fruiting period. For Lesser Peach Tree Borer control thorough wetting of trunks and main branches is important.

APRICOTS (21), **NECTARINES** (21), **PEACHES** (21). **Peach Tree Borer**—1½

CARROTS (7): **Green Peach Aphid**—1 to 2 lbs. per acre. Do not exceed 2 applications. Do not use tops for feed or food.

CELERY (7): **Green Peach Aphid**—1 lb. per acre.

CELERY (4): **Green Peach Aphid, Cabbage Looper**—1 to 2 lbs. per acre. Do not exceed 3 applications.

CHERRIES (21). **Eye-spotted Bug Moth, Fruit Tree Leaf Roller** (PACIFIC NORTHWEST ONLY)—1 lb. per 100 gals. For bud moth, apply during "popcorn" stage of growth; for leaf-roller, apply during pre-pink stage. **Black Cherry Aphid, Plum Nursery Mite**—1 lb. per 100 gals. or 4 to 5 lbs. per acre. **Lesser Peach Tree Borer**—1½ lbs. per 100 gals. or 4 to 5 lbs. per acre. Thorough wetting of trunks and main branches is important. **Peach Tree Borer**—1½ lbs. per 100 gals. (1 to 1½ lbs. on WEST COAST). Spray all bark areas from ground level to scaffold limbs. Time applications with moth flight. Do not exceed 2 applications after shuck split. **Mineola Moth** (MICHIGAN ONLY)—2 lbs. per 100 gals. Apply in delayed dormant period.

COLLARDS (21): **Cabbage Looper, Diamondback Moth Larvae, Harlequin Bug, Imported Cabbageworm**—1½ lbs. per acre. Do not exceed 1 application.

COTTON: **Cotton Leaf Perforator**—2 lbs. per acre. Do not apply after bolls open. Do not graze meat or dairy animals in treated fields. Do not plant root crops other than carrots, potatoes, sweet potatoes and [illegible] as follow-up crops.

CUCUMBERS (0), **SQUASH (SUMMER AND WINTER)** (0) **Aphids**—1 lb. per acre. **Cucumber Beetles, Melonworm, Pickleworm, Squash Beetle, Squash Bug, Squash Vine Borer, Striped Flea Beetle**—1 to 2 lbs. per acre. For Squash Vine Borer, apply weekly to flower buds, stems, and vines beginning when moths first appear.

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

ELMS (FOR USE IN NEW ENGLAND AREA ONLY) **Aphids, Elm Leaf Beetle** 2 lbs. per 100 gals. Apply when about 50 per cent of the Elm Leaf Beetle eggs from the overwintering generation have hatched. Repeat as necessary to maintain control.

FILBERTS (0) **Filbert Aphid, Filbert Leafroller**—1 lb. per 100 gals. or 3 to 4 lbs. per acre. Do not graze livestock in treated groves.

GRAPES (7) **Grape Leafhopper, Rose Chafer**—1 lb. per 100 gals. or 2 to 3 lbs. per acre. Do not use on Concord variety of grapes as injury is likely

(INSECTICIDE)

UNDER THE FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICIDE ACT FOR [illegible] POISON REGISTERED UNDER NO. [illegible] SUBJECT TO ATTACHED COMMENTS.

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Inert Ingredients	50%

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TERMINAL USE DATES: Unless otherwise specified, numbers shown in parenthesis ( ) indicate number of days which must be allowed between the last application and harvest or grazing.

APPLES (30). **Apple Aphid, Apple Rust Mite, Woolly Apple Aphid**—1 lb. per 100 gals. or 8 lbs. per acre. Do not apply more than twice during fruiting period. In state of WASHINGTON ONLY, reduce amount to $\frac{3}{4}$ lb. per 100 gals. or 6 lbs. per acre. **Apple Aphid, Rosy Apple Aphid**—1 lb. per 100 gals. or 4 to 5 lbs. per acre. (May increase amount per 100 gals. to $1\frac{1}{2}$ lbs. in sprays prior to petal fall for apple aphid.)

APPLES (21): **Apple Aphid, Rosy Apple Aphid**—1 lb. per 100 gals. or 4 to 5 lbs. per acre. Do not exceed 3 applications during the fruiting period. Pomace from treated apples should not be fed to livestock.

APRICOTS (30), **NECTARINES** (30), **PEACHES** (30): **Black Cherry Aphid, Black Peach Aphid, Rusty Plum Aphid**—1 lb. per 100 gals. or 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 (on WEST COAST). **Lesser Peach Tree Borer**—$1\frac{1}{2}$ lbs. per 100 gals. **Peach Silver Mite**—$\frac{1}{2}$ lb. per 100 gals. or 4 to 5 lbs. per acre. Do not exceed 2 applications during fruiting period. For Lesser Peach Tree Borer control, thorough wetting of trunks and main branches is important.

APRICOTS (21), **NECTARINES** (21), **PEACHES** (21): **Peach Tree Borer**—$1\frac{1}{2}$ lbs. per 100 gals. (1 lb. per 100 gals. on WEST COAST). Spray all bark areas from ground level to scaffold limbs.

BEANS (3), **SOUTHERN FIELD PEAS** (including black-eyed peas, crowder peas and southern peas) (3): **Bean Aphid, Bean Leaf Skeletonizer, Cowpea Curculio, Cucumber Beetles, Green Stink Bug, Mexican Bean Beetle**—1 to 2 lbs. per acre. For Cowpea Curculio on southern field peas, make 3 applications at 5-day intervals, starting when pods are one-half inch long. Do not exceed 3 applications per season. Do not use on lima beans that are to be removed from the field for processing. Do not feed threshings to livestock or allow to graze in treated fields.

