

NOV 6 1992

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

Dear Mr. Santerre:

Subject: Amended Labeling  
Unicorn Dursban 1.0%G Granules  
EPA Registration No. 28293-202  
Your Submissions Dated January 20, 1992 and  
October 19, 1992

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you make the labeling change given below before you release the product for shipment bearing the amended labeling.

In the Directions for Use section for "Imported Fire Ant-Mound Treatment," delete the phrase "Ready To Use Granules." This phrase appears to be a claim, and seems to imply that the product has been reformulated so that the addition of water is not necessary. Not requiring the applicator to water the granules in only reflects a change in Agency policy and not a special quality of the product itself.

Please submit five (5) copies of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

DHE

Dennis H. Edwards, Jr.  
Product Manager (19)  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

Enclosure

UNICORN

DURSBAN\* 1.0%G GRANULES

Contains 1.0% Chlorpyrifos

FOR USE IN LAWNS, GARDENS AND ROUND HOMES

Kills and Controls Chinch Bugs, Sod Webworms (Lawn Moths), Ants, Fleas, Brown Dog Ticks, Crickets, Certain White Grubs\*\*, Cutworms, Earwigs, Sowbugs (Pillbugs) and Hyperodes (Turfgrass) Weevils\*\*\*Infesting Home Lawns and Other Ornamental Turf Areas.

Kills and Controls Vegetable Soil Insects such as: Root and Onion Maggots, Corn Rootworm & Flea Beetle Larvae, Cutworms, Billbugs, Seed Corn Beetle & Maggot, Grubs, Lesser Cornstalk Borer, and Symphylans.

ACTIVE INGREDIENT:

Chlorpyrifos (0,0,-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate)..... 1.0%

INERT INGREDIENTS:..... 99.0%

100.0%

\*Dursban is a registered trademark of DowElanco

Keep Out of Reach of Children

CAUTION

See Side/Back Panels for Additional Precautionary Statements

ACCEPTED with COMMENTS in EPA Letter Dated

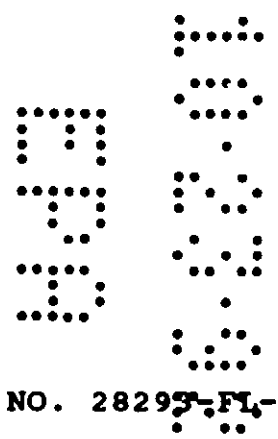
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NOV 6 1992

MANUFACTURED BY:

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 28293-202

Unicorn Laboratories 1002 118th Avenue North St. Petersburg, Florida 33716



EPA REG. NO. 28293-202 (E:10/3/91)

EPA EST. NO. 28293-FL-1

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION.** Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly after handling. Keep away from food, feedstuffs and domestic water supplies. Keep children and pets off treated areas until this material is washed into the soil and grass is dry.

**Environmental Hazards**

This product is toxic to fish, birds and other wildlife. Birds feeding on treated areas may be killed. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

**Statement of Practical Treatment**

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF IN EYES:** Flush with plenty of water. Call a physician if irritation persists.

**IF ON SKIN:** In case of contact, remove contaminated clothing and immediately wash skin with plenty of soap and water. Thoroughly launder clothing before wearing again.

**NOTE TO PHYSICIAN:** Chlorpyrifos is a Cholinesterase inhibitor. Treat symptomatically. Atropine, by injection, is antidote of choice.

**STORAGE AND DISPOSAL**

**STORAGE:** Keep container tightly closed when not in use. Store in a cool, dry area, preferably in a locked area.

**DISPOSAL:** Securely wrap original container in several layers of newspaper and discard in trash. Do not reuse bag. Wrap bag and put in trash.

**DIRECTIONS FOR USE**

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

**LAWN & PERIMETER INSECTS**

Apply granules uniformly to home lawns and other ornamental and recreational turf areas using any hand or power operated gravity or rotary type spreader designed for application of granular materials. Treat when insects first appear, using granules at the rate of 100 pounds per acre.

To help obtain uniform distribution, apply one-half the required amount of product in one direction; then apply the balance at a right angle. Immediately after application, sprinkle the turf with 1300 gallons of water per acre so as to wash the granules into the zone of insect infestation. Consult the following table to determine the amount of granules and water needed for small sized areas. Re-treat as necessary.

