

APR 10 1992

Sunniland Corporation
c/o Mr. H. R. McLane
7210 Red Road, Suite 206
Miami, FL 33143

Dear Mr. McLane:

Subject: Amendment - Revise per Diazinon Registration Standard
Diazinon 5% Granules
EPA Reg. No. 9404-62
Your submission dated April 19, 1990

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

- 1) Revise the front panel use-site limitation to read "For Use on Home Lawns & Gardens and Around the Outside of Homes Only"

[Note: The quotation marks appearing around text revisions specified in this Notice should not appear on your revised labeling.]

- 2) In the front panel claims, revise "AS AN AID IN THE CONTROL OF FIRE ANTS" to "AIDS IN THE CONTROL OF FIRE ANTS".
- 3) Based upon the results of the Agency's review of the product specific toxicology data submitted by Ciba-Geigy to support reregistration of 5% diazinon granular end-use products, the following revisions must be made to the text of the Statement of Practical Treatment and the Hazards to Humans and Domestic Animals:

- a) 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.

- b) Revise the Hazards to Humans and Domestic Animals section to read as follows:

Hazards to Humans and Domestic Animals

CAUTION: 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.

- 4) In the Environmental Hazards, revise "do not apply in Nassau County" to read "do not apply to lawns in Nassau County". Also, add "For lawns," to the beginning of the seventh sentence, i.e., it should read "For lawns, where irrigation (watering) is recommended ...". Also in this same section, revise the sentence "Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes)." to read "Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the median high water mark.".
- 5) In the listing of lawn pests under the heading "LAWN INSECTS", delete "Onion Maggots" and "Root Maggots" since these are not lawn pests.
- 6) Relocate the heading "GARDEN INSECTS" and the associated pest listing to appear directly above the heading "VEGETABLES - INSECT CONTROL", rather than its current location between the listing of lawn pests and the overall lawn use application directions. When relocating this heading and listing, be sure to delete the pest names "Armyworms", and "Corn Borers" since foliar application (necessary to control these pests) is not being supported for reregistration of granular diazinon products. Delete the pest name "Rootworms", since no directions are given for this pest.
- 7) The directions for use cannot call for use of more product than is available in a full container as sold. For the one pound container, the lawn use rate for both surface feeding insects and soil insects, must be revised to 1 pound per 500 sq. ft.. Labels for containers 2 pounds or larger should indicate the 2 pounds per 1,000 sq. ft. of lawn rate.

- 8) Under the heading "OVERALL LAWN APPLICATION", revise the second category to "FOR SOIL INSECTS". The proposed heading, "FOR SOIL FEEDING INSECTS", is somewhat misleading, since the pests listed are actually root feeding soil insects.
- 9) Revise the heading "SPOT TREATMENTS FOR FIRE ANTS AND WASPS", to "LAWN SPOT TREATMENTS".
- 10) In the fire ant control directions, revise the beginning of the first sentence to read "To aid in the control of fire ants in home lawns and other outdoor home recreation areas,".
- 11) In the directions under the heading "BAND & PERIMETER TREATMENTS AROUND HOUSE FOUNDATION", revise the pest name "Sowbugs (Billbugs)" to "Sowbugs (Pillbugs)". Once the heading "Garden Insects and its associated pest listing have been relocated (see item "6", above) there should be room to consolidate the band and perimeter directions. The slightly modified consolidated text would then read as follows:
- For control of the above insects, apply a 5 foot wide band of this product next to the house foundation. Distribute the granules uniformly using a rate of 3.2 oz. for each 100 sq. ft. of area (5 ft. by 20 ft.) treated: i.e., one pound treats 500 sq. ft. (100 feet of foundation wall length). Repeat as necessary.
- 12) Since all the use directions call for immediate soil incorporation of the granules, in the paragraph appearing under the heading "VEGETABLES - INSECT CONTROL", replace "Unless directions under "Timing and Special Directions" state otherwise for insect control, the granules should be thoroughly mixed into the soil during or immediately after application." with " The granules should be immediately mixed thoroughly into the soil to the depth specified in the following table. Do not apply to food crops grown in greenhouses.".
- 13) Under the heading "INSECTS DEPTH IN INCHES TO MIX GRANULES INTO SOIL", add the following: Seed Corn Maggots - 2 " .
- 14) In the "Crop" entry for "Melons", add a comma after "Hybrids of these", since "Hybrids" refers to hybrids of the various types of melons listed, not hybrids of melons and watermelons.
- 15) For the crop "Onions", in the "Special Instructions for Onions & Sweet Potatoes" delete "by disking, harrowing, or other suitable means", since these refer to farm equipment techniques for agricultural-use labeling.

