

437603

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

NOV 16 1992

Dear Ms. Bussey:

Subject: Amendments - Revise selected use patterns and/or
lengthen PHIs based upon residue study data,
Revise mushroom house directions, and
Expand aerial application uses
D.z.n diazinon 50W
EPA Reg. No. 100-460
Your submission dated April 23, 1992
and associated FAXes of May 12,
May 19, and August 17, 1992

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

CONTAINER LABEL:

- 1) In the ingredients statement, the name diazinon and that part of its formula name that appear on the next line should be indented so as not to be in line with the terms "Active Ingredient" and "Inert Ingredient".
- 2) In the listing of crops on page 5, it might be better to list "Corn, Sweet" as "Sweet Corn" since that is how it appears in the tables for minimum gallonage and PHI's in the booklet for this product.
- 3) In the Hazards to Humans and Domestic Animals text, add as the last sentence: "Be sure to read and follow the "Work Safety Rules" that appear in the attached booklet.".
- 4) In the Environmental Hazards text, replace "Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes)." with "Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark.".

BOOKLET:

- 1) In the introductory paragraph about fruit and nut crops (page 7), add the closing parenthesis mark in the "Note" about "lbs. of product". Regarding this Note, the directions for some crops (almonds, apples [in 2 locations], cherries, nectarines [in 3 locations], and pears) still state "lbs. of diazinon" rather than "lbs. of product". Revise the directions for the listed crops to "lbs. of product", for consistency with the Note.
- 2) Also, in the next to the last sentence of the introductory paragraph about fruit and nut crops (page 7), revise "tree fruits" to "fruit trees".
- 3) On page 8, in the footnote about PHI, delete the sentence "See specific directions for use on grapes." This is a holdover from when two different PHIs appeared in the entry for the crop "Grapes", now there is only one.
- 4) For the crop Apples, you may want to delete "Do not apply more than 4 lbs. of diazinon [of product] per acre per application." from the Timing/Special Directions for the pest "Leafhoppers" since this same limitation appears in the Note for all uses on this crop.
- 5) In the "Note" under the crop directions for Apples and for the "Note" text for all other subsequent crops, it would be clearer if (as you have done for the D.z.n diazinon AG 500 label) the limitation of the number of pounds per acre per season was preceded by "and no more than" rather than just "and".
- 6) For the crop Apricots, in the Timing/Special Directions for control of Olive Scale Crawlers, should there be a limitation as to the maximum amount of oil (or product and oil) per acre per application, as there is for the control of San Jose Scale?
- 7) Also for the crop Apricots, in the Timing/Special Directions for control of Apricot Mealybugs, either correct the sentence about a 10 day PHI to read 21 days or just delete it entirely, since the Note for the crop contains the correct 21 day PHI.
- 8) For the crop Cherries, add a line separating the directions for control of Cherry Fruitflies from those for control of Black Cherry Aphids.
- 9) For other crops where all the uses have a PHI associated with them, the PHI appears in the Note for that crop, however, for Cranberries the 7 day PHI appears in each separate Timing/Special Directions entry. Is that intentional, or

should the PHI appear as item 1 of the Note, with the referral to chemigation directions being item 2?

- 10) For the crop Grapes, delete the line in the "CROP" column (an overextension of the line between different pest entries).
- 11) For the crop Peaches, in the Timing/Special Directions for control of both Peach Twig Borers and Oil Scale Crawlers, should there be a limitation as to the maximum amount of oil (oil product and oil) per acre per application, as there is for the control of San Jose Scale?
- 12) For the crop Pears, revise the Note for Apple Maggot control to read "will not control", i.e. to be the same as the similar note about organophosphate-resistant leafminer control on vegetable crops.
- 13) In the introductory paragraph on vegetable crops on page 28, delete "D.z.n diazinon 50W may be applied aerially only to certain crops as specified in the following table.", since all vegetable crop uses now include an aerial application rate.
- 14) In the minimum gallonage table on page 29, you may want to capitalize the "E" of "escarole" (as it is in the PHI table on the next page) and to revise the entry for lettuce to just "Lettuce" or "Lettuce (Head and Leaf)" since there is no longer a distinction between the types (which earlier had been based on aerial application considerations).
- 15) In the PHI table, you may want to revise the entry for turnips to read "Turnips (Roots and Tops)".
- 16) In the first sentence of the note on soil incorporation (page 31), add a comma between "disk" and "harrow".
- 17) For the crop Beans, in the third group of pests, revise "Leafminers" to "Dipterous Leafminers". This raises the question as to which pest grouping and associated rate is correct for Dipterous Leafminers. They are included in the third pest grouping, where the application rate is 1 to 1 1/2 lbs. per acre (2/5 to 3/5 oz. per 1,000 sq. ft.) and in the fifth pest grouping, where the application rate is only 1 lb. per acre (and an incorrectly converted per 1,000 sq. ft. rate of 1/5 oz., which should be 2/5 oz. per 1,000 sq. ft.). Which is correct, 1 lb. or 1 to 1/2 lbs.? The listing for this pest should remain only in the group that is associated with the correct application rate.
- 18) The conversion rates between pounds per acre and ozs. per 1,000 square feet are not consistent throughout the specific vegetable crop directions. The following represents what the

Agency believes to be the correct conversions (based on the fact that these conversions appear in the majority of use directions on your label):

<u>lb/acre</u>	<u>oz./1,000sq.ft.</u>
1/2	1/5
3/4	3/10
1	2/5
1 1/2	3/5
2	3/4
2 1/2	1
4	1 1/2
6	2 1/4
8	3

If these are the correct conversions, then in addition to the apparent conversion error detailed in item 17 above, the following should also be corrected: For the crop Lettuce to control Aphids, etc. rather than 3/16-3/8 oz., the conversion would be 1/5-2/5 oz.; for the crop Onions to control Onion Thrips, rather than 3/8 oz. the conversion would be 2/5 oz.. While, technically, the following rates are not wrong, is there a reason the fractions are not reduced to their lowest common denominator to be in agreement with the rest of the label: For the crop Potatoes to control Aphids, etc., why 2/10-3/10 rather than 1/5 to 3/10 oz., and to control Banded Cucumber Beetles, etc., why 3/10-4/10 rather than 3/10-2/5 oz.?

- 19) Add a line in the "Crop" column between the entries for Chinese Broccoli and Chinese Cabbage.
- 20) Delete the extra lines in the "Crop" column for the crop Collards.
- 21) For the crop Onions, in the Timing/Special Directions column, correct the spelling of "applications".
- 22) For the crop Winter Squash, in the third group of pests revise "Mites" to "Spider Mites".
- 23) In the directions for Seed Treatment, to be consistent with the rest of the label where multi-part pest names are all capitalized, the pest names should appear as "Seedcorn Beetle" and "Seedcorn Maggot".
- 24) For the crop Sugar Beets, in the second group of pests, revise "Beef Leafhoppers" to "Beet Leafhoppers".
- 25) In the first paragraph under the heading "Insect Control on Ornamentals" revise "Douglas fir" to "Douglas Fir".

