

SEP 28 1986

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Ms. Dawn A. Smith
Micro-Flo Company
P.O. Drawer 3648
Lakeland, FL 33802

Dear Ms. Smith

Subject: Amendment - Product Chemistry - Updated Labeling
Diazinon 14G Insecticide
EPA Registration No. 51036-70
Your Letter Dated June 2, 1986

The amendments referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, are acceptable provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

- Under the Statement of Practical Treatment section the subheading "If On Skin" needs to be revised to read, "Remove contaminated clothing and launder before reuse. Wash affected skin areas immediately with soap and water."

In addition please revise "If In Eyes" to read, "Rinse eyes with plenty of water and call a physician immediately."

- Add a street address or P.O. Box along with the company name and city/State.
- Please revise the Precautionary Statement wording to read:

Keep children and pets off treated areas. May be harmful if swallowed. Avoid inhalation of dust. May be absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco products. Avoid storage near food or feed products. Wear gloves and long-sleeved work clothing.

- The heading should be "Environmental Hazards," not "Precautions."

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CONCURRENCES

SYMBOL							
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5. Under the Environmental Hazards section the wording should be revised as follows:

- a. "Birds and other wildlife feeding in"
- b. Delete the sentence, "Keep out of lakes, streams, and ponds." In its place add, "Do not apply directly to water or wetlands."
- c. Add a new paragraph which reads:

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply when bees are actively visiting the crop, cover crop or weeds blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

- d. "This product is toxic to fish, shrimp, crabs, birds, and other wildlife."
- e. Add the sentences, "Shrimp and crabs may be killed at application rates recommended on this label."
- f. Add the sentences:

This product must not be used in areas where impact on threatened/endangered species is likely. Contact your State Fish and Game Agency for information pertaining to areas having threatened/endangered species.

- 6. Please delete the wording, "Do not use or store near heat or open flame." This is a granular diazinon product and therefore flammability is not a concern.
- 7. Add the subheading "Pesticide Disposal" to precede the last two paragraphs of the Storage and Disposal section. In addition we suggest that you underline the other two subheadings as was done above.
- 8. Immediately following the sentence, "It is a violation of Federal law to use . . ." you must add to the next line and centered on the page the heading "Reentry Statement." The three paragraphs starting with "Do not apply this product in a manner . . ."; "Do not enter treated areas . . ."; and "Because certain States may require more . . ." should follow the Reentry heading.

In addition, add a fourth paragraph which reads as follows:

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated, and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "(Appropriate signal word DANGER or WARNING). Area treated with (name of pesticide on (date of application)). Do not enter without appropriate protective clothing for (insert here reentry interval for your product). (Insert here actions to take in case of accidental exposure.)" This statement may either appear on the label (see Attachment B for specific location) or on the labeling accompanying the product.

- 9. Under the "Lawn Insects" section add appropriate spreader setting instructions. You may want to contact your supplier or Ciba-Geigy in this regard.

The following comments pertain to the Product Chemistry.

- 10. You must provide the upper and lower certified limits based on the pure active ingredients rather than the technical or concentrate. Note that the lower limit of the active, including any solvent declared as active, must not fall below the label claim. The certification submitted showed 14% diazinon while on the label it was 14.3%. This must be corrected.
- 11. The formulated product must be analyzed for its active ingredient at time zero and during a year of storage. You will have fifteen (15) months from the time you receive this letter to submit a 1-year storage stability study in support of this product.
- 12. On the front panel, add the statement, "Recommended for Agricultural/Commercial Use."

4/12

13. On the front panel, add the statement, "This product must not be used on golf courses and sod farms." This requirement is a result of the Agency's recent cancellation of the pesticide diazinon on these sites (October 1, 1986, 51 FR 35034).

For future reference the Product Chemistry information submitted for this product has been assigned EPA Accession No. 362136.

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,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosure

(updated 5-30-86)

(Center Panel)

ACCEPTED
COMMENTS

D I A Z I N O N 1 4 G

SEP 28 1986

INSECTICIDE

51036-70

ACTIVE INGREDIENT:

0.0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate*	14.3%
INERT INGREDIENTS	85.7%
TOTAL	100.0%

*Diazinon, registered trademark, Ciba-Geigy Corporation

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 touching the back of throat with a 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 artificial respiration if indicated.

IF ON SKIN: Remove contaminated clothing and wash affected areas immediately with soap and water.

IF IN EYES: Rinse eyes for at least 15 minutes with water and call a physician immediately.

NOTE TO PHYSICIAN: Product contains an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine by injection is antidotal. 2-PAM is also antidotal, and may be administered in conjunction with atropine.

