

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SEP 26 1994

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**BEST AVAILABLE COPY**

Ms. Cheryl Mulherin  
VIGORO Industries, Inc.  
2017 West Highway 50  
P.O. Box 4139  
Fairview Heights, Illinois 62208-4139

Dear Ms. Mulherin:

Subject: Amendment- Revise per Diazinon Registration Standard  
Vigoro 5% Diazinon Granules  
EPA Registration Number 557-1948  
Your submission dated September 17, 1993

This amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable, provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 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 bearing the amended labeling:

a. Under DIRECTIONS FOR USE change "federal law" to "Federal law".

b. Under Ants-Armyworms...Springtails (Collembola) add "Apply 2 lbs. per 1,000 sq. ft. of grass. Apply when grass is dry. Water lawn lightly after application. If necessary, repeat application at 3-week intervals. Make no more than 4 applications per year."

c. Under Billbugs: add "Apply 2 lbs. per 1,000 sq. ft. of grass. Water grass with at least 1/4 inch of water after application, however, stop watering before puddling occurs. For billbug control, apply when activity is first observed or when chewed grass indicates damage. If necessary, repeat application at 3-week intervals. Make no more than 4 applications per year. For grub control,

except dung beetle, treat any time between late July and

SYMBOL	H2507						
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early October. For dung beetle control, apply in Spring and Summer when damage is first noticed. Water grass with at least 1/4 inch of water application, however stop watering before puddling occurs. Treat again in late Summer or early Fall if a second generation occurs."

d. Under Hyperodes weevils delete "Apply 2 lbs. per 1,000 sq. ft. of lawn. Water thoroughly after application....Treat again in late summer or early fall if a second generation occurs."

e. Change "Garden Insect Control: Vigoro 5% Diazinon Granules control certain... mix thoroughly into soil to the specified depth." to " "Garden Insect Control: Vigoro 5% Diazinon Granules controls certain garden insects on crops listed below. Apply uniformly as directed for each crop. When a range of rates is given, use the higher rate only for heavy infestations. Do not apply this product to food crops grown in greenhouses. Applications for control of pests listed below should be thoroughly mixed into the soil during or immediately after application."

f. Under Cutworms change "For potatoes, mix into soil 4-6 inches deep." to " Broadcast and mix into soil just before planting."

g. Under Mole Crickets before "Apply 3 1/2 oz. per 500 sq. ft. and mix into soil to a depth of 1-2 inches." add "Broadcast and mix into the soil 1-2 days before planting."

h. Under Wireworms and before Onions add "Broadcast and mix into the soil just before planting. Apply 10 1/2-14 oz. per 500 sq. ft. and mix into soil to a depth of 4-8 inches."

i. Under Onions change "NOTE: Diazinon may not control organophosphate-resistant onion maggots." to "NOTE: Resistent onion maggots will not be controlled by diazinon or similar type insecticides."

j. Replace the **STORAGE AND DISPOSAL** section with "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 the label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes."

k. Delete "Diazinon trademark of CIBA-GEIGY".

l. Under ENVIRONMENTAL HAZARDS change "Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark." to " Do not apply directly to water."

Your current Confidential Statement of Formula (CSF) does not list the impurities of toxicological concern separately nor does it include the diazinon certification for FIFRA Sec. 12(a)(1)(C), that the description of this product refers to the composition set forth on the CSF and supporting materials as required by the Diazinon Registration Standard. Please check with Ciba Geigy, your supplier in this regard and update your CSF accordingly.

Sincerely,

George T. LaRocca  
Product Manager (13)  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

Enclosure

FRONT PANEL

VIGORO®

5% DIAZINON GRANULES

LAWN & GARDEN INSECT CONTROL

This product must not be used on golf courses and sod farms. For outdoor use on the home lawn and home garden only.

WHITE GRUB

SOD WEBWORM

CHINCHBUG

CRICKET

EARWIG

CUTWORM

BROWN DOG TICK

ANT

SOWBUG (Pillbug)

Kills these insects and others

SEE DIRECTIONS FOR USE

Ready to use granules. Contains 5% Diazinon® Insecticide.  
Keep out of reach of children.

CAUTION

See additional precautionary statements on side/back panel.

ACTIVE INGREDIENT:

0,0-diethyl-0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate

5.0%

INERT INGREDIENTS:

95.0%

TOTAL:

100.0%

Treats up to 4,000 sq. ft.  
EPA Reg. No. 557-1948

EPA Est. No. 34874-TX-1

Net Wt. 8 Lbs. (3.6 kg)

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

SEP 26 1994

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

557-1948

REAR PANEL

Net. Wt. 8 Lbs. (3.6 kg)

VIGORO® 5% DIAZINON GRANULES

DIRECTIONS FOR USE

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

OVERALL LAWN APPLICATION

**Special Precautions To Reduce Risk to Birds:**

Birds, especially waterfowl (ducks or geese) feeding or drinking on treated areas may be killed. To reduce risks to birds:

1. Do not treat areas larger than 15,000 sq. ft.
2. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20.
3. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds, especially waterfowl.
4. Avoid overlapping treated areas.
5. Follow all watering instructions in the directions for use, however, stop watering before puddling occurs.
6. Do not apply this product to sites occupied by waterfowl or to sites within 75 ft. of any body of water that may attract waterfowl, such as lakes or ponds.
7. If it is necessary to repeat application, wait a minimum of 3 weeks between applications. Make no more than 4 applications per year.

Vigoro® 5% Diazinon Granules controls the following lawn insects on both grass and dichondra lawns.

Ants - Armyworms - Bermudagrass mites - Brown dog ticks - Chiggers - Chinch bugs - Clover mites - Crickets - Cutworms - Earwigs - Fleas - Lawn moths (sod webworms) - Leafhoppers - Millipedes - Sowbugs - Springtails (Collembola).