- 26) For consistency with the rest of this label (and with your D.z.n diazinon AG500 label), the all parts of multi-part named pests in the "Insect Control on Ornamentals" directions should be capitalized, i.e. the pest groupings should read as follows [also note correction of "Two-spotted mites" to "Two-Spotted Spider Mites"]:

Aphids, Bagworms, Carnation Bud Mites,
 Carnation Shoot Mites, Clover Mites,
 Cyclamen Mites, Dipterous Leafminers,
 European Pine Shoot Moths, European
 Red Mites, Flea Beetles, Holly Bud
 Moths, Leafhoppers, Obscure Root
 Weevils, Omnivorous Leaf tiers,
 Privet Mites, Scale Crawlers
 (Cottony cushion, Lecanium, Pine
 Needle, San Jose, Soft),
 Thrips, Two-Spotted Spider Mites,
 Webworms, Whiteflies

App e-and-Thorn Skeletonizers,
 Cotoneaster, Webworms, Fall
 Webworms, Hemlock Chermes,
 Oak Loopers, Obliquebanded
 Leafrollers, Pear Slugs,
 Tent Caterpillars

- 27) In the last sentence of the "Precautions" under the heading "Lawn Pest Control", revise "... at least 0.25 inch water..." to "... at least 1/4 inch of water..."
- 28) For consistency with the rest of this label (and with your D.z.n diazinon AG500 label), the all parts of multi-part named pests in the "Lawn Pest Control" directions should be capitalized, i.e. the pest groupings should read as follows:

Lawn Chinch Bugs

Ants, Armyworms,
 Bermudagrass Mites,
 Clover Mites,
 Springtails (Collembola),
 Crickets, Cutworms,
 Digger wasps, Earwigs,
 Frit Flies, Lawn Billbugs,
 Leafhoppers,
 Sod Webworms (Lawn Moth),
 Sowbugs (Pillbugs),
 Brown Dog Ticks,
 Chiggers, Fleas

Hyperodes Weevils

Millipedes

Rhodesgrass Scales

White Grubs

**(Japanese Beetle Larvae,
European Chafer, Southern
Chafer)**

- 29) Revise the last sentence of the Note to Physician to read "2-PAM is also antidotal and may be administered, but only in conjunction with atropine.
- 30) In the Environmental Hazards text, revise the sentence beginning "On lawns where irrigation is recommended in the directions, or if waterfowl..." to read "On lawn, if waterfowl..", since the directions for use of this professional-use product do not include the recommendation for irrigation, as is found on your homeowner-use diazinon products.
- 31) Also in the Environmental Hazards text, replace "Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes)." with "Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark."

Sincerely yours,

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

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.

General Information

D·z·n diazinon 50W is a wettable powder which should be mixed with sufficient water to assure thorough coverage unless otherwise noted in the Directions for Use.

Best control is obtained when application is made at first sign of pests. Application should be repeated only as directed to maintain control.

Since D·z·n diazinon 50W is a wettable powder formulation, constant agitation is necessary during application.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, since crop or plant injury may result.

Do not use on food crops grown in greenhouses.

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 50W, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See Practical Treatment section of this label. When handling this product, wear the personal protective equipment listed in the following section.

PERSONAL PROTECTIVE EQUIPMENT:

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

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

Re-entry Statement

Twenty-four hours must elapse between the time of application to vegetables, fruits, nuts and field crops 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. For lawns, ornamentals, or non-crop areas, do not enter or allow entry into treated areas without personal protective equipment until sprays have dried.

Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. (See Note below.)

In vegetables, fruit trees, or field crops, 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 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 in case of accidental exposure, as described under Statement of Practical Treatment in the Precautionary Statements on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: **WARNING.** Area treated with D·z·n diazinon 50W 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 physician if irritation persists. Remove and wash contaminated clothing before reuse.

Note: The California Department of Agriculture has set a 5-day reentry period for diazinon on grapes, peaches, and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of two or more organophosphate pesticides are applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

Chemigation

Refer to supplemental labeling booklet in bottom flap of bag for chemigation use directions for cranberries. Do not apply this product to cranberries through any type of irrigation system unless the specific directions for chemigation are followed.

Do not apply this product to any other crop or site through any type of irrigation system.

For specific directions for use, see booklet in bottom flap of bag.

D·z·n diazinon 50W is registered for use in or on:

- | | | |
|---------------------|---------------------|-------------------|
| Almonds (CA only) | Hops | Sheep |
| Apples | Kale | Spinach |
| Apricots | Lawns (excludes | Squash |
| Beans, (Lima, Pole, | golf courses and | Strawberries |
| and Snap) | sod farms) | Sugar Beets |
| (succulent only) | Lettuce | Sweet Potatoes |
| Beets | Loganberries (CA, | Swiss Chard |
| Blackberries (CA, | OR, WA only) | Tomatoes |
| OR, WA only) | Melons | Turnips |
| Boysenberries (CA, | Mushroom Houses | Turnip Tops |
| OR, WA only) | Mustard | Walnuts (CA only) |
| Broccoli | Nectarines | |
| Brussels Sprouts | Non-crop Areas | |
| Cabbage | Onions | |
| Caneberries (CA, | Ornamentals | |
| OR, WA only) | Parsley | |
| Carrots | Parsnips | |
| Cauliflower | Peaches | |
| Cherries | Pears | |
| Chinese Broccoli | Peas (succulent | |
| Chinese Cabbage | only) | |
| (Bok Choy and | Peppers | |
| Napa) | Pineapple | |
| Chinese Mustard | Plums | |
| Collards | Potatoes** | |
| Corn, Sweet | Prunes | |
| Cranberries | Radishes | |
| Cucumbers | Raspberries (CA, OR | |
| Dewberries (CA, | WA only) | |
| OR, WA only) | Seed Treatment, | |
| Endive (Escarole) | planter box | |
| Fly control in | (Corn and | |
| barns and animal | succulent peas | |
| sleeping quarters* | and beans) | |
| Grapes | | |

*except dairy barns, milk rooms and poultry houses

**except commercially-grown potatoes which will be hand-harvested

Storage and Disposal

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

Pesticide: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If pesticide, spray mixture or rinsates cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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 skin. Do not breathe dust or spray mist. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Avoid contamination of food and feed. Keep out of reach of domestic animals. Do not use on humans or pets. Do not contaminate ornamental fish ponds. Do not permit children or pets to go onto sprayed grass until spray has completely dried. For foliar application to agricultural crops whose culture involves hand labor, there is a 24-hour re-entry period (see Re-entry Statement).

Statement of Practical Treatment

If swallowed: Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching back of 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. Apply artificial respiration if indicated. Get medical attention.

If on skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water. Get medical attention.

If in eyes: Flush eyes with plenty of water. Call a physician if irritation develops or persists.

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 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. Because of the migratory habits of Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York, between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. On lawns where irrigation is recommended in the directions or if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply a minimum of 1/4 inch of water immediately after applying this product. Stop irrigation before puddling occurs. 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 wash waters.

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.