See side panel for precautionary statement

EPA Reg. No. 51036-70

EPA Est. No. 51036-GA-1

Manufactured By
MICRO-FLO COMPANY
SPARKS, GEORGIA 31647

NET WEIGHT 40 POUNDS

(Left Panel)

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Keep children and pets off treated areas. May be fatal if swallowed. May be absorbed through the skin. May be injurious to eyes and skin. Do not take internally. Do not get in eyes or on skin. Do not smoke while using. Wash thoroughly after handling. Wash contaminated clothing before re-use. Flush contaminated eyes with plenty of water and get medical attention.

ENVIRONMENTAL PRECAUTIONS

This product is toxic to fish, birds, and other wildlife. Birds and other wildlife in treated areas may be killed. Keep out of lakes, streams, or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flames. Keep container closed. Handle in a ventilated area.

STORAGE AND DISPOSAL

Storage: Do not contaminate water, food, or feed by storage or disposal. Store in a dry place.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

In case of minor spills, follow all precautions indicated above and cleanup immediately. Sweep up and dispose of wastes and broken or empty containers in a landfill approved for pesticide use.

DIRECTIONS FOR USE

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

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas without protective clothing until dusts have settled.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Applications to the soil should be worked into the top few inches immediately after application with a rotary hoe, cultivator, disk, harrow, or other suitable means for greatest effectiveness.

(Right Panel)

FIELD AND FORAGE CROP INSECTS

BEANS (Pinto): To control Lesser Cornstalk Borers, apply 7 to 14 pounds per acre in a 6-inch band centered over the row when beans are 1/2 to 1 inch high.

CORN: To control Corn Rootworm Larvae, apply 8-1/2 to 17 ounces per 1,000 linear feet of corn row in a 7-inch band centered over the corn row at planting time, or apply amount per acre recommended according to row spacing chart for row treatment. Corn Rootworms can also be controlled after corn is up. Apply 4-1/2 to 8-1/2 ounces per 1,000 linear feet of row in a band over the row at first sign of rootworms, but not later than June 24 in the Middle Corn Belt or July 1 in the Northern Corn Belt. Cover treated band with 2 to 3 inches of soil or apply amount per acre recommended according to row spacing chart for basal treatment. To control European Corn Borers, apply 7 to 14 pounds per acre over the corn so granules fall into whorls, when 75% of plants show first-generation borers feeding. Make a second application 7 days later, if needed. To control second-generation corn borers, apply 7 to 14 pounds per acre, as above, when field count shows 100 egg masses per 100 plants. Diazinon 14G may be applied by aircraft for the above use. This material should be uniformly applied to the area to be treated at the recommended rates given above.

Combining Postemergence Treatment for Control of Corn Rootworm Larvae and European Corn Borer - North Central United States only: When infestations of these insects coincide, a single application may be made to replace the above basal postemergence treatment for Corn Rootworm larvae and one of the above applications for the control of first-generation European Corn Borer. Use the combination treatment where European Corn Borer egg masses or larvae are present at the same time Corn Rootworm Larvae should be controlled. Treatment should be made at the peak of first-generation European Corn Borer egg laying, but not later than June 24 in the Middle Corn Belt or July 1 in the Northern Corn Belt for adequate rootworm control.

Apply 7 to 14 pounds per acre over the corn plants. Cover granules falling to the ground by throwing 2 to 3 inches of soil into the corn row with a disk hiller or cultivator. Repeat application to corn whorls 7 days later, if needed, for control of European Corn Borer. To control second-generation Corn Borers, apply 7 to 14 pounds per acre, as above, when field count shows 100 egg masses per 100 plants.

To control Fall Armyworms, apply 7 to 14 pounds per acre over the corn so granules fall into whorls when Armyworms first appear. Repeat application, if necessary.

To control Southwestern Corn Borers, apply 7 to 14 pounds per acre over the corn so granules fall into whorls when second-generation borers first appear. Repeat application one week later.

NOTE: Do not feed treated fodder to dairy or beef cattle or sheep for 10 days following application. Corn may be picked immediately. Temporary spotting of foliage sometimes occurs following application.

To control Cutworms, broadcast 14 to 28 pounds per acre. For Surface Cutworms apply just prior to planting or when larvae first appear, and work into soil 1 to 2 inches. Do not apply after layby. For Subterranean Cutworms, apply just prior to planting and work into soil 3 to 6 inches.

To control Cutworms, broadcast 14 to 28 pounds per acre. For Surface Cutworms apply just prior to planting or when larvae first appear, and work into soil 1 to 2 inches. Do not apply after layby. For Subterranean Cutworms, apply just prior to planting and work into soil 3 to 6 inches.

