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1015
100-460

JUL - 5 1989

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

Subject: Follow-up to Agency letter dated June 23, 1989
Re: Unexplained variations in application rates and
soil incorporation depths for vegetable crops
D-z-n Diazinon 50W
EPA Reg. No. 100-460
Your submission dated June 8, 1989

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Dear Ms. Bussey:

This is an additional follow-up to the Agency letter of June 23, 1989, which accepted a number of amendments to the subject product's labeling. Upon further close comparison of your 50W and AG500 labels (both past and current) the Agency notes that there are number of unexplained variations in the directions for control of certain soil insects for a number of the vegetable crops regarding the recommended application rate and depth of soil incorporation (earlier labels had included only one set of directions for each soil pest regardless of the vegetable crop). Specifically:

- 1) The directions for "Beets, Red (Table)", "Carrots", "Raddish", and "Turnips and Turnip Tops" apparently contain several errors in the specific directions for use, if the application rates and recommended depth of soil incorporation are compared to those indicated for other crops. Unlike all other crop directions, these crops group the pests cutworms, garden symphylans, and wireworms together. All these crops except "raddish" also include mole crickets in this same pest grouping. "Beets" and "carrots" add root maggots to this same grouping. For each of these crops, the directions for control of pests in these groupings indicate an application rate of 8 lbs./acre and soil incorporation to a depth of 4-6 inches. Generally, other crops list only cutworms and garden symphylans together, with an application rate of 4-8 lbs./acre and incorporation to 4-6 inches, wireworms are listed separately with a rate of 6-8 lbs./acre and incorporation to 4-8 inches, root maggots are listed separately with a rate of 4-6 lbs./acre and incorporation to 3-4 inches. Mole crickets appear separately with a rate of 2 lbs./acre and incorporation to 1-2 inches.

2) Since earlier versions of this label had indicated only a single set of directions for control of a specific pest, regardless of the vegetable crop involved, the Agency does not understand the reason for the current variations (in addition to those identified in item 1, above) in the application rate and/or soil incorporation depth for control of certain pests that now appears in the specific directions for use for various crops. For wireworms, the usual incorporation depth is 4-8 inches, except for sweet corn which specifies 4-6 inches. Was this change intentional? For cutworms, earlier labels had indicated an application rate of 4-6 lbs./acre (as is currently shown for many crops) and soil incorporation depths of 2-3 inches for surface cutworms and 3-6 inches for subterranean cutworms. While the Agency can understand that you may have grouped these together (i.e., 2-6 inches), there are still some unexplained variations (other than those identified in item 1, above):

a) Lettuce and mustard indicate a rate of 6-8 lbs./acre and a soil incorporation depth of 4-8 inches for garden symphylans (rather than the usual 2-4 qts./acre and depth of 2-6 inches). This is probably an artifact of grouping garden symphylans with wireworms, rather than with cutworms, as found for all other crop directions. Was this change in the grouping, rate, and depth of incorporation intentional?

b) The depth of soil incorporation varies from the (presumably) continued value of 2-6 inches for the following:

4-6 inches is indicated for beets, broccoli, brussels sprouts, cabbage, carrots, cauliflower, kale, mustard, potatoes, radish, and turnips;

3-4 inches is indicated for sweet corn.

Were these variations intentional?

3) The column heading "Rate/Acre" appears on most pages of the submitted labeling, but this is not always the case (see the booklet label, all pages, and the container label, pages 24 and 25). Although "per acre" often occurs in the "Remarks" section text, it is not always specified. Assuming it is appropriate, consistent use of the heading "Rate/Acre" would be clearer.

4) Page 17 of the draft label includes an additional horizontal line in the "Crop" column which separates the crop name "Peaches" from some of the claimed pests ("Leafhoppers", "White Peach Scale"). This line should not appear on the finished labeling.

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Please address the above comments, in addition to those in the Agency's letters dated June 23 and 27, 1989, when preparing the revised finished labeling.

Sincerely yours,

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

JUN 27 1989

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

Subject: Follow-up to Agency letter dated June 23, 1989
Re: Error in PHI and directions for use on tomatoes
D-z-n Diazinon 50W
EPA Reg. No. 100-460
Your submission dated June 8, 1989

Dear Ms. Bussey:

This is a follow-up to the Agency letter dated June 23, 1989, which accepted a number of amendments to the subject product's labeling. There is an error in the preharvest interval (PHI) table (page 23) for the crop tomatoes. The correct PHI is 1 day, not 7 days. The correct PHI appears in the specific directions for use for this crop. However, there is a separate item in those specific directions which should be corrected when preparing the finished labeling. The "Remarks" section which appears as a separate block item associated with the pests "Aphids, Dipterous Leafminers" is also appropriate for the next two blocks of pests, "Banded Cucumber Beetles" and caterpillars, and "Vinegar Flies (Drosophila spp.) [Note - the scientific name should be underlined or italicized] which currently have no "Remarks" text. This problem may be resolved in either of two ways. One is to move the bottom line under that "Remarks" text block down to the bottom of the Drosophila directions (as had appeared on an earlier version of the label), which would indicate that the "Remarks" pertain to all of the pest listing blocks included. Alternatively, you could repeat that "Remarks" text separately for each of the three blocks of pest claims.

NOTE: The Agency's June 23, 1989 acceptance of the subject product label does not relieve you of the responsibility to submit revised labeling as required by the December 1988 Diazinon Registration Standard within the timeframe specified in that document.