D·z·n® trademark of CIBA-GEIGY for diazinon

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Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA 1L118F (5 Pounds)
CGA 1L117E (4 Pounds)

[GANNONC.LABELS]DZN50W_5_F4

Revised June 2, 1982
 Revised Nov. 30, 1982
 (Including EPA comments
 of 11/22/82)

Revised Jan. 02, 1985
 (EPA PR Notices 83-2 &
 83-3)

Revised March 3, 1987
 Reduced rates on turf,
 separate sections for golf
 courses and lawns, revised
Environmental Hazards

Revised April 5, 1988
 Deleted golf courses, sod
 farms, added do not use on
 golf courses, sod farms,
 deleted ref. to golf courses
 and sod farms from Env.
 Hazards, added chemigation
prohibition.

Revised November 22, 1988 -
 Deleted non-supported crops
 per EPA's May 1, 1988
 Data Call-In, added spill
statement

Accepted 11/23/88 with
 comments

Revised 1/28/89 per EPA com-
 ments and per Data Call-In -
 Moved golf course/sod farm
 prohibition under product
 name, changed a.i. name back
 to original accepted version,
 revised Hazards to Humans and
 Domestic Animals, Revised
 precautionary statements,
 revised Env. Hazards, added
 "Recommended for Agricultural
 or Commercial Use only,

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revised note to physician,
revised list of labeled
crops, did not include apri-
cots, plums or prune dfu's on
container label because of
lack of space.

Revised 6/7/89 - revised
reentry statements - 24 hr.
reentry for vegs., fruits,
field crops, see booklet.

Revised 9/15/89 - minor revi-
sions per EPA letter of
6/23/89 and Registration
Standard.

Revised 11/21/89 - per EPA
letter of 11/6/89

Revised 1/11/90 - referral
statement for chemigation -
cranberries and revised Env.
Hazards per EPA letter of
12/4/89, deleted blueberries.

Revised 10/8/90 - amended
"Failure to Follow" state-
ment, revised Worker Safety
lang. to match booklet.

Revised 11/20/90 per EPA
letter of 10/6/90.

Revised 1/16/91 per EPA
letter of 12/18/90

Revised 10/3/91 per EPA
letters of 12/18/90 and
8/26/91 (signal word)

Revised 4/23/92 - deleted
celery (over tolerance) and
aerial application limita-
tions.

[GANNONC.LABELD]DZN50W_5_F4 - 4/24/92

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.

Booklet for 4 and 5 Lbs.

D·z·n® diazinon 50W

Insecticide

For control of certain insects and mites on
fruits, nuts, vegetables, field crops, lawns,
and ornamentals. For specific pests,
refer to use directions.

ACCEPTED
with COMMENTS
in EPA Letter Dated

NOV 16 1992

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-460

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

Active Ingredient:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-	
<u>methyl-4-pyrimidinyl) phosphorothioate</u>	50%
<u>Inert Ingredients:</u>	50%
<u>Total:</u>	100%

D·z·n diazinon 50W is a wettable powder

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements
and directions for use inside booklet.

EPA Reg. No. 100-460

CIBA-GEIGY

[GANNONC.LABELD]DZN50WBF1 - 4/24/92



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.

General Information

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To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, since crop or plant injury may result.

Do not use on food crops grown in greenhouses.

Work Safety Rules

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When handling D·z·n diazinon 50W, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See Practical Treatment section of this label. When handling this product, wear the personal protective equipment listed in the following section.

PERSONAL PROTECTIVE EQUIPMENT:

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

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

Re-entry Statement

Twenty-four hours must elapse between the time of application to vegetables, fruits, nuts and field crops and the time a worker enters or is allowed to enter the treated area, unless the

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person entering the treated area is wearing the personal protective equipment listed above. For lawns, ornamentals, or non-crop areas, do not enter or allow entry into treated areas without personal protective equipment until sprays have dried.

Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. (See Note below.)

In vegetables, fruit trees, or field crops, 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 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 in case of accidental exposure, as described under Statement of Practical Treatment in the Precautionary Statements on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: WARNING. Area treated with D·z·n diazinon 50W 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 physician if irritation persists. Remove and wash contaminated clothing before reuse.

Note: The California Department of Agriculture has set a 5-day reentry period for diazinon on grapes, peaches, and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of two or more organophosphate pesticides are applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

CHEMIGATION

APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) - CRANBERRIES ONLY

D·z·n diazinon 50W may be applied alone or in combination with other pesticides registered for application through sprinkler irrigation systems to cranberries. To insure compatibility, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is compatible.

Do not apply this product through any type of irrigation system to other crops. For chemigation, apply this product to cranberries only through sprinkler irrigation systems. Do not apply this product to cranberries through any other type of irrigation system.

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Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect the irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments if the need arises.

Chemigation System Connected to Public Water Systems

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

Sprinkler Chemigation

1. The system must contain a functional check valve, a vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

Operating Instructions

1. Determine the acreage to be treated by the sprinkler system.
2. Measure the appropriate amount of D·z·n diazinon 50W needed to treat the acreage to be treated. Refer to the specific directions for use for cranberries for the application rate and the amount of water per acre.
3. Add the pre-measured D·z·n diazinon 50W to the chemigation system supply tank and dilute with water if needed. Constant agitation is required to keep the product in solution when D·z·n diazinon 50W is used alone or tank mixed with other pesticides registered for sprinkler chemigation application to cranberries.
4. Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.
5. Engage the chemigation injection or venturi system to add the diazinon to the irrigation lines.
6. Continue to run irrigation system for a few minutes after supply tank is empty to allow material in the irrigation lines to reach the sprinkler heads furthest from the chemigation injection point.

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Fruit and Nut Crops

D·z·n® diazinon 50W may be applied using ground or aerial application equipment as specified in the table below. This table also indicates the minimum amount of water that can be used for the various methods of application. The rate of D·z·n diazinon 50W for aerial spray or concentrated spray applied by ground ~~equipment~~ ^{fruit or trees} is based on a dilute full cover spray applied to ~~trees~~ ^{fruit or trees} with conventional ground equipment at a rate of 300-400 gallons of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. (Note: "lbs." or "lbs. of product" in the directions means pounds of this product, not pounds of active ingredient. If the "Rate" calls for 1 lb. of D·z·n diazinon 50W per 100 gallons of water, this amounts to 3-4 lbs. of product per acre when applied to tree fruits at usual dilute ground spray volumes of 300-400 gallons of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the directions for use for individual crops.

CROP	AERIAL APP.	GROUND APP.	
	MINIMUM GALLONS/ACRE	DILUTE	CONCENTRATE
Almonds*	20	100	20
Apples	20	100	20
Apricots	20	100	20
Blackberries**	20	100	20
Boysenberries**	20	100	20
Cherries	20	100	20
Cranberries	20	15	-
Dewberries**	20	100	20
Grapes	20	100	20
Loganberries**	20	100	20
Nectarines	20	100	20
Peaches	20	100	20
Pears	20	100	20
Pineapple	20	200	-
Plums	20	100	20
Prunes	20	100	20
Raspberries**	20	100	20
Strawberries	20	100	20
Walnuts*	20	100	20

*CA. only

**CA, OR or WA only

Observe stated time intervals between last application and harvest, as well as intervals between applications and total amount of product that can be applied per season.

