

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input checked="" type="checkbox"/> Amendment <input type="checkbox"/> Other	OPP Identifier Number 196876
	Application for Pesticide:		

Section I

1. Company/Product Number 16-141	2. EPA Product Manager LaRocca	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) DRAGON Thiodan Insect Spray	PM# 13	
5. Name and Address of Applicant (Include ZIP Code) Dragon Corporation P. O. Box 7311 Roanoke, VA 24019 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section II

<input type="checkbox"/> Amendment - Explain below <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - explain below.
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Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Compliance with PR Notice 93-3: Statement Prohibiting Application to Water

**NOTIFICATION
LABEL NOT REVIEWED
PER PR NOTICE 93-3**

DATE 8/3/93

Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input checked="" type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted.		If "Yes," Unit Package wgt.	No. per container	If "Yes," Package wgt.	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container 8 oz / 1PT / 1QT		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner In Which Label Is Affixed To Product <input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Other (_____) <input type="checkbox"/> Stenciled					

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Rebecca M. Horton	Title Executive Assistant	Telephone No. (Include Area Code) (703) 362-3657

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.				6. Date Application Received (Stamped)
2. Signature 	3. Title Executive Assistant			
4. Typed Name Rebecca M. Horton	5. Date 7-6-93			

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[FRONT PANEL]

**DRAGON®
THIODAN® INSECT SPRAY**

**NOTIFICATION
LABEL NOT REVIEWED
PER PR NOTICE 88-8
DATE. 8/3/93**

Controls 70 insects on listed vegetables, fruits and ornamentals.

ACTIVE INGREDIENT:	BY WT.
Endosulfan (hexachlorohexahydromethano- 2,4,3-benzodioxathiepin 3-oxide)	9.9%
INERT INGREDIENTS:	<u>90.1%</u>
TOTAL:	100.0%

This product contains aromatic petroleum solvent.
This product contains 3/4 lbs. endosulfan per gallon.

**Keep Out of Reach of Children
WARNING**
See back panel for additional precautionary statements

NET CONTENTS 8 OZ / 1 PT / 1 QT

[BACK PANEL]

STATEMENT OF PRACTICAL TREATMENT

- 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 in treatment. Solvent presents aspiration hazard. Gastric lavage may be indicated if material was taken internally.

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

- WARNING:** May be fatal if swallowed, inhaled or absorbed through skin. Do not breathe spray mist. Avoid contact with skin, eyes or clothing. Wash with soap and water after handling and before eating or smoking. Wash contaminated clothing with soap and hot water before reuse. Avoid contamination of feed and foodstuffs. Food utensils such as tablespoons must not be used for food purposes after use for measuring pesticides.
- WARNING:** 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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Birds feeding on treated areas may be killed. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

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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 reuse 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 DIRECTION'S FOR USE and PRECAUTIONARY STATEMENTS stated on this label.

SEE COMPLETE DIRECTIONS FOR USE IN ATTACHED PAMPHLET.

Thiodan® is a registered trademark of Canadian Hoechst, Ltd., U.S. Patent No. 2,799,685.

Manufactured by
DRAGON CORPORATION
Roanoke, VA 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. Approximately 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.

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COLLARDS, KALE, MUSTARD GREENS, SPINACH (21 days): To control aphids, cabbage flea beetle, cabbage looper, diamond-back moth larvae, 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, 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 watermelons), 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 flower buds, 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. Do not exceed 0.5 pounds active ingredient endosulfan per acre.

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 pepper maggot apply 1 1/3 to 2 2/3 Tbs. (2/3 to 1 1/3 oz.) per gallon of water. [*1 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, armyworms, 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 beetles 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 beetle, 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 fruitworm, yellow-striped armyworm, stink bug, cabbage looper and whitefly apply 2 2/3 Tbs. (1 1/3 oz.) per gallon of water.

CONVERSION TABLE: 3 Tsp. = 1 Tablespoon (Tbs.) = 1/2 ounce (oz.)

FRUITS

APPLES (30 days): To control apple aphids, rosy apple aphids, apple rust mite, apply 2 2/3 gallons per 1000 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. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.



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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. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.

PEACHES, APRICOTS, 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. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.

PLUMS, PRUNES (7 days): For control of peach tree borer and lesser peach tree borer, follow directions above. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.

PUMPKINS (1): 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. Do not apply within one day of harvest.

STRAWBERRIES (4 days): To control cyclamen mite, apply 5 1/3 Tbs. (2 2/3 oz.) in 3 gallons of water applied to 100 feet of row. Do not reapply within 35 days when fruit is present. To control meadow spittle bug, strawberry aphids 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 3-5 applications beginning mid-May. Thorough treatment of foliage, twigs and bark is essential.

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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 Mine Safety & Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) 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 on orchard crops or grasses in treated areas.

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

- | | | |
|------------------------------|--------------------------|------------------------|
| Aphids | Apple aphid | Apple rust mite |
| Armyworm | Banded cucumber beetle | Bean leaf skeletonizer |
| Black bean aphid | larvae | Black cherry aphid |
| Black peach aphid | Blister beetle | Blueberry bud mite |
| Box elder bug | Cabbage aphid | Cabbage flea beetle |
| Cabbage looper | Colorado potato beetle | Cowpea curculio |
| Cross-striped
cabbageworm | Corn earworm | Corn leaf aphid |
| Crown mite | Cutworm | Cucumber beetle |
| Diamond black moth
larvae | Dogwood borer | Cyclamen mite |
| Green peach aphid | False chinch bug | European corn borer |
| Hornworms | Green stink bug | Flea beetles |
| Lesser peach tree borer | Imported cabbage worm | Harlequin bug |
| Mexican bean beetle | Meadow spittlebug | Leaf-footed bug |
| Peach tree borer | Omnivorous leaf roller | Melonworm |
| Pickleworm | Peach twig borer | Peach silvermite |
| Potato psyllid | Plum rust mite | Pepper maggot |
| Rose chafer | Potato leafhopper | Potato flea beetle |
| Squash beetle | Potato tuberworm | Rindworms |
| Stink bugs | Rosy apple aphid | Rusty plum aphid |
| Sweet potato flea
beetle | Squash bug | Squash vine borer |
| Tomato russet mite | Strawberry aphid | Striped flea beetle |
| Yellow-striped armyworm | Tarnished plant bug | Taxus budmite |
| | Threelined potato beetle | Tomato fruitworm |
| | Western bean cutworm | Whitefly |
| | Zimmerman pine moth | |