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JUL 20 1990

Mr. Richard Boyd Ford's Chemical & Service, Inc. 3741 Red Bluff, Suite 200 Pasadena. TX 77504

Subject: Amendments - Revise per Diazinon Registration Standard and the Agency's May 1. 1990 Data Call-In letter to reflect only those uses supported by Ciba-Geigy Ford's Diazinon 5 Granules
EPA Reg. No. 10370-44
Your submission dated June 13, 1990

Dear Mr. Boyd-

The amendments referred to above, submitted in connection with a registration under the Pederal Insecticide, Funcicide, and Podenticide Act, are acceptable provided the following revisions are made prior to release for shipment under the amended labeling:

- On page 3, under the heading "In Gardens", delete the pests "Armyworms",
 "Carrot Rust Flies", "Corn borers", and "Rootworms" since these pests
 are associated with use patterns not being supported by Ciba-Geigy for
 diazinon reregistration.
- 2) On page 3, in the "Precautions", revise the end of the fourth sentence to read: "... increase potential hazards to birds and waterfowl.".
- 3) Also in this same "Precautions" section revise the sixth sentence to read as follows:

Where watering is recommended in the directions, or if waterfowl, i.e., ducks or geese, can be expected to enter the treated area after treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately after applying this product, however, stop watering before puddling occurs.

4) Relocate the lawn spreader setting table from page 15 to page 4, to the end of the overall lawn application directions, i.e., after the specific directions for Hyperodes weevil control (and above the "Spot Treatment" section). When relocating this table, the following revisions should be

made: Since the table will be near the pest listing for overall lawn treatment, delete "Insects listed below" from the top of the right-hand column and delete the list of pests from the bottom of the table. Also, revise the table heading to read "SPREADER SETTING NO. (To deliver 2 lbs. per 1000 so. ft.)". Then, in the right column heading, delete "2 lbs" from beneath "Grass or Dichondra Lawn".

- 5) Delete the directions for control of lesser cornstalk borers on beans. Ciba-Geigy has elected not to support reregistration of post-emergence application of granular diaginon to beans.
- 6) In the heading for the directions for use on melons, relocate the closing parenthesis mark to appear after "... and hybrids of these rather than after "... and hybrids of these and watermelons".
- 7) On page 13, delete "Sweet Corn (Cont'd)" and delete the "Notes", which deal with picking corn immediately after last application and prohibition feeding fodder to livestock for 10 days following the last application. Neither of these notes is appropriate to the remaining at-plant soil application uses on sweet corn.
- 8) In the second sentence of the Environmental "azards text, add a comma after "especially waterfowl".

[NOTE: When preparing your label, do not print the duotation marks that appear around revised text items specified in this letter.]

A stamped copy of the label is enclosed for your records. Please submit five (5) copies of the revised amended label prior to release for shipment under the amended label. Please refer to the Diazinon Registration Standard, as amended, for release for shipment and channels of trade dates for diazinon products bearing appropriately amended labels.

Sincerely yours,

George T. LaRocca Product Manager (15) Insecticide-Rodenticide Branch Registration Division (H7505C)

DIAZINON 5 GRANULES

TREATS UP TO 5000 SQUARE FEET

lawn & garden insect control

This product must not be used on golf courses and sod farms.

ACCEPTED
with COMMENTS
to EPA Letter Dated:

Diazinon 5 Granules kills:

JUL 20 1990

Ants
Armyworms
Bermudsgrass mites
Billbugs
Brown dog ticks
Chiggers
Chinch bugs
Crickets
Cutworms

Earwigs

Fire ants*

Fleas

Onion maggots

Root maggots

Sod webworms

White grubs of:

Japanese beetle

European chafer

Southern chafer

Wireworms

and others

*Aids in control.

See Directions for Use.

Ready-to-use Granules. Contains 5% diazinon insecticide.

Active Ingredient:

Diazinon: 0,0-Diethyl 0-(2-isopropyl-6-

methyl-^- imidinyl) phosphorothicate

Inert Ingredients:

Total:

1003

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements on back of bag.

EPA Reg. No. 10370-44

EPA Est. 10370-TX-1

Ten Pounds Net Weight

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire <u>Directions</u> for Use and the <u>Conditions</u> of <u>Sale and Warranty</u> before using this product.

Conditions of Sale and Warranty

The <u>Directions for Use</u> of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, 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 Ford's Chem. or the Seller. All such risks shall be assumed by the Buyer.

Ford's Chemical warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. Ford's Chem. makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Ford's Chem. or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Ford's Chemical.

In Lawns
Diszinon 5 Granules kills:

Ants Armyworms Bermudagrass mites Billbugs Brown dog ticks Chiggers Chinch bugs Clover mites Crickets Cutworms Digger wasps Earwigs Fleas Fire ants* Lawn moths Leafhoppers Millipedes Sod webworms Sowbugs · Springtails White grubs of:

In Gardens Diazinon 5 Granules kills:

Armyworms
Carrot rust flies
Corn borers
Cutworms
Mole crickets
Onion maggots
Root maggots
Rootworms
Wireworms

- . European chafer
- . Japanese beetle
- . Southern chafer

*Aids in control.