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (2204C)

501 11
JUN 23 1989

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

Subject: Amendments - Revisions per Agency acceptance letter
dated March 13, 1989 and follow-up dated April 27, 1989;
Reformat label to crop alphabetical listing;
Re-Add crops - Chinese broccoli, cucumbers, melons,
summer squash, winter squash, watermelons;
Delete crops - red chicory, Chinese radish, ginseng;
Delete pests - grape Phylloxera/grapes; scales/pineapples;
root maggots, cutworms, wireworms, and mole crickets/Chinese
cabbage, Chinese broccoli, Chinese mustard; pinworms/tomato;
wireworms, symphylans, aphids, & dipterous leafminer/lettuce;
Add pests - wireworms, symphylans, aphids, & leafminers/lettuce;
Re-add pest claims - carrot rust flies/carrots; corn earworms,
imported cabbageworms, diamondback moths, aphids, and
harlequin cabbage bugs/Swiss Chard
D-z-n Diazinon 50W
EPA Reg. No. 10C-460
Your submission dated June 8, 1989

Dear Ms. Bussey:

The amendments referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, are acceptable. Please incorporate the following revisions when preparing the actual printed finished labeling:

Container label:

- 1) On page 8, the correct PHI for apples is 14 days, not 45 days.
The correct PHI is indicated in the specific directions for use text.
- 2) In the specific directions for use on apples, "resistant apple maggot" was revised to "organophosphate-resistant apple maggot" in the booklet label, but not in the container label.

Booklet label:

- 1) On page 6, the correct PHI for apples is 14 days, not 45 days. " correct PHI is indicated in the specific directions for use text.
- 2) In the specific directions for use for a number of vegetable crops (broccoli, Brussels sprouts, (cabbage - see item 4 below), cauliflower, collards, endive, kale, mustard, peppers, radish, tomatoes, turnips, and turnip tops), revise the mole cricket directions to read as follows:

"Apply to plant beds or fields 1-2 days before planting or transplanting when these insects are present. Incorporate into the top 1-2 inches of soil."
- 3) To be consistent, you may wish to have all of your soil incorporation directions read the same, i.e., "Incorporate into the top *-* inches of soil.". A variety of sentences are used on the current submission to express this same instruction.
- 4) In the specific directions for use on cabbage, you have apparently inadvertently omitted directions for foliar application to control aphids, diamondback moths, imported cabbageworms, and dipterous leafminers, as well as soil incorporation directions for control of mole crickets and wireworms. It is assumed that foliar application directions were intended, based upon the inclusion of cabbage in the foliar application PHI table (on page 23).
- 5) In the "Note" of the specific directions for use on Brussels sprouts, correct "... my result in ..." to "... may result in ...".
- 6) In the specific directions for use on Chinese mustard, add the paragraph about the PHI that appears in similar crop directions:

"Do not apply within 10 days of harvest or illegal residues may occur."
- 7) In the specific directions for use on cucumber for aphids, leafminers, etc., correct the PHI to 7 days, rather than 3 days.
- 8) Although not indicated in your cover letter, it is noted that you have re-added directions for use on lettuce to control wireworms, symphylans, aphids, and dipterous leafminers. The Agency assumes that omission of these claims from the labeling submitted March 3, 1989, was an oversight.
- 9) In the directions for use in mushroom houses, revise the "Note" at the end of the first paragraph to read "Do not spray the compost in the beds or after spawning.", and the "Note" at the end of the second paragraph to read "Do not apply this treatment after spawning. Do not treat compost.".

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A stamped copy of the label is enclosed for your records. Please submit five (5) copies of the revised finished labeling (container and booklet) when it becomes available.

Sincerely yours,

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

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Container Label for Use With Booklet

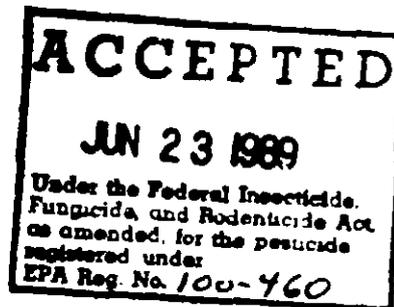
D·z·n® diazinon 50W

Insecticide

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

Recommended for Agricultural or Commercial Use Only

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



Active Ingredient:

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

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

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

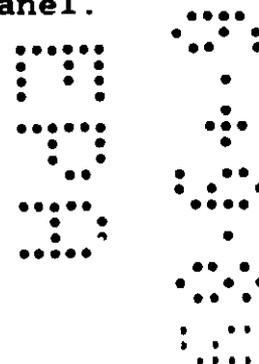
Precaución Al Usuario: Si usted no lee inglés, no use este producto hasta que le etiqueta haya sido explicado ampliamente.

See additional precautionary statements on left panel.

See directions for use on panel at right.

EPA Reg. No. 100-460
EPA Est. 100-AL-1

5 Pounds or 4 Pounds
Net Weight Net Weight



CIBA-GEIGY

(DRAFT - LABELS-D.4 - DZN50W/5/F4)

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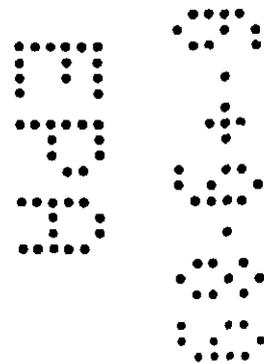
DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

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.



