

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO. 16-141	DATE OF ISSUANCE JAN 24 1986
	TERM OF ISSUANCE Until Reregistration	
	NAME OF PESTICIDE PRODUCT Imacon Chloran Insect Spray	
NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</i>		
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
 Drexon Chemical Company P. O. Box 7311 Roanoke, VA 24016		
NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.		
On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.		
A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.		
Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.		
This product is conditionally registered in accordance with FIFRA Section 3(c)(7)(A) provided that you:		
1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.		
2. Make the labeling changes listed below before you release the product for shipment:		
(a) Add the phrase "EPA Reg. No. 16-141".		
(b) The heading "ACTIVE INGREDIENT" must be in the same type size and in the same alignment to the left margin as the heading "INERT INGREDIENTS". Note use of "ACTIVE INGREDIENT" rather than "ACTIVE INGREDIENTS" since there is only one declared. Also, the last word in the formula name should be "3-oxide" rather than just "oxide".		
(c) Relocate "This product contains aromatic petroleum solvent" to appear as a footnote directly under the front panel ingredients statement.		
<input checked="" type="checkbox"/> ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICIAL		DATE

- (d) We suggest the following revised Statement of Practical Treatment, however, if your toxicological data suggests otherwise, submit a draft of your proposed revisions for Agency approval:

If swallowed - Call a physician or Poison Control Center immediately.
DO NOT INDUCE VOMITING. Vomiting may cause aspiration pneumonia.

If inhaled - Remove victim to fresh air. Apply artificial respiration if indicated.

If on skin - Remove contaminated clothing and wash affected areas with soap and water.

If in eyes - Flush eyes with plenty of water. Call a physician immediately.

Note to Physician - Thiodan is a central nervous system stimulant. There is no specific antidote. Treat symptomatically. Barbituric acid derivatives may be used for treatment. Solvent presents aspiration hazard. Gastric lavage may be indicated if material was taken internally.

- (e) In the Hazards to Humans & Domestic Animals section, revise "Harmful if swallowed,..." to "May be fatal if swallowed,..."
- You may delete first aid advice from this section since it already appears in the Statement of Practical Treatment. Specifically, you may delete "in case of contact...get medical [medical] treatment."
- (f) Revise "Wear clean clothing" to "Wash contaminated clothing with soap and hot water before reuse." in the Hazards to Humans text.
- (g) This is a homeowner garden use product that does not require the farmworker safety precautionary text. Delete from "Do not apply..." to "... protective clothing."
- (h) Revise the respirator advice to read "During mixing, loading, and spraying wear unlined rubber gloves and a pesticide respirator jointly approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) for protection against endosulfan."
- [NOTE: The respirator statement under the greenhouse use should be revised to show the correct names for the regulating Agencies.]
- (i) Add as the last sentence of the Hazards to Humans & Domestic Animals text: "Food utensils such as tablespoons must not be used for food purposes after use for measuring pesticides."

- (j) Revise "Keep out of lakes streams or ponds" to "Do not apply directly to water or wetlands".
- (k) Label directions cannot call for use of more material than is available in an intact container as marketed. Either delete the conversion table for large area use or revise so that it shows maximum area use for each available container size. Likewise, individual site directions for peaches, apricots, and nectarines; greenhouses; and pecans must reflect the actual container size (i.e. no directions for use of 2/3 gallon or 1 gallon on other than the one gallon container size).
- (l) The directions for use on apples, apricots, cherries, nectarines, peaches, pears, plums, and prunes must include the following as the last sentence for each use site:
- "Do not feed cull fruits to animals nor allow livestock to graze treated orchards."
- (m) Add as the last sentence of the directions for use on eggplants:
- "Do not exceed 0.5 pounds active ingredient endosulfan per acre."
- (n) A one day pre-harvest interval is required for use on pumpkins. Revise "(0)" to "(1)" after the crop name and add the following:
- "Do not apply within one day of harvest."
- (o) Revise the last sentence of the directions for use on pecans to read:
- "Do not graze livestock on orchard crops or grasses in treated areas."
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.
4. Results of a one year storage stability study for this specific formulation must be submitted within eighteen months of the date of this Notice.
5. A specification sheet for the stabilizer you are using must be submitted. If your supplier elects to submit this information directly to the Agency, he must include your product's name and EPA Reg. No. in his cover letter to ensure correct processing and filing.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

FRONT PANEL

DRACON[®]
THIODAN[®] INSECT SPRAY

Controls 70 insects on listed vegetables, fruits & ornamentals

ACTIVE INGREDIENTS:

Endosulfan (hexachlorohexahydromethano - 2,4,3-benzodioxathiepin
oxide)9.9%

INERT INGREDIENTS: 90.1%

This product contains 3/4 lbs. endosulfan per gallon.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JAN 24 1966

Under the Fungicide, Insecticide and
as amended. registered under EPA Reg. No.
16-14

KEEP OUT OF REACH OF CHILDREN

WARNING

(see back panel for additional precautionary statements.)