- 16) For the crop "Potatoes", delete "Do not use on "Hand Harvested" commercially grown potatoes".
- 17) For the crop " Sweet Corn" delete "See Special Instructions below." since all of the special instructions pertain to pests requiring application methods not being supported for reregistration, i.e., they deal with foliar application of granular diazinon to a food crop. The crop name "Sweet Corn" should then be deleted from beneath the heading "Special Instructions", since all the special instructions for use on sweet corn will have been deleted.
- 18) In the "Special Instructions" for insect control on specific vegetables, delete the directions for control of lesser Cornstalk Borers on beans, since Ciba-Geigy is not supporting reregistration of granular diazinon for use on food crops other than as a soil incorporated preplant application. Once the directions for use on lesser cornstalk borers has been deleted, the remaining pests, Cutworms and Wireworms, are the same as those listed for many other crops. This being the case, it would be better to delete the special instructions for use on beans, since the standard directions for cutworms and wireworms will also be adequate for this crop. Be sure to delete the crop name "BEANS" from under the heading "SPECIAL INSTRUCTIONS" and delete "See Special instructions below" after the crop name BEANS and replace it with the following entry:
- BEANS succulent only; do not use on dried bean varieties such as pintos, dried limas, navy beans, etc. (Cutworms, Wireworms)
- 19) In the "Special Instructions" for the crop "Sweet Potatoes", delete the directions for use in the Southeastern U.S., since this calls for a post-emergence non-incorporated application to a food crop, which is not being supported for reregistration.

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, as amended, must be the revised amended label.

Sincerely yours,

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

ACCEPTED
with COMMENTS

APR 10 1992



SUNNILAND
CORPORATION

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the purpose of registration under EPA Reg. 9404-62

DIAZINON 5% GRANULES

CRAWLING INSECT CONTROL

For Use in Lawns & Gardens and Around
the Outside of Homes

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

READY TO USE

AS AN AID IN THE CONTROL OF FIRE ANTS

1 Pounds Treats From 500 to 2285 Sq.Ft.

ACTIVE INGREDIENT:

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

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician immediately. Drink 1 or 2 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: Remove contaminated clothing and wash affected area with soap and water. IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists. NOTE TO PHYSICIAN - This product is an organo-phosphate 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 SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. 9404-62

EPA Est No. 9404-FL-1

PRECAUTIONARY STATEMENTS

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing dust and contact with eyes, skin or clothing. Wash thoroughly after handling and before eating or smoking. May cause skin 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. Where "watering in" is required, do not allow children or pets on those treated areas until granules are watered into the soil and grass or soil is dry. Do not use on pets, animals or livestock.

ENVIRONMENTAL HAZARDS

This product is highly toxic to birds and fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply the product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, NY between Nov. 1 and May 20. Do not exceed maximum permitted label rates, since 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 area after treatment (except spot treatment), apply a minimum of 1/4 inch of water immediately after applying this product. Stop watering 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.

NET WEIGHT 1 POUND

SUNNILAND CORPORATION
SANFORD, FLORIDA 32771

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. STORAGE: Store product in its original labeled container in a cool, dry, locked place out of reach of children. PESTICIDE DISPOSAL: Securely wrap 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.

LAWN INSECTS

ANTS, ARMYWORMS, BERMUDAGRASS MITES, BILLBUGS, BROWN DOG TICKS, CHIGGERS, CHINCH BUGS, CLOVER MITES, CRICKETS, CUTWORMS, DIGGER WASPS, EARWIGS, FIRE ANTS*, FLEAS, ONION MAGGOTS, ROOT MAGGOTS, SOD WEBWORMS(LAWN MOTHS), LEAFHOPPERS, MILLIPEDES, SOWBUGS, SPRINGTAILS, WHITE GRUBS OF EUROPEAN CHAFER, JAPANESE BEETLE, SOUTHERN CHAFER. *ANTS IN THE CONTROL OF FIRE ANTS.

GARDEN INSECTS

ARMYWORMS, CORN BOREFS, CUTWORMS, MOLE CRICKETS, ONION MAGGOTS, ROOT MAGGOTS, ROOTWORMS, WIREWORMS.

