

436643

FEB 26 1993

Ms. Carolyn Bussey
Ciba-Geigy Corporation
P.O. Box 18300
Greensboro, NC 27419-8300

Dear Ms. Bussey:

Subject: Amendment - Voluntary changes intended
to reduce risks to birds

D.z.n diazinon 14G

EPA Reg. No. 100-469

Your submission dated August 19, 1992

The amendment 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) Under the heading "Vegetable Crops", revise the heading for the avian hazards boxed text to read "SPECIAL PRECAUTIONS TO REDUCE RISKS TO BIRDS". Also in this same block, revise "To avoid toxicity to birds:" to read "To reduce risks to birds:".
- 2) Under the heading "Field Crops", revise the heading for the avian hazards boxed text to read "SPECIAL PRECAUTIONS TO REDUCE RISKS TO BIRDS". Also in this same block, revise "To avoid toxicity to birds:" to read "To reduce risks to birds:".
- 3) As noted in the Agency's letter dated November 20, 1992, to be consistent with your other diazinon agricultural use product labels, the Note about organophosphate-resistant onion maggots should state "... will not control...", rather than "... may not control ...".
- 4) Also as noted in the Agency's letter dated November 20, 1992, to be consistent with your other diazinon agricultural use product labels, the "Note" for Ginseng and Potatoes should be pulled over to the left margin with no line separating the Note text from the crop name (as it currently appears in the directions for use on Sugar Beets).

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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. The Agency understands that this labeling will be typeset for use as one of the sample labels for diazinon end-use product registrants, and that, for Ciba-Geigy, labeling for this product released for shipment after the deadline imposed by the Diazinon Registration Standard, as amended, will be this revised amended label.

Sincerely,

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

DRAFT/AVIAN CHANGES

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.

D·z·n® diazinon 14G

Granular Insecticide

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

50 Pounds
Net Weight

ACCEPTED
with COMMENTS
in EPA Letter Dated

FEB 26 1993

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

Active Ingredient:

| | |
|--|---------------|
| Diazinon: O,O-Diethyl O-(2-isopropyl-6- | |
| methy1-4-pyrimidinyl) phosphorothioate | 14.3% |
| <u>Inert Ingredients:</u> | <u>85.7%</u> |
| Total: | 100.0% |

EPA Reg. No. 100-469

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

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements
on back of bag.

Product ID 06850

See directions for use on back of
bag.

50 Pounds
Net Weight

RECEIVED
AUG 20 1992

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 THE DIRECTIONS FOR USE AND 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.

Vegetable Crops

SPECIAL PRECAUTIONS TO AVOID HAZARD TO BIRDS

Birds feeding on treated areas may be killed. To avoid toxicity to birds:

1. Thoroughly incorporate this product into the soil during or immediately after application. Refer to the "Soil Incorporation" table that follows.
2. Cover or incorporate spilled granules.

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.

For application by ground equipment only. Do not apply this product to food crops grown in greenhouses.

Soil Incorporation

| <u>Insect</u> | <u>Depth of Incorporation</u> |
|------------------------|-------------------------------|
| 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 (Lima, Pole and Snap) (succulent varieties 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. |
| 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. |

| CROP | PEST | RATE | TIMING/SPECIAL DIRECTIONS |
|----------------------|------------------|------------------------|---|
| Broccoli (Cont'd) | 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. |
| | 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. |
| Cabbage | Root Maggots | 14-21 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. |
| | 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. |

| CROP | PEST | RATE | TIMING/SPECIAL DIRECTIONS |
|-------------|---------------|---------------------|--|
| Carrots | 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. |
| Cauliflower | Root Maggots | 14-21 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. |
| | 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. |
| Celery | 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. |

| CROP | PEST | RATE | TIMING/SPECIAL DIRECTIONS |
|-------------------|---------------|---------------------|--|
| Collards | 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. |
| Cucumber | 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. |
| Endive (Escarole) | 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. |

| CROP | PEST | RATE | TIMING/SPECIAL DIRECTIONS |
|---|---|------------------------|---|
| 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. |
| | | 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 | 14-28 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. |

