

34704-21

PM-15



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Not Reviewed. Registrant claims to be in accordance with Reregistration of Pesticide Product Guidance for Phase 2 Response, Page 2.12, Active to Inert Change in Status.

# THIODAN® 3 EC

## ACTIVE INGREDIENTS:

\*Endosulfan (Hexachloroheptahydro-2,4,3-benzodioxathiepin-3-oxide) .. 33.3%

INERT INGREDIENTS: \* ..... 66.7%

TOTAL 100.0%

CONTAINS 3 POUNDS ENDOSULFAN PER GALLON

\*This product contains xylene range aromatics.

KEEP OUT OF REACH OF CHILDREN

**DANGER**  
**PELIGRO**



**POISON**

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada completamente.

See inside booklet for additional precautionary statements

NOT FOR USE OR STORAGE IN OR AROUND THE HOME

EPA REG. NO. 34704-21

Thiodan® is a Registered T.M. of Hoechst AG

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Fatal (poisonous) if swallowed, inhaled, or absorbed through skin. Avoid contact with skin, eyes or clothing. Do not breathe vapor. During mixing, loading, and application of this product wear unlined waterproof gloves and a pesticide mask or respirator jointly approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) for pesticide application under the provisions of 30 CFR Part 11 for protection against endosulfan. Do not apply or allow to drift to areas occupied by unprotected humans or beneficial animals. Wash thoroughly after handling and before smoking or eating. Remove contaminated clothing and wash before reuse.

### STATEMENT OF PRACTICAL TREATMENT

If swallowed, call a physician or Poison Control Center immediately. DO NOT INDUCE vomiting unless other treatment is not available. Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting give victim one or two glasses of water and insert finger in back of throat. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled, remove victim to fresh air. If victim is not breathing, give artificial respiration. Get medical attention.

If on skin, remove contaminated clothing and wash affected areas with soap and water.

If in eyes, flush with plenty of water. Call a physician immediately.

NOTE TO PHYSICIAN: Contains a light hydrocarbon solvent which presents aspiration hazard. Gastric lavage may be indicated if solvent was taken internally. This product contains endosulfan which is a central nervous system stimulant and may cause convulsions. There is no specific antidote. Barbituric acid derivatives may be used in treatment. Treat symptomatically.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Birds feeding on treated areas may be killed. Do not apply when weather conditions favor drift from treated areas. Do not apply directly to water or wetlands. Do not apply to any area not specified on the label. Do not contaminate water by cleaning of equipment or disposal of wastes.

This pesticide is toxic to bees exposed to direct application. Applications should be timed to coincide with periods of minimum bee activity, usually between late evening and early morning.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. When mixing, loading, and applying this product wear unlined waterproof gloves and a MSHA/NIOSH approved pesticide mask or respirator.

### REENTRY STATEMENT

Do not enter treated areas without appropriate protective clothing for 24 hours. Protective clothing means, at least, a hat or other suitable head covering, a long sleeved shirt and long legged trousers or a coverall type garment (all of closely woven fabric covering the body including the arms and legs), socks, and shoes. Because certain states may require more restrictive reentry intervals for various crops treated with this product, such as the 48 hour reentry interval established by California, 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 or areas or fields that may not be entered without specific protective clothing, period of time the 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:

### DANGER

Area treated with endosulfan on (insert date). Do not enter without appropriate protective clothing for 24 hours (insert State Department of Agriculture's re-entry date, if more restrictive).

In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to endosulfan and describe his condition.

If on skin, wash exposed 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. If victim is not breathing, give artificial respiration.

## STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly.

STORAGE: Do not store below temperature of 20°F. Store in safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment listed under "PRECAUTIONARY STATEMENTS" when handling open containers.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate 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: Metal: 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. Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

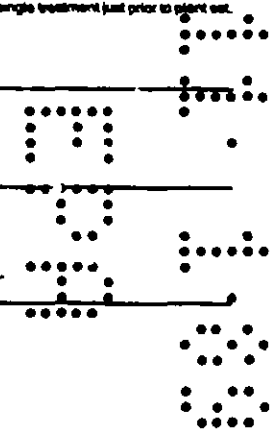
### APPLICATION DIRECTIONS

Apply the listed amount per acre when insects are present and repeat as required to maintain effective control. For ground application use a minimum of 10 gallons of water per acre insuring thorough coverage of the plants. Consult Extension service recommendations for concentrate spraying with this formulation. 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 deciduous trees and vines. Where more than 2 qts. of this material is recommended, mix with sufficient water to provide a minimum of finished spray equal to twice the amount of THIODAN 3 EC used. Do not plant root crops other than carrots, potatoes, sweet potatoes and sugar beets as follow-up crops. The number of days between last application and harvest is indicated by the number in ( ) following the crop.