CROP	*PHI
Almonds	**
Apples	21
Apricots	21
Blackberries	7
Boysenberries	7
Cherries	21
Cranberries	7
Dewberries	7
Grapes	28
Loganberries	7
Nectarines	21
Peaches	21
Pears	21
Pineapple	7
Plums, Prunes	21
Raspberries	7
Strawberries	5
Walnuts	45

*PHI = Pre Harvest Interval or the number of days between the last application and harvest; may vary based on use pattern selected. See specific directions for use on grapes.

** = Dormant spray only.

Note: To protect bees, do not apply this product to fruit trees when the trees or substantial numbers of weeds in the orchard are in bloom.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Almonds (CA only)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1-1 1/2 lbs. + 2- 3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a single dormant spray. Do not apply more than 6 lbs. of diazinon or 9 gals. of oil per acre.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Apples	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. + 2 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant or delayed dormant spray. Do not apply more than 4 lbs. of diazinon or 6 gals. of oil per acre per application.
	Leafhoppers	1 lb. in 100 gals. of water	Apply, beginning at petal fall, as infestations develop. Repeat application in 14 days if necessary. Do not apply more than 4 lbs. of diazinon per acre per application.
	Eyespotted Bud Moths, Fruit Tree Leaf-rollers, Mealybugs	1 lb. in 100 gals. of water	Make 3 cover sprays, beginning at pink stage. Do not repeat application closer than 14 days.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Apples (Cont'd)	Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Wooly Apple Aphids, Spider Mites	1 lb. in 100 gals. of water	Make 3 cover sprays beginning when infestations occur. Do not repeat applications closer than 14 days. NOTE: Mites will be suppressed if diazinon is used in the regular cover spray program. Slight russeting may occur on some varieties of apples such as Golden Delicious.
	Apple Maggot	1 lb. in 100 gals. of water	Make 3 cover sprays when flies are active and laying eggs. Do not repeat applications closer than 14 days. NOTE: Diazinon may not control organophosphate-resistant apple maggots.
	San Jose Scale Crawlers, Forbes Scale Crawlers	1 lb. in 100 gals. of water	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later.

Note: 1) Do not apply more than 4 lbs. of product per acre per application and 12 lbs. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Apricots	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. + 2 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre per application.
	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 lb. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Olive Scale Crawlers	1/2 lb. + 1 1/2 gals. of light medium horticultural oil in 100 gals. of water	Apply when scale crawlers are present.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Apricots (Cont'd)	Apricot Mealybugs	1 lb. in 100 gals. of water	Apply as a cover spray from petal fall to June up to a maximum of 4 lbs. per acre per application. Allow 14 days between applications. Do not apply within 10 days of harvest or illegal resi- dues may occur.

Note: 1) Do not apply more than 4 lbs. of product per acre per applica-
tion and 12 lbs. of product per acre per season. 2) To avoid illegal
residues, allow a minimum of 21 days between the last application and
harvest.

Caneberries CA, OR and WA only (Black- berries, Bousen- berries, Dew- berries, Logan- berries, Rasp- berries)	Leafhoppers, Thrips, Aphids, Two-spotted Spider Mites, Raspberry fruitworms	2 lbs. per acre in a minimum of 100 gals. of water (200 gals. of water maximum)	Apply as insects occur. Repeat application after 14 days if necessary. Do not make more than 5 appli- cations per season. Do not apply within 7 days of har- vest or illegal residues may occur. For raspberry fruitworm make one application when blossom buds separate. Make a second applicati ^o n immediately before blossoms open.
	Dryberry Mites	2-4 lbs. per acre in a minimum of 100 gals. of water.	Apply as a dormant spray in the early Spring, when canes are still on the ground and buds are closed. Make a second application when buds are well devel- oped but still closed.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Caneberries (Cont'd)	Raspberry Crown Borers (Raspberry Root Borer)	4 lbs. per acre in a minimum of 100 gals. of water	Apply as a drench to the crown and lower canes in the Spring before buds break.
Cherries	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 1/4 lbs. + 3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 4 lbs. of diazinon or 6 gals. of oil per acre.
	Eyespotted Bud Moths, Fruit Tree Leafrollers	1 lb. in 100 gals. of water	Apply as infestations occur beginning at petal fall. Repeat application after 7 days if necessary.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Cranberries	Blackheaded Fireworms	4 lbs. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation.	Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 6 applications per season is permitted. Do not apply within 7 days of harvest or illegal residues may occur.
	Cranberry Fruitworms	6 lbs. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation.	Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 4 applications per season is permitted. Do not apply within 7 days of harvest or illegal residues may occur.

Note: This product may be applied to cranberries through sprinkler irrigation. Refer to the section "Chemigation" for specific chemigation directions for use.

Grapes	Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leaf-folders, Omnivorous Leafrollers, Aphids, Spider Mites	1-2 lbs. per acre in a minimum of 100 gals. of water (200 gals. of water maximum)	Apply as a thorough cover spray when pest appears. Repeat application after 7 days if necessary.
	<u>Drosophila</u> spp.	6 ozs. per acre in a minimum of 100 gals. of water (300 gals. of water maximum)	Apply as a thorough cover spray at 7-day intervals.

Note: 1) Do not apply more than 2 lbs. product per acre per application and 10 lbs. product per acre per season. 2) To avoid illegal residues, allow a minimum of 28 days between the last application and harvest.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Nectarines	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, European Red Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. + 2-3 gals. of dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 4 lbs. of diazinon or 6 gals. of oil per acre.
	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 lb. in 100 gals. of water	Apply as infestations occur. Repeat application after 7 days if necessary.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Nectarines (Cont'd)	Peach Twig Borers, Parlatoria Scale	1 lb. + 1 gal. light medium summer horticultural oil in 100 gals. of water	Apply at petal fall. Do not apply more than 4 lbs. of diazinon or 4 gals. of summer oil per acre.
	Olive Scale Crawlers	1/2 lb. + 1 1/2 gals. light medium horticultural oil in 100 gals. of water	Apply as insects occur. Do not apply more than 4 lbs. of diazinon or 4 gals. of summer oil per acre per application. Allow 7 days between applications.
	Oriental Fruitmoths	1 lb. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight.

Note: 1) Do not apply more than 4 lbs. of product per acre per application and 12 lbs. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Peaches	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.
	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 lb. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Peach Twig Borers, Parlatoria Scale	1 lb. + 1 gal. light medium summer horticultural oil in 100 gals. of water	Apply at petal fall.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Peaches (Cont'd)	Olive Scale Crawlers	1/2 lb. + 1 1/2 gals. light medium horticultu- ral oil in 100 gals. of water	Apply as insects occur.
	Oriental Fruit Moths	1 lb. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applica- tions at 10-15 day inter- vals. Time the last appli- cation to peak adult flight.
	Peach Twig Borers	1 lb. in 100 gals. of water	Apply as insects occur in May and June. Allow 7 days between applications.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Peaches (Cont'd)	Leafhoppers	1 lb. in 100 gals. of water	Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between appli- cations.
	White Peach Scale	1 1/2-2 lbs. in 100 gals. of water	Apply post harvest timed to coincide with peak crawler and immature scale activ- ity. Under conditions of heavy infestation 2 appli- cations (7 days apart) may be needed.

