

300/254193
17/15

OCT 26 1989

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

Dear Ms. Bussey:

SUBJECT: Amendments: Revisions per Registration Standard
and Agency letter dated September 5, 1989; and
Delete pest - cutworms/turnips
D.z.n Diazinon 14G
EPA Reg. No. 100-469
Your submission dated September 20, 1989

The amendments referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, are acceptable provided the following revisions are made prior to release for shipment under the amended label:

- 1) The outline for the restricted use block should appear as on page 16 of the Agency's October 24, 1989 revision to the Diazinon Registration Standard, i.e., the top line of the box should be relocated upwards to appear over "RESTRICTED USE PESTICIDE".
- 2) Delete "Recommended for Agricultural or Commercial Use Only". This limitation has been superseded by the Restricted Use classification.
- 3) In the directions for "Field Corn or Sweet Corn" (page 16 of the label), the handwritten addition creates an apparent discrepancy with the limitation to 3 applications per season. Presumably, you had intended to replace "Repeat application in 7 days if necessary." with "If necessary, application may be repeated at 7-day intervals." rather than have the label carry both directions consecutively. If that is the case, the Agency recommends revising the retained sentence slightly, so that it would read "If necessary, application may be repeated twice at 7-day intervals.". This would then be followed immediately by "Do not make more than 3 applications per season.".
- 4) Delete the bee hazard statements from the Environmental Hazards. As noted in the Diazinon Registration Standard, such statements are not appropriate for granular products.

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2

A stamped copy of the label is enclosed for your records. Please submit five (5) copies of the revised amended label prior to release for shipment.

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (H7504C)

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.

Recommended for Agricultural or Commercial Use Only

D·z·n® diazinon 14G

Granular Insecticide

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

This product must not be used on golf courses and sod farms.

50 Pounds
Net Weight

ACCEPTED
with COMMENTS
in LPA Letter D-11-89

OCT 26 1989

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

Active Ingredient:	
Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	14.3%
Inert Ingredients:	85.7%
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.

Control No. 06850

See directions for use on back of bag.

50 Pounds
Net Weight

CIBA-GEIGY

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.

D·z·n diazinon 14G may be applied aerially to corn only.

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."

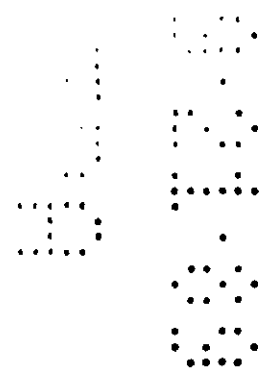
Vegetable Crops

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.

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.

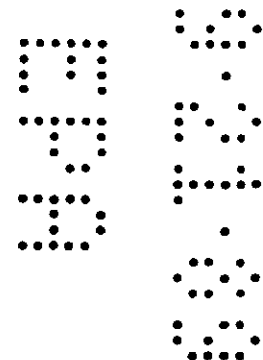
<u>Insect</u>	<u>Depth of Incorporation</u>
Surface cutworms*	2-3 inches
Subterranean cutworms*	3-6 inches
Mole crickets	1-2 inches
Root maggots	3-4 inches
Wireworms	4-8 inches

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

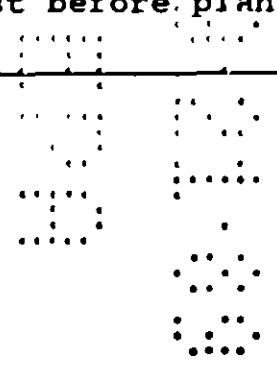


Crop	Pest	Rate	Timing/Special Directions
Beans (Pole, Snap or Lima) (succulent only)	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Lesser Cornstalk Borers	7-14 lbs. per acre	Apply in a 6-inch band centered over the row when plants are 1/2-1 inch tall. Do not incorporate into soil.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Beets, Red (Table)	Cutworms	14-28 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 1-2 days before sowing of seed <i>or transplan-</i> <i>ting</i>
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Broccoli	Root Maggots	14-21 lbs. per acre	Broadcast and incorporate into the soil just before planting or transplanting.
	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Mole Crickets	7 lbs. per acre <i>at seed or</i> <i>trans-</i>	Broadcast and incorporate into plant beds 1-2 days before <i>sowing</i> planting. <i>or fields</i>

Crop	Pest	Rate	Timing/Special Directions
Broccoli (Cont'd)	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Brussels Sprouts	Root Maggots	14-21 lbs. per acre	Broadcast and incorporate into the soil just before planting or transplanting.
	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Mole Crickets	7 lbs. per acre <i>Spred 1/20</i>	Broadcast and incorporate into plant beds 1-2 days before planting. <i>or 1/20</i>
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Cabbage	Root Maggots	14-21 lbs. per acre	Broadcast and incorporate into the soil just before planting or transplanting.
	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Mole Crickets	7 lbs. per acre <i>Spred 1/20</i>	Broadcast and incorporate into plant beds 1-2 days before planting. <i>or 1/20</i>
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.



Crop	Pest	Rate	Timing/Special Directions
Carrots	Cutworms	14-28 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 1-2 days before sowing seed. <i>or</i>
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Cauliflower	Root Maggots	14-21 lbs. per acre	Broadcast and incorporate into the soil just before planting or transplanting.
	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Mole Crickets	7 lbs. per acre	Broadcast and incorporate into plant beds 1-2 days before <i>sowing</i> planting. <i>or</i> <i>trans</i> <i>fields</i>
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Celery	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.

