

Mr. Irvin Baker  
Seacoast Laboratories, Inc.  
P.O. Box 373  
Dayton, NJ 08810

SEP 27 1990

Subject: Amendment. Revise per Diazinon Registration Standard &  
to reflect only those uses/rates supported by Ciba-Geigy  
Twin Light Diazinon Lawn Insecticide  
EPA Reg. No. 1159-188  
Your submission received May 25, 1990

Dear Mr. Baker:

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) In the second sentence of the Environmental Hazards text, add a comma after "waterfowl" so that the sentence reads as follows:

Birds, especially waterfowl, feeding or drinking on treated areas may be killed.

- 2) In the table entitled "APPROXIMATE SPREADER SETTINGS", delete the columns "1 3/4 lbs." and "2 1/2 lbs.", since the only lawn application rate being supported for reregistration of 5% diazinon granular products is 2 lbs./1000 square feet. Also, revise the heading so that it reads:

APPROXIMATE SPREADER SETTINGS  
(To deliver 2 lbs. per 1000 sq. ft.)

Then, delete "2 lbs." from directly over the recommended settings, since it will be included in the heading. Regarding the recommended settings, the Agency does not understand why there is such a discrepancy in the recommended settings between Ciba-Geigy's label and yours (especially since the products are identical enough so that you are referencing Ciba-Geigy's product chemistry and toxicity data). Please compare with the Ciba-Geigy label and revise your table, if appropriate, or provide written explanation to the Agency for the variations.

- 3) Under the heading "In gardens Twin Light Lawn Insect Killer kills" 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.
- 4) In the Overall Lawn Application "Precautions", revise the end of the fourth sentence to read: "... increase potential hazards to birds and waterfowl."
- 5) Also in this same "NOTE", 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.

- 6) Delete the directions for control of lesser cornstalk borers on beans. Ciba-Geigy is not supporting reregistration of post-emergence soil or foliar application of granular diazinon.
- 7) Since the revised directions for beans (see item "6", above) will only include cutworms and wireworms, you can then relocate "celery", "cucumber", "melons", and "peas" up to this set of directions. Be sure to relocate the limitation note regarding succulent peas at the same time. It is noted that you have deleted some crops that appeared on your previous label. You may elect to re-add two of these previously claimed crops, "squash (winter and summer)" and "sweet corn" to this same set of directions.
- 8) You may elect to re-add the crop "endive (escarole)" to the directions set that includes carrots, lettuce, peppers, and tomatoes. This crop had appeared on your previous label.
- 9) For the crop "onions", revise the "Timing/Special Directions" to read as follows (retain the NOTE as it currently appears):

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

\* 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. The Agency understands that the current submission supersedes your submission dated August 16, 1989.

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

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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)



4 } 5  
Net Weight  
25 pounds  
(11.3 Kg)

# \* Diazinon® Lawn Insect Killer

5% granular

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

SEP 27 1990

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

Kills: Chinch Bugs Clover Mites  
Sod Webworms (Lawn Moths)  
Ants Japanese Beetle Grubs

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

1159-188

Covers up to 12,500 Square Feet

ACTIVE INGREDIENT

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

5%  
95%

INERT INGREDIENTS

U.S. Patent No. 2,754,243

\*Diazinon® Trademark of CIBA GEIGY Corp

EPA Reg. No. 1159-188

EPA Est. 2158 CH 1 & 9158 N11 © Ciba-Geigy. Use of this letter used as first letter of unit code on end of container. Any EPA Est. printed at end of container overrides preprinted EPA Est. designation.

KEEP OUT OF REACH OF CHILDREN  
CAUTION  
STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED —

Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by sticking back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF INHALED —

Remove victim to fresh air and apply respiration if indicated.

IF ON SKIN —

Wash promptly with soap and water. Rinse thoroughly.

Rinse eyes for at least 15 minutes with 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.