Note: 1) Do not apply more than 4 lbs. of product per acre per applica-
tion and 12 lbs. of product per acre per season. 2) To avoid illegal
residues, allow a minimum of 21 days between the last application and
harvest.

Pears	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. + 2-3 gals. dormant oil or 1- 1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 4 lbs. of diazinon or 6 gals. of oil per acre.
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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Pears (Cont'd)	Pear Psylla	1/2-1 lb. in 100 gals. of water	Apply as a cover spray at pre-pink stage. Make 1-2 additional applications during the first and second cover sprays, if necessary. Allow at least 14 days between applications.
	Tentiform Leafminers, Mealybugs	1 lb. in 100 gals. of water	Make 3 cover sprays, beginning in April. Allow at least 14 days between applications.
	Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Wooly Apple Aphids, Spider Mites	1 lb. in 100 gals. of water	Make 3 cover sprays beginning as infestations occur. Allow at least 14 days before applications. NOTE: Mites will be suppressed if diazinon is used in this regular cover spray program.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Pears (Cont'd)	Apple Maggots	1 lb. in 100 gals. of water	Make 3 cover sprays when flies are active and laying eggs. Allow at least 14 days between applications. NOTE: Diazinon may not control organophosphate- resistant apple maggot.
	San Jose Scale Crawlers, Forbes Scale Crawlers	1 lb. in 100 gals. of water	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later.

Note: 1) Apply no more than 4 lbs. of product per acre per application and 12 lbs. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 21 days between last application and harvest.

Pineapple	Pineapple Mealybugs	2 lbs. per acre in 200-500 gals. of water.	Repeat application as nec- essary every 28 days up to a maximum of 8 applica- tions. Do not apply within 7 days of harvest or ille- gal residues may occur. Pineapple forage and refuse may not be fed to live- stock.
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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Plums	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 6 lbs. of product or 9 gals. of oil per acre. If applied in late April or May, mix diazinon with 1 gal. of light medium summer horticultural oil per 100 gals. of water.
	Brown Mites, Clover Mites, European Red Mites	1 lb. in 100 gals. of water	Apply as needed every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 lb. in 100 gals. of water	

Note: 1) Apply no more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Prunes	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre per application. For late April or May applications mix diazinon with 1 gal. of light medium summer horticultural oil per 100 gals. of water.
	Brown Mites, Clover Mites, European Red Mites	1 lb. in 100 gals. of water	Apply as needed every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 lb. in 100 gals. of water	

Note: 1) Apply no more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Straw-berries	Aphids, Two-spotted Spider Mites	1 lb. in 100 gals. of water per acre	Apply as pests occur. Repeat application if nec- essary after 7 days.
	Cyclamen Mites	2 lbs. in 100 gals. of water per acre	Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat appli- cation after 7 days if nec- essary.
	Mole Crickets	2 lbs. per acre	Apply 1-2 days before transplanting and immedi- ately incorporate into the top 1-2 inches of soil.
	Strawberry Leafrollers	3/4-1 lb. in 100 gals. of water	Apply 200 gals. of spray per acre when blossoms show color.

Note: 1) Do not make more than 3 foliar applications per season. 2) Do not apply more than 2 lbs. of product per acre per application and 8 lbs. of product per acre per season. 3) Allow a minimum of 5 days between the last application and harvest.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Walnuts (CA only)	Aphids, Spider mites	2 lbs. in 100 gals. of water per acre	Apply as a foliar spray as needed. Repeat applica- tions in 14 days if neces- sary. Do not make more than 3 applications per season. Do not apply within 45 days of harvest or after husks open or illegal residues may occur.
	Codling Moths, Scale Crawlers, Walnut Caterpil- lars	6 lbs. in 100 gals. of water per acre	

Vegetable Crops

For foliar or soil applications, D·z·n® diazinon 50W should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. D·z·n diazinon 50W may be applied aurally only to certain crops as specified in the following table. The specific amount of product to be used appears under the separate directions for use for each crop.

CROP	GROUND APPLICATION		AERIAL APPL.
	MIN GPA	OR MIN. GALS. PER 1000 SQ. FT.	MIN. GPA
Beans (Lima, Pole and Snap) (succulent only)	10	2	5
Beets, Red (Table)	10	2	5
Broccoli	10	2	5
Brussels Sprouts	10	2	5
Cabbage	10	2	5
Cantaloupes	5	1	5
Carrots	10	2	5
Casabas	5	1	5
Cauliflower	10	2	5
Chinese Broccoli	10	2	5
Chinese Cabbage	10	2	5
Chinese Mustard	10	2	5
Collards	10	2	5
Crenshaws	5	1	5
Cucumbers	5	1	5
Endive (escarole)	10	2	5
Honeydew Melons	5	1	5
Kale	10	2	5
Lettuce, Head	10	2	5
Lettuce, Leaf	10	2	5
Muskmelons	5	1	5
Mustard	10	2	5
Onions (Bulb and Green)	10	2	5
Parsley	10	2	5
Parsnips	10	2	5
Peas (succulent only)	10	2	5
Peppers	10	2	5
Persian Melons	5	1	5
*Potatoes (Irish)	10	2	5
Radishes	10	2	5
Spinach	10	2	5
Squash, Summer	5	1	5
Squash, Winter	5	1	5
Sweet Corn	20	4	5
Sweet Potatoes	10	2	5
Swiss Chard	10	2	5
Tomatoes	10	2	5
Turnips	10	2	5
Watermelons	5	1	5

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

Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season.

Preharvest Intervals (PHI*) for Foliar Applications

<u>Crop</u>	<u>*PHI (Days)</u>
Beans (Lima, Pole, Snap)	7
Beets, Red (Table)	14
Broccoli	7
Brussels Sprouts	7
Cabbage	21
Cantaloupes	3
Carrots	14
Casabas	3
Cauliflower	7
Celery	10
Chinese Broccoli	10
Chinese Cabbage	10
Chinese Mustard	10
Collards	10
Crenshaws	3
Cucumbers	7
Endive (Escarole)	14
Honeydew Melons	3
Kale	10
Lettuce	14
Muskmelons	3
Mustard	10
Onions (Bulb and Green)	14
Parsnips	14
Peas	7
Peppers	5
Persian Melons	3
Potatoes (Irish)	35
Radishes	14
Spinach	14
Squash, Summer	7
Squash, Winter	3
Sweet Corn	0 7
Swiss Chard	14
Tomatoes	1
Turnip (Tops - Roots)	14
Watermelons	3

*PHI=Pre-Harvest interval or the number of days between the last application and harvest.