| CROP | PEST | RATE | TIMING/SPECIAL DIRECTIONS |
|---|------------------|------------------------|--|
| Lettuce (Continued) | Wireworms | 21-28 lbs. per | Broadcast and incorporate into soil just before planting. |
| Melons (Canta- loupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, and Hybrids of these) and water- melons | 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 (Bulb and Green) | Onion Maggots | 14-28 lbs. per acre | Broadcast just before planting and incorporate into the top 3-4 inches of soil. NOTE: Diazinon may not control organophosphate- resistant onion maggots. |
| | Wireworms | 21-28 lbs. per acre | Broadcast and incorporate into soil just before planting. |

| CROP | PEST | RATE | TIMING/SPECIAL DIRECTIONS |
|---|-----------------------------------|---------------------|--|
| 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 (succulent varieties 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. | | | |

| CROP | PEST | RATE | TIMING/SPECIAL DIRECTIONS |
|---------------------------------|-------------------------------|------------------------|---|
| Radishes | 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 Maggot | 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 and incorporate into soil just before planting. |

| CROP | PEST | RATE | TIMING/SPECIAL DIRECTIONS |
|-------------|---------------|---------------------|--|
| 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

SPECIAL PRECAUTIONS TO AVOID HAZARD TO BIRDS

Birds feeding on treated areas may be killed. To avoid toxicity to birds:

1. Thoroughly incorporate this product into the soil during or immediately after application.
2. Cover or incorporate spilled granules.

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 4.7- 9.4 oz. per 1,000 linear ft. of row. | Apply in a 5-7 inch band (based on 22" row spacing) incorporated 2-3 inches at planting. |
| | Wireworms | 21-28 lbs. per acre | Broadcast and incorporate into soil 4-8 inches just before planting. |

Note: Do not apply more than 28 lbs. of D.z.n diazinon 14G per acre to the soil per season.

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 rinsate 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 plenty of soap and water. Rinse thoroughly. Get medical attention.

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 hazard to birds. Avoid overlapping granules. Collect, cover, or incorporate granules that are spilled or visible on the soil surface. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. 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 Corporation

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Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA 1L60 - (DRAFT)

[GANNONC.LABELD] - DZN14G-AVIAN-DRFT - 8/18/92

Revised - April 26, 1988
Deleted golf courses and
sod farms, added do not
use on golf courses and
sod farms to front panel,
deleted End. spp.,
revised Env.
Hazards to delete golf
course/sod farm
restrictions.

Revised - Sept. 12, 1988
Crops not supported under
May 1, 1987 EPA Data
Call-In, added spill
statement, changed
chemical name.

Revised May 25, 1989
specified sweet corn only
for all corn dfu's except
post application. Added
"Do not use on commer-
cially grown potatoes
which will be
hand-harvested, revised
Precautionary Statements,
Env. Hazards, statement
of practical treatment
added, Recommended for
agricult. or commercial
use only, revised
warranty statement,
reentry statement,
deleted lawn directions
for use to reduce poten-
tial avian hazard. See
EPA letter of 11/30/88.

Revised 8/7/89 per EPA
letters of 6/19 and
7/10/89. Made rates con-
sistent, added incorpora-
tion depth table, deleted
garden symphylans.
Changed emergency number.
Revised 9/14/89 - Reg.
Standard changes, other
minor changes.

Revised 11/22/89 per EPA
letter of 10/26/89 -
Reg. Std. changes

Revised 12/11/89 per EPA
letter of 12/6/89.

Revised 1/4/90 - Final
format revisions per EPA
letter of 12/12/89 - Reg.
Standard Changes
finalized.

Revised 5/90 - Deleted
corn postemergence dfu's
CGA 1L60 BB 050

Revised 10/17/90 -
Deleted radish in furrow

dfu's, beans
postemergence app., sugar
beets postemergence
application.

Revised 7/17/92 - deleted
sugarcane - no data will
be generated for
reregistration.

Revised 8/18/92 - pro-
posed addn. avian changes

[GANNONC.LABELD]
DZN14G-AVIAN-DRFT - 8/19/92