

267633

Mr. R. E. Broyles  
Purina Mills, Inc.  
800 Chouteau Avenue  
St. Louis, MO 63164

JUL 19 1990

Subject: Amendment - 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  
Purina Diazinon Granules-5%  
EPA Reg. No. 602-292  
Your submission received June 6, 1990

Dear Mr. Broyles:

The amendment referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable, provided the following revision is made prior to release for shipment under the amended labeling:

- 1) On page 2 of the label, in the bold print section under the heading "In Gardens Diazinon Granules-5% Kills:", delete the pests "Armyworms", "Carrot rust flies", "Corn borers", "Rootworms" and "Vinegar flies" since these pests are associated with use patterns not supported by Ciba-Geigy.
- 2) Revise the "Precautions" under the heading "Overall Lawn Use" to specify both situations when immediate post-application irrigation is required. Specifically, revise "Avoid overlapping treated areas, if waterfowl, ..." to read "Avoid overlapping treated areas. Where irrigation (watering) is recommended in the directions, or if waterfowl...".
- 3) 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".
- 4) In the Environmental Hazards, add a comma in the second sentence, such that it reads: "Birds, especially waterfowl, feeding or drinking on treated areas may be killed."

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[NOTE: Do not print the quotation marks appearing in this letter on text items to be added or revised on your labeling.]

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)

Reason For Issue: Deleting postemergence application. For submission to EPA.

Date Issued: 5/9/90 (Green) 39 11  
Prev. Date Issued: 10/24/88  
Document Name: DIAZGR5%.10  
CORRECTED: 5/17/90

PURINA  
BRAND

DIAZINON \* GRANULES-5%

LAWN & GARDEN  
INSECT CONTROL

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUL 19 1990

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

602-292

This Product Must Not be Used  
On Golf Courses and Sod Farms.

Ready-to-use Granules.  
Contains 5% Diazinon  
Insecticide

Treats up to 5000 square feet.

Active Ingredient:

Diazinon: 0,0-Diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate.....	5%
Inert Ingredients .....	95%
Total	100%

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KEEP OUT OF REACH OF CHILDREN  
CAUTION  
SEE ADDITIONAL PRECAUTIONARY STATEMENTS  
ON BACK OF BAG

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Diazinon Granules 5% Kills:

- |                 |                   |
|-----------------|-------------------|
| Ants            | Fire Ants **      |
| Armyworms       | Fleas             |
| Bermudagrass    | Onion maggots     |
| mites           | Root maggots      |
| Billbugs        | Sod webworms      |
| Brown Dog ticks | White grubs of:   |
| Chiggers        | . Japanese beetle |
| Chinch bugs     | . European chafer |
| Crickets        | . Southern chafer |
| Cutworms        | Wireworms         |
| Earwigs         | ...and others     |

\*\*Aids in control

See Directions  
For Use

NET WT 10 LB

G-2647  
EPA Reg. No. 602-292

EPA Est. NO. 602-MO-1

\*Diazinon a registered trademark of CIBA-GEIGY Corporation

Manufactured By  
PURINA MILLS, INC.  
P.O. Box 66812  
St. Louis, Missouri 63166-6812 U.S.A.

PURINA® DIAZINON GRANULES-5%  
BRAND

In Lawns Diazinon Granules-5% Kills:

Ants	Fleas
Armyworms	Lawn moths
Bermudagrass mites	Leafhoppers
Billbugs	Millipedes
Brown dog ticks	Sod webworms
Chiggers	Sowbugs
Chinch bugs	Springtails
Clover mites	White grubs of:
Crickets	.Japanese beetle
Cutworms	.European chafer
Digger wasps	.Southern chafer
Earwigs	
Fire ants**	**Aids in control

In Gardens Diazinon Granules-5% Kills:

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

**DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY**

**IMPORTANT:** Read the entire **Directions For Use** and the **Conditions of Sale and Warranty** before using this product.

**CONDITIONS OF SALE AND WARRANTY**

The **Directions For Use** 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 Purina Mills, Inc. or the Seller. All such risks shall be assumed by the Buyer.

Purina Mills, Inc. 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. Purina Mills, Inc. makes no other express or implied warranty of Fitness or merchantability or any other express or implied warranty. In no case shall Purina Mills, Inc. or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Purina Mills, Inc. 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 Purina Mills, Inc.

