

APR 23 1992

Mr. John L. Prues
Dexol Industries
1450 W. 228th Street
Torrance, CA 90501

Subject: Amendment - Revise per Diazinon Registration Standard
Dexol Diazinon 5% Granules
EPA Reg. No. 192-161
Your submission received April 11, 1990

Dear Mr. Prues:

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

- 1) The Diazinon Registration Standard stipulates that diazinon outdoor use products are classified as Restricted Use due to avian and aquatic toxicity unless they are registered for application by homeowners to the home yard and/or home garden or by commercial applicators only to home yards. You can clarify the intended use site for this product by addition of "For outdoor use on the home lawn and in the home garden only" to the front panel. A good location for this addition would be just under the golf course/sod farm prohibition. Also, modify the front panel "Ready to use For" listing to "Home Lawns and Home Vegetable Gardens".
- 2) Change "Active Ingredients" to Active Ingredient since there is only one.
- 3) In the "Precautions" under the heading "Lawn Application", revise the sixth sentence to read as follows:

Where thorough 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.

- 4) The spreader setting table should be relocated to appear at either the end of the overall lawn application directions, i.e., just after the directions for control of Hyperodes weevil, or on the same side gusset as the list of "In lawns kills" pest listing. Delete the list of insect pests that currently appears beneath the spreader settings table, since the table's new location will be near a listing of lawn pests controlled by overall lawn application of the product. The lawn spreader setting table should reflect the single acceptable rate of 2 lbs. per 1000 sq. ft. An appropriate lawn spreader setting chart would be:

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

<u>Spreader Make and Model</u>	<u>Setting</u>
Cyclone Model B1 Rotary	4½
ORTHO Drop Spreader Model 3000	4½
ORTHO Broadcast Spreader Model 4000	4½
Scott Precision Flow Spreader Model PF-4	4
Sears Craftsman Model 671.19198	6

- 5) On the left side gusset, under the heading "IN GARDENS DIAZINON KILLS", delete the pests "Armyworms", and Rootworms" since the application methods required to control these pests, in-furrow or foliar broadcast, are not being supported for reregistration of granular diazinon products and directions for control of these pests will not appear on the revised label.

- 6) Revise the first sentence of the directions for aiding in control of fire ants to read as follows to clearly indicate the home-use nature of this product:

To aid in the control of fire ants in home lawns and other outdoor home recreational areas, apply 1/2 cups over, and 2 ft. around, each fire ant mound.

(Delete the "m" before the temperature values in the Note for this use.)

- 7) Under the heading "Vegetables", at the end of the second paragraph, add the statement:

"Do not apply this product to food crops grown in green houses. Do not apply to dried bean varieties such as pintos, dried limas, navy beans, etc.

- 8) The rate for control of Root Maggots should read "7 to 10 1/2 ozs."

- 9) For the crop "Radishes", delete the directions for control of "Root Maggots". Ciba-Geigy is not supporting reregistration of in-furrow application of granular diazinon.
- 10) The text of the Hazards to Humans and Domestic Animals should be revised as follows to reflect the toxicology data you are relying upon to support reregistration of this product:

Harmful if swallowed 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.
- 11) Based on Ciba-Geigy's toxicology data submitted in support of reregistration of their 5% diazinon granular products, and upon which you are relying for reregistration of the subject product, in the Statement of Practical Treatment add "Get medical attention" to the end of the "If on skin" advice.
- 12) Revise the Environmental Hazards to read as follows:

This pesticide 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 of granules. For lawns, 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), water lawn with at least 1/4 inch of water immediately after applying this product, however, stop watering before puddling occurs. 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 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.

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A stamped copy of the label is enclosed for your records. Please submit five copies of the revised amended label prior to release for shipment under the amended label. Labeling released for shipment after the August 31, 1992 deadline imposed by the Diazinon Registration Standard should be the revised amended label.

Sincerely yours,

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

Enclosure

5911

ACCEPTED
with COMMENTS
in EPA Letter D-1000

[DEXOL DIAZINON 5% GRANULES FRONT]

APR 23 1992

192-161
EPA Reg. No.

DEXOL

This product must not be used on golf courses or sod farms

DIAZINON 5% GRANULES

READY TO USE FOR:

LAWNS to kill Billbugs, Chinch Bugs, Sod Webworms, Fire Ants*, & White Grubs as listed.

VEGETABLE GARDENS to kill Cutworms, Wireworms, Root Maggots on listed crops.

OUTSIDE THE HOME to kill Ants, Fleas, Brown Dog Ticks, Chiggers, Crickets, Clover Mites & Other Listed Pests.

*Aids in control

Active Ingredients:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate.....	5.0%
Inert Ingredients:.....	95.0%
	Total 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS:

BEST AVAILABLE COPY

NET WT. _____

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[BACK PANEL DIAZINON 5% GRANULES]

DIAZINON 5% GRANULES

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

LAWN APPLICATION: Dexol Diazinon 5% 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)

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 0.25 inch water immediately after application, however, stop watering before puddling occurs.

Apply Dexol Diazinon 5% Granules with a fertilizer spreader. See spreader setting chart on side of bag. 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' x 50') or 3.2 oz. per 100 sq. ft. (an area 10' x 10')

Billbugs; White grubs of Japanese beetle, European chafer, Southern chafer, Ataenius 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 in. of water after application. Treat again in late Summer or Early Fall in a second generation occurs.

Hyperodes weevils: Apply 2 lbs. per 1000 sq. ft. of grass. Water grass thoroughly after application. Treat problem areas in mid-April and again in mid-May.