Directions for Use

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

, Overall Lawn Application:

This product controls the following lawn insects on both grass and dichondra lawns:
Ants . Armyworms . Bermudagrass mites . Brown dog ticks .
Chiqgers . Chinch bugs . Clover mites . Crickets . Cutworms .

Earwigs . Fleas . Lawn moths (sod webworms) . Leafhoppers .

Millipedes . Sowbugs . Springtails (Collembola)

Precautions: Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds. Avoid dverlapping treated areas. If waterfowl, i.e., ducks, geese, can be expected to enter the treated area after treatment (except spot treatments), water lawn with at least 0.25 inch water immediately after application, however, stop watering before puddling occurs.

Apply this product with a fertilizer spreader. See spreader setting chart below. Apply when grass is dry. Repeat as necessary.

For application with other types of equipment, apply at the rate of 2 lbs. per 1000 sq. ft. (an area 20' by 50') or 3.2 oz. per 100 sq. ft. (an area 10' by 10').

Billbugs; White grubs of Japanese beetle, European chafer,
Southern chafer, Ataenius spretulus (dung beetle):
Apply 2 lbs. per 1000 sq. ft. of lawn. Water grass thoroughly
after application. For billbug control, apply when activity is
first observed or when chewed or brown grass indicates damage
from these insects. Repeat as necessary. For grub control,
except dung beetle, treat any time between late July and early
October. For dung beetle grub control, apply in Spring or early
Summer when damage is first noticed. Water grass thoroughly
with 1/4-1/2 in. of water after application. Treat again in
late Summer or early Fall if a second generation occurs.

Hyperodes weevils:

Apply 2 lbs. per 1000 sq. ft. of grass. Water grass thoroughly after application. Treat problem areas in mid-April and again in mid-May.

Spot Treatment

Ants: Apply 1 1/2 teaspoons of this product over and around each ant hill.

Fire ants: To aid in the control of fire ants in lawns and other recreational areas, apply 1/2 cup over, and 2 ft. around, each fire int mound. Immediately after application, water in thoroughly. A minimum of 1 gallon of water should be applied to each mound area. Reapply as necessary. Apply gently to avoid disturbing ants. Use of high pressure watering equipment may disturb the ants and cause migration, reducing product effectiveness.

Note: For best results, apply in cool weather, $65-80^{\circ}F$, or in early morning or late evening hours. Treat new mounds as they appear.

Digger wasps: Apply 1 1/2 teaspoons of this product in and around each nest opening. Apply at dusk when wasps are not active.

Band Treatment Around House Foundation:

The following pests are commonly found around or near foundations of houses as well as in lawns. Certain of these pests may enter houses.

Ants
Brown dog ticks
Clover mites
Crickets
Earwigs

Fleas
Millipedes
Sowbugs (Pillbugs)
Springtails
(Collembola)

Donth of Miring or

Apply a 5 foot band of this product next to the house foundation. Distribute granules uniformly, using a race of 3.2 oz. for each 100 sq. ft. of area (5' by 20') treated. Repeat as necessary.

Vegetables - Insect Control

This product controls certain garden insects on crops listed in the following tables. Apply uniformly as directed for each crop. When a range of rates is given, use the higher rate only for heavier infestations.

Unless directions under "Timing/Special Directions" state otherwise, applications for control of pests listed below should be thoroughly mixed into the soil during or immediately after application.

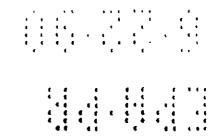
Insect	Incorporation into Soil
Surface cutworms*	2-3 inches
Subterranean cutworms*	3-6 inches
Mole crickets	1-2 inches
Root maggots	3-4 inches
Wireworms	4-8 inches

^{*}If type of cutworm cannot be identified, mix into soil 4-6 inches deep.

CROP	Pest	rate ·	TIMING/SPECIAL DIRECTIONS
Beans (Pole, Snap or Lima) (succulent only)	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Lesser Cornstalk Borers	3 1/2-7 ozs. per 500 sq. ft.	Apply in a 6-inch band centered over the row when plants are 1/2-1 inch tall.
(Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
		ot use on dried bean d limas, navy beans,	varieties, such as pintos, etc.
Beets, Red (Table)	Cutworms	7-14 ozs. per 500 sg. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Broccoli	Root Maggots	7-10 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Broccoli (Cont'd)	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Brussels Sprouts	Root Maggots	7-10 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.	
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
C	Root Maggots	7-10 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.

CROP	Pest	RATE	TIMING/SPECIAL DIRECTIONS
Carrots	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Cauliflower	Root Maggots	7-10 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
celery	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.



CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS .
Collards	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before, planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
_	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Cucumber	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
,	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Endive (Escarole)	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
•	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Kale	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
ļ	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.