**DIRECTIONS FOR USE**

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

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**Directions For Use - Continued**

**Overall Lawn Application**

PURINA Diazinon Granules-5% 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).

**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 overlapping 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 1/4 inch water immediately after application, however, stop watering before puddling occurs.

Apply PURINA Diazinon Granules-5% 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, Atsenius 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 inch of water after application. Treat again in late Summer or early Fall if a second generation occurs.

**Hyperodes weevils**

Apply 2 lbs. per 1,000 sq. ft. of grass. Water grass thoroughly after application. Treat problem areas in mid-April and again mid-May.

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

<u>Spreader Make and Model</u>	<u>Lawns/2 lbs.</u>
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

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**Spot Treatment Lawns:**

**Ants:** Apply 1-1/2 teaspoons of PURINA Diazinon Granules-5% 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 ant mound. Immediately after application, water in thoroughly. Apply gently to avoid disturbing ants. Use of high pressure watering equipment may disturb the ants and cause migration, reducing product effectiveness. A minimum of 1 gallon of water should be applied to each mound area. Reapply as necessary.

**Notes:** For best results, apply in cool weather, 65-80°F, or in early morning or late evening hours. Works within 24 hours. No waiting for days or weeks. Treat new mounds as they appear.

**Digger wasps:** Apply 1-1/2 teaspoons of PURINA Diazinon Granules-5% 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	Fleas
Brown dog ticks	Millipedes
Clover mites	Sowbugs (Pillbugs)
Crickets	Springtails (Collembola)
Earwigs	

Apply a 5-foot band of PURINA Diazinon Granules-5% 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:**

PURINA Diazinon Granules-5% 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	Depth of Mixing or 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.

PURINA<sup>®</sup> DIAZINON GRANULES-5%  
 BRAND  
 Directions For Use - Continued

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Beans (Pole, Snap or Lima) (succulent only)	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Lesser Cornstalk Borers	3-1/2-7 oz. per 500 sq. ft.	Apply in a 6-inch band centered over the row when plants are 1/2-1 inch tall.
<b>NOTE:</b> Do not use on dried bean varieties, such as pintos, dried limas, navy beans, etc.			
Beets, Red (Table)	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Broccoli	Root Maggots	7-10-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Brussels Sprouts	Root Maggots	7-10-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Cabbage	Root Maggots	7-10-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Carrots	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.

PURINA DIAZINON GRANULES  
 BRAND  
 Directions For Use - Continued

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Cauliflower	Root Maggots	7-10-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil just before plant- ing or transplanting.
	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Celery	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
Collards	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Cucumber	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
Endive (Escarole)	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Kale	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Lettuce	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, & Hybrids of these and watermelons)	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	



Directions For Use - Continued

Mustard	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Onions (green and bulb)	Onion Maggots	7-14 oz. 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. <b>NOTE:</b> Diazinon may not control organophosphate- resistant onion maggots.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Parsley	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Peas (succulent only)	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
<b>NOTE:</b> Do not use on dried pea varieties such as dried blackeyed peas.			
Peppers	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Potatoes	Cutworms (Surface & Subterranean)	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
<b>NOTE:</b> Do not use on commercially-grown potatoes which will be hand-harvested.			
Radishes	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Spinach	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Squash, Summer and Winter	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.

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 BRAND  
 Directions For Use - Continued

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Sweet Corn	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Seed Corn Maggots	7-1/2 oz. per 500 sq. ft.	Broadcast just before planting. Mix into soil 2 inches.
Sweet Potatoes	Wireworms	10-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting Southeastern U.S. - Broadcast 10-1/2 oz. per 500 sq. ft. over the tops of vines when roots begin to enlarge, but do not mix into soil.
	Flea Beetles		
Swiss Chard	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
Tomatoes	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	
	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
Turnips	Mole Crickets	3-1/2 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10-1/2-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.

**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.

**BEST AVAILABLE COPY**

**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 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 respiration if indicated.

**If on skin:** Wash promptly with soap and water. Rinse thoroughly.

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

**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 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 1/4 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.

QUALITY CONTROLLED BY PURINA RESEARCH

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