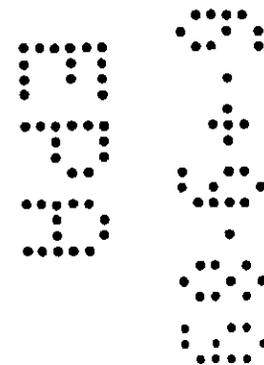
General Information

D·z·n diazinon 50W 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. Applications 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.

Complete directions for use of D·z·n diazinon 50W for insect and mite control are contained in a booklet inserted in the bottom flap of this bag.

Read carefully and follow all label directions when using this product.

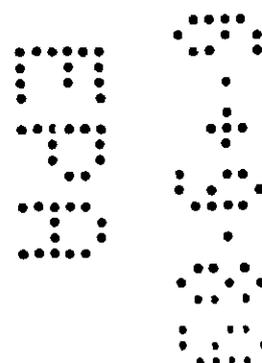


For additional uses, see booklet in bottom flap of bag.

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

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

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



DIRECTIONS FOR USE

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

Do not apply this product in such a manner as to directly or through drift expose workers or other persons except those knowingly involved in the application. The area being treated must be vacated by unprotected persons.

Do not apply this product through any type of irrigation system.

Diazinon 50W may be applied aerially to head lettuce, tomatoes, apples, pears, apricots, cherries, peaches, nectarines, plums, prunes, almonds, and walnuts only.

Do not apply to commercially-grown potatoes which will be hand-harvested.

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

Reentry Statement

Twenty-four hours must elapse between the time of application to vegetables, fruits, and field crops and the time a worker enters the treated area without protective clothing to engage in any activity which requires substantial contact with treated foliage. For lawns, ornamentals, or non-crop areas, do not enter treated areas without protective clothing until sprays have dried. Protective clothing includes at least a hat or other suitable head covering, a long-sleeved shirt and long-legged trousers or a coverall type garment (all of a closely woven fabric covering the body, including arms and legs), socks and shoes.

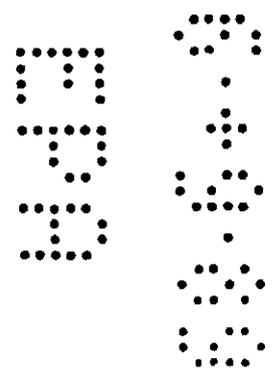
Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. (See Note below.)

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 protective clothing for

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24 hours after application, and appropriate actions to take in case of accidental exposure, as described under 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 protective clothing 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 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 organic phosphate pesticides are applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.



Fruit and Nut Crops

See label booklet at bottom of bag for specific directions for use and pests controlled. The specific amount of product to be used appears under the separate directions for use for each crop.

D·z·n® diazinon 50W may be applied using ground or aerial application equipment as follows:

CROP	AIR	MINIMUM GALLONS/ ACRE	GROUND	MINIMUM GALLONS/ ACRE	
				DILUTE	CONCENTRATE
Almonds*	Yes	20	Yes	100	20
Apples	Yes	20	Yes	100	20
Apricots	Yes	20	Yes	100	20
Blackberries**	No	-	Yes	10	
Blueberries	No	-	Yes	10	
Boysenberries**	No	-	Yes	10	
Cherries	Yes	20	Yes	100	20
Cranberries	No	-	Yes	400	
Dewberries**	No	-	Yes	10	
Grapes	No	-	Yes	20	
Loganberries**	No	-	Yes	10	
Nectarines	Yes	20	Yes	100	20
Peaches	Yes	20	Yes	100	20
Pears	Yes	20	Yes	100	20
Pineapple	No	-	Yes	200	
Plums	Yes	20	Yes	100	20
Prunes	Yes	20	Yes	100	20
Raspberries**	No	-	Yes	10	
Strawberries	No	-	Yes	10	
Walnuts*	Yes	20	Yes	100	20

*CA only

**CA, OR, or WA only

The rate of D·z·n diazinon 50W for concentrate ground and aerial sprays is based on a dilute full cover with conventional ground equipment applied at 300-600 gallons of water per acre. If directions call for 1 lb. of D·z·n diazinon 50W per 100 gallons of water this amounts to 3-6 lbs. per acre when applied at dilute ground spray volumes.

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:

CROP	*PHI
Almonds	45
Apples	45
Apricots	10
Blackberries	7
Blueberries	7
Boysenberries	7
Cherries	10
Cranberries	7
Dewberries	7
Grapes	18, 7*
Loganberries	7
Nectarines	10
Peaches	20
Pears	14
Pineapple	7
Plums, Prunes	10
Raspberries	7
Strawberries	5
Walnuts	45

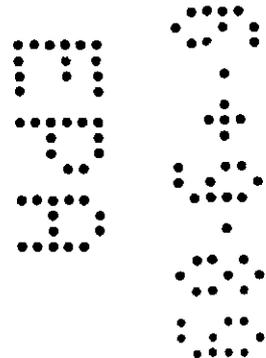
*PHI = Pre Harvest Interval or the number of days between the last application and harvest; may vary based on use pattern selected. See specific directions for use of grapes.

