

JUN 13 1990

Ms. Carolyn Bussey  
Ciba-Geigy Corporation  
P.O. Box 18300  
Greensboro, NC 27419

Subject: Amendments - Revise per Agency letter of December 12, 1989;  
Delete directions for postemergence (whorl) application  
to corn (field corn and sweet corn); and  
Delete directions for use on field corn  
D-z-n Diazinon 14G  
EPA Reg. No. 100-469  
Your submission dated June 6, 1990

Dear Ms. Bussey:

The amendment referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable. When preparing the actual product labels, please delete the directions for control of root maggots on radishes. Your letter of March 21, 1990 had indicated that you would be deleting these directions for in-furrow application since they were not supported by data. Also, please revise the description under the crop "Melons" to show the closing parenthesis after "& Hybrids of these", rather than after "& Hybrids of these and watermelons".

A stamped copy of the label is enclosed for your records. Please submit five (5) copies of the revised finished label without the in-furrow use directions on radishes as soon as it becomes available. Please refer to the Diazinon Registration Standard, as amended, for release for shipment and channels of trade dates for diazinon products bearing appropriately amended labels.

Sincerely yours,

George T. LaRocca  
Product Manager (15)  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

with COMMENTS  
in EPA Letter Dated:

JUN 13 1990

**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

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended for the pesticide  
registered under EPA Reg. No.  
100-469

**CIBA-GEIGY**

**D·z·n<sup>®</sup>**

**diazinon 14G**

**50 Pounds  
Net Weight**

**GRANULAR INSECTICIDE**

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

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

Inert Ingredients 85.7%

Total 100.0%

D·z·n diazinon 14G is a granular insecticide

EPA Reg No 100-469; EPA Est 602-MO-1

Control No 06850

**KEEP OUT OF REACH OF CHILDREN.  
CAUTION**

See additional precautionary statements and directions for use on  
side of bag.

CGA 130 572J

## D·z·n\* diazinon 14G

### DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

**IMPORTANT:** Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable return the unopened product container at once.

#### Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. **CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

#### DIRECTIONS FOR USE

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

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

Unless directions under "Timing/Special Directions" 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, CAUSE PROLONGED SUSCEPTIBILITY TO VERY SMALL DOSES OF ANY CHOLINESTERASE INHIBITOR.**

When handling D·z·n 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.

#### Reentry 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 at the end of 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 D·z·n 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."

#### Vegetable Crops

D·z·n 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 "Timing/Special Directions" state otherwise, for control of pests listed below D·z·n diazinon 14G should be incorporated into the soil during or immediately after application.

Insect	Depth of Incorporation
Surface cutworms*	2-3 inches
Subterranean cutworms*	3-6 inches
Mole crickets	1-2 inches
Root maggots	3-4 inches
Wireworms	4-8 inches

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

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Beans (Pole, Snap or Lima) (succulent varieties only)	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting.
	Lesser Cornstalk Borers	7-14 lbs per acre	Apply in a 6-inch band centered over the row when plants are 1/2-1 inch tall. Do not incorporate into soil.
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting.
Beets, Red (Table)	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting.
	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting.
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting.
Broccoli	Root Maggots	14-21 lbs per acre	Broadcast and incorporate into soil just before planting or transplanting.
	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting.
	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting.
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting.

Brussels Sprouts	Root Maggots	14-21 lbs per acre	Broadcast and incorporate into soil just before planting or transplanting	Celery	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting		Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting	Collards	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting		Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting
			Wireworms		21-28 lbs per acre	Broadcast and incorporate into soil just before planting	
Cabbage	Root Maggots	14-21 lbs per acre	Broadcast and incorporate into soil just before planting or transplanting	Cucumber	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting		Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting	Endive (Escarole)	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting		Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting
Carrots	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting	Ginseng	Cutworms, Climbing cutworms, Wireworms, White grubs	14-28 lbs per acre	In new beds, broadcast just before planting and incorporate into the top 4-8 inches of soil by tilling with hand-held or powered ground equipment
	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting			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
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting				
Cauliflower	Root Maggots	14-21 lbs per acre	Broadcast and incorporate into soil just before planting or transplanting	NOTE: Do not apply more than once per growing season. Do not apply within 12 months of harvest.			
	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting				
	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting				
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting				

D-z-n\* diazinon 14G

Kale	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting
Lettuce	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting
	Wireworms	21-29 lbs per acre	Broadcast and incorporate into soil just before planting
Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, & Hybrids of these and watermelons)	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting
Mustard	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting
Onions (green and bulb)	Onion Maggots	14-28 lbs per acre	Broadcast just before planting and incorporate into the top 3-4 inches of soil by disking, harrowing, or other suitable means NOTE: Diazinon may not control organo-phosphate-resistant onion maggots
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting
Parsley	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting
Peas (cutting and snap peas only)	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting

Peppers	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting
Potatoes	Cutworms (Surface & Subterranean)	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting
NOTE: Do not use on commercially-grown potatoes which will be hand-harvested			
Radishes	Root Maggots	10 1/2-14 lbs per acre	Apply in the seed furrow at planting (2 1/2-2 4/5 oz per 1,000 linear ft. of row)
	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting
Spinach	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting
Squash (Summer and Winter)	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting
Sweet Corn	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Seed Corn Maggots	14-28 lbs per acre	Broadcast just before planting and incorporate into the soil 2 inches
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting
Sweet Potatoes	Wireworms, Flea Beetles	21 lbs per acre	Broadcast just before planting or Southeastern U.S. Broadcast 21 lbs/acre over the tops of vines when roots begin to enlarge and, do not incorporate
Swiss Chard	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting

Tomatoes	Cutworms	14-28 lbs per acre	Broadcast and incorporate into soil just before planting
	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting
Turnips	Mole Crickets	7 lbs per acre	Broadcast and incorporate into plant beds or fields 1-2 days before sowing of seed or transplanting
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into soil just before planting

**Field Crops**

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

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Sugar Beets	Sugar Beet Root Maggots	7-14 lbs per acre or 47-94 oz per 1,000 linear ft of row	Apply in a 5-7 inch band (based on 22" row spacing) either incorporated 2-3 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 7-10 1/2 lbs per acre in a 5-7 inch band (based on row width of 22 inches) or 47-71 oz per 1,000 linear feet of row in a 5-7 inch band directly over the row. Do not allow D-z-n diazinon 14G to contact the seed or injury will occur.
	Wireworms	21-28 lbs per acre	Broadcast and incorporate into the soil 4-8 inches just before planting.
NOTE: Do not apply more than 28 lbs of D-z-n diazinon 14G acre to the soil per season.			
Sugarcorn (FL only)	Wireworms	28 lbs per acre	At planting, apply in a 12 inch band over the open furrow directly to seed pieces.

## 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.

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

**Container:** 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 the event of a major spill, fire or other emergency, call 1-800-888-8372 day or night.

## 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.

#### 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.

#### 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.

D-z-n trademark of CIBA-GEIGY

Agricultural Division

CIBA-GEIGY Corporation

Greenburg, North Carolina 27837

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