OVERALL LAWN APPLICATION

FOR SURFACE FEEDING INSECTS

Use 2 lbs. granules per 1,000 sq ft. for control of the following insects on both grass and dichondra lawns: ANTS, ARMYWORMS, BERMUDAGRASS MITES, BROWN DOG TICKS, CHIGGERS, CHINCH BUGS, CLOVER MITES, CRICKETS, CUTWORMS, EARWIGS, FLEAS (in the lawn, do not use this product on pets), LAWN MOTHS(Sod Webworms), LEAFHOPPERS, MILLIPEDES, SOW BUGS, SPRINGTAILS (COLLEMBOLA).

IMPORTANT APPLICATION PRECAUTIONS

Refer to Environmental Hazards paragraph on this label for information concerning the protection of waterfowl that might enter and feed on diazinon treated turf areas. Apply with a Lawn Spreader when grass is dry. See spreader settings chart below. Repeat as directed. For application with other types of equipment, apply at the same rate of 2 lbs. per 1,000 sq ft. or 3.2 oz. per 100 sq ft. = (an area 10 ft. x 10 ft.)

FOR SOIL FEEDING INSECTS

BILLBUGS, WHITE GRUBS OF JAPANESE BEETLES, EUROPEAN CHAFER, SOUTHERN CHAFER, ATANIUS SPRETULUS (Dung Beetle). Apply 2 lbs. per 1,000 sq ft. of lawn. Water grass thoroughly after application. For Billbug control, apply in spring or early summer when activity is first observed or when chewed or brown grass indicates damage from these insects. Repeat as necessary. For grub control, except Dung Beetles, 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 to 1/2 inch of water after application. Treat again in late summer or early fall if a second generation occurs. HYPENODES 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.

LAWN SPREADER SETTINGS

Spreader Make/Model	Setting to apply 2 lbs./1,000 sq ft.
Central Imperial #1662-G	8 1/2
Central Suburbia #1622-O	6 1/1
Cyclone #B1	4 1/2
Greenfield #105	8 1/2
Ortho #3000	4 1/2
Ortho #4000	4 1/2
J. C. Penney #8005	7 1/4
J. C. Penney #Rotary	5
Scott #PF-4	4
Sears Craftsman #671 19198	8

NOTE: Broadcast spreaders such as the Cyclone are dependent on rate of walking and turning speed of the broadcast unit. Carefully calculate the area to be treated and make certain the proper number of pounds is applied to the area. *Settings are calculated for spreaders in new condition. Spreader will vary and must be checked for accuracy.

SPOT TREATMENTS FOR FIRE ANTS & WASPS

ANTS: Apply 1 1/2 tsp. of granules over and around each ant hill. FIRE ANTS: To aid in the control of the fire ants in lawns and other recreational areas apply 1/2 cup of this product over, and 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. Repeat as necessary. Apply gently to avoid disturbing ants. Use of high pressure watering equipment may disturb the ants and cause migration thus reducing product effectiveness.

NOTE: For best results apply in cool weather, 65 to 80°F, or in early morning or late evening hours. Treat new mounds as they appear. Kills Fire Ants within 24 hours, no waiting for days or weeks to get results.

DIGGER WASPS: Apply 1 1/2 teaspoons in and around each nest opening. Apply at dusk when wasps are not active.

BAND & PERIMETER TREATMENTS AROUND HOUSE FOUNDATIONS

The following insects are commonly found around or near the foundation of houses as well as in the lawns. Certain of these may enter the house: ANTS, BROWN DOG TICKS, CLOVER MITES, CRICKETS, EARWIGS, FLEAS, MILLIPEDES, SOWBUGS (Billbug), SPRINGTAILS(COLLEMBOLA). For control of these insects apply a five foot wide band of this product next to the house foundation. Continued at end of next column.

For BAND & PERIMETER TREATMENT distribute granules uniformly using a rate of 3.2 ounces for each 100 sq ft. of area (5 ft. x 20 ft.) treated, i.e. one pound treats 500 Sq Ft. Repeat as necessary.

VEGETABLES - INSECT CONTROL

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. Unless directions under "Timing and Special Directions" state otherwise for insect control, the granules should be thoroughly mixed into the soil during or immediately after application.

INSECT	DEPTH TO MIX GRANULES INTO SOIL
Surface Cutworms	2-3 inches
Subterranean Cutworms	3-6 "
Cutworms (Unidentified)	4-6 "
Mole Crickets	1-2 "
Root Maggots	3-4 "
Wireworms	4-8 "

TIMING and SPECIAL DIRECTIONS

HOW MUCH TO USE - WHEN & HOW TO APPLY

For ROOT MAGGOTS on crops as listed below, broadcast and mix 7 to 10 1/2 oz./500 sq ft. into soil just before planting or transplanting. For CUTWORMS and SEED CORN MAGGOTS on crops listed below, broadcast and mix 7 to 14 oz./500 sq ft. into soil just before planting.

