

JUL - 2 1991

Ms. Dawn Smith
Micro Flo Company
Route 1, Box 190
Sparks, GA 31647

Subject: Amendment - Revise per Diazinon Registration Standard
Diazinon 14G
EPA Reg. No. 51036-70
Your submission received May 30 , 1990

Dear Ms. Smith:

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) Please be aware that there have been 6 revised versions of Ciba-Geigy's 14G label since the version you have submitted. Incorporating the comments in this letter you will bring your label into agreement with the latest version of Ciba-Geigy's label. In the Precautionary Statements, add "Get medical attention." to the end of the "If on skin" advice. This revision reflects the Agency's review of the product specific toxicology data submitted in support of reregistration of Ciba-Geigy's D.z.n diazinon 14G upon which you are relying for reregistration of the subject product.
- 2) In the Environmental Hazards, replace "Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes)." with the following:

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark.
- 3) In the first section of text under the heading "Directions for Use" revise the second sentence to read "FAILURE TO FOLLOW ALL DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.". Also in this same section, delete "DIAZINON 14G MAY BE APPLIED AERIALY

TO CORN ONLY." since Ciba-Geigy is not supporting any aerial application of granular diazinon due to the high risk to birds from exposed diazinon granules.

- 4) Under the heading "Vegetable Crops" add the following as the second paragraph: For application by ground equipment only. Do not apply this product to food crops grown in greenhouses.
- 5) Delete directions for control of Lesser Cornstalk Borers on beans. Ciba-Geigy is not supporting any unincorporated application of granular diazinon to food crops due to the high risk to birds from exposed diazinon granules.
- 6) In the "Timing/Special Directions" for onions, delete "by disking, harrowing, or other suitable means", since you have already indicated acceptable incorporation equipment for all uses in the general information that appears under the heading "Directions for Use".
- 7) Delete directions for control of Root Maggots on radishes. Ciba-Geigy is not supporting in-furrow application of granular diazinon to food crops.
- 8) In the "Crop" listing for "Sweet Corn", delete "(see also field corn directions for use)", since directions for use on field corn directions will be deleted (see item "10" below) because they were only for foliar (i.e., unincorporated) application and such uses are not being supported due to the high risk to birds from unincorporated diazinon granules.
- 9) In the directions for use on sweet potatoes, delete the special directions for use in the Southeastern U.S. since they call for unincorporated application of granules.
- 10) Under the heading "Field Crops", delete "Field and sweet corn may be treated aerially." since Ciba-Geigy is not supporting any aerial application of granular diazinon due to the high risk to birds from exposed diazinon granules.
- 11) Delete the directions and associated notes for the crops "Field Corn or Sweet Corn" that appear under the heading "Field Crops", because all the uses listed involve unincorporated foliar application (including aerial application) and such uses are not being supported by Ciba-Geigy due to the high risk to birds from unincorporated diazinon granules.

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- 12) For the crop "Sugar Beets", delete the directions for unincorporated band application at planting, the directions for a second application (post-emergence unincorporated band), and the note about contact with seeds, which pertains to in-furrow application just above the seed (do not delete the note about the maximum pounds per acre per season). The directions for sugar beets would then read as follows:

Sugar Beet Root Maggots - 7 to 14 lbs. per acre or 4.7 to 9.4 oz. per 1,000 linear feet of row. Apply in a 5 to 7 inch band based on 22" row spacing) incorporated 2 to 3 inches at planting. NOTE: Do not apply more than 28 lbs. of Diazinon 14G per acre to the soil per season.

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 (13)
Insecticide Rodenticide Branch
Registration Division (H7505C)

RESTRICTED USE PESTICIDE

Due to Avian and Aquatic Toxicity

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's Certification.

**MICRO FLO
DIAZINON 14G
GRANULAR INSECTICIDE**

For control of certain soil insects including wireworms, cutworms, and other crop pests.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUL - 2 1991

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

51036-70

ACTIVE INGREDIENT:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate 14.3%

INERT INGREDIENTS: 85.7%

TOTAL 100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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.

See additional precautionary statements elsewhere on label

EPA Reg. No. 51036-70

EPA Est. No. 51036-GA-1

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Manufactured By
MICRO FLO COMPANY
P.O. BOX 5948
LAKELAND, FLORIDA 33807

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**PRECAUTIONARY STATEMENTS
Hazards 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. Do not store near food or feed products. Do not contaminate ornamental fish ponds.