NET CONTENTS 32 FL. oz. (1 QT)

BACK PANEL

STATEMENT OF PRACTICAL TREATMENT

THIS PRODUCT CONTAINS AROMATIC PETROLEUM SOLVENT

IF SWALLOWED: Call a physician immediately. Gastric lavage is indicated if material was taken internally. 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. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

IF INHALED: Remove victim to fresh air. Apply respiration if indicated.

IF ON SKIN: Wash immediately with soap and water.

IF IN EYES: Flush eyes for at least 15 minutes with water. Call a physician immediately.

NOTE TO PHYSICIAN: Thiodan is a central nervous stimulant. Treat symptomatically. There is no specific antidote. Barbituric acid derivatives may be used in treatment.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING: Harmful if swallowed, inhaled or absorbed through skin. Do not breathe spray mist. Avoid contact with skin, eyes or clothing. In case of contact, immediately remove contaminated clothing and flush skin or eyes with plenty of water, for eyes, get medical attention. Wash with soap and water after handling and before eating or smoking; wear clean clothing. Avoid contamination of feed and foodstuffs. Do not apply or allow to drift to areas occupied by unprotected humans or beneficial animals. WARNING: Workers entering treated fields within 24 hours should wear protective clothing. During commercial or prolonged exposure in spray-mixing and loading operations wear clean synthetic rubber gloves and a pesticide respirator jointly approved by the Mining Enforcement and Safety administration (formerly the U.S. Bureau of Mining and by the National Institute for occupational Safety and Health under the provisions of 30 CFR Part 11.

ENVIRONMENTAL HAZARDS

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

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

STORAGE & DISPOSAL

STORAGE: Store in original container in an area inaccessible to children and pets. Do not use or store near heat or open flame. Do not store near feed or foodstuffs.

PESTICIDE DISPOSAL: Product remaining in original container should be disposed of by securely wrapping original container in several layers of newspaper and discarding in TRASH.

CONTAINER DISPOSAL: Do not re-use empty container. Securely wrap in newspaper and discard in trash.

NOTICE

Buyer assumes all risks of use, storage or handling of this material not in strict accordance with DIRECTIONS FOR USE & PRECAUTIONARY STATEMENTS stated on this label.

SEE COMPLETE DIRECTIONS FOR USE IN ATTACHED PAMPHLET.

EPA Reg. No. 16-XXXX

16-VA-1
EPA Est. ~~11561-17-1~~

THIODAN[®] is a registered Trademark of Canadian Hoechst, Ltd. U.S. Patent No. 2,799,685

manufactured
~~Distributed~~ by

DRAGON CHEMICAL CORPORATION
Roanoke, Virginia 24019

PAMPHLET

DRAGON
THIODAN[®] INSECT SPRAY

A broad-spectrum insect spray that kills 70 listed insects on vegetables, fruits & ornamentals. Thiodan is recommended by many state extension services.

READ ALL WARNINGS AND PRECAUTIONS ON THE CONTAINER BEFORE USING THIS PRODUCT.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

In the garden, apply DRAGON Thiodan when insects first appear and repeat as required to maintain effective control. Coverage of both upper and lower leaf surfaces is essential for good control. Approximate 1 gallon of dilute spray will be required per 100 feet of row. Follow the time intervals between last application and harvest indicated by number in () following the crop. If insect control is required beyond the listed time interval, supplement the control program with other suitable DRAGON pesticides.

VEGETABLES

BEANS (3 days): To control black bean aphid, bean leaf skeletonizer, cucumber beetle, green stink bug, Mexican bean beetle, and western bean cutworm, apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water. Do not exceed 3 applications per season. Do not feed threshing or allow livestock to graze in treated fields. Do not use on lima beans that are to be removed from the field for commercial processing.

BROCCOLI and CABBAGE (7 days) Brussels Sprouts and Cauliflower (14 days):

To control cabbage aphid, cabbage looper, cross-striped cabbageworm, diamond-back moth larvae, flea beetle, harlequin bug, imported cabbageworm, stink bug, armyworms and cutworms, apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water.

CARROTS (7 days): To control aphids, apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water. Do not exceed 2 applications. Do not use tops for food or feed.

CELERY (4 days): To control cabbage looper, apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water. For green peach aphid, apply 1-1/3 Tbs. (2/3 oz) per gallon of water. Do not exceed 3 applications per season on celery.

COLLARDS, KALE, MUSTARD GREENS, SPINACH (21 days): To control aphids, cabbage flea beetle, cabbage looper, diamond-back moth larva, harlequin bug, imported cabbageworm, and crown mite (on Spinach), apply 2 Tbs. (1 oz.) per gallon of water. Do not exceed 1 application.