### CHEMIGATION:

Refer to supplemental labeling entitled "APPLICATION THROUGH IRRIGATION SYSTEMS—CHEMIGATION" for use directions for chemigation. Do not apply this product through any irrigation systems unless the supplemental labeling on chemigation is followed.

| CROP   | PEST  | DOSE  | REMARKS   |
|--|---|---|---|
| Alfalfa, grown for forage (21)                                     | Meadow Spittlebug   | 2/3 qt/acre   | Apply 1 week after eggs begin to hatch or when first small masses of both are produced in the plant which is usually about the time the alfalfa is 4 to 6 inches tall. Apply in at least 10 gals. of water per acre by ground applicator or in at least 2 gals. of water per acre by airplane. Do not apply more than once per cutting. Do not graze or cut forage within 21 days of treatment. |
| Barley, Oats, Rye, Wheat   | Army Cutworm  | 2/3 qt/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 1.2 gals. diesel fuel oil per acre.   |
| Beans (3) succulent and dry (except Lima Beans)                    | Black Bean Aphid, Bean Leaf Skeletonizer, Cucurbit Beetles, Green Stink Bug, Mexican Bean Beetle  | 2/3 to 1 1/2 qts  | Do not exceed 3 applications per season. Do not feed freshings or allow livestock to graze in treated fields.   |
| Broccoli (7), Cabbage (7), Brussels Sprouts (14), Cauliflower (14) | Cabbage Aphid, Cabbage Looper, Cross-striped Cabbage-worm, Diamondback Moth Larvae, Flea Beetle, Harlequin Bug, Imported Cabbage worm, Stink Bug, Armyworms, Cutworms | 1 to 1 1/2 qt.<br>1 1/2 qt./acre  |   |
| Carrots (7)  | Green Peach Aphid   | 2/3 - 1 1/2 qts.  | Do not exceed 2 applications. Do not use tops for food or feed  |
| Celery (7)   | Green Peach Aphid   | 2/3 qt.   | No limit on the number of applications per season   |
| Celery (4)   | Green Peach Aphid, Cabbage Looper   | 2/3 - 1 1/2 qt.   | Do not exceed 3 applications.   |
| Cucumbers (3), Melons (3), Summer & Winter Squash (3)              | Aphid, Cucumber Beetles, Striped Flea Beetle, Melonworm, Pickleworm, Pinworm (on melonstem), Squash Beetle, Squash Bug, and Squash Vine Borer                         | 2/3 - 1 1/2 qts.  | For vine borer control, apply weekly to flower buds, stems and vines beginning when moths first appear. Pinworm is apparently a combination of feeding damage by cabbage loopers and certain other lepidopteran larvae.   |
| Eggplants (1)  | Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Green Stink Bug, Whitefly   | 2/3 qt.   | Do not exceed 0.5 pounds active ingredient per acre.  |
| Lettuce (14)   | Cabbage Looper, Green Peach Aphid, Diamondback Moth Larvae, Imported Cabbageworm  | 1 - 1 1/2 qts.  | Do not exceed 3 applications after thinning. Feed lettuce and remove outside leaves at harvest. Do not exceed 2 applications per season on leaf lettuce. Do not feed crop refuse to livestock.  |