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. Do not exceed maximum permitted label rates. Application rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping granules. Collect or incorporate granules that are spilled during loading or are visible on soil surface in turn areas. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Drift and 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 washwaters.

DIRECTIONS FOR USE

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

IMPORTANT - Read the entire **DIRECTIONS FOR USE** and the **CONDITIONS OF SALE** before using this product. If terms are not acceptable, return the unopened product container at once.

FAILURE TO FOLLOW ALL PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

DIAZINON 14G MAY BE APPLIED AERIALY TO CORN ONLY.

Unless directions under specific uses state otherwise, 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.

WORK SAFETY RULES

REPEATED EXPOSURES TO CHOLINESTERASE INHIBITORS SUCH AS ARE CONTAINED IN THIS PRODUCT MAY, WITHOUT WARNING,

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CAUSE PROLONGED SUSCEPTIBILITY TO VERY SMALL DOSES OF ANY CHOLINESTERASE INHIBITOR.

When handling Diazinon 14G, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See PRACTICAL TREATMENT section of this label. When handling this product, wear the personal protective equipment listed in the following section.

PERSONAL PROTECTIVE EQUIPMENT:

Long-sleeved shirt, long-legged pants, shoes and socks, and chemical resistant gloves.

Do not apply this product in a way that will contact unprotected workers, either directly or through drift. Only protected handlers may be in the area during application.

RE-ENTRY STATEMENT

Twenty-four hours must elapse between the time of application and the time a worker enters or is allowed to enter the treated area unless the person entering the treated area is wearing the personal protective equipment listed above.

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.

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. Oral warnings must be given which inform workers of areas or fields that may not be entered without specific personal protective equipment for 24 hours after application and appropriate actions to take as described under Precautionary Statements on this label. 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: "CAUTION. Area treated with Diazinon 14G on (date of application). Do not enter without appropriate personal protective equipment for 24 hours after application. In case of accidental exposure, flush eyes or skin with plenty of water. Call a physician if irritation persists. Remove and wash contaminated clothing before reuse."

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Store in a cool, dry, well-ventilated area away from food or feed.

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PESTICIDE DISPOSAL: Pesticide or equipment rinsate that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles into application equipment. Then dispose of empty bag in a sanitary landfill or incinerate, or burn if allowed by state and local authorities. Stay out of smoke during burning. Do not reuse container.

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 case of an emergency call 1-800-424-9300.

VEGETABLE CROPS

Diazinon 14G should be applied uniformly as directed for each crop. When a range of rates is given, use the higher rate for heavy infestations.

NOTE: SOIL INCORPORATION - Unless directions under specific uses state otherwise, for control of pests listed below, Diazinon 14G should be incorporated into the soil during or immediately after application.

INSECT	DEPTH OF INCORPORATION
Surface cutworms*	2 to 3 inches
Subterranean cutworms*	3 to 6 inches
Mole crickets	1 to 2 inches
Root maggots	3 to 4 inches
Wireworms	4 to 8 inches

*If cutworms cannot be identified, incorporate 4 to 6 inches.

BEANS (Pole, Snap or Lima)(succulent varieties only) -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Lesser Cornstalk Borers - 7 to 14 lbs. per acre. Apply in a 6-inch band centered over the row when plants are 1/2 to 1 inch tall. Do not incorporate into soil.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

BEETS, RED (Table)-

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

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Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

BROCCOLI -

Root Maggots - 14 to 21 lbs. per acre. Broadcast and incorporate into the soil just before planting or transplanting.

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

BRUSSELS SPROUTS -

Root Maggots - 14 to 21 lbs. per acre. Broadcast and incorporate into the soil just before planting or transplanting.

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

CABBAGE -

Root Maggots - 14 to 21 lbs. per acre. Broadcast and incorporate into the soil just before planting or transplanting.

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

CARROTS -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

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Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

CAULIFLOWER -

Root Maggots - 14 to 21 lbs. per acre. Broadcast and incorporate into the soil just before planting or transplanting.

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

CELERY -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

COLLARDS -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

CUCUMBER -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

ENDIVE (Escarole) -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

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Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

GINSENG -

Cutworms, Climbing cutworms, Wireworms, White grubs - 14 to 28 lbs. per acre. In new beds, broadcast just before planting and incorporate into the top 4 to 8 inches of soil by tilling with hand-held or powered ground equipment.

