



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Ms. Emily Smathers Ratliff
Helena Chemical Company
6075 Poplar Avenue, Suite 500
Memphis, TN 38119-4702

DEC 27 2001

Dear Ms. Ratliff:

Subject: Amendment - Comply with 2000 Diazinon MOA;
Delete Beans, Cucumbers, Parsley,
Peas, Peppers, Potatoes, Summer Squash,
Winter Squash, Sweet Potatoes, Swiss Chard,
and Turnips and Turnip Tops
Update First Aid per PR Notice 2001-1; and
Update CSF/replacement diazinon source

Diazinon 14G

EPA Registration Number 5905-262

Your submission dated June 18, 2001

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. Correct the EPA REG. NO. for this label to read 5905-262.
 - b. Delete directions for use on the crop Cucumbers and the crop Turnips and Turnip Tops. Under the diazinon MOA, and as stipulated on the labeling for the replacement diazinon manufacturing-use products from which agricultural end-use products may be formulated, use on cucumbers and turnips (roots and tops) is no longer permitted.
 - c. Since there is no use on lawns for this product, please delete the front panel limitation "THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOD FARMS".
 - d. The Environmental Hazards text requires a number of revisions (reflecting the granular nature of this product) as follows: revise "overlapping sprays" to "overlapping granules",

replace the sentence beginning "If waterfowl..." with "Collect or incorporate granules that are spilled during loading or are visible on the soil surface in trun areas.", delete the phrase "For terrestrial uses," (all uses for this product are terrestrial), revise "Drift and runoff may be..." to just "Runoff may be...", and delete the last two sentence which pertain to the risks to bees from foliar sprays.

- e. Delete the heading Physical and Chemical Hazards and its associated text or explain to the Agency why such text is appropriate to this granular product.
 - f. Under the heading PERSONAL PROTECTIVE EQUIPMENT either delete the first two sentences which pertain to liquid formulations or explain why you believe they are appropriate for your granular product. Also, you may revise the recommendation for various chemical resistant gloves with just "waterproof gloves".
 - g. Delete the sentence beginning "Do not use water from irrigated or flooded cranberry beds...". There are no directions for use on cranberries on this label.
 - h. Under the heading VEGETABLE CROPS, revise the sentence "Do not apply this product to food crops grown in greenhouses." to read "Do not apply this product in greenhouses."
 - i. Throughout the Directions for Use, for the pest Cutworms replace "Broadcast and incorporate just before planting and immediately incorporate into the soil." with "Broadcast and incorporate into soil just before planting."
 - j. Throughout the Directions for Use, for the pest Mole Crickets replace "Broadcast and incorporate in to plant beds or fields 1-2 days before transplanting." with "One to two days before planting, broadcast and immediately incorporate into soil."
 - k. For the crop GINSENG, correct "Climing" to "Climbing" (this appears two times), correct "appwars" to "appears", and correct "mechanincally" to "mechanically".
3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

The Basic Confidential Statement of Formula (CSF) dated June 14, 2001 which identifies a replacement diazinon source Manufacturing Use Product is acceptable and has been added to this product's registration file.

Sincerely,

George T. LaRocca
Product Manager 13
Insecticide Branch
Registration Division (7505C)

RESTRICTED USE PESTICIDE

Due to Avian and Aquatic Toxicity

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

**DIAZINON® 14G
GRANULAR INSECTICIDE**

For Control of Certain Insects Including Wireworms, Cutworms, and Other Crop Pests

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

ACTIVE INGREDIENT:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate..... 14.30%

INERT INGREDIENTS..... 85.70%

TOTAL..... 100.00%

Diazinon 14G is a granular insecticide.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Additional Precautionary Statements Inside Booklet

EPA REG. NO.: 5905-~~474~~ 262

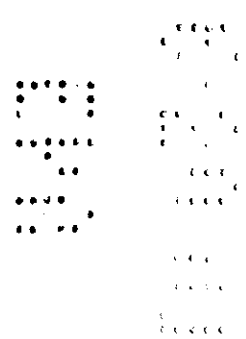
EPA EST. NO.: First letters of product batch code indicate producing establishment:
5905-GA-1=CG. 5905-AR-1=WA. 5905-CA-1=KC. 5905-IA-1=DI

**MANUFACTURED BY
HELENA CHEMICAL COMPANY
6075 POPLAR AVENUE, SUITE 500
MEMPHIS, TN 38119**

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

DEC 27 2001

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
5905-262



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust or 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.

**FIRST AID
Organophosphate**

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious or convulsing person.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 - Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye.
 - Call a poison control center or doctor for treatment advice.

IF ON SKIN:

- Take off contaminated clothing
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment

Have the product container with you when calling a poison control center or doctor, or going for treatment.