To control Wireworms, broadcast 21 to 28 pounds per acre before planting. Work into soil 4 to 6 inches.

To control Lesser Cornstalk Borers, apply 8-1/2 to 17 ounces per 1,000 linear feet of row in a 10-inch band centered over the row. Make application at planting time or when crop begins to emerge. Cover the treated band with 1 to 2 inches of soil or apply amount per acre recommended according to row spacing chart for basal treatment.

To control Seed Corn Maggots, broadcast 14 to 28 pounds per acre just prior to planting. Work into soil 2 inches.

To control Garden Symphylans (Centipedes), broadcast 70 pounds per acre just prior to planting and work into soil 4 to 8 inches. This preplant treatment will also control Cutworms (Surface and Subterranean) and Wireworms.

SUGGESTED RATES ACCORDING TO CORN ROW SPACING

AMOUNT OF DIAZINON 14G PER ACRE

Row spacing	Linear feet of corn row/acre	Row treatment at planting time	Postemergence basal treatment
48"	10,890	6 - 12 lbs.	3 - 6 lbs.
42"	12,455	6-1/2 - 13 lbs.	3-1/4 - 6-1/2 lbs.
40"	13,068	7 - 14 lbs.	3-1/2 - 7 lbs.
38"	13,939	7-1/2 - 15 lbs.	3-3/4 - 7-1/2 lbs.
36"	14,520	8 - 16 lbs.	4 - 8 lbs.
30"	17,424	9-1/2 - 19 lbs.	4-3/4 - 9-1/2 lbs.
24"	21,780	11-1/2 - 23 lbs.	5-3/4 - 11-1/2 lbs.
20"	26,136	14 - 28 lbs.	7 - 14 lbs.
15"	34,848	18-1/2 - 37 lbs.	9-1/4 - 18-1/2 lbs.

Note: For row spacings not listed, calculate the appropriate dosage rates based on the 40-inch row figures.

PEANUTS: To control Southern Corn Rootworms, broadcast 28 pounds per acre or the equivalent in a band over the fruiting zone, just prior to pegging. Work into top few inches of soil. To control Cutworms, apply 14 pounds per acre in a 12-inch band over the row when cutworms first appear. Up to three additional applications at three-week intervals may be necessary. Do not apply within 21 days of peanut harvest. To control Lesser Cornstalk Borers, apply 14 to 21 pounds per acre in a band over the fruiting zone just prior to pegging. Cover the band with 1 to 2 inches of soil.

NOTE: Livestock (1) may be fed peanut hulls (2) may be fed peanut forage 7 days following treatment and (3) may be fed peanut hay 21 days following treatment.

SORGHUM: To control Cutworms, broadcast 14 to 28 pounds per acre just prior to planting. Work into soil 2 to 3 inches to control Surface Cutworms; 3 to 6 inches to control Subterranean Cutworms. To control Lesser Cornstalk Borers, apply 7 to 14 pounds per acre in a 10-inch band over the row at planting time or as crop emerges. Cover the band with 1 to 2 inches of soil.

NOTE: Do not apply directly to the seed furrow as reduction of sorghum seed germination may occur.

SOYBEANS: To control Cutworms, broadcast 14 to 28 pounds per acre just prior to planting. Work into soil 2 to 3 inches to control Surface Cutworms; 3 to 6 inches to control Subterranean Cutworms. To control Lesser Cornstalk Borers, apply 7 to 14 pounds per acre in a 6-inch band over the row just prior to planting or when soybeans are 1 to 2 inches high. Cover the band with 1 to 2 inches of soil.

TOBACCO: To control Cutworms, broadcast 14 to 21 pounds per acre before transplanting. Work into soil 2 to 4 inches. To control Mole Crickets, apply 7 pounds per acre when insects are present. Make application to plant beds or fields 1 to 2 days prior to sowing of seed or transplanting, and work into soil 1 to 2 inches. To control Seed Corn Maggots, broadcast 10-1/2 pounds per acre 3 to 4 weeks before transplanting. Work into soil 2 inches. To control Wireworms, broadcast 14 to 21 pounds per acre 3 to 4 weeks before transplanting. Work into soil 6 to 9 inches.

FORAGE CROPS (Alfalfa, Clover, Cowpeas, and Lespedeza): To control Cutworms, broadcast 14 to 28 pounds per acre just prior to planting. Work into soil 2 to 3 inches to control Surface Cutworms, 3 to 6 inches to control Subterranean Cutworms.

