

394963

APR 12 1991

Mr. Daniel Paradiso
The Andersons Lawn Fertilizer Division
d/b/a Free Flow Fertilizer
P.O. Box 119
Maumee, OH 43537

Dear Mr. Paradiso:

Subject: Amendment - Revise per Diazinon Registration Standard
Turf Care Lawn and Garden Insecticide 5% Diazinon
EPA Reg. No. 9198-62
Your submission dated April 13, 1990

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

- 1) Diazinon products labeled for outdoor use must specify a limitation to home lawn (and/or home garden) use to avoid triggering the Restricted Use classification. The following clarification of the intended use site should be added to the front panel, preferably directly beneath the prohibition against use on golf courses and sod farms:

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

- 2) The term "Inert Ingredient" must be in the same type size and style as the term "Active Ingredient".
- 3) As you are aware, there are a number of label elements with type size minimums. Please be certain that your finished labels meet all type size requirements.
- 4) The Agency has recently completed its review of the product specific toxicology data for 5% diazinon granular end-use products which was submitted by Ciba-Geigy in response to the Diazinon Registration Standard and upon which you are relying to support reregistration of your product. Based on the results of the submitted studies, the following label revisions are necessary:

- a) The "Hazards to Humans and Domestic Animals" text should be revised to read as follows:

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 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.

- b) Revise the "If on skin" advice in the "Statement of Practical Treatment" to read as follows:

If on skin: Wash promptly with plenty of soap and water. Rinse thoroughly. Get medical attention.

- 5) In the second sentence of the Environmental Hazards text, add a comma after "especially waterfowl". Please note that the Environmental Hazards section may be consolidated into a single paragraph, if you wish. In keeping with a recent policy decision, please replace "Do not apply directly to water or wetlands (including swamps, bogs, marshes, and potholes)." with "Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark."
- 6) At the beginning of the directions for use replace "TURF CARE LAWN INSECT CONTROL PLUS LAWN FOOD 28-3-9 KILLS" with "TURF CARE LAWN AND GARDEN INSECTICIDE 5% DIAZINON KILLS" and in the list of pests controlled which follows revise "Bermuda Grass Mites" to "Bermudagrass Mites".
- 7) In the lawn use "Precautions", revise the end of fourth sentence to read "... hazards to birds and waterfowl.". In the sixth sentence of this same section, revise "i.e., ducks, geese," to "i.e., ducks or geese,".
- 8) Only one lawn application rate may appear on each diazinon lawn use product label, regardless of the pest to be controlled. For this 5% product that rate is 2 lbs. per 1000 sq. ft. of lawn. Therefore, revise the rate appearing at the beginning of the directions for control of billbugs and white grubs to 2 lbs., rather than 2.5 lbs.. Also, delete the last sentence from the end of the directions for control of billbugs and

white grubs. That sentence (from Ciba-Geigy's label) pertains to control of the second generation of dung beetles, a pest which appears on Ciba-Geigy's label but is not claimed on your label.

- 9) The lawn spreader setting table should contain specific recommendations for typical homeowner-use spreaders and must reflect the single acceptable rate of 2 lbs. per 1000 sq. ft.. No spreader chart was included on the submitted label. Based on Ciba-Geigy's label for their 5% granular diazinon lawn use product (and assuming a similar product particle size and density) 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>
Central Imperial Mark No. 1662-G	6½
Central Suburbia Lawn Spreader No. 1622-0	6½
Cyclone Model B1 Rotary	4½
Greenfield Model 105	6½
ORTHO Drop Spreader Model 3000	4½
ORTHO Broadcast Spreader Model 4000	4½
J.C. Penny Model 6005	7½
J.C. Penny Rotary Spreader	5
Scott Precision Flow Spreader Model PF-4	4
Sears Craftsman Model 671.19198	6

- 10) Directly over the directions for spot application to control ants and digger wasps, add the following headings:

Lawn Spot Application
Ants, Digger wasps:

- 11) Your directions for use in vegetable gardens must be replaced in its entirety, including the heading "APPLICATION DIRECTIONS GARDEN)". The revised directions should read as follows:

HOME VEGETABLE GARDENS

In the home garden, to control certain soil insects on crops listed below, apply Turf Care Lawn and Garden Insecticide 5% Diazinon to the soil at the rate shown for the type of insect pest you want to control and immediately mix thoroughly into the soil to the depth specified. Do not apply this product to food crops grown in greenhouses.