SEE BACK PANEL FOR ADDITIONAL CAUTIONS



Manufactured For:

**Seacoast**  
**LABORATORIES, INC.**  
**DAYTON, NJ 08810**



# \* Diazinon<sup>®</sup>

## Lawn Insect Killer

5% granular

Net Weight  
25 pounds  
(11.3 kg)

### 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.

#### 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 of use, ducks or geese, can be expected in the treated area after treatment (except spot treatment) apply a minimum of 1/2 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.

### 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 1-800-888-6372 day or night.

### WARRANTY STATEMENT

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instruction.

#### APPROXIMATE SPREADER SETTINGS

per 1000 sq. ft.

	1 1/2 lbs.	2 1/2 lbs.	3 1/2 lbs.
Greenview Drop 105	7	7 1/2	7 1/2
Central Drop 550	7	7 1/2	7 1/2
Central Broadcast 606B	-	3 1/2	3 1/2
Cyclone B1-50	-	3	3 1/2
Ortho Drop 3000	5 1/2	5 1/2	7
Scotts Drop PF2	4 1/2	5 1/2	5
Scotts Broadcast 0214	8 1/2	0	0 1/2
Scotts Prof. Broadcast R 7X	8	0	0 1/2
Sears Drop 671 19151	6 1/2	7 1/2	8
Sears Broadcast 671 1925-	-	3 1/2	3 1/2

The age, condition of spreader, speed of operation and roughness of lawn will result in different rates applied. These suggested spreader settings are for your guidance only.

### In Lawns T.L. Lawn Insect Killer Kills

Ants	Crickets	Soil webworms
Armyworms	Cutworms	Sowbugs
Bermudagrass mites	Digger wasps	Springtails
Billbugs	Earwigs	White grubs of:
Brown dog ticks	"Fire ants"	- Japanese beetle
Chiggers	Fleas	- European chaffer
Chinch bugs	Lawn mites	- Southern chaffer
Clover mites	Lasthoppers	
	Millipedes	*Aids in control

### In Gardens T.L. Lawn Insecticide Kills

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

### DIRECTIONS FOR USE

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

#### Overall Lawn Application

controls the following lawn insects on both grass and dandelion lawns:

Ants - Armyworms - Bermudagrass mites - Brown dog ticks - Chiggers - Chinch bugs - Clover mites - Crickets - Cutworms - Earwigs - Fleas - Lawn moths (soil 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 treatment), water lawn with at least 1/2 inch water immediately after application, however stop watering before puddling occurs.

**Apply** 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 1,000 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 chaffer, Southern chaffer, *Attemus sputulatus* (dung beetle). 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 1/2-1 in. of water after application. Treat again in late Summer or early Fall if a second generation occurs.

#### Hyperdoes weevils

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

#### Spot Treatment Lawns

**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 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 of 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	Sowbugs (Fleas)
Clover mites	Fleas	Springtails (Collembola)

Apply a 5 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

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.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Beans (Pole Snap or Lima)	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Succulent only	Wireworms	10 1/2-14 oz. per 500 sq. ft.	
	Lesser & Corn root Borers	3 1/2 oz. per 500 sq. ft.	Apply in a 6 inch band centered over the row when plants are 1/2-1 inch tall.

NOTE: Do not use on dried bean varieties, such as pinos, dried lima navy beans, etc.

Broccoli	Root Maggots	7-10 1/2 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting or transplanting.
Brussels Sprouts			
Cabbage	Cutworms	7-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.
Cauliflower	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.
Lettuce	Wireworms	10 1/2-14 oz. per 500 sq. ft.	
Peppers			
Tomatoes	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.
Cucumber			
Melons	Wireworms	10 1/2-14 oz. per 500 sq. ft.	
Peas (succulent only)			
Parsley			

NOTE: Do not use on dried pea varieties such as dried black-eyed peas.

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.
			NOTE: Diazinon may not control organic phosphate-resistant onion maggots.
	Wireworms	10 1/2-14 oz. per 500 sq. ft.	Broadcast and mix into soil just before planting.