CROP	PEST	RATE	REMARKS
Apples (con't.)	Brown Mite Eggs Twig Borers Apple Aphid Eggs Black Cherry Aphid Eggs Mealy Plum Aphid Eggs Mealybugs		
	Leafhoppers	1 lb. per 100 gallons	Do not apply more than 6 lbs. of diazinon per acre per application. Apply, beginning at petal fall, as infestations develop. Repeat applications in 14 days if necessary. Do not make more than 3 applications per season. Do not apply within 14 days of harvest or illegal residues may occur.
	Eyespotted Bud Moth Fruit Tree Leafroller Mealybug	1 lb. per 100 gallons	Make 3 cover sprays, beginning at pink stage. Do not repeat applications closer than 14 days. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 14 days of harvest or illegal residues may occur.
	Codling Moth Rosy Apple Aphid Green Apple Aphid Wooly Apple Aphid Mites	1 lb. per 100 gallons	Make 3 cover sprays beginning when infestations occur. Do not repeat applications closer than 14 days. Do not apply within 14 days of harvest or illegal residues may occur. 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.

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CROP	PEST	RATE	REMARKS
Apples (con't.)	Apple Maggot	1 lb. per 100 gallons	Make 3 cover sprays when flies are active and laying eggs. Do not repeat applications closer than 14 days. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 14 days of harvest or illegal residues may occur. NOTE: Diazinon may not control resistant apple maggot.
	San Jose Scale Crawlers Forbes Scale Crawlers	1 lb. per 100 gallons	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later. Do not apply more than 6 lbs. of diazinon per acre per application.



1968 17

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 1-800-334-9481 day or night.

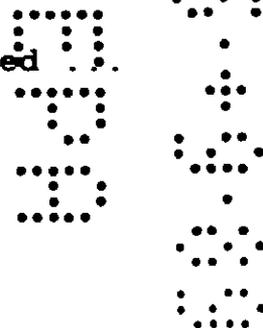
Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

May be fatal if swallowed. May be 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. Avoid contamination of food and feed. Keep out of reach of domestic animals. Do not use on humans or pets. Do not permit children or pets to go onto sprayed grass until spray has completely dried. Do not contaminate ornamental fish ponds.

Continued . . .



20677

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.

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

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 toxic to birds, fish and wildlife, including waterfowl. Birds feeding on treated areas may be killed. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply to water that will be used for recreational purposes and human and livestock consumption. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab and other aquatic life are important resources.

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

Physical or Chemical Hazards

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

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

©1989 CIBA-GEIGY Corporation

Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA 1L118VF (5 Pounds)
CGA 1L117E (4 Pounds)
(LABELS-D.4 - DZN50W/5/F4)

Revised June 2, 1982

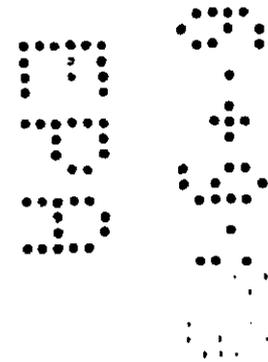
Revised Nov. 30, 1982
(Including EPA comments
of 11/22/82)

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.

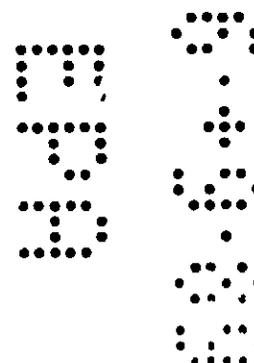
Revised November 22, 1988 -
Deleted non-supported crops
per EPA's May 1, 1988
Data Call-In, added spill
statement



Accepted 11/23/88 with
 comments
 Revised 2/28/89 per EPA
 comments 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,
 revised note to physician,
 revised list of labeled crops,
 did not include apricots,
 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.

(LABELS-D.4 - DZN50W/5/F4)



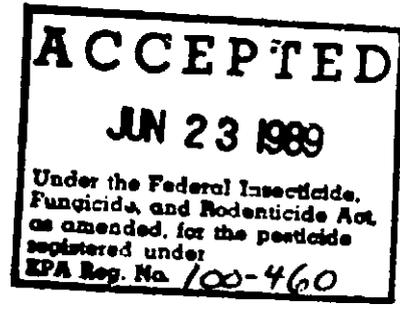
230F 17

Booklet for 4 and 5 Lbs.

D·z·n® diazinon 50W

Insecticide

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



Recommended for Agricultural or Commercial Use Only

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

Active Ingredient:

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

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

KEEP OUT OF REACH OF CHILDREN.

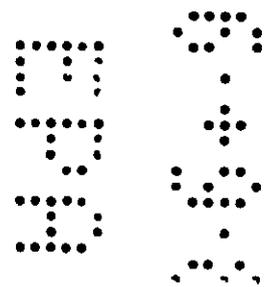
WARNING

See additional precautionary statements
at end of booklet.

See directions for use inside booklet.

AVISO

Precaución Al Usuario: Si usted
no lee inglés, no use este
producto hasta que la etiqueta
haya sido explicado ampliamente.



EPA Reg. No. 100-460

CIBA-GEIGY

24. 11

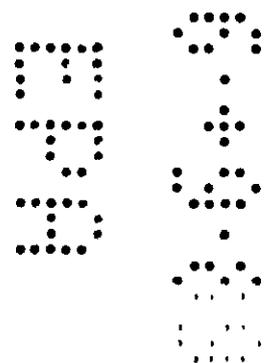
DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

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.