Cutworms (surface and subterranean) - Broccoli, Cabbage, Cantaloupe, Cauliflower, Celery, Collards, Cucumbers, Endive (escarole), Kale, Lettuce, Lima Beans*, Muskmelon, Parsley, Peas*, Peppers, Potatoes, Snap Beans, Spinach, Summer Squash, Swiss Chard, Tomatoes, Watermelon, and Winter Squash:

Just before planting, broadcast 7 to 14 oz. per 500 sq. ft. of garden and immediately mix into the soil to a depth of 2 to 3 inches for control of surface cutworms or 3 to 6 inches for control of subterranean cutworms. If type of cutworm cannot be identified, mix into the soil 4 to 6 inches deep.

* Do not use on dried bean varieties, such as pintos, dried limas, navy beans, etc. Do not use on dried pea varieties, such as dried black-eyed peas.

Mole Crickets - Broccoli, Cabbage, Cauliflower, Collards, Endive (escarole), Kale, Lettuce, Mustard, Peppers, Radishes, Tomatoes, and Turnips:

1 to 2 days before planting, broadcast 3½ oz. per 500 sq. ft. of garden and immediately mix into the soil to a depth of 1 to 2 inches.

Wireworms - Broccoli, Cabbage, Cantaloupe, Carrots, Cauliflower, Celery, Collards, Sweet Corn, Cucumbers, Endive (escarole), Kale, Lettuce, Lima Beans, Muskmelons, Onions, Parsely, Peas, Peppers, Snap Beans, Spinach, Summer Squash, Sweet Potatoes, Swiss Chard, Tomatoes, Watermelons, and Winter Squash:

Just before planting, broadcast 10½ to 14 oz. per 500 sq. ft. of garden and immediately mix into the soil to a depth of 4 to 8 inches.

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, 1991 deadline imposed by the Diazinon Registration Standard should be the revised amended label.

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide Rodenticide Branch

(FRONT PANEL)

TURF CARE LAWN AND GARDEN INSECTICIDE

5% DIAZINON

THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOO FARMS

ACTIVE INGREDIENT:

Diazinon: 0,0-Diethyl 0-(2-isopropyl-5-methyl-4-pyrimidinyl)	
phosphorothioate	5.00%
INERT INGREDIENTS	95.00%
TOTAL	100.00%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Back Panel For Additional Precautionary Statements

NET WEIGHT 10 LBS.

TREATS 5,000 SQ. FT.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

APR 12 1991

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

9198-62

EPA Reg. No. 9198-62

EPA Est. 9198-OH-1

(BACK PANEL)

NET WEIGHT 10 LBS.

TREATS 5,000 SQ. FT.

TURF CARE LAWN AND GARDEN INSECTICIDE

5% DIAZINON

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

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 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 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.

BEST AVAILABLE COPY

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., ducks or geese, can be expected in the treated are 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.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with it's labeling.

TUFF CARE GRANULAR LAWN INSECT CONTROL PLUS LAWN FOOD 28-3-3 KILLS:

- | | | |
|---------------------|--------------|-------------------|
| Ants | Crickets | Springtails |
| Armyworms | Cutworms | Sod Webworms |
| Bermuda Grass Mites | Digger wasps | Sowbugs |
| Billbugs | Earwigs | White grubs of: |
| Brown Dog Ticks | Fleas | - Japanese Beetle |
| Chiggers | Lawn moths | - European chafer |
| Chinch bugs | Leafhoppers | - Southern chafer |
| Clover mites | Millipedes | |

OVERALL LAWN APPLICATION

To control the following lawn insects on both grass and dichondra lawns, this product should be applied at 2 lbs. per 1000 sq. ft.