CORN, SWEET, FRESH VEGETABLE USE ONLY (May be applied up to day of harvest): To control corn leaf aphids, apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water. To control corn earworm, apply 4 Tbs. (2 oz.) per gallon of water. 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 commercially processed. Do not feed treated foliage or ensilage to livestock or allow to graze in treated fields.

CUCUMBERS, PUMPKINS, MELONS, SUMMER AND WINTER SQUASH (May be applied up to and including day of harvest): To control aphids, cucumber beetles, striped flea beetle, melonworm, pickleworm, rindworm (on water-melons), squash beetle, squash bug and squash vine borer, apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water. 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, apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water.

EGGPLANTS (1 day): To control Colorado potato beetle, flea beetle, aphids, and whitefly, apply 1-1/3 Tbs. (2/3 oz.) per gallon of water.

LETTUCE (14 days): To control aphids, cabbage looper, diamond-back moth larvae and imported cabbageworm, apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water. 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.

PEPPERS (4 days*): To control aphids, flea beetles, hornworms, and peppe maggot, apply 1-1/3 to 2-2/3 Tbs. (2/3 to 1-1/3 oz.) per gallon of water. (* One day time intervals if maximum of 1-1/3 Tbs. (2/3 oz.) per gallon of water is used.)

POTATOES (May be used up to day of harvest): To control aphids, armyworm: Colorado potato beetle, stink bug, leaf-footed bug, potato flea beetle, potato leafhopper, potato tuberworm, potato psyllid, European corn borer, false chinch bug, three-lined potato beetle and whitefly apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water. Do not plant root crops, other than carrots, potatoes, sugar beets and sweet potatoes as follow-up crops.

SOUTHERN PEAS (Cowpea, blackeye, crowder) (3 days): To control cowpea curculio, apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water. Make 3 applications at 5 day intervals starting when pods are 1/2 inch long.

SWEET POTATOES (May be used up to day of harvest): To control sweet potato flea beetle, apply 1-1/3 Tbs. (2/3 oz.) per gallon of water. Begin applications shortly after transplanting or as soon as flea beetle appear. To control banded cucumber beetle larvae (aids in control of, and for use in South Central states only), apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water. Broadcast the spray and 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.

TOMATOES (1 day): To control blister beetles, Colorado potato beetle, flea beetle and aphids, apply 1-1/3 Tbs. (2/3 oz.) per gallon of water. To control hornworms, tomato russet mite, tomato fruit-worm, yellow-striped armyworm, stink bug, cabbage looper and whitefly, apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water.

CONVERSION TABLE FOR LARGE AREA USE: 2-2/3 Tbs. per gallon of water applied to 100 feet of row is equivalent to 1-1/3 gallons of product per acre. 3 tsp. = 1 Tablespoon (Tbs.) = 1/2 ounce (oz.).

FRUITS

APPLES (30 days): To control apple aphids, rosy apply aphids, apple rust mite, apply 2/3 gallon per 100 gallons water (1-1/3 Tbs. (2/3 oz.) per gallon) and spray entire tree thoroughly. Do not feed pomace from treated apples to livestock. Do not exceed 2 applications during the fruiting period.

BLUEBERRIES (postharvest): To control blueberry bud mite, apply 2 gallons in 300 gallons of water (1-2/3 Tbs. (4/5 oz.) in one gallon).

Apply immediately after harvest and repeat 6 to 8 weeks later.

Do not apply after buds are well formed.

CHERRIES (21 days): To control black cherry aphid, plum rust mite apply 1-1/3 Tbs. (2/3 oz.) per gallon of water and spray entire tree thoroughly. Do not exceed 2 applications after shuck split. To control mineola moth in Michigan only, apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water at the delayed dormant stage; do not exceed 2 applications after shuck split.

PEACHES, APRICOT, NECTARINES (30 days): To control black cherry aphids, black peach aphid, green peach aphid, peach twig borer, rusty plum aphid, and peach silvermite, apply 2/3 gallon per 100 gallons water (1-1/3 Tbs. (2/3 oz.) per gallon) and spray entire tree thoroughly. To control catfacing insects (stink bug type), apply 2/3 gallon per 100 gallons water (1-1/3 Tbs. (2/3 oz.) per gallon). Apply at petal-fall and at shuck-off. Do not exceed 2 applications during the fruiting period. To control peach tree borer and lesser peach tree borer, apply 1 gallon per 100 gallons water (2 Tbs. (1 oz.) per one gallon). Spray thoroughly to cover all bark areas from ground to scaffold limbs. For lesser peach tree borer, thoroughly wet trunk and main branches. Usually 2 applications are required, one immediately after harvest and a second 3 to 4 weeks later.

PLUMS, PRUNES (7 days): For control of peach tree borer and lesser peach tree borer, follow directions above.