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**—$1\frac{1}{2}$ to 2 lbs. per acre. **Armyworms, Cutworms**—2 lbs. per acre.

CARROTS (7): **Green Peach Aphid**—1 to 2 lbs. per acre. Do not exceed 2 applications. Do not use tops for feed or food.

CELERY (7): **Green Peach Aphid**—1 lb. per acre.

CELERY (4): **Green Peach Aphid, Cabbage Looper**—1 to 2 lbs. per acre. Do not exceed 3 applications.

CHERRIES (21). **Eye-spotted Bug Moth, Fruit Tree Leaf Roller** (PACIFIC NORTHWEST ONLY)—1 lb. per 100 gals. For bud moth, apply during popcorn stage of growth, for leaf roller, apply during pre-pink stage. **Black Cherry Aphid, Plum Nursery Mite**—1 lb. per 100 gals. or 4 to 5 lbs. per acre. **Lesser Peach Tree Borer**—$1\frac{1}{2}$ lbs. per 100 gals. or 4 to 5 lbs. per acre. Thorough wetting of trunks and main branches is important. **Peach Tree Borer**—$1\frac{1}{2}$ lbs. per 100 gals. (1 to $1\frac{1}{2}$ lbs. on WEST COAST). Spray all bark areas from ground level to scaffold limbs. Time applications with moth flight. Do not exceed 2 applications after shuck split. **Mineola Moth** (MICHIGAN ONLY)—2 lbs. per 100 gals. Apply in delayed dormant period.

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

COTTON: **Cotton Leaf Perforator**—2 lbs. per acre. Do not apply after bolls open. Do not graze meat or dairy animals in treated fields. Do not plant root crops other than carrots, potatoes, sweet potatoes and [illegible] on follow-up crops.

CUCUMBERS (0), **SQUASH (SUMMER AND WINTER)** (0). **Aphids**—1 lb. per acre. **Cucumber Beetles, Melonworm, Pickleworm, Squash Beetle, Squash Bug, Squash Vine Borer, Striped Flea Beetle**—1 to 2 lbs. per acre. For Squash Vine Borer, apply weekly to flower buds, stems, and vines beginning when moths first appear.

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

ELMS (FOR USE IN NEW ENGLAND AREA ONLY): **Aphids, Elm Leaf Beetle**—2 lbs. per 100 gals. Apply when about 50 per cent of the Elm Leaf Beetle eggs from the overwintering generation have hatched. Repeat as necessary to maintain control.

FILBERTS (0) **Filbert Aphid, Filbert Leafroller**—1 lb. per 100 gals. or 3 to 4 lbs. per acre. Do not graze livestock in treated groves.

GRAPES (7) **Grape Leafhopper, Rose Chafer**—1 lb. per 100 gals. or 2 to 3 lbs. per acre. Do not use on Concord variety of grapes as injury is likely to occur.

KALE (21) **Flea Beetle, Harlequin Bug, Imported Cabbageworm**—$1\frac{1}{2}$ lbs. per acre. Do not exceed 1 application.

LETTUCE, HEAD (14). **Cabbage Looper, Diamondback Moth Larvae, Green Peach Aphid, Imported Cabbageworm**—$1\frac{1}{2}$ to 2 lbs. per acre. Do not make more than 3 applications after thinning. Remove wrapper leaves at harvest. Do not feed crop refuse to livestock.

MACADAMIA NUTS (0) **Southern Green Stink Bug**—2 lbs. per 100 gals.

MELONS (0) **Aphids**—1 lb. per acre. **Cucumber Beetles, Melonworm, Pickleworm, Rindworm** (on Watermelons) **Squash Beetle, Squash Bug, Squash Vine Borer, Striped Flea Beetle**—1 to 2 lbs. per acre. **Cabbage Looper, Omnivorous Leaf Roller**—2 lbs. per acre. For Squash Vine Borer control apply weekly to flower buds, stems, and vines beginning when moths first appear.

MUSTARD GREENS TURNIP GREENS Aphids, Cabbage Looper Imported Cabbageworm

PEARS Consperse Stink Bug GROUND TREATMENT FOLIAR TREATMENT. Pear Rust Mite Pear Blister Mite

PEAS (SEED CROP ONLY) Pea Aphid, Pea Weevil

PEAS, SUCCULENT Pea Aphid, Pea Weevil

PECANS: Black Pecan Aphid Pecan Nut Casebearer Spittlebug

PEPPERS Flea Beetle, Green Peach Aphid, Hornworms, Pepper Maggot

PLUMS PRUNES Fruit-tree Leaf Roller Hop Aphid, Leaf Curl Plum Aphid, Thistle Aphid Lesser Peach Tree Borer Peach Tree Borer Peach Twig Borer Plum Nursery Mite

POTATOES Aphids, Armyworms, Colorado Potato Beetle, Green Stink Bug, Leaf-footed Bug, Plant Bugs Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Whitefly European Corn Borer, Potato Psyllid False Chinch Bug Three lined Potato Beetle

PUMPKINS Aphids Cucumber Beetle, Squash Vine Borer

SAFFLOWER: Green Peach Aphid

SPINACH Crown Mite, Green Peach Aphid

STRAWBERRIES Cyclamen Mite Meadow Spittlebug, Strawberry Aphid Tarnished Plant Bug

TREATMENT

STOP

DO NOT

DO NO

KEEP OUT OF REA

WARNING:

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

Apply

label

CONDITIONS OF SALE