**RATES TO USE**

<b>Areas to be Treated</b>	<b>Pounds DURSBAN* 1.0%G</b>	<b>Gals. of Water to Sprinkle on Turf after Treatment</b>
1,000 sq. ft.	2.5	30
5,000 sq. ft.	12.5	150
10,700 sq. ft.	25.0	325

**Fleas and Brown Dog Ticks:** Thoroughly apply granules as a spot treatment to infested areas such as:

**OUTSIDE PET RESTING AREAS:** Old bedding of pets should be removed and replaced with clean, fresh bedding after treatment. Do not apply this product indoors. To control the source of your flea infestation, treat pets with a product registered for direct application to pets.

**YARD AREAS:** Apply granules uniformly to home lawns, under shrubbery and other ornamental recreational turf grass areas. Treat when insects first appear using Granules at the rate of one pound per 400 sq. ft. To help obtain uniform distribution, apply one-half required amount of product in one direction, then apply the balance at a right angle. Immediately after application, sprinkle the turf with 20 gallons of water per 400 sq. ft. so as to wash the granules into the zone of insect infestation. Re-treat as necessary.

**DO NOT TREAT PETS WITH THIS PRODUCT**

**PERIMETER TREATMENT:** To help prevent infestation of buildings by Ants, Crickets, Earwigs and Sowbugs (Pillbugs): treat a band 6 to 10 feet wide around and adjacent to the buildings where pests are active and may find entrance. Distribute granules uniformly using the appropriate rates listed in the table for the pests to be controlled.

**IMPORTED FIRE ANT-MOUND TREATMENT:** **READY TO USE GRANULES; REQUIRES NO WATERING.** For use in home lawns, under shrubbery and other ornamental recreational turf grass areas as an aid in the control of the Imported Fire Ant. Apply one-half cup (4 tablespoons) of Unicorn Dursban 1.0%G Granules to the center of the mound and out two feet surrounding it. Do not water in or disturb the mound. Apply when temperatures are between 65° and 80° degrees F. Treat new mounds as they appear.

**\*\*To Control Certain White Grubs (larvae of European chafer and Japanese Beetle):** Use two to four times the amounts of granules shown in the table (i.e., 5-10 lbs. per 1,000 sq. ft.). After application, apply enough water to thoroughly wash the insecticide into the turf. For best results, treat when grubs are young and actively feeding near the soil surface, usually during late July and August. Consult your local Agricultural Extension Service for proper time to treat in your area.

**\*\*\*To Control Hyperodes (Turfgrass) Weevils:** Use twice the rate of granules shown in the table. Treat suspected problem areas in mid-April and again in mid-May. Consult your local Agricultural Extension Service specialist for best time to treat in your area.

**Chinch Bugs:** Apply 2 to 3 2/5 lbs. per 1000 sq. ft. (10 to 17 lbs. per 5000 sq. ft.) when activity or damage appears. To prevent damage apply as soon as daily temperatures reach 80 degrees and repeat every 2 months.

**Ants, Crickets, Grasshoppers and Sowbugs (Pillbugs):** Apply 2 2/3 lbs. per 1000 sq. ft. (13 lbs. per 5000 sq. ft.)

**Cutworms, Earwigs:** Apply 1 3/5 lbs. per 1000 sq. ft. (8 lbs. per 5000 sq. ft.).

**European Crane Fly Larvae (Maggot):** For control use 3 lbs. per 1000 sq. ft. Make application when damage is noticed or there are in excess of 20 larvae per sq. ft. Contact your Cooperative Agricultural Extension Service for proper timing to treat in your area.

**To Control Billbug Larvae:** Apply 2 1/2 to 10 lbs. per 1000 sq. ft. when larvae are present.

**VEGETABLE GARDEN SOIL INSECTS**

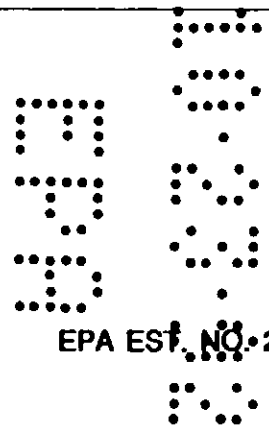
Crop	Pest	Amount Per 50 row ft.	Pounds Per 1000 sq. ft.	Use Directions	Restrictions
Broccoli	Root	3 2/5 oz.	--	Apply in seed furrow at planting and in a band across top of row, and mix into soil to a depth of 3-4 inches. Do not apply more than 5 1/6 lbs. of this product in 1000 sq. ft. of 20 in. rows, or per 1000 sq. ft. at any spacing.	Do not make more than one application per season. Do not use rutabaga tops for food or feed purposes.
Brussels Sprouts	Maggots	to 6 4/5 oz.			
Cabbage					
Cauliflower					
Chinese Cabbage					
Collards					
Kale					
Kohlrabi					
Rutabagas					
Turnips					