NOTES: 1) Soil Incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see TIMING/SPECIAL DIRECTIONS) using a rotary hoe, cultivator, disk harrow, or other suitable means. For control of surface cutworms, incorporate 2-3 inches, for subterranean cutworms incorporate 3-6 inches. 2) To Protect Bees: Foliar applications of this product should not be made to peas or beans if these crops or weeds in the treatment area are in bloom, or to corn during the pollen shed period.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Beans (Lima, Pole and Snap) (succulent only)	Cutworms	4-8 lb. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.
	Black Bean Aphids, Mexican Bean Beetles, Leafminers	1-1 1/2 lbs. per acre or 2/5-3/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, every 5 days. Do not make more than 3 appli- cations per season. Do not apply within 7 days of har- vest or illegal residues may occur.
	Cucumber Beetles	1/2-3/4 lbs. per acre or 1/5-3/10 oz. per 1,000 sq. ft.	Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. Make cucumber beetle appli- cation in 100 gals. of water per acre. NOTE: Diazinon will not control organophosphate- resistant leafminers.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
<p>Beans (Lima, Pole and Snap) (succulent only) (Cont'd)</p>	<p>Dipterous Leafminers, Leafhoppers, Spider Mites</p>	<p>1 lb. per acre or 1/5 oz. per 1,000 sq. ft.</p>	<p>Apply as pests occur. Repeat application as nec- essary every 5 days. Do not make more than 3 appli- cations per season. Do not apply within 7 days of har- vest or illegal residues may occur.</p> <p>Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.</p> <p>NOTE: Diazinon will not control organophosphate- resistant leafminers.</p>
<p>Beets, Red (Table)</p>	<p>Cutworms</p>	<p>4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft</p>	<p>Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)</p>
	<p>Mole Crickets</p>	<p>2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.</p>	<p>Apply to plant beds or fields 1-2 days before planting, and immediately incorporate into the top 1- 2 inches of soil.</p>
	<p>Wireworms</p>	<p>6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.</p>	<p>Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.</p>

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Beets, Red (Table) (Cont'd)	Aphids, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 cz. per 1,000 sq. ft.	Apply as insects occur. Repeat application as necessary up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest, or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Broccoli	Root Maggots	4-6 lbs. per acre or 1 1/2-2 1/4 ozs. per 1,000 sq. ft.	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 ozs.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Broccoli (Cont'd)	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1- 2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 7 days of harvest, or illegal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leafminers.
Brussels Sprouts	Root Maggots	4-6 lbs. per acre or 1 1/2-2 1/4 ozs. per 1,000 sq. ft.	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2- 1 cup (4 to 8 ozs.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. Note: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Brussels Sprouts (Cont'd)	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage-worms	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 7 days of harvest or illegal residues may occur.
Cabbage	Root Maggots	4-6 lbs. per acre or 1 1/2-2 1/4 ozs. per 1,000 sq. ft.	Broadcast just before planting or transplanting immediately incorporate into the top 3-4 inches of soil.
		4-8 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 ozs.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Cabbage (Cont'd)	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 21 days of harvest or illegal resi- dues may occur. NOTE: Diazinon will not control organophosphate- resistant leafminers.
Carrots	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1- 2 inches of soil.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Carrots (Cont'd)	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.
	Carrot Rust Fly	4 lbs. per acre or 1 1/2 ozs. per 1,000 sq. ft.	Apply as a drench to the seed furrow at planting.
	Aphids	1 lb. per acre or 2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest, or illegal residues may occur.
Cauliflower	Root Maggots	4-6 lbs. per acre or 1 1/2-2 1/4 ozs. per 1,000 sq. ft.	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2- 1 cup (4 to 8 ozs.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Cauliflower (Cont'd)	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate in the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 7 days of harvest or illegal resi- dues may occur. NOTE: Diazinon will not control organophosphate- resistant leafminers.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Chinese Broccoli	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Chinese Mustard (Gai Choy)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Collards	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Harlequin Cabbage- bugs, Corn Earworms	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Cucumbers	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms	1 lb. per acre or 2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Endive (Escarole)	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Cricket	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate 4-8 inches into soil.
	Aphids, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest. NOTE: Diazinon will not control organophosphate- resistant leafminers.
Kale	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Cricket	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Kale (Contd)	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Harlequin Cabbage- bugs Corn Earworms	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur.
Lettuce	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 lb. per acre or 3/16-3/8 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest. NOTE: Diazinon will not control organophosphate-resistant leafminers.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, & Hybrids of these) and Watermelons	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.
	Aphids, Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	1/2-1 1/2 lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, every 7 days. Do not make more than 5 appli- cations per season. Do not apply within 3 days of har- vest or illegal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leafminers.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Mustard	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.
	Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbage- worms	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest. NOTE: Diazinon will not control organophosphate- resistant leafminers.
Onions (Bulb and Green)	Onion Maggots	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and mix into the top 3-4 inches of soil. (See Soil Incorporation Note.) NOTE: Diazinon will not control organophosphate- resistant onion maggots.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Onions (green and bulb) (Cont'd)	Onion Thrips	1 lb. per acre or 3/8 oz. per 1,000 sq. ft.	Apply as thrips appear. Repeat after 7 days, if nec- essary. Do not make more than 3 applications per sea- son. Do not apply within 14 days of harvest or illegal resi- dues may occur.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.
Parsley	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Parsnips	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 14 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Peas (succulent only)	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Aphids, Dipterous Leafminers	3/4-1 lb. per acre or 3/10-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. To avoid illegal residues, allow a minimum of 7 days between the last application and harvest. Vines and hay may be fed to dairy and beef cattle and sheep. To avoid illegal residues, wait 4 days following treatment if forage is to be cut for hay. NOTE: Diazinon will not control organophosphate-resistant leafminers.

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Peppers	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers	1/2 lb. per acre or 1/5 oz. per 1,000 sq. ft.	Apply as insects appear. Repeat application after 7 days if necessary. Do not make more than 5 applications per season. Do not apply within 5 days of harvest, or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Potatoes	Cutworms (Surface & Subter- ranean)	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Southern Potato Wireworms (South- eastern U.S.)	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	For potatoes grown on mineral soils in the Southeast, apply prior to planting and immediately incorporate into the top 3-6 inches of soil depending on location of wireworms.

CROP	P.LST	RATE	TIMING/SPECIAL DIRECTIONS
Potatoes (Cont'd)	Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers	1/2-3/4 lb. per acre or 2/10-3/10 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, up to 5 times with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leafminers.
	Banded Cucumber Beetles, Leafhoppers, Southern Armyworms	3/4-1 lb. per acre or 3/10-4/10 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application as nec- essary up to 5 times with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.

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

Radishes	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate in the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Radishes (Cont'd)	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application as necessary up to ³ 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Spinach	Aphids, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 14 days of harvest. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Squash, Summer	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Squash, Summer	Aphids, Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	1/2-1 1/2 lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, every 7 days. Do not make more than 5 appli- cations per season. Do not apply within 7 days of har- vest or illegal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leafminers.
Squash, Winter	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.
	Aphids, Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Mites	1/2-1 1/2 lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, every 7 days. Do not make more than 5 appli- cations per season. Do not apply within 3 days of har- vest or illegal residues may occur. NOTE: Diazinon will not control organophosphate- resistant leafminers.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Sweet Corn	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Seed Corn Maggots	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Corn Earworms	2-2 1/2 lbs. per acre or 3/4-1 oz. per 1,000 sq. ft.	Apply when silks first appear. Repeat application every 7 days up to a maximum of 5 applications, if necessary.
	Corn Leaf Aphids	1-2 lbs. per acre or 2/5-3/4 oz. per 1,000 sq. ft.	Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat in 7 days if necessary. Do not make more than 5 applications per season.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Sweet Corn (Cont'd)	Grass- hoppers, Spider Mites, Flea beetles	1 lb. per acre or 2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat if necessary, but do not make more than 5 appli- cations per season.
	Sap Beetles	2-2 1/2 lbs. per acre or 3/4-1 oz. per 1,000 sq. ft.	Consult local agricultural authorities for proper tim- ing of application. Repeat application in 7 days, if necessary. Do not make more than 5 applications per season.

