

PM 13

28293-177

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SEP 10 1993

Mr. Barry Santerre
Unicorn Laboratories
1000 118th Avenue North
St. Petersburg, FL 33716

Dear Mr. Santerre:

Subject: Amendments - Revise per Agency letter
dated August 2, 1993; and
Add Pest/European Crane Fly (Larvae)
Unicorn Diazinon 5G Granules
EPA Reg. No. 28293-199
Your submission dated August 3, 1993

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

1) Revise the front panel use limitation to read as follows:

For outdoor use on the home lawn and home garden only.

2) In the Environmental Hazards, add a comma after "Birds, especially waterfowl (ducks or geese)".

3) Revise the beginning of the first sentence of the FIRE ANTS directions to read: "To aid in the control of fire ants in home lawns and other outdoor home recreation areas,".

4) In the directions for band treatment around house foundation replace "Repeat as necessary." with "If necessary, repeat application at 3-week intervals.".

A stamped copy of the label is enclosed for your records. Labeling released for shipment after the deadline imposed by the Diazinon Registration Standard, as amended, must be the revised amended label.

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Please note that a revised Confidential Statement of Formula (CSF) must be submitted for this product. As specified in the Diazinon Registration Standard, CSFs for diazinon products must include upper certified limits for the impurities of toxicological concern to the Agency as specified in the Registration Standard. Please contact Ms. Carolyn Bussey of Ciba-Geigy (919-632-2838) for assistance in preparing the revised CSF, which must also include certain required certification statements.

Sincerely,

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

UNICORN

DIAZINON 5G GRANULES

LAWN & GARDEN
INSECT CONTROL

Ready-To-Use Granules

ACCEPTED
With COMMENTS
by EPA Letter Dated

SEP 10 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
28293-199

Contains 5% Diazinon Insecticide

This product must not be used on Golf Courses and Sod Farms.

For outdoor use on the home lawn and in the home garden.

ACTIVE INGREDIENT:

Diazinon: 0,0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl)
phosphorothioate..... 5.00%

INERT INGREDIENTS:..... 95.00%

100.00%

Kills Ants, Armyworms, Bermudagrass 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.

Keep Out of Reach of Children

CAUTION

See Additional Precautionary Statements on Back

NET CONTENTS: ___

MANUFACTURED BY:

Unicorn Laboratories
1000 118th Street North
St. Petersburg, Florida 33716

EPA REG. NO. 28293-199 (E:3/23/90)

EPA EST. NO. 28293-FL-1

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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed, or absorbed through the 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 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 soil or grass is dry.

Environmental Hazards

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 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 hazard to birds and waterfowl. Avoid overlapping granules. Granules that are spilled or are visible on soil surfaces should be covered with soil or thoroughly mixed into the soil.

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 washwaters.

Statements of Practical Treatment

IF SWALLOWED: Call a physician immediately. Drink one or two glasses of water and induce vomiting by touching back of 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: Diazinon 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.

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 container. Discard container 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 Lawns this Product Kills:

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

In Gardens this Product Kills:

- | | | |
|---------------|---------------|-----------|
| Cutworms | Onion maggots | Wireworms |
| Mole crickets | Root maggots | |

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. If terms are not acceptable, return the unopened product container at once.

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 Unicorn Laboratories or the Seller. All such risks shall be assumed by the Buyer.

Unicorn 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

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referred to above. Unicorn makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Unicorn or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Unicorn 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 Unicorn Laboratories.

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.

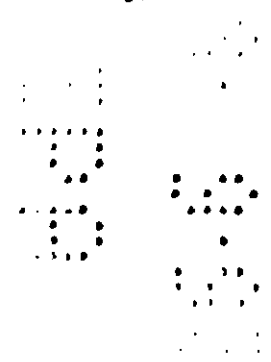
The product controls certain lawn insects on both grass and dichondra lawns. Apply product with fertilizer spreader. Refer to the tables that follow for use rates and spreader settings.