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VEGETABLE GARDEN SOIL INSECTS (continued)

Crop	Pest	Amount Per 50 row ft.	Pounds Per 1000 sq. ft.	Use Directions	Restrictions
Radishes	Root Maggots	2-2/3 ozs.	--	Apply the granules in the seed furrow with the seed at planting time. Do not apply more than 6 1/4 lbs per 1000 sq. ft.	Do not make more than one application per season.
Onions (dry bulb)	Onion Maggots	2-3/4 ozs.	--	Apply the granules in furrow at 18-in. row spacing.	Do not make more than one application per season.
Sweet Corn Popcorn	Northern Southern & Western			For rootworm, cutworm, billbug, borer, symphylans, wireworm, seed corn maggot, seed corn beetle, and grubs, apply in the seed furrow with the seed at planting, and across top of row.  For cutworms, wireworms, billbugs, grubs, and flea beetle larvae, apply before planting by distributing granules uniformly over area and mixing in soil to a depth of 4 - 6 inches.  For best rootworm control, apply at cultivation time by working in granules at the base of the plants on both sides of the row, and cover with soil.	Do not apply within 35 days before harvest.  Do not exceed 12 ozs. per 50 ft. of row or 4 2/3 lbs. per 1000 sq. ft. per crop season.
	Corn root worm larvae	6 ozs.	--		
	Cutworms	6 ozs.	2 1/3 to 4 2/3 lbs.		
	Wireworms*	6 to 12 ozs.	4 2/3 lbs.		
	Billbugs	6 to 12 ozs.	4 2/3 lbs.		
	Seed corn maggot	6 ozs.	--		
	Grubs	12 ozs.	4 2/3 lbs.		
	Lesser cornstalk borer	6 to 12 ozs.	--		
	Seed corn beetle	6 to 12 ozs.	--		
	Flea beetle larvae	--	4 2/3 lbs.		
Symphylans	6 to 9 ozs.	--			

\* 6 oz. rate - suppression only.



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### SPREADER SETTING

To help obtain uniform distribution, apply one-half the required amount of product in one direction, then apply the balance at right angle.

SPREADER TYPE	RATE IN LBS. PER 1,000 SQ. FT.			
	2-1/2	3-1/2	5	10
Lilly Miller	4-3/4	5-3/4	7	12-1/2
Ortho 3000 Drop Spreader	7	8	9	*
Ortho 4000 Broadcast Spreader	6	7	9	13
Scotts Pf-1, Pf-2 Drop Spreader	5-1/2	6-1/2	7-1/2	10-1/2
Scotts Easy Green Broadcast Spreader	26-1/2	27-1/2	29-1/2	*
Red Dev. SB 50-P Broadcast Spreader	3	4-1/2	6	*
Red Devil SB 82-P Broadcast Spreader	3	4-1/2	6	*
Red Devil FH 22 Drop Spreader	4-1/2	5-1/2	6-1/2	*
Central Plastic Drop Spreaders	5-1/2	6-1/2	7-1/2	10-1/2
Sears Plastic Drop Spreaders	5-1/2	6-1/2	7-1/2	10-1/2

\* Spreader manufacturer recommends two applications at the 5 lb. setting.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied extends to the use of this product contrary to label instruction or under abnormal conditions or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

THIS CONTAINER IS FILLED BY WEIGHT NOT BY VOLUME. YOU CAN BE ASSURED OF THE PROPER WEIGHT EVEN THOUGH SOME SETTLING OF CONTENTS NORMALLY OCCURS DURING TRANSPORTATION AND HANDLING.

EPA REG. NO. 28293-202(E)

EPA EST. NO. 28293-FL-1