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.

In the directions for use which follow, best control is obtained when application is made at first sign of pests. Applications 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.

D·z·n diazinon 50W may be applied aerially to head lettuce, tomatoes, apples, pears, peaches, nectarines, plums, prunes, cherries, apricots, almonds, and walnuts only.

DIRECTIONS FOR USE

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

Do not apply this product in such a manner as to directly or through drift expose workers or other persons except those knowingly involved in the application. The area being treated must be vacated by unprotected persons.

Do not apply this product through any type of irrigation system.

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

Reentry Statement

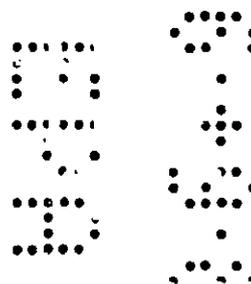
Twenty-four hours must elapse between the time of application to vegetables, fruits, nuts and field crops and the time a worker enters the treated area without protective clothing. Do not engage in any activity which requires substantial contact with treated foliage. For lawns, ornamentals, or non-crop areas, do not enter treated areas without protective clothing until sprays have dried. Protective clothing includes at least a hat or other suitable head covering, a long-sleeved shirt, and long-legged trousers or a coverall type garment (all of a closely woven fabric covering the body, including arms and legs), socks and shoes.

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.)

BEST AVAILABLE COPY

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 protective clothing for 24 hours after application, and appropriate actions to take in case of accidental exposure, as described under 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 Diazinon diazinon 50W on (date of application). Do not enter without appropriate protective clothing 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 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 organic phosphate pesticides are applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.



2751 11

Fruit and Nut Crops

D·z·n® diazinon 50W may be applied using ground or aerial application equipment as follows in the table below. The specific amount of product to be used appears under the separate directions for use for each crop.

CROP	AIR	MINIMUM Gallons/ Acre	GROUND	MINIMUM Gallons/Acre	
				DILUTE	CONCENTRATE
Almonds*	Yes	20	Yes	100	20
Apples	Yes	20	Yes	100	20
Apricots	Yes	20	Yes	100	20
Blackberries**	No	-	Yes	10	
Blueberries**	No	-	Yes	10	
Boysenberries	No	-	Yes	10	
Cherries	Yes	20	Yes	100	20
Cranberries	No	-	Yes	400	
Dewberries**	No	-	Yes	10	
Grapes	No	-	Yes	20	
Loganberries**	No	-	Yes	10	
Nectarines	Yes	20	Yes	100	20
Peaches	Yes	20	Yes	100	20
Pears	Yes	20	Yes	100	20
Pineapple	No	-	Yes	200	
Plums	Yes	20	Yes	100	20
Prunes	Yes	20	Yes	100	20
Raspberries**	No	-	Yes	10	
Strawberries	No	-	Yes	10	
Walnuts*	Yes	20	Yes	100	20

*CA only

**CA, OR, or WA only

28517

The rate of D·z·n diazinon 50W for concentrate ground and aerial sprays is based on a dilute full cover spray with conventional ground equipment applied at a rate of 300-600 gallons of water per acre. If directions call for 1 lb. of D·z·n diazinon 50W per 100 gallons of water this amounts to 3-6 lbs. per acre when applied at dilute ground spray volumes.

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:

CROP	*PHI
Almonds	45
Apples	45
Apricots	10
Blackberries	7
Blueberries	7
Boysenberries	7
Cherries	10
Cranberries	7
Dewberries	7
Grapes	18/7*
Loganberries	7
Nectarines	10
Peaches	20
Pears	14
Pineapple	7
Plums, Prunes	10
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 for grapes.

2-10-11

CROP	PEST	RATE, ACRE	REMARKS
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 A- phid 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 gallons of water	Do not apply more than 6 lbs. of diazinon or 9 gallons of oil per acre per application. Apply as a dormant spray.
	Mites, Twig Borers	1-1 1/2 lbs. in 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 lbs. of diazinon per acre per application or make more than 3 applications per season. Do not apply within 45 days of harvest or illegal residues may occur. Almond hulls may be fed to livestock.
Apples	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs	1 lb. + 2 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gallons of water	Do not apply more than 6 lbs. of diazinon or 9 gallons of oil per acre. Apply as a dormant or delayed dormant spray.

205 11

CROP	PEST	RATE/ACRE	REMARKS
Apples (con't.)	Brown Mite Eggs, Twig Bor- ers Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs		
	Leafhoppers	1 lb. in 100 gallons of water	Do not apply more than 6 lbs. of diazinon per acre per applica- tion. Apply, beginning at petal fall, as infestations develop. Repeat applications in 14 days if necessary. Do not make more than 3 applications per season. Do not apply within 14 days of harvest or illegal residues may occur.
	Eyespotted Bud Moths, Fruit Tree Leaf- rollers, Mealybugs	1 lb. in 100 gallons of water	Make 3 cover sprays, beginning at pink stage. Do not repeat applications closer than 14 days. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 14 days of harvest or illegal residues may occur.
	Codling Moths Rosy Apple Aphids Green Apple Aphids Wooly Apple Aphids Mites	1 lb. in 100 gallons of water	Make 3 cover sprays beginning when infestations occur. Do not repeat applications closer than 14 days. Do not apply within 14 days of harvest or illegal residues may occur. 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.