NOTE: 1) To protect bees, do not apply foliarly to corn during the pol-
len shed period. 2) Allow a minimum of 7 days between the last applica-
tion and grazing or cutting for forage. 3) Corn may be picked ~~on the 7 days~~
~~same day as~~ the last application.
after

Sweet Potatoes	Wireworms, Flea Beetles	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.
Ciss Chard	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Swiss Chard (Cont'd)	Aphids, Corn Earworms, Imported Cabbage- worms, Diamondback Moths, Harlequin Cabbagebugs	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 14 days of harvest or illegal resi- dues may occur.
Tomatoes	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.
	Aphids, Dipterous Leafminers	1/2 lb. per acre or 1/5 oz. per 1,000 sq. ft.	Apply as insects appear. Repeat application after 7 days, if necessary. Do not make more than 5 applica- tions per season.
	Banded Cucumber Beetles, Fall Army- worms, Southern Armyworms, Beet Army- worms	3/4-1 lb. per acre or 3/10-2/5 oz. per 1,000 sq. ft.	Do not apply within one day of harvest or illegal resi- dues may occur.
	Vinegar Flies (<i>Drosophila</i> spp.)	1/2-1 1/2 lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft.	NOTE: Diazinon will not control organophosphate- resistant leafminers.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Turnips and Turnip Tops	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1- 2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4- 8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as nec- essary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 14 days of harvest or illegal resi- dues may occur. NOTE: Diazinon will not control organophosphate- resistant leafminers.

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Mushroom Houses

Mushroom flies (Phoridae and Sciariids):

4-5

Mix 8 lbs. of D·z·n diazinon 50W in 50 gallons of water and spray on outside and inside walls, and ventilators of mushroom houses after compost has been pasteurized by heating. Note: ~~not spray the compost in the beds or trays spanning, because illegal residues may result.~~ Do not apply more than 3 applications to mushroom houses per crop.

Floors, and side boards

Also spray over the plastic covering the beds after spawning.

To treat wooden sides of beds, post, doors, and door frames after pasteurizing, mix 1/2 lb. in 8 gallons of water and apply with a brush. Note: ~~Do not apply this treatment after spawning. Do not treat compost.~~

Seed Treatment - Planter Box Treatment

In the planter box, mix with seed as a dry mixture. Stir slightly using a mixing stick. DO NOT MIX WITH BARE HANDS. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seed beyond planting time. Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of excess treated seed by burial away from bodies of water.

NOTE: 1) If seed has not been treated with a fungicide, use an EPA-registered fungicide in combination with D·z·n diazinon 50W at rates indicated on the fungicide package. Failure to use a fungicide may result in injury to the seed. 2) If the seed treatment increases the friction between seeds sufficiently to reduce the rate of delivery through the planter, 1/2 oz. of graphite per bushel seed should be added as a drill lubricant. Adjust the planter to give the required rate of seed delivery with the treated seed. 4) Treated seed must not be used for or mixed with food or animal feed or processed for oil.

Corn

Seedcorn beetle: Mix 3 ozs. per bushel of seed.

Corn, Succulent Peas and Succulent Beans:

Seedcorn maggot: Mix 1/2 oz. per bushel of seed.

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Field Crops

Apply soil and foliar applications of D·z·n diazinon 50W in sufficient water to ensure thorough coverage for foliar applications. Observe stated time intervals between last application and harvest, as well as intervals between applications and total number of applications that can be made per season:

Preharvest Intervals (PHI*) For Foliar Applications

<u>Crop</u>	<u>*PHI</u>
Hops	14
Sugar Beets	14

*PHI = Preharvest Interval or the number of days between the last application and harvest.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Hops	Aphids, Spider Mites	2 lbs. per acre	Apply as pests occur. Repeat applications, if necessary in 14 days. Do not make more than 4 applications or apply within 14 days of harvest or illegal residues may occur.
Sugar Beets	Wireworms	6-8 lbs. per acre	Broadcast just before planting and immediately incorporate into the top 4-6 inches of soil. Do not apply more than 8 lbs. of this product to the soil, per season.
	Beef Leaf- hoppers, Dipterous Leafminers, Aphids	3/4-1 lb. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest. NOTE: Diazinon will not control organophosphate-resistant leafminers.
	Grasshoppers	1 lb. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest.

NOTE: Tops may be fed to beef and dairy animals.

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50w Booklet

Grassland Insects

Ditch Banks, Roadsides, Wasteland, Noncrop Areas, Barrier Strips

Grasshoppers: Apply 3/4-1 lb. per acre in sufficient water or oil to obtain thorough coverage when insects first appear, preferably in the nymphal stage.

Do not graze or use treated grass for food or feed.

Livestock Insects

Sheep "Ticks" (Keds), Lice

High gallonage, high pressure spray: Mix 1/2 lb. in 100 gals. of water, and apply at the rate of 1 gal. per animal.

Low gallonage, low pressure spray: Mix 1 lb. in 100 gals. of water. Apply at the rate of 1 qt. per animal.

Sprinkler Can: Mix 1 oz. in 6 gals. of water. Crowd sheep into a small pen and sprinkle 1 qt. of this mixture over the head, neck, top, and side of each sheep. Stir or agitate mixture frequently.

Note: Do not slaughter sheep within 14 days after treatment.

Repeat applications as necessary.

Fly Control in Livestock Structures

Fly control in barns and animal sleeping quarters (except dairy barns, milk rooms, and poultry houses).

Residual Sprays: Remove animals from buildings or corrals prior to treatment and keep animals out for at least four hours. Mix 2 lbs. of D·z·n diazinon 50W in 25 gals. of water and apply as an overall spray to ceilings and walls of livestock sheds, calf barns, hog barns, loafing sheds, and other farm buildings except poultry houses, dairy barns, and milk rooms. Areas where flies congregate, such as garbage dumps and corrals, should be sprayed thoroughly. Longer residual control may be obtained by increasing the rate to 4 lbs. in 25 gals. of water. Applications should be made to point of runoff. One gal. of the above spray should cover from 350-750 sq. ft. of area, depending on the surface treated. Repeat applications as fly populations warrant.

Bait Sprays: Mix the appropriate amount of D·z·n diazinon 50W with 1 lb. of sugar (or 2 cups of syrup or molasses) for the desired application.

For knapsack or similar type sprayer, mix 1/2 lb. with the sugar in 2 1/2 gals. of water and spot treat areas frequented by flies including cracks, crevices, doorways, around windows, or other areas where flies congregate. Repeat applications as fly populations warrant.

For sprinkling can application, mix 2 ozs. with the sugar in 5 gals. of water and sprinkle lightly over the floor in areas frequented by flies. Applications every day or two will generally be required.

Do not contaminate milk, feed, drinking water, or apply to animals or poultry. Do not use in edible product areas of food processing plants or other areas where food is commercially prepared or processed. Do not use in dwellings.