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)

BEST AVAILABLE COPY

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.

Billbugs; White grubs of Japanese beetle, European chafer, Southern chafer: Apply 2.5 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 treat any time between late July and early October. Water grass thoroughly with 1/4-1/2 in. of water after application. Treat again in late Summer or early Fall if 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.

Turf Care Lawn and Garden Insecticide can be used for localized control of ants and Digger Wasps. Apply 1 1/2 teaspoons over and around each anthill, or in and around each wasp ground nest opening. Apply to wasp nests around dusk, when activity is low.

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APPLICATION DIRECTIONS (GARDEN)

For garden insect control apply Turf Care Lawn and Garden Insecticide as listed for crops below. Apply just before planting and immediately mix into the soil to the specified depth.

Cutworms, above and below ground. Broccoli, Cabbage, Cantaloupe, Cauliflower, Celery, Collards, Cucumbers, Endive (escarole), Kale, Lettuce, Lima Beans, Muskmelons, Parsley, Peas, Peppers, Potatoes, Snap Beans, Spinach, Summer Squash, Swiss Chard, Tomatoes, Watermelons, Winter Squash.

Use 7 to 14 oz. per 500 sq. ft. and mix into soil to a depth of 2-3 inches for control of surface cutworms and 3-5 inches for control of cutworms below the surface. Mix into soil 4-5 inches for potatoes.

Mole Crickets: Broccoli, Cabbage, Cauliflower, Collards, Endive (escarole), Kale, Lettuce, Mustard, Peppers, Radishes, Strawberries, Tomatoes, Turnips.

Use 4 oz. per 500 sq. ft. and mix into soil to a depth of 1-2 inches.

Webworms: Broccoli, Cabbage, Cantaloupe, Carrots, Cauliflower, Celery, Collards, Corn, Cucumbers, Endive (escarole), Kale, Lettuce, Lima Beans, Muskmelons, Onions, Parsley, Peas, Peppers, Snap Beans, Spinach, Summer Squash, Sweet Potatoes, Swiss Chard, Tomatoes, Watermelons, Winter Squash.

Use 7-14 oz. per 500 sq. ft. and mix into soil to a depth of 4-9 inches.

SUGGESTED SPREADER SETTINGS

(AVAILABLE AT FINAL PRINTING)

NOTE: Above spreader settings are approximate. Differences may occur due to condition of spreader, speed at which applied and roughness of area treated. Calculate the size of area to be treated and do not over or under apply. Be sure to shut off spreader while turning or stopping to prevent accidental over-application and burning of grass. Fill spreader on driveway or sidewalk to eliminate chance of spillage on grass. Do not hand spread.

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.

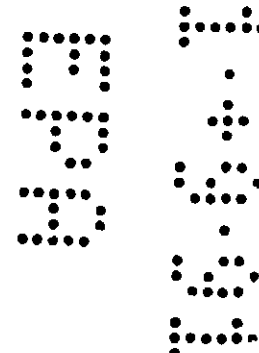
WARRANTY STATEMENT

MANUFACTURER warrants that this product (1) conforms to the ingredient statement on the label and (2) is reasonably fit for the purposes set forth in the Directions for Use. EXCEPT AS SO WARRANTED, THE PRODUCT IS SOLD AS IS. MANUFACTURER MAKES NO OTHER WARRANTY EXPRESS OR IMPLIED.

The manufacturer's directions regarding use of this product are based upon tests believed to be reliable. All statements made concerning this product apply only when used as directed, under normal use conditions. FOLLOW DIRECTIONS CAREFULLY. Timing and method of application, weather and crop conditions, mixture with other chemical not specifically recommended and other influencing factors in the use of this product are beyond the control of the manufacturer. Buyer assumes all risks of use, storage or handling of this product.

Manufactured by:

The Anderson
Lawn Fertilizer Division
P.O. Box 119
Maumee, OH 43537



:9198-62
4/12/90

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