BEST AVAILABLE COPY

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SPOT TREATMENT

Ants: Apply 1 1/2 teaspoons of Dexol Diazinon 5% Granules 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. 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, m 65-80°F, or in early morning or late evening hours. Treat new mounds as they appear.

Digger Wasps: Apply 1 1/2 teaspoons of Dexol Diazinon 5% Granules 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, Brown Dog Ticks, Clover Mites, Crickets, Earwigs, Fleas, Millipedes, Sowbugs (Pillbugs) , Springtails (Collembola)

Apply a 5 foot band of Dexol Diazinon 5% Granules next to the house foundation. Distribute granules uniformly, using a rate of 3.2 oz. for each 100 sq. ft. of area (5' x 20') treated. Repeat as necessary.

Vegetables

Dexol Diazinon 5% Granules 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 stated otherwise, applications for control of pests listed below should be thoroughly mixed into the soil during or immediately after application.

Cutworms (surface and subterranean)*

Beans (Pole, Snap or Lima), Beets, Broccoli, Brussel Sprouts, Cantaloupes, Carrots, Cauliflower, Celery, Collards, Cabbage, Cucumbers, Endive (Escarole), Kale, Lettuce, Melons (Cantaloupes, Casabas, Crenshaws, Honeydew), Parsley, Peas, Peppers, Potatoes, Spinach, Squash (Summer & Winter), Sweet Corn, Swiss Chard, Tomatoes, Watermelon.

Apply 7-14 oz. per 500 Sq. ft. Mix into the soil 2-3 inches just before planting. *NOTE: If type of cutworm cannot be identified, mix into soil 4-6 inches just before planting.

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Mole Crickets

Beets, Broccoli, Brussel Sprouts, Cabbage, Carrots, Cauliflower, Collards, Endive (Escarole), Kale, Lettuce, Mustard, Peppers, Radishes, Tomatoes, Turnips.

Apply 3 1/2 ozs. per 500 sq. feet. Mix into soil 1-2 inches 1-2 days before planting.

Wireworms

Beans(Pole, Snap or Lima),Beets, Broccoli, Brussel Sprouts, Cabbage, Carrots, Cauliflower, Celery, Collards, Cucumber, Endive (Escarole), Kale, Melons (Cantaloupes, Casabas, Crenshaws, Honeydew), Onions(Green and bulb), Parsley, Peas, Peppers, Potatoes, Spinach, Squash (Summer & Winter), Sweet Corn, Sweet Potatoes, Swiss Chard, Tomatoes, Turnips, Watermelons.

Apply 10 1/2 -14 oz. per 500 Sq. feet. Mix into soil 4-8 inches just before planting.

Broccoli, Brussel Sprouts, Cabbage, Cauliflower - Root Maggots: Apply 7-10 ozs. per 500 Sq. ft. Mix into soil 3-4 inches just before planting or transplanting.

Onions (green & bulb)-Onion Maggots: Apply 7-14 oz. per 500 sq. ft. Mix into soil 3-4 inches just before planting.

Radishes-Root Maggots: Apply 2 1/2 -2 4/5 ozs. per 1000 linear feet in the seed furrow at planting time.

Sweet Corn- Seed Corn Maggots: Apply 7-14 oz. per 500 sq. Ft. Mix into soil 2 inches just before planting.

Storage & 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.

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 or 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 spoon or measuring cups must not be used for food purposes after use in measuring pesticides. Do not contaminate ornamental fish ponds. Do not allow



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

NOTE: 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 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 or if waterfowl, i.e., duck or geese, can be expected in the treated area after treatment (except spot treatment), apply a minimum of 0.25 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). Run-off 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.

NOTICE: 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 this material when such use and/or handling is contrary to label instructions.

DEXOL INDUSTRIES
Torrance, CA. 90501

EPA Reg. No. 192-161
EPA Est. No. 192-CA-1

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[Left Side Gusset]

DEXOL DIAZINON 5% GRANULES

In Gardens Kills:

- Armyworms
- Cutworms
- Mole Crickets
- Onion Maggots
- Root Maggots
- Rootworms
- Wireworms

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

SPREADER SETTING NO.
(PER 1,000 SQ. FT.)

Spreader	Insects listed Below*
Make & Model	Grass or Dichondra Lawn 2 lbs.
Cyclone Model B1 Rotary	4 1/2
Ortho Drop Spreader Model 3000	4 1/2
Ortho Broadcast Spreader Model 4000	4 1/2
Scotts Precision Flow Model PF-4	4
Sears Craftsman Model 671.19198	6

*Ants, Armyworms, Bermudagrass Mites, Brown Dog Ticks, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Earwigs, Fleas, Hyperodes Weevil, Lawn Moths (Sod Webworms), Leafhoppers, Millipedes, Sowbugs (Bill Bugs), Springtails (Collembola)

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[Right Side Gusset]

DEXOL DIAZINON 5% GRANULES

IN LAWNS KILLS:

- ANTS
- ARMYWORMS
- BERMUDAGRASS MITES
- BILLBUGS
- BROWN DOG TICKS
- CHIGGERS
- CHINCH BUGS
- CLOVER MITES
- CRICKETS
- CUTWORMS
- DIGGER WASPS
- EARWIGS
- FLEAS
- FIRE ANTS*
- LAWN MOTHS
- LEAFHOPPERS
- LEAFHOPPERS
- MILLIPEDES
- SOD WEDWORMS
- SOWBUGS
- SPRINGTAILS
- WHITE GRUBS OF:
 - EUROPEAN CHAFER
 - JAPANESE BEETLE
 - SOUTHERN CHAFER

* AIDS IN CONTROL

[Top and Bottom Flaps]

DEXOL DIAZINON 5% GRANULES

REVISION: April 5, 1990