Insect Control on Ornamentals

To control certain insects on ~~ornamentals, such as~~ Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas fir, Elm, Gladioli, Hawthorn, Holly, Juniper, Lilac, Locust, Maple, Oak, Pine, Ornamental Plum, Poplar, Rhododendron, Rose, Spruce, and Willow, apply the recommended rates indicated below. Try to spray underside of leaves and penetrate dense foliage.

Insects	Amount of D·z·n diazinon 50W to Use	
	Rate per 3 gals. water	Rate per 100 gals. water
Aphids, Bagworms, Carnation bud mites, Carnation shoot mites, Clover mites, Cyclamen mites, Dipterous leafminers, European pine shoot moths, European red mites, Flea beetles, Holly bud moths, Leafhoppers, Obscure root weevils, Omnivorous leaf tiers, Privet mites, Scale crawlers (Cottoncushion, Lecanium, Pine needle, San Jose, Soft), Thrips, Two-spotted mites, Webworms, Whiteflies	1/2 oz.	1 lb.
Apple-and-chorn skeletonizers, Cotoneaster webworms, Fall webworms, Hemlock chermes, Oak loopers, Obliquebanded leafrollers, Pear slugs, Tent caterpillars	1 1/2 ozs.	3 lbs.

Precaution: Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, and Gardenia, since injury to the plants may occur.

Mimosa Webworms: Mix 1/2 oz. in 3 gals. of water (or 1 lb. in 100 gals. of water) and apply as a thorough foliar spray when adults first appear. Make a second and third application at 4-5 week intervals.

Lawn Pest Control (Excluding Sod Farms and Golf Courses)

Precautions: Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Avoid overlapping sprays. If waterfowl, i.e., ducks or geese, can be expected to enter treated area after treatment (except spot treatments), water lawn with at least 0.25 inch water immediately after application, however, stop irrigation before puddling occurs.

To control pests listed below, apply recommended rates.

Pests	Rate/1,000 sq. ft.		Remarks
	D.z.n diazinon 50W	Water	
Lawn chinch bugs	2-3 oz.	3 gals.	Use higher rate for longer residual control and in turfgrass of dense growth, such as St. Augustine.
Ants, Armyworms, Bermudagrass mites, Clover mites, Springtails (Collembola), Crickets, Cutworms, Digger wasps, Earwigs, Frit flies, Lawn billbugs, Leafhoppers, Sod webworms (Lawn moths), Sowbugs (Pillbugs) Brown dog ticks, Chiggers, Fleas	3 oz.	3 gals.	Spot spray ant hills and wasp ground nest openings. For digger wasps, apply product at dusk when wasps are not active. For frit flies, mow grass and water well before treatment, but delay application until grass is dry. Do not apply to animals. For brown dog ticks, spray grass and under shrubbery.
Hyperodes Weevils	3 oz.	3 gals.	Treat problem areas in mid-April and again in mid-May.
Millipedes	3 oz.	3 gals.	
Rhodesgrass scales	3 oz.	3 gals.	Apply when crawlers first emerge.
White grubs (Japanese Beetle Larvae, European Chafer, Southern Chafer)	3 oz.	3 gals.	Apply anytime between late July and early October.

Nuisance Pests in Outside Areas

Ants, Boxelder Bugs, Brown Dog Ticks, Chiggers, Clover Mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (pillbugs), Spiders, Springtails (Collembola).

Mix 3 oz. in 3 gals. of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls, entranceways, walks, garbage cans, tree trunks, and into cracks and other places where insects can hide. To prevent entry into houses, spray a five-foot band of soil around the house next to the foundation and spray the foundation of the house to a height of 2-3 feet. Repeat application as necessary. Do not apply to animals. Do not apply to plants (except tree trunks) at this nuisance p .st rate.

Storage and Disposal

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

Pesticide: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If pesticide, spray mixture or rinsates cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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 skin. Do not breathe dust or spray mist. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Avoid contamination of food and feed. Keep out of reach of domestic animals. Do not use on humans or pets. Do not contaminate ornamental fish ponds. Do not permit children or pets to go onto sprayed grass until spray has completely dried. For foliar application to agricultural crops whose culture involves hand labor, there is a 24-hour reentry period (see Reentry Statement.) Be sure to read and follow "Work Safety Rules" appearing in this booklet.

Statement of Practical Treatment

If swallowed: Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching back of 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. Apply artificial respiration if indicated. Get medical attention.

If on skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water. Get medical attention.

If in eyes: Flush eyes with plenty of water. Call a physician if irritation develops or persists.

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 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. Because of the migratory habits of

Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. On lawns where irrigation is recommended in the directions or if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply a minimum of 1/4 inch of water immediately after applying this product. Stop irrigation before puddling occurs. 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 wash waters.

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.

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Agricultural Division
 CIBA-GEIGY Corporation
 Greensboro, North Carolina 27419

CGA 1L66L

June 2, 1982
 Revised Nov. 30, 1982
 (Include EPA comments of
11/22/82)
 Revised Jan. 02, 1985
 (EPA PR Notices 83-2 &
83-3)

Revised April 1986 - reduced rates, added precautions re: avian toxicity

Revised April 5, 1988 - added chemigation prohibition, deleted dust formulation instructions, deleted golf course/sod farm dfu, deleted golf course/sod farm precautions in Env. Hazards, added do not use on golf courses/sod farms statement to front panel.

Revised Sept. 21, 1988 Deleted non-supported crops until May 1, 1987, EPA Data Call-In; added spill statement; added Chinese broccoli, bok choy, and Chinese mustard.

Revised Nov. 11, 1988 Deleted mushroom houses, changed all references to Corn to "Sweet Corn," deleted corn from aerial application statements, deleted bermudagrass and rangeland per EPA comments.

Added "Do not use on commercially grown potatoes which will be hand-harvested.

Accepted - 11/23/88 with comments

Revised 6/7/89 - moved golf course/sod farm prohibition under product name, revised Hazards to Humans and Domestic Animals, revised precautionary statements, revised Env. Hazards section, added "Recommended for Agricultural or Commercial Use Only, revised Note to Physician, revised all directions for use to reflect Data Call-In Residue Program, added Chinese radish, revised reentry statements - 24 hrs. vegs., fruits, field crops.

Revised 9/15/89 - Additional minor revisions per EPA letter of 6/23/89 and Reg. Standard Changes.

Revised 11/21/89 per EPA letter of 11/6/89 deleted in-furrow treatment for root vegs.

Revised 12/21/89 - added cranberry chemigation

Revised 1/11/90 - referred to chemig. directions in dfu's for cranberries and revised Env. Hazards per EPA letter of 12/4/89.

Revised 10/8/90 correct min. gallons for grapes and strawberries and other corrections.

Revised 11/20/90 per EPA letter of 10/9/90.

Revised 1/9/92 per EPA letter of 8/30/91 - change in signal word to Caution, change in precautionary text.

Revised 4/21/92 - deleted celery and modified stone fruit, pome fruit, almond, leafy vegs, brassica dfus because of over tolerance residues.

[GANNONC.LABELD] DZN50WBF1 - 4/24/92