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. Rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Avoid overlapping of sprays. If waterfowl (ducks or geese), can be expected in the treated area after treatment (except spot treatments), apply at least ¼ inch of water immediately after spraying this product, however stop watering before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

6/11

This pesticide is highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds. Do not apply this pesticide or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill, or store near heat or open flame.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal. Open dumping is prohibited.

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 or 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 Chemtrec 1-800-424-9300 day or night.

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 **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 First Aid section of this label. When handling this product, wear the personal protective equipment listed in the following section.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants

Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, or viton

Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

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 a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

FAILURE TO FOLLOW THE DIRECTION SFOR USE AND PRECAUTIONS ON THIS LABEL, MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

Unless directions under Timing/Special Direction 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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered bythe Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI). Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, or viton
- Shoes plus socks

Do not use water from irrigated or flooded cranberry beds for drinking purposes or to irrigate crops other than those appearing on EPA approved diazinon labels.

VEGETABLE CROPS

SPECIAL PRECAUTIONS TO REDUCE RISKS TO BIRDS

Birds feeding on treated areas may be killed. To reduce risks to birds:

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

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.

Note: Soil Incorporation – Unless directions under Timing/Special Direction 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*	2-3 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.

BEETS, RED (Table): **Cutworms** – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before 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 and transplanting. **Cutworms** – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before 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 and transplanting. **Cutworms** – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before 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 and transplanting. **Cutworms** – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before transplanting. **Wireworms**- 21-28 lbs. per acre. Broadcast and incorporate into soil just before planting.

CARROTS: **Root Maggots** - 14-21 lbs. per acre. Broadcast and incorporate into soil just before planting and transplanting. **Cutworms** – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before 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 and transplanting. **Cutworms** – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast

and incorporate into plant beds or fields 1-2 days before transplanting. **Wireworms**- 21-28 lbs. per acre. Broadcast and incorporate into soil just before planting.

COLLARDS: Root Maggots - 14-21 lbs. per acre. Broadcast and incorporate into soil just before planting and transplanting. **Cutworms** – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before transplanting. **Wireworms**- 21-28 lbs. per acre. Broadcast and incorporate into soil just before planting.

CUCUMBERS: Cutworms – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **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 just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before transplanting. **Wireworms**- 21-28 lbs. per acre. Broadcast and incorporate into soil just before planting.

GINSENG: Cutworms, Climing 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 equipment. **Cutworms, Climing Cutworms, Wireworms, White Grubs** – 21 lbs. per acre. When soil insects damage appwars in established beds, broadcast in the Spring or late Summer through early Fall. Incorporate mechanically with ½ inch of irrigation.

KALE: Cutworms – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before 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 just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before transplanting. **Wireworms**- 21-28 lbs. per acre. Broadcast and incorporate into soil just before planting.

MELONS (CANTALOUPE, CASABAS, CRENSHAW, HONEYDEW, MUSKMELON, PERSIAN, AND HYBRIDS OF THESE) AND WATERMELONS: Cutworms – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before transplanting. **Wireworms**- 21-28 lbs. per acre. Broadcast and incorporate into soil just before planting.

ONION (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 will not control organophosphate-resistant onion maggots. **Wireworms** – 21-28 lbs. per acre. Broadcast and incorporate into soil just before planting.

RADISHES: Mole Crickets – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before transplanting.

SPINACH: Cutworms – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into

plant beds or fields 1-2 days before transplanting. **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 just before planting and immediately incorporate into the soil. **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.

TOMATOES: Cutworms – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before transplanting. **Wireworms**- 21-28 lbs. per acre. Broadcast and incorporate into soil just before planting.

TURNIPS AND TURNIP TOPS: Cutworms – 14-28 lbs. per acre. Broadcast and incorporate just before planting and immediately incorporate into the soil. **Mole Crickets** – 7 lbs. per acre. Broadcast and incorporate into plant beds or fields 1-2 days before transplanting. **Wireworms**- 21-28 lbs. per acre. Broadcast and incorporate into soil just before planting.

FIELD CROPS

SPECIAL PRECAUTIONS TO REDUCE RISKS TO BIRDS

Birds feeding on treated areas may be killed. To reduce risks to birds:

3. Thoroughly incorporate this product into the soil during or immediately after application. Refer to the Soil Incorporated table that follows.
4. Cover or incorporate spilled granules.

Diazinon 14G should be applied uniformly as directed for each crop.

SUGAR BEETS: Sugar Beet Root Maggots – 7-14 lbs. per acre or 4.7 – 3.4 oz. per 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 the soil 4-8 inches just before planting.

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

CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product,

11/11

including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

© Copyright Helena Chemical Company, 2001.

(

(