For MOLE CRICKETS on crops as listed below broadcast and mix 3 1/2 oz./500 sq ft. into soil 1-2 days before planting.

For WIREWORMS on crops as listed below, broadcast and mix 10-1/2 to 14 oz./500 sq ft. into soil just before planting.

FOLLOW THESE DIRECTIONS FOR CONTROL OF LISTED INSECTS AS THEY MAY ATTACK THE FOLLOWING PLANTS

BEANS	See Special Instructions below.
BEETS Red/Tabl	(Cutworms, Mole Crickets, Wireworms)
BROCCOLI	(Root Maggots, Cutworms, Mole Crickets, Wireworms)
BRUSSELS SPROUTS	CABBAGE, CAULIFLOWER (Root Maggots, Cutworms, Mole Crickets, Wireworms.)
CARROTS	(Cutworms, Mole Crickets, Wireworms)
CELERY	(Cutworms, Wireworms)
COLLARDS	(Cutworms, Mole Crickets, Wireworms)
CUCUMBER	(Cutworms, Wireworms)
ENDIVE, Escarole	(Cutworms, Mole Crickets, Wireworms)
KALE	(Cutworms, Mole Crickets, Wireworms)
LETTUCE	(Cutworms, Mole Crickets, Wireworms)
MELONS including Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, & Hybrids of these and Watermelons	(Cutworms, Wireworms)
MUSTARD	(Mole Crickets)
ONIONS	Green & Bulb, See Special Instructions below
PARSLEY	(Cutworms, Wireworms)
PEAS succulent only, do not use on dried pea varieties such as dried blackeyed peas	(Cutworms, Wireworms)
PEPPERS	(Cutworms, Mole Crickets, Wireworms)
POTATOES	(Cutworms; surface & subterranean, Wireworms)
Do not use on "Hand Harvested" commercially grown potatoes	
RADISHES	(Mole Crickets)
SPINACH	(Cutworms, Wireworms)
SQUASH including Summer and Winter	(Cutworms, Wireworms)
SWEET CORN	(Cutworms, Seed Corn Maggot, Wireworms)
See Special Instructions below	
SWEET POTATOES (Wireworms, Flea Beetles)	See Special Instructions below
SWISS CHARD	(Cutworms, Wireworms)
TOMATOES	(Cutworms, Mole Crickets, Wireworms)
TURNIPS	(Mole Crickets, Wireworms)

Special Instructions

Beans; Onions; Sweet Corn; Sweet Potatoes

BEANS (Pole, Snap, or Lima, succulent only). Do not use on dried bean varieties, such as pinto, dried lima, navy beans, etc.

For Cutworms broadcast and mix 7 to 14 oz./500 sq ft. into soil just before planting. For Lesser Cornstalk Borer apply 3 1/2 to 7 oz./500 sq ft. in a 6 inch band centered over the row when plants are 1/2 to 1 inch high. For Wireworms broadcast and mix 10 1/2 to 14 oz./500 sq ft. into soil just before planting.

ONIONS, Green and Bulb; (Onion Maggot). Apply 7 to 14 oz./500 sq ft. Broadcast just before planting and mix into top 3 to 4 inches of soil by disking, harrowing or other suitable means. Diazinon may not control organophosphate resistant onion maggots.

SWEET CORN: For European Corn Borer: Apply 3 1/2 to 7 oz./500 sq ft. over the corn so granules fall into whorls, when 75% of the plants show first-generation larvae feeding. Make a second application 7 days later if needed but not more than 3 applications per season. For second generation borers apply as above when there is an average of 1 egg mass per plant. Note: Corn may be planted immediately following last application. Do not use fertilizer to livestock for 10 days following the last application. Do not make more than 3 applications per season.

For Fall Armyworm apply 3 1/2 to 7 oz./500 sq ft. over the corn so granules fall into whorls when larvae first appear. If necessary, application may be repeated twice at 7 day intervals. Do not make more than 3 application per season.

For Southwestern Corn Borers use as above rate and method as for European Corn Borer but apply over corn as granules fall into whorls when "second generation" larvae appear.

SWEET POTATOES: For Wireworms and Flea Beetles use 10 1/2 to 14 oz./500 sq ft. Broadcast and mix into soil just before planting. For South eastern U.S. broadcast same amount over tops of vines when roots begin to enlarge. (DO NOT mix into soil.)

NOTICE: Buyer and user assume all risk and liability of use, storage and/or handling of this product in accordance with the terms of this label.

BEST AVAILABLE COPY