21 lbs. per acre. When soil insect damage appears in established beds, broadcast in the spring or late summer through early fall. Incorporate mechanically with 1/2 inch of irrigation.

NOTE: Do not apply more than once per growing season. Do not apply within 12 months of harvest.

KALE -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

LETTUCE -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

MELONS (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians and Hybrids of these) and Watermelons -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

MUSTARD -

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Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

ONIONS (Green and Bulb) -

Onion Maggots - 14 to 28 lbs. per acre. Broadcast just before planting and incorporate into the top 3 to 4 inches of soil by disking, harrowing, or other suitable means.

NOTE: Diazinon may not control organophosphate-resistant onion maggots.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

PARSLEY -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

PEAS (Succulent varieties only) -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

PEPPERS -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

POTATOES -

Cutworms (Surface and Subterranean) - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

NOTE: Do not use on commercially grown potatoes which will be hand-harvested.

RADISHES -

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Root Maggots - 10 1/2 to 14 lbs. per acre. Apply in the seed furrow at planting (2 1/2 to 2 4/5 ozs. per 1,000 linear ft. of row).

Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

SPINACH -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

SQUASH, Summer and Winter -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

SWEET CORN (see also field corn directions for use) -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Seed Corn Maggots - 14 to 28 lbs. per acre. Broadcast just before planting and incorporate into the soil 2 inches.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

SWEET POTATOES -

Wireworms, Flea Beetles - 21 lbs. per acre. Broadcast just before planting OR Southeastern U.S.: Broadcast 21 lbs. per acre over the tops of vines when roots begin to enlarge and, do not incorporate.

SWISS CHARD -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

TOMATOES -

Cutworms - 14 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

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Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

TURNIPS -

Mole Crickets - 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1 to 2 days before sowing of seed or transplanting.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil just before planting.

FIELD CROPS

Diazinon 14G should be applied uniformly as directed for each crop. Observe stated time intervals between applications and maximum number of applications per season.

Field and sweet corn may be treated aeri ally.

FIELD CORN OR SWEET CORN -

European Corn Borers - 7 to 14 lbs. per acre. When 75% of plants show first generation borers feeding, apply over the corn so granules fall in the whorls.

Make a second application 7 days later if needed.

For second generation borers apply as above when field count shows 100 egg masses per 100 plants.

Do not make more than 3 applications per season.

Fall Armyworm - 7 to 14 lbs. per acre. Apply over 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 applications per season.

Southwestern Corn Borer - 7 to 14 lbs. per acre. Apply over corn so granules fall into whorls when second-generation borers first appear. If necessary, application may be repeated at 7 day intervals. Do not make more than 3 applications per season.

NOTES: Diazinon 14G may be applied aeri ally to corn for these three pests. For aerial application, the material should be uniformly applied to the area to be treated. Do not feed treated fodder to dairy or beef cattle or sheep for 10 days following application. Corn may be picked immediately after last application. Temporary spotting of foliage sometimes occurs following application.

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SUGAR BEETS -

Sugar Beet Root Maggots - 7 to 14 lbs. per acre or 4.7 to 9.4 oz. per 1,000 linear ft. of row. Apply in a 5 to 7 inch band (based on 22" row spacing) either incorporated 2 to 3 inches at planting or applied above the seed after the seed is covered. Apply ahead of the press wheel.

If a heavy maggot infestation is anticipated or a wet spring occurs, a second application may be made early postemergence, when adult maggot flies first appear. If a second application is necessary, apply 7 to 10 1/2 lbs. per acre in a 5 to 7 inch band (based on row width of 22 inches) or 4.7 to 7.1 oz. per 1,000 linear feet of row in a 5 to 7 inch band directly over the row.

Do not allow Diazinon 14G to contact the seed or injury will occur.

Wireworms - 21 to 28 lbs. per acre. Broadcast and incorporate into the soil 4 to 8 inches just before planting.

NOTE: Do not apply more than 28 lbs. of Diazinon 14G per acre to the soil per season.

SUGARCANE (FLORIDA ONLY) -

Wireworms - 28 lbs. per acre. At planting, apply in a 12-inch band over the open furrow, directly to seed pieces.

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.

BEST RESULTS