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PEST	RATE*	TIMING/SPECIAL DIRECTIONS
Ants, Armyworms, Bermudagrass mites, Brown dog ticks, Chiggers, Chinch bugs, Clover mites, Crickets, Cutworms, Earwigs, Fleas, Lawn moths (sod webworms), Leafhoppers, Millipedes, Sowbugs (Pillbugs), Springtails (Collembola)	2 lbs. per 1,000 sq. ft.	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.
Billbugs, White grubs of Japanese beetle, European chafer, Ataenius spretulus (dung beetle)	2 lbs. per 1,000 sq. ft.	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 early October. For dung beetle grub control, apply in Spring or Summer when damage is first noticed. Water grass with at least 1/4 inch of water after application, however, stop watering before puddling occurs. Treat again in late Summer or early Fall, if a second generation occurs.
Hyperodes weevils	2 lbs per 1,000 sq. ft.	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.
European Crane Fly (Larvae) (Except California)	2 lbs per 1,000 sq. ft.	Water lawn thoroughly after application. Repeat Repeat application in 10 to 14 days or as necessary. For timing of application in your area, consult the State Agricultural Extension Service.

* 1,000 sq. ft. = an area 20 ft. x 50 ft.
 100 sq. ft. = an area 10 ft. x 10 ft.
 2 lbs per 1,000 sq. ft. = 3.2 oz. per 100 sq. ft.

NOTE: The spreader settings listed below are approximate. Accurately weigh a few pounds into your spreader and apply to a measured area. Then adjust the spreader setting, if necessary, in order to assure correct rate of application.



LAWN SPREADER SETTING NO.** (To deliver 2 lbs. per 1000 sq. ft.)

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Spreader Make and Model	Setting
Central Imperial Mark No. 1662-G	6 1/2
Central Suburbia Lawn Spreader No. 1622-0	6 1/2
Cyclone Model Bl 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 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.

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 home 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.

Note: 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 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 house foundations and may enter the house.

Ants	Crickets	Millipedes
Brown dog ticks	Earwigs	Sowbugs (Pillbugs)
Clover mites	Fleas	Springtails (Collembola)

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

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Special Precautions to Reduce Risk to Birds
 Birds feeding on treated areas may be killed. To reduce risk to birds:

1. Thoroughly mix product into the soil during or immediately after application. Refer to the 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.

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. 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.

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.

Crop	Pest	Rate	Timing/Special Directions
Beans (Lima, Pole or Snap) (succulent only)	Cutworms	7 - 14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½ - 14 oz. per 500 sq. ft.	
NOTE: 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	10½ - 14 oz. per 500 sq. ft.	
	Mole Crickets	3½ oz per 500 sq. ft.	
Broccoli	Root Maggots	7 - 10½ oz. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
	Cutworms	7 - 14 oz. per 500 sq. ft.	
	Wireworms	10½ - 14 oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Mole Crickets	3½ oz. per 500 sq. ft.	