CROP	PEST	RATE/ACRE	REMARKS
Apples (con't.)	Apple Maggots	1 lb. in 100 gallons of water	<p>Make 3 cover sprays when flies are active and laying eggs. Do not repeat applications closer than 14 days. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 14 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon may not control organophosphate-resistant apple maggot.</p>
	San Jose Scale Crawlers, Forbes Scale Crawlers	1 lb. in 100 gallons of water	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later. Do not apply more than 6 lbs. of diazinon per acre per application.
Apricots	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Bor- ers, 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 gallons of water	Do not apply more than 6 lbs. of diazinon or 9 gallons of oil per acre per application. Apply as a dormant spray.

CROP	PEST	RATE/ACRE	REMARKS
Apricots (con't.)	Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 lb. in 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 lbs. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
	Olive Scale Crawlers	1/2 lb. + 1 1/2 gals. of light medium horti- cultural oil in 100 gallons of water	Apply when scale crawlers are present. Do not apply more than 6 lbs. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
	Apricot Mealybugs	1 lb. in 100 gallons of water	Apply as a cover spray from petal fall to June to a maximum of 6 lbs. per acre per applica- tion. Allow 14 days between applications and do not make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
Blue- berries	Cranberry Fruit- worms, Cherry Fruit- worms, Blueberry Maggots, Aphids, Thrips, Twospotted Mites	1 lb. in 100 gallons or 2 lbs. per acre in sufficient water for thorough coverage	Apply up to 200 gallons of spray per acre as pests occur or apply 2 lbs. per acre in sufficient water for thorough coverage. Repeat application after 7 days if necessary. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.

CROP	PEST	RATE/ACRE	REMARKS
Cane-berries CA, OR and WA only (Black-berries, Boysen-berries, Dew-berries, Logan-berries, Rasp-berries)	Leaf-hopper, Thrips, Aphids, Twospotted Spider Mites, Raspberry Fruit-worms	2 lbs. per acre or 1 lb. per 100 gallons of water (200 gals. per acre maximum)	Apply as insects occur. Repeat applications after 14 days if necessary. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Apply in a minimum of 100 gallons of spray per acre. For Raspberry Fruitworm make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Dryberry Mites	2-4 lbs. per acre in a minimum of 100 gallons 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 developed but still closed. Apply in a minimum of 100 gallons of water per acre.
	Raspberry Crown Borers (Raspberry Root Borer)	4 lbs. per acre in a minimum of 100 gallons of water	Apply in a minimum of 100 gallons of water per acre 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	1 1/4 lbs. + 3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gallons of water	Do not apply more than 6 lbs. of diazinon or 9 gallons of oil per acre per application. Apply as a dormant spray.

CROP	PEST	RATE/ACRE	REMARKS
Cherries (con't.)	Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs		
	Eyespotted Bud Moths, Fruit Tree Leaf- rollers	1 lb. in 100 gallons of water	Apply as infestations occur beginning at petal fall. Repeat application after 7 days if necessary. Do not apply more than 6 lbs. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
	Leafhoppers	1 lb. in 100 gallons of water	Make 3-4 applications beginning at petal fall and continuing through the growing season as infestations occur. Do not apply more than 6 lbs. of diazi- non per acre per application. Allow 7 days between applica- tions. Do not apply within 10 days of harvest or illegal residues may occur.
	Cherry Fruitflies	1/2-1 lb. in 100 gallons of water	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.

35-71

CROP	PEST	RATE/ACRE	REMARKS
Cherries (con't.)	Black Cherry Aphids	1 lb. in 100 gallons of water	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	San Jose Scale Crawlers	1 lb. in 100 gallons of water	Apply during the pre-pink stage or when crawlers first appear. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	Cherry Rust Mites	1/2-1 lb. in 100 gallons of water	Apply as a supplemental spray after harvest. Do not apply more than 6 lbs. of diazinon per acre per application.
Cran- berries	Black- headed Fireworms	4 lbs. in 400 gallons of water	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 400 gallons of water or 2 1/4 ozs. in 9 1/4 gallons of water per 1,000 square feet	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.

06-11

CROP	PEST	RATE/ACRE	REMARKS
Grapes	Pacific Spider Mites, Leaf-hoppers, Grape Berry Moths, Grape Leaf-folders, Omnivorous Leaf-rollers, Aphids, Mites	1-2 lbs. per acre or 1 lb. in 100 gallons of water (200 gallon maximum per acre)	Apply as pest occur as a thorough cover spray. Repeat application after 7 days if necessary. Do not make more than 5 applications per season. Do not apply within 18 days of harvest or illegal residues may occur.
	<u>Drosophila</u> spp.	6 ozs. per 100 gallons of water (300 gallon maximum per acre)	<u>Drosophila</u> applications may be made up to 7 days before harvest if a spreader-sticker is <u>not</u> used.
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 gallons of dormant oil or 1-1 1/2 gallons superior type oil in 100 gallons of water	Do not apply more than 6 lbs. of diazinon or 9 gallons of oil per acre per application. Apply as a dormant spray.