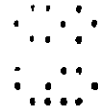


Crop	Pest	Rate	Timing/Special Directions
Collards	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Mole Crickets	7 lbs. per acre	Broadcast and incorporate into plant beds 1-2 days before <i>sowing</i> planting.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Cucumber	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Endive (Escarole)	Cutworms	14-28 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 1-2 days before planting or transplanting. <i>sowing of seed</i>
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the 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 the soil just before planting.
	Mole Crickets	7 lbs. per acre	Broadcast and incorporate into the soil just before planting. <i>plant beds or fields 1-2 days before sowing of seed or transplanting.</i>
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Lettuce	Cutworms	14-28 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 1-2 days before planting or transplanta- ing. <i>(Sowing of seed)</i>
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.

Crop	Pest	Rate	Timing/Special Directions
Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Musk- melons, Persians and Hybrids of these) and water- melons	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Mustard	Mole Crickets	7 lbs. per acre	Broadcast and incorporate into plant beds or fields 1-2 days before planting or transplant- ing. <i>Scout for seed</i>
Onions (green & 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 organophosphate-resistant onion maggots.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Parsley	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.

Crop	Pest	Rate	Timing/Special Directions
Peas (succulent only)	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Peppers	Cutworms	14-28 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 1-2 days before sowing of seed or transplanting.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Potatoes	Cutworms (Surface & Subterranean)	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
<p>← Note: Do not use on commercially grown potatoes which will be hand-harvested.</p>			
Radishes	Root Maggots	10 1/2-14 lbs. per acre	Apply in the seed furrow, at planting (2 1/2-2 4/5 ozs. per 1,000 linear ft. of row.)



Crop	Pest	Rate	Timing/Special Directions
Radishes (Cont'd)	Mole Crickets	7 lbs. per acre	Broadcast and incorporate into plant beds 1-2 days before planting. <i>1/2 inch</i>
Spinach	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Squash, Summer and Winter	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting. <i>and incorporate into soil</i>
Sweet Corn (see also field corn direc- tions for use)	Cutworms	14-28 lbs. per acre	For surface cutworms, broadcast just before planting or when larvae first appear and incorporate into soil 1-2 inches. Do not apply after layby. For subterranean cutworms, apply just prior to planting and incorporate into soil 3-6 inches.
	Seed Corn Maggots	14-23 lbs. per acre	Broadcast just before planting and incorporate into the soil 2 inches.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.

Crop	Pest	Rate	Timing/Special Directions
Sweet Potatoes	Wireworms, Flea Beetles	21 lbs. per acre	Broadcast just before planting. or Broadcast 21 lbs./acre over the tops of vines when roots begin to enlarge (Southeastern U.S.) and, do not incorporate.
Swiss Chard	Cutworms	14-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.
Tomatoes	Cutworms	14-28 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 1-2 days before sowing of seed or transplanting.
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the soil just before planting.

Crop	Pest	Rate	Timing/Special Directions
Turnips	Mole Crickets	7 lbs. per acre <i>at seed or fall</i>	Broadcast and incorporate into plant beds 1-2 days before planting. <i>(c. fields)</i>
	Wireworms	21-28 lbs. per acre	Broadcast and incorporate into the 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 and maximum number of applications per season.

Field and sweet corn may be treated aurally.

Crop	Pest	Rate	Timing/Special Directions
Field Corn or Sweet Corn	European Corn Borers	7-14 lbs. per acre	<p>When 75% of plants show first generation borers feeding, apply over the corn so granules fall in the whorls.</p> <p>Make a second application 7 days later if needed.</p> <p>For second generation borers apply as above when field count shows 100 egg masses per 100 plants.</p> <p>Do not make more than 3 applications per season.</p>
	Fall Armyworm	7-14 lbs. per acre	<p><i>If necessary application may be repeated at 7-day intervals.</i></p> <p>Apply over corn so granules fall into whorls when armyworms first appear. Repeat application in 7 days if necessary. Do not make more than 3 applications per season.</p>
	South-western Corn Borer	7-14 lbs. per acre	<p>Apply over corn so granules fall into whorls when second-generation borers first appear. Repeat application one week later. Do not make more than 3 applications per season.</p>

NOTES: D·z·n diazinon 14G may be applied aeri-ally to corn for these three pests. For aerial applica-tion, 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 follow-ing application. Corn may be picked immediately after last application. Temporary spotting of foliage sometimes occurs following applica-tion.

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.	<p>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.</p> <p>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 4.7-7.1 oz. per 1,000 linear feet of row in a 5-7 inch band directly over the row.</p> <p>Do not allow D·z·n diazinon 14G to contact the seed or injury will occur.</p>
	Wireworms	21-28 lbs. per acre	<p>Broadcast just before planting.</p> <p><i>and include rate into the soil 4-8 inches</i></p>

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

Sugarcane (FL only)	Wireworms	28 lbs. per acre	At planting, apply in a 12-inch band over the open furrow, directly to seed pieces.
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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 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 fish and wildlife. Birds feeding in treated areas may be killed. 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. Collect or incorporate granules that are spilled during loading or are visible on soil surface in turn areas. Do not contaminate water when disposing of equipment washwaters.

Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply to water that will be used for recreational purposes and human livestock consumption. 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.

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

D·z·n® trademark of CIBA-GEIGY

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Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA 1L60Z

(LABELS-D.4 - DZN14G/DRAFT.1)

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 re-
strictions.

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
commercially 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
potential 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
consistent, added
incorporation depth
table, deleted garden
symphylans. Changed
emergency number.

Revised 9/14/89 - Reg.
Standard changes, other
minor changes.