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CROP	PEST	RATE '	TIMING/SPECIAL DIRECTIONS .
Lettuce	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
M ons (Lanta- loupes,	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Casabas; Crenshaws, Honeydew, Musk- melons, Persians, & Hybrids of these and water- melons)	Wireworms	10 1/2-14 ozs. per' 500 sq. ft.	Broadcast and mix into soil just before planting.
Mustard	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Onions (green and bulb)	Onion Maggots	7-14 ozs. per 500 sq. ft.	Broadcast just before planting and mix into the top 3-4 inches of soil by disking, harrowing, or other suitable means. NOTE: Diazinon may not control organophosphate-resistant onion maggots.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.

CROP	PEST	, RATE	TIMING/SPECIAL DIRECTIONS
?arsley	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Peas (succulent only)	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
(Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
		ot use on dried pea d blackeyed peas.	varieties such as
?eppers	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
(Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Potatoes	Cutworms (Surface & Subter- ranean)	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
		ot use on commercial -harvested.	ly-grown potatoes which will be
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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Radishes	-		•
1	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Spinach	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
ĺ	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Squash, Summer and Winter	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Sweet Corn	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Seed Corn Maggots	7-14 ozs. per 500 sq. ft.	Broadcast just before planting. planting. Mix into soil 2 inches.
	Wireworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
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Sweet Corn (Cont'd)

*NOTES: Corn may be picked immediately after last application. Do not feed fodder to livestock for 10 days following last application.

Sweet Potatoes Flea Beetles	Flea	10 1/2 ozs. sq. ft.	Broadcast and mix into soil just before planting.
		Southeastern U.S Broadcast 10 1/2 ozs. per 500 sq. ft. over the tops of vines when roots begin to enlarge and do not mix into soil.	

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Swiss Chard	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Tomatoes	Cutworms	7-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Turnips	Mole Crickets	3 1/2 ozs. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10 1/2-14 ozs. per 500 sq. ft.	Broadcast and mix into soil just before planting.

SPREADER SETTING NO. (per 1000 sq. ft.)

Spreader Make and Model	Insects listed belowt
Make and Model	Grass or Dichondra Lawn 2 lbs.
Central Imperial Mark No. 1662-G	6 1/2
Central Suburbia Lawn Spreader - No. 1622-0	6 1/2
Cyclone Model B1 Rotary	4 1/2
Greenfield Model 105	6 1/2
ORTHO Drop Spreader Model 3000	4 1/2
ORTHO Broadcast Spreader Model 4000	4 1/2
J. C. Penney Model 6005	7 1/4
J. C. Penney Rotary Spreader	5
Scott Precision Flow Spreader Model PF-4	4
Sears Craftsman Model 671.19198	6

†Ants Armyworms Bermudagrass Mites Brown Dog Ticks Chiggers Chinch Bugs

Clover Mites Crickets Cutworms Earwigs Fleas Hyperodes Weevil Lawn Moths
(Sod Webworms)
Leafhoppers
Millipedes
Sowbugs
(Pill Bugs)
Springtails
(Oollembola)

Storage and Disposal

Storage: Store in original container in a cool, dry, well-ventilated area. Store product in an area inaccessible to children and domestic animals. Do not store near fertilizers, herbicides, other insecticides, seeds, food, or feed.

Pesticide Disposal: Securely wrap original container in several layers of newspaper and discard in trash.

Container Disposal: Do not reuse empty bag. Discard bag in trash.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-888-8372 day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing dust and contact with eyes, skin or clothing. Wash thoroughly after handling and before eating or smoking. May cause contact sensitization following repeated contact with skin of susceptible individuals. Avoid repeated contact with skin. If sensitization reactions result, consult a physician. Do not store near food or feed products. Food utensils such as spoons or measuring cups must not be used for food purposes after use in measuring pesticides. Do not contaminate ornamental fish ponds. Do not allow children or pets on treated areas until granules have been watered into the soil and the grass or soil is dry.

Statement of Practical Treatment

If swallowed: call a physician immediately. Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

If inhaled: remove victim to fresh air and apply artificial respiration, if indicated.

If on skin, wash promptly with soap and water. Rinse thoroughly.

If in eyes, raise eyes with plenty of water and call a physician immediately.

Continued

Correction

Note to Physician

This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.

Environmental Hazards

This product is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl feeding or drinking on
treated areas may be killed. Because of the migratory habits
of certain Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1
and May 20. Do not exceed maximum permitted label rates.
Application rates above those recommended significantly
increase potential hazards to birds and waterfowl. Avoid
overlapping granules. Where irrigation (watering) is recommended in the directions or if waterfowl, i.e., ducks or
geese, can be expected in the treated area after treatment
(except spot treatment), apply a minimum of 0.25 inch of
water immediately after applying this product. Stop irrigation before puddling occurs. Keep out of lakes, streams,
ponds, tidal marshes and estuaries.

Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Runoff may be hazardous to aquatic organisms in neighboring areas.

Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

EPA Reg. No. 10370-44 EPA Est. No. 10370-TX-1

Manufactured by

FORD'S CHEMICAL & SERVICE, INC. 3741 Red Bluff Rd., \$200 Pasadena, Texas 77503