Brussels Sprouts	Root	7 - 10½ oz. per	Broadcast and mix into soil just before planting or transplanting.
	Maggots	500 sq. ft.	
	Cutworms	7 - 14 oz. per	
		500 sq. ft.	
	Wireworms	10½ - 14 oz. per	
		500 sq. ft.	
	Mole	3½ oz. per	Broadcast and mix into soil 1-2 days before planting.
	Crickets	500 sq. ft.	
Cabbage	Root	7 - 10½ oz. per	Broadcast and mix into soil just before planting or transplanting.
	Maggots	500 sq. ft.	
	Cutworms	7 - 14 oz. per	
		500 sq. ft.	
	Wireworms	10½ - 14 oz. per	
		500 sq. ft.	
	Mole	3½ oz. per	Broadcast and mix into soil 1-2 days before planting.
	Crickets	500 sq. ft.	
Carrots	Cutworms	7 - 14 oz. per	Broadcast and mix into soil just before planting.
		500 sq. ft.	
	Wireworms	10½ - 14 oz. per	
		500 sq. ft.	
	Mole	3½ oz. per	Broadcast and mix into soil 1-2 days before planting.
	Crickets	500 sq. ft.	
Cauliflower	Root	7 - 10½ oz. per	Broadcast and mix into soil just before planting or transplanting.
	Maggots	500 sq. ft.	
	Cutworms	7 - 14 oz. per	
		500 sq. ft.	
	Wireworms	10½ - 14 oz. per	
		500 sq. ft.	
	Mole	3½ oz. per	Broadcast and mix into soil 1-2 days before planting.
	Crickets	500 sq. ft.	
Celery	Cutworms	7 - 14 oz. per	Broadcast and mix into soil just before planting.
		500 sq. ft.	
	Wireworms	10½ - 14 oz. per	
		500 sq. ft.	
Collards	Cutworms	7 - 14 oz. per	Broadcast and mix into soil just before planting.
		500 sq. ft.	
	Wireworms	10½ - 14 oz. per	
		500 sq. ft.	
	Mole	3½ oz. per	Broadcast and mix into soil 1-2 days before planting.
	Crickets	500 sq. ft.	
Cucumber	Cutworms	7 - 14 oz. per	Broadcast and mix into soil just before planting.
		500 sq. ft.	
	Wireworms	10½ - 14 oz. per	
		500 sq. ft.	
Endive (Escarole)	Cutworms	7 - 14 oz. per	Broadcast and mix into soil just before planting.
		500 sq. ft.	
	Wireworms	10½ - 14 oz. per	
		500 sq. ft.	
	Mole	3½ oz. per	Broadcast and mix into soil 1-2 days before planting.
	Crickets	500 sq. ft.	
Kale	Cutworms	7 - 14 oz. per	Broadcast and mix into soil just before planting.
		500 sq. ft.	
	Wireworms	10½ - 14 oz. per	
		500 sq. ft.	
	Mole	3½ oz. per	Broadcast and mix into soil 1-2 days before planting.
	Crickets	500 sq. ft.	

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Lettuce	Cutworms	7 - 14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½ - 14 oz. per 500 sq. ft.	
	Mole	3½ oz. per	Broadcast and mix into soil 1-2 days before planting.
	Crickets	500 sq. ft.	
Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, and Hybrids of these) and watermelons	Cutworms	7 - 14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½ - 14 oz. per 500 sq. ft.	
Mustard	Mole	3½ oz. per	Broadcast and mix into soil 1-2 days before planting.
	Crickets	500 sq. ft.	
Onions (Bulb and Green)	Onion Maggots	7 - 14 oz. per 500 sq. ft.	Broadcast just before planting and mix into the top 3-4 inches of soil. NOTE: Diazinon may not control organo-phosphate-resistant onion maggots.
	Wireworms	10½ - 14 oz. per 500 sq. ft.	
Parsley	Cutworms	7 - 14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½ - 14 oz. per 500 sq. ft.	
Peas (succulent only)	Cutworms	7 - 14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½ - 14 oz. per 500 sq. ft.	
NOTE: 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	10½ - 14 oz. per 500 sq. ft.	
	Mole Crickets	3½ oz. per 500 sq. ft.	
Potatoes	Cutworms (Surface and Subterranean)	7 - 14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½ - 14 oz. per 500 sq. ft.	
Radishes	Mole Crickets	3½ 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 1-2 days before planting.
	Wireworms	10½ - 14 oz. per 500 sq. ft.	
Squash Summer and Winter	Cutworms	7 - 14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½ - 14 oz. per 500 sq. ft.	
Sweet Corn	Cutworms	7 - 14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
	Wireworms	10½ - 14 oz. per 500 sq. ft.	
	Seed Corn Maggots	7 - 14 oz. per 500 sq. ft.	

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Sweet Potatoes	Wireworms	10½ oz. per	Broadcast and mix into soil just before planting.
	Flea Beetles	500 sq. ft.	
Swiss Chard	Cutworms	7 - 14 oz. per	Broadcast and mix into soil just before planting.
	Wireworms	10½ - 14 oz. per	
Tomatoes	Cutworms	7 - 14 oz. per	Broadcast and mix into soil just before planting.
	Wireworms	10½ - 14 oz. per	
	Mole Crickets	3½ oz. per 500 sq. ft.	
Turnips	Mole Crickets	3½ oz. per 500 sq. ft.	Broadcast and mix into soil 1-2 days before planting.
	Wireworms	10½ - 14 oz. per	
		500 sq. ft.	