CROP	PEST	RATE/ACRE	REMARKS
Nectarines (con't.)	Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites Olive Scale Crawlers, San Jose Scale Crawlers Peach Twig Borers Parlatoria Scale	1 lb. in 100 gallons of water 1 lb. + 1 gallon light medium summer horticultural oil in 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 lbs. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. Apply at petal fall. Do not apply more than 6 lbs. of diazinon or 6 gallons of summer oil per acre per application.
	Olive Scale Crawlers	1/2 lb. + 1 1/2 gallons light medium horticultural oil in 100 gallons of water	Apply as insects occur. Do not apply more than 6 lbs. of diazi- non or 6 gallons of summer oil per acre or make more than 4 applications per season. Allow 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur.
	Oriental Fruit- moths	1 lb. in 100 gallons of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight. Do not apply more than 6 lbs. of diazinon per acre per season. Do not apply within 10 days of harvest or illegal residues may occur.
Peaches	San Jose Scale, Parlatoria Scale Black Scale, Brown Scale Apricot Scale, European Red Mite Eggs, Brown Mite Eggs	1 lb. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gallons of water	Do not apply more than 6 lbs. of diazinon or 9 gallons of oil per acre per application. Apply as a dormant spray.

CROP	PEST	RATE/ACRE	REMARKS
Peaches (con't.)	Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs		
	Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 lb. in 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 lbs. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 20 days of harvest or illegal residues may occur.
	Peach Twig Borers, Parlatoria Scale	1 lb. + 1 gallon light medium summer horticultural oil in 100 gallons of water	Apply at petal fall. Do not apply more than 6 lbs. of diazi- non or 6 gallons of summer oil per acre.
	Olive Scale Crawlers	1/2 lb. + 1 1/2 gallons light medium horticult- ural oil in 100 gallons of water	Apply as insects occur. Do not apply more than 6 lbs. of diazi- non or 6 gallons of summer oil per acre per application or make more than 4 applications per season. Allow 7 days between applications. Do not apply within 20 days of harvest or illegal residues may occur.
	Oriental Fruit Moths	1 lb. in 100 gallons of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight. Do not apply more than 6 lbs. of diazinon per acre season. Do not apply within 20 days of harvest or illegal residues may occur.

24/11

CROP	PEST	RATE/ACRE	REMARKS
Peaches (con't.)	Peach Twig Borers	1 lb. in 100 gallons of water	Apply as insects occur in May and June. Allow 7 days between applications. Do not apply more than 6 lbs. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 20 days of harvest or illegal residues may occur.
	Leafhoppers	1 lb. in 100 gallons of water	Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 20 days of harvest or illegal residues may occur.
	White Peach Scale	1 1/2-2 lbs. in 100 gallons of water	Apply post harvest timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation 2 applications (7 days apart) may be needed.
Pears	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Bor- ers, 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 gallons of water	Apply as a dormant spray. Do not apply more than 9 gallons of oil per applica'ion per acre or 6 lbs. of diazinon.

4 of 7

CROP	PEST	RATE/ACRE	REMARKS
Pears (con't.)	Pear Psylla	1/2-1 lb. in 100 gallons 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. Do not apply more than 6 lbs. of diazinon per application per acre. Do not apply within 14 days of harvest or illegal residues may occur.
	Tentiform Leaf- miners, Mealybugs	1 lb. in 100 gallons of water	Apply in three cover sprays, beginning in April. Do not apply more than 6 lbs. of diazinon per application per acre. Do not apply within 14 days of harvest or illegal residues may occur.
	Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Wooly Apple Aphids, Mites	1 lb. in 100 gallons of water	Make 3 cover sprays beginning as infestations occur. Do not repeat applications closer than 14 days. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 14 days of harvest or illegal residues may occur. NOTE: Mites will be suppressed if diazinon is used in the regular cover spray program.
	Apple Maggots	1 lb. in 100 gallons of water	Make 3 cover sprays when flies are active and laying eggs. Do not repeat applications closer than 14 days. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 14 days of harvest or illegal residues may occur. NOTE: Diazinon may not control organophosphate-resistant apple maggot.

41571

CROP	PEST	RATE/ACRE	REMARKS
Pears (con't.)	San Jose Scale Crawlers, Forbes Scale Crawlers	1 lb. in 100 gallons of water	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later. Do not apply more than 6 lbs. of diazinon per acre per application.
Pineapple	Pineapple Mealybugs	2 lbs. per acre	Apply in 200-500 gallons of water per acre. Repeat applica- tions as necessary every 28 days up to a maximum of 8 applica- tions. Do not apply within 7 days of harvest or illegal residues may occur. Pineapple forage and refuse may not be fed to livestock.
Plums	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Bor- ers, 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 gallons of water	Apply as a dormant spray. Do not apply more than 9 gallons of oil per application per acre or 6 lbs. of diazinon. For late April or May applications mix diazinon with 1 gal. of tight medium summer horticultural oil per 100 gallons of water.

4...25

CROP	PEST	RATE/ACRE	REMARKS
Plums (con't.)	Brown Mites, Clover Mites, European Red Mites	1 lb. in 100 gallons of water	Apply as needed every 7 days up to a maximum of 4 applications. Do not apply more than 6 lbs. of diazinon per acre per applica- tion. Do not apply within 10 days of harvest or illegal residues may occur.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 lb. in 100 gallons of water	
Prunes	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Bor- ers, 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 gallons of water	Apply as a dormant spray. Do not apply more than 9 gallons of oil per application per acre or 6 lbs. of diazinon. For late April or May applications mix diazinon with 1 gal. of tight medium summer horticultural oil per 100 gallons of water.
	Brown Mites, Clover Mites, European Red Mites	1 lb. in 100 gallons of water	Apply as needed every 7 days up to a maximum of 4 applications. Do not apply more than 6 lbs. of diazinon per acre per applica- tion. Do not apply within 10 days of harvest or illegal residues may occur.