VEGETABLE CROP INSECTS

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, and CAULIFLOWER: To control Root

Maggots, broadcast 14 to 21 pounds per acre before planting or transplanting. Work into soil 3 to 4 inches.

ONIONS: To control Onion Maggots, apply 14 to 28 pounds per acre as a broadcast soil treatment just prior to planting. Thoroughly mix the chemical into the top 3 to 4 inches of soil by disking, harrowing or other suitable means.

RADISHES: To control Root Maggots, apply 10-1/2 to 14 pounds per acre (2-1/2 to 2-4/5 ounces per 1,000 linear feet of row) in the seed furrow at planting time.

SWEET CORN: See Corn under Field and Forage Crops.

TOMATOES: To control Vinegar Flies (Drosophila spp.), broadcast 7 pounds per acre when flies first appear. Repeat in 7 to 10 day intervals or as required.

ADDITIONAL VEGETABLE CROP INSECTS

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CANTALOUPE, CAULIFLOWER, CELERY, COLLARDS, CUCUMBERS, ENDIVE (ESCAROLE), KALE, LETTUCE, LIMA BEANS, MUSKMELONS, PARSLEY, PEAS, PEPPERS, POLE BEANS, SNAP BEANS, SPINACH, SUMMER SQUASH, SWISS CHARD, TOMATOES, WATERMELONS, WINTER SQUASH: To control Cutworms (Surface and Subterranean), broadcast 14 to 28 pounds per acre just prior to planting. Work into soil 2 to 3 inches to control surface cutworms, 3 to 6 inches to control subterranean cutworms.

POTATOES: To control Cutworms (Surface and Subterranean) broadcast 14 to 28 pounds per acre before planting. Work into soil 4 to 6 inches.

CABBAGE, CARROTS, LETTUCE, PEAS, POLE BEANS, RADISHES, RED BEETS, SNAP BEANS, TOMATOES, TURNIPS: To control Garden Symphylans (Centipedes), broadcast 70 pounds per acre just prior to planting. Work into soil 4 to 8 inches. This preplant treatment will also control Cutworms (Surface and Subterranean), Mole Crickets, Root Maggots, and Wireworms.

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, COLLARDS, ENDIVE, (ESCAROLE), KALE, LETTUCE, MUSTARD, PEPPERS, RADISHES, TOMATOES, TURNIPS: To control Mole Crickets, apply 7 pounds per acre when insects are present. Make application to plant beds or fields 1 to 2 days prior to sowing of seed or transplanting and work into soil 1 to 2 inches.

BEANS (Lima, Pole, Snap): To control Lesser Cornstalk Borers, apply 7 to 14 pounds per acre in a 6-inch band centered over the row. Apply when plants are 1/2 to 1 inch tall.

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CANTALOUPE, CARROTS, CAULIFLOWER, CELERY, COLLARDS, CUCUMBERS, ENDIVE (ESCAROLE), KALE, LETTUCE, LIMA BEANS, MUSKMELONS, ONIONS, PARSLEY, PEAS, PEPPERS, POLE BEANS, SNAP BEANS, SPINACH, SUMMER SQUASH, SWEET POTATOES, SWISS CHARD, TOMATOES, WATERMELONS, WINTER SQUASH: To control Wireworms, broadcast 21 to

28 pounds per acre just prior to planting. Work into soil 4 to 8 inches.

POTATOES: To control Wireworms, broadcast 21 to 42 pounds per acre before planting. Work into soil 4 to 8 inches or apply 7 to 21 pounds per acre at planting, placing Diazinon in bands 3 to 6 inches deep along both sides of row.

SWEET POTATOES (Southeastern U.S.): To control Wireworms, broadcast 21 pounds per acre over the tops of vines when roots begin to enlarge.

SMALL FRUIT CROP INSECTS

STRAWBERRIES: To control Mole Crickets, apply 7 pounds per acre when insects are present. Make application to plant beds or fields 1 to 2 days prior to transplanting and work into soil 1 to 2 inches.

LAWN INSECTS

LAWNS: To control Lawn Chinch Bugs, apply 1/2 to 1 pound per 1,000 square feet, 2-1/2 to 5 pounds per 5,000 square feet and brush lawn to work granules down to the soil surface. Water lawn thoroughly after application. Repeat application in 7 to 10 days if necessary. For longer residual control and on dense growing turf, use 1 to 1-1/2 pounds per 1,000 square feet, 5 to 7-1/2 pounds per 5,000 square feet.

NOTE: Do not allow children in treated areas until surfaces are dry.

CONDITIONS OF SALE: All statements concerning the use of this product apply only when used as directed. THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THIS PRODUCT OR ITS USE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL. Read all directions carefully.