| Peas, succulent (3)  | Pea Aphid, Pea Weevil   | 2/3 - 1 1/2 qts./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   | 2/3 - 1 1/2 qts.  | * 1 day of maximum of 2/3 quart/acre is applied.  |
| Potatoes (3)   | Aphids, Armyworms, Colorado Potato Beetle, Green Stink Bug, Leafhopper, Plant Bugs, Potato Flea Beetles, Potato Leafhopper, Potato Tuberworm, Whitefly                | 2/3 - 1 1/2 qts./acre   |   |
|  | European Corn Borer, Potato Psyllid, False Chinch Bug   | 1 - 1 1/2 qts./acre<br>1 1/2 qts./acre  |   |
|  | Three-lined Potato Beetle   | 2/3 qts./acre   |   |
| Spinach (21)   | Crown Mite, Green Peach Aphid   | 1 qt.   | Do not exceed one application   |
| Strawberries (4)   | Cyclamen Mite   | 2/3 qt/acre in 100 gals. of water/400 gals. water/acre  | Do not apply at intervals of less than 35 days when fruit is present  |
|  | Meadow Spittlebug, Strawberry Aphid, Turnip Plant Bug   | 1 1/2 qts./acre in 200 gals. of water   | Do not apply at intervals of less than 15 days or more than twice during any 35 day period when fruit is present.   |
| Sugar Beets (30)   | Green Peach Aphid   | 2/3 to 1 1/2 qts.   | Do not feed treated tops to livestock   |
|  | Meadow Spittlebug   | 2/3 qt.   |   |
|  | Sugar Beet Webworm  | 1 to 1 1/2 qt.  |   |
| Sunflower (3)  | Sunflower Moth  | 1 1/2 qts./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 (3)                           | Corn Leaf Aphid   | 1 1/2 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 allow to graze in treated fields.   |
|  | Corn Earworm  | 2 qts.  |   |
| Sweet Potatoes (3)   | Sweet Potato Flea Beetle  | 2 1/2 qt./acre  | Begin applications shortly after transplanting or as soon as flea beetles appear.   |
|  | Banded Cucumber Beetle Larvae (also in control of, and for use in South Central States only)  | 1 1/2 to 2 2/3 qts./acre broadcast or 2/3 to 1 1/2 qts./acre in a 16" band over the row (48" spacing)       | 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.   |
| Tobacco (5)  | Flea Beetle, Hornworm, Budworm, Green Peach Aphid, Cabbage Looper   | FIELD: 2/3 to 1 1/2 qts.<br>SEED BED: Mite 2/3 qt./100 gals. of water and apply 6 gals. spray/100 sq. yards |   |
|  | Green June Bug Larvae   | Use 1/2 qt/100 gals. of water and drench plant bed with 1 gal. spray/100 sq. yd.                            |   |
|  | Stink Bug   | Use field application of 1 1/2 to 2 qts./100 gals.  |   |
| Tomatoes (Field & Greenhouse)                                      | Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid  | 2/3 qt.   |   |
|  | Hornworms   | 2/3 to 1 1/2 qt.  |   |
|  | Tomato Pinch Mite, Tomato Fruitworm, Yellow striped Armyworm  | 1 1/2 qts.  |   |
|  | Stink Bugs  | 1 to 1 1/2 qts.   |   |
|  | Cabbage Looper  | 1 qt.   |   |
|  | Whitefly  | 2/3 qt/100 gals. in 100 to 200 gals. of water   |   |