PUMPKINS (0): To control aphids, cucumber beetles, squash vine borer, striped flea beetle apply 2-2/3 Tbs. (1-1/3 oz.) per gallon of water. For squash vine borer, apply weekly to flower buds, stems and vines beginning when moths first appear.

STRAWBERRIES (4 days): To control cyclamen mite, apply 5-1/3 Tbs. (2-2/3 oz.) in 3 gallons water applied to 100 feet of row. Do not reapply within 35 days when fruit is present. To control meadow spittlebug, strawberry aphid and tarnished plant bug, apply 2-2/3 Tbs. (1-1/3 oz.) in 1-1/2 gallons of water applied to 100 feet of row. Do not reapply within 15 days or more than twice within a 35-day period when fruit is present.

ORNAMENTALS & FLOWERS

OUT-OF-DOORS: To control aphids, cyclamen mites, whitefly and rose chafer, apply 1-2/3 Tbs. (4/5 oz.) per gallon of water. On chrysanthemums, best results will be obtained if applied before plants flower. Do not apply to "Bonnafon Deluxe", "Fred Shoemith", and "White Knight" chrysanthemums as injury may result. Do not use on birch trees.

SHADE TREES (except birch), SHRUBS: To control aphids apply 1-2/3 Tbs. (4/5 oz.) per gallon of water.

PINE (Austrian, Jack, Red, Scotch, White): To control Zimmerman pine moth, apply 2-1/2 Tbs. per gallon of water. Apply in mid-April and again if necessary in late fall. Thoroughly wet bark and main stem, especially where branches join main stem.

DOGWOODS: To control Dogwood Borer, apply 1-2/3 Tbs. per gallon of water. Apply to trunk and lower limbs in May and June before borers enter the trunk. Apply thoroughly, particularly to injured areas and old borer wounds. Repeat applications 2 to 3 times at 10 day intervals.

BOX ELDER: To control Box elder bug, apply 5-1/3 Tbs. (2-2/3 oz.) per gallon of water. Spray foliage and trunk when insects first appear.

Repeat as required in late summer or fall, spray trunks, outside walls, fences and other places where bugs congregate.

TAXUS To control taxus bud mite, apply 1-2/3 Tbs. (4/5 oz.) per gallon of water. Apply 3 to 5 applications beginning mid-May. Thorough treatment of foliage, twigs and bark is essential.

GREENHOUSE

To control aphids, cyclamen mite, whitefly apply 2/3 gallon per 100 gallons water, 1-1/3 Tbs. (2/3 oz.) per gallon. Wear a mask or respirator passed by the Mining & Safety Administration and the National Institute for Occupational Safety for endosulfan (THIODAN) protection under the provisions of 30 CFR Part 11.

PECANS

To control black pecan aphid apply 2/3 gallon per 100 gallons water (1-1/3 Tbs. per gallon). Do not apply after shuck split. Do not graze livestock in treated groves.

Manufactured
Distributed by
Dragon Chemical Corporation
Roanoke, VA 24019

List of 70 Insects controlled by Dragon Thiodan Insect Spray
(for EPA use in reviewing label only)

Aphids	Rosy Apple Aphid
Apple Aphid	Rusty plum Aphid
Apple rust mite	Squash beetle
Armyworms	Squash Bug
Banded cucumber beetle larvae	Squash Vine borer
Bean leaf skeletonizer	Stink Bugs
Black bean Aphid	Strawberry Aphid
Black cherry Aphid	Striped Flea beetle
Black peach Aphid	Sweet Potato Flea beetle
Blister Beetle	Tarnished Plant bug
Blueberry bud mite	Taxus budmite
Box Elder bug	Threelined Potato Beetle
Cabbage Aphid	Tomato Fruitworm
Cabbage flea beetle	Tomato Russet Mite
Cabbage looper	Western bean cutworm
Colorado Potato Beetle	Whitefly
Corn earworm	Yellow-striped armyworm
Corn Leaf Aphid	Zimmerman pine moth
Cowpea curculio	
Cross-striped Cabbage worm	
Crown mite	
Cucumber beetles	
Cutworm	
Cyclamen mite	
Diamond Black Moth Larvae	
Dogwood Borer	
European corn borer	
False Chinch Bug	
Flea Beetles	
Green Peach Aphid	
Green Stink bug	
Harlequin Bugs	
Hornworms	
Imported Cabbage Worm	
Leaf-footed bug	
Lesser Peach tree borer	
Meadow spittlebug	
Melonworm	
Mexican Bean Beetle	
Omnivorous Leaf Roller	
Peach Silvermite	
Peach Tree borer	
Peach twig borer	
Pepper Maggot	
Pickleworm	
Plum rust mite	
Potato Flea beetle	
Potato leafhopper	
Potato Psyllid	
Potato Tuberworm	
Rindworms	
Rose Chafer	