Billbugs: White grubs of Japanese beetle. European chafer, Southern chafer, *Ataenius spretulus* (dung beetle).

Hyperodes weevils (New York only):

Apply 2 lbs. per 1,000 sq. ft. of grass. Water grass with at least 1/4 inch of water after application, however stop watering before puddling occurs. Treat problem areas in mid-April and again in mid-May.

Apply 2 lbs. per 1,000 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.

Apply with a fertilizer spreader. See spreader setting chart. Apply when grass is dry. Water lawn lightly after application. Repeat as necessary.

**LAWN SPREADER SETTING NO. (To deliver 2 lbs. per 1,000 sq. ft.)**

<u>Spreader Make and Model</u>	<u>Setting</u>
Central Imperial Mark No. 1662-G	6 1/2
Central Suburbia Lawn Spreader No. 1662-O	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. Penny Model 6005	7 1/4
J.C. Penny Rotary Spreader	5
Scott Precision Flow Spreader Model PF-4	4
Sears Craftsman Model 671-19198	6

For application with other types of equipment, apply at the rate of 2 lbs. per 1,000 sq. ft. (an area 20' x 50') or 3.2 oz. per 100 sq. ft. (an area 10' x 10').

**Lawn Spot Treatment:**

**Ants:** Apply 1 1/2 teaspoons over and around each ant hill.

**Fire Ants:** To aid in the control of fire ants in lawns and other outdoor home recreational areas, apply 1/2 cup over and 2 ft. around, each fire ant 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° F or in early morning or late evening hours. Treat new mounds as they appear.

**Digger Wasps:** Apply 1 1/2 teaspoons 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	Crickets	Millipedes
Brown dog ticks	Earwigs	Springtails (Collembola)
Clover mites	Fleas	Sowbugs (Pillbugs)

Apply a 2-foot band next to the house foundation. Distribute granules uniformly using a rate of 3.2 oz. for each 100 sq. ft. of area (5' by 20') treated. Repeat as necessary.

**VEGETABLES - INSECT CONTROL**

**Special Precautions To Reduce Risk To Birds**

Birds feeding on treated areas may be killed. To reduce risk to birds:

1. Thoroughly mix 5% Diazinon Granules into the soil during or immediately after application. Refer to Soil Incorporation table that follows.
2. Granules that are spilled or are visible on soil surfaces should be covered with soil or thoroughly mixed into the soil.

Garden Insect Control: Vigoro® 5% Diazinon Granules controls certain insects on crops listed below. Apply just prior to planting and immediately mix thoroughly into soil to the specified depth.

Cutworms (surface and subterranean)

Broccoli	Endive (Escarole)	Spinach
Cabbage	Kale	Summer Squash
Cantaloupes	Lettuce	Swiss Chard
Cauliflower	Muskmelons	Tomatoes
Celery	Parsley	Watermelons
Collards	Peppers	Winter Squash
Cucumbers	Potatoes	

Apply 7 to 14 oz. per 500 sq. ft. and mix into soil to a depth of 2-3 inches for surface cutworms and 2-6 inches for subterranean cutworms. For potatoes, mix into soil 4-6 inches deep.

Mole Crickets

Broccoli	Endive (Escarole)	Peppers
Cabbage	Kale	Radishes
Cauliflower	Lettuce	Strawberries
Collards	Mustard	Tomatoes
		Turnips

Apply 3 1/2 oz. per 500 sq. ft. and mix into soil to a depth of 1-2 inches.

Wireworms

Broccoli  
Cabbage  
Cantaloupes  
Carrots  
Cauliflower  
Celery  
Collards  
Corn

Cucumbers  
Endive (Escarole)  
Kale  
Lettuce  
Muskmelons  
Onions  
Parsley  
Peppers

Spinach  
Summer Squash  
Sweet Potatoes  
Swiss Chard  
Tomatoes  
Watermelons  
Winter Squash

**Beans (Lima, Pole or Snap; succulent varieties only)**

**NOTE: Do not use on dried bean varieties such as pintos, dried limas, navy beans, etc.**

**Peas (succulent varieties only)**

**NOTE: Do not use on dried pea varieties such as dried blackeyed peas.**

**Onions (bulb and green)**

**Onion Maggots: Broadcast just before planting and mix into the top 3-4 inches of soil.**

**NOTE: Diazinon may not control organophosphate-resistant onion maggots.**

Apply 7 to 14 oz. per 500 sq. ft. and mix into soil to a depth of 4-8 inches.

**PRECAUTIONARY STATEMENTS  
Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye injury. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Do not store near food or feed products. Food utensils such as spoons or measuring cups should 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. Get medical attention.

**If in eyes:** Rinse eyes with plenty of water and call a physician immediately.



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**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 HAZARD

This product is highly toxic to birds, fish and other wildlife. Birds, especially waterfowl (ducks or geese), 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. Avoid overlapping of granules. For lawns, follow all watering instructions in the directions for use, however, stop watering before puddling occurs. For lawns, do not apply this product to sites occupied by waterfowl, or within 75 ft. of any body of water which may attract waterfowl, such as ponds or lakes. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff may be hazardous to fish and other 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.

### STORAGE AND DISPOSAL

**Storage:** Store in original container in a cool, dry, well-ventilated area. Do not store near other pesticides, herbicides, fertilizer, seeds, food or feed.

**Product Disposal:** Securely wrap original container in several layers of newspaper and discard in the trash.

**Container Disposal:** Do not re-use empty bag. Discard bag in trash.

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Diazinon® trademark of CIBA-GEIGY

Manufactured by Vigoro Industries, Inc., Fairview Heights, IL 62208.  
Vigoro® is a registered trademark of Vigoro Industries, Inc.