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| Apples (30)  | Apple Aphid, Rosy Apple Aphid  | 2 1/2 qt./100 gals. of water or 2 1/2 to 3 1/2 qts./acre   | Do not feed ponies from treated apples to livestock. Do not exceed 2 applications during the fruiting period. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.  |
|  | Apple Rust Mite  | 1 qt. to 2 1/2 qt./100 gals. of water or 1 qt. to 3 1/2 qts./acre  |  |
| Cherry (21)  | Plum Rust Mite   | 2 1/2 qt./100 gals. or 2 1/2 to 3 1/2 qts./acre  | Do not exceed 2 applications after shuck split. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.  |
|  | Minors Moth (Michigan only)  | 1 1/2 qts./100 gals. applied in delayed dormant period   |  |
| Peaches (30), Apricots (30) Nectarines (30)                  | Black Cherry Aphid, Rusy Plum Aphid, Black Peach Aphid, Cat facing insect, Green Peach Aphid, Peach Tree Borer | 2 qt./100 gals. or 2 1/2 to 3 1/2 qts. per acre  | Do not exceed 2 applications during fruiting period. For Lesser Peach Tree Borer, thorough wetting of trunk and main branches is important. For foliar application, do not apply more than twice per season. Do not feed cull fruits to animals nor allow livestock to graze treated orchards. |
|  | Lesser Peach Tree Borer  | 1 qt./100 gals.  |  |
|  | Peach Tree Silver Mite   | 1/2 qt./100 gals. or 2 1/2 to 3 1/2 qts./acre  |  |
|  |  |  |  |
| Plums (7), Prunes (7)  | Lesser Peach Tree Borer  | 1 qt./100 gals. or 2 1/2 to 3 1/2 qts./acre  | Apply spray to thoroughly wet trunk and main branches. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.   |
|  | Peach Tree Borer   | 1 qt./100 gals. or 2 1/2 to 3 1/2 qts./acre  |  |
| Cherry, Peach Plum Nursery Stock Dip                         | Peach Tree Borer   | 2 1/2 qts./40 gals. of water   | Thoroughly wet. Invert the bundles of trees so that the roots and crown are covered well above the grafting bud scar. Plant immediately, or dry before returning to storage. Wear rubber gloves when dipping.  |
| Grapes (7)   | Grape Leafhopper   | 2 1/2 qt./100 gals. or 1 1/2 to 2 qts./acre  | Do not apply to Concord variety as severe injury is likely to occur.   |
|  | Rose Chaffer   | 2 1/2 qt./100 gals.  |  |
| Pears (7)  | Conspicuous Stink Bug  | GROUND TREATMENT: Use 2 1/2 qt./100 gals. 200-400 gals./acre applied to orchard floor & ground around trees prior to bloom.<br><br>FOLIAR TREATMENT: Use 2 1/2 qt./100 gals. or 2 1/2 to 3 1/2 qts./acre | Do not graze livestock in treated orchard.<br><br>Stink Bugs must be wet to obtain control. The rate for a foliar treatment on stink bug control is 30 days. Do not apply more than once per season. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.         |
|  | Pear Rust Mite   | 2 1/2 qt./100 gals.  |  |
|  | Pear Leaf Blister Mite   | 1/2 - 2 1/2 qt./100 gals. applied as a postharvest or dormant treatment.   | Do not feed cull fruits to animals nor allow livestock to graze treated orchards.  |
|  | Pear Psylla  | To control second generation pear psylla use 1 qt./100 gals. not to exceed 330 gals. of spray/acre   | Apply when nymphs are small and repeat if necessary in 7 to 10 days. Do not exceed 2 applications during the fruiting period. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.  |
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| Pecans   | Black Pecan Aphid  | 1 qt./100 gals.  | Do not apply after shuck split. Do not graze livestock on orchard crops or grasses in the treated areas.   |
| Ornamentals (greenhouse & out of doors)                      | Aphids, Cyclamen Mite, Whitefly, Rose Chalcids   | 2 1/2 qt./100 gals.  | On chrysanthemums, best results will be obtained if applied before plants flower. Do not apply to "Bonnie Deluge", "Fred Shoemaker", and "White Knight" chrysanthemums as injury may result. Do not use on birch trees.  |
| Pines (Austrian, Jack Red, Scotch, White) (Ornamentals only) | Zimmerman Pine Moth  | 1 qt./100 gals.  | Apply in mid-April and again if necessary in late fall. Thoroughly wet bark and main stem, especially where branches join main stem.   |
| Shade Trees (except Birch) Shrubs (Ornamentals only)         | Aphids   | 2 1/2 qt./100 gals.  |  |
| Box Elder (Ornamentals only)                                 | Box Elder Bug  | 2 qts./100 gals.<br>(2 lbs./gal.)  | Spray foliage and trunk when insects first appear. Repeat as required. In late summer or fall spray tree trunks, outside walls, fences and other places where bugs congregate.   |
| Dogwood (Ornamentals only)                                   | Dogwood Borer  | 2 1/2 to 1 1/2 qts./100 gals.  | Apply in early June and repeat in 10 to 14 days. Drench all bark areas down to the ground level.   |
| Lilac (Ornamentals only)                                     | Lilac Borer  |  |  |
| Taxus (Ornamentals only)                                     | Taxus Bud Mite   | 2 1/2 qt./100 gals.  | Apply 3 to 5 applications beginning in mid-May. Thorough treatment of foliage, hedges and bark is essential.   |
|  | Black Vine Weevil  | 1 1/2 qts./100 gals.   | Spray thoroughly and drench soil under plants. Apply when beetles first appear. Repeat in 14 days.   |

**Disclaimer**

It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Platte Chemical Co. Platte Chemical Co. warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks set forth above. Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential damages.

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FORMULATED FOR  
**PLATTE CHEMICAL CO.**  
150 SO. MAIN STREET      FREMONT, NEBRASKA 68025