4-1-57

CROP	PEST	RATE/ACRE	REMARKS
Prunes (con't.)	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 lb. in 100 gallons of water	
Straw- berries	Aphid Twospotted Spider Mites	1 lb. in 100 gallons of water per acre	Apply as pests occur. Repeat applications if necessary after 7 days. Do not make more than 3 applications per season. Do not apply within 5 days of harvest or illegal residues may occur.
	Cyclamen Mites	2 lbs. in 100 gallons of water per acre	Direct spray to the plant crowns. Plants should be suffi- ciently agitated to assure thor- ough coverage of the foliage. Repeat applications after 7 days if necessary. Do not apply within 5 days of harvest or illegal residues may occur. Applications may be made after harvest. Do not make more than 3 foliar applications per season.
	Mole Crickets	2 lbs. per acre	Broadcast when insects are present. Apply 1-2 days before transplanting and immediately incorporate in the top 1-2 inches of soil.
	Strawberry Leaf- rollers	3/4-1 lb. in 100 gallons of water	Apply 200 gallons of spray per acre when blossoms show color. Do not apply within 5 days of harvest or illegal residues may occur.
Walnuts (CA only)	Aphids, Mites	2 lbs. per acre	Apply as a foliar spray as needed. Repeat applications in 14 days if necessary. 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. Make ground applica- tions in a minimum of 100 gal- lons of water per acre.
	Codling Moths, Scale Crawlers, Walnut Cater- pillars	6 lbs. per acre	

45 17

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 aerially 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		MIN. OR	MIN. GALS. PER 1000 SQ. FT.	AIR APPL.	MIN. GPA
	APPLI- CATION	MIN. GPA				
Beans (lima, snap, and pole) (succulent only)	Yes	10		2	No	-
Beets, Red (Table)	Yes	10		2	No	-
Broccoli	Yes	10		2	No	-
Brussels Sprouts	Yes	10		2	No	-
Cabbage	Yes	10		2	No	-
Cantaloupes	Yes	5		1	No	-
Carrots	Yes	10		2	No	-
Casabas	Yes	5		1	No	-
Cauliflower	Yes	10		2	No	-
Celery	Yes	10		2	No	-
Chinese Broccoli	Yes	10		2	No	-
Chinese Cabbage	Yes	10		2	No	-
Chinese Mustard	Yes	10		2	No	-
Collards	Yes	10		2	No	-
Crenshaws	Yes	5		1	No	-
Cucumbers	Yes	5		1	No	-
Endive (escarole)	Yes	10		2	No	-
Honeydew Melons	Yes	5		1	No	-
Kale	Yes	10		2	No	-
Lettuce	Yes	10		2	Yes	5
Lima Beans (succulent only)	Yes	10		2	No	-
Muskmelons	Yes	5		1	No	-
Mustard	Yes	10		2	No	-
Onions (green and bulb)	Yes	10		2	No	-
Parsley	Yes	10		2	No	-
Parsnips	Yes	10		2	No	-
Peas (succulent only)	Yes	10		2	No	-
Peppers	Yes	10		2	No	-
Persian Melons	Yes	5		1	No	-
*Potatoes (Irish)	Yes	10		2	No	-
Radish	Yes	10		2	No	-
Red (Table) Beets	Yes	10		2	No	-
Spinach	Yes	10		2	No	-
Summer Squash	Yes	5		1	No	-
Sweet Corn	Yes	20		4	No	-
Sweet Potatoes	Yes	10		2	No	-
Swiss Chard	Yes	10		2	No	-
Tomatoes	Yes	10		2	Yes	5
Turnips	Yes	10		2	No	-
Watermelons	Yes	5		1	No	-
Winter Squash	Yes	5		1	No	-

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

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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, snap, pole)	7
Beets, Red Table	14
Broccoli	5
Brussels Sprouts	7
Cabbage	7
Cantaloupes	3
Carrots	10
Casabas	3
Cauliflower	5
Celery	10
Chinese Broccoli	10
Chinese Cabbage	10
Chinese Mustard	10
Collards	10
Crenshaws	3
Cucumbers	7
Endive	10
Honeydew Melons	3
Kale	10
Lettuce	10
Lima Beans	7
Muskmelons	3
Mustard	10
Onions (green and bulb)	10
Parsnips	10
Peas	0
Peppers	5
Persian Melons	3
Potatoes (Irish)	35
Radish	10
Red (Table)	14
Spinach	10
Summer Squash	7
Sweet Corn	0
Sweet Potatoes	7
Swiss Chard	12
Tomatoes	7
Turnip Tops	10
Watermelons	3
Winter Squash	3

*PHI - Preharvest interval or the number of days between the last application and harvest.

4/6/51

CROP	PEST	RATE	REMARKS
Beans (Pole, Snap, or Lima) (succulent only)	Cutworms, *Garden Symphylans (Centipedes)	4-8 lbs. per Acre or 1 1/2-3 ozs. per 1,000 square feet	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil. *The high rate of application will help suppress garden symphylan populations.
	Wireworms	6-8 lbs. per Acre or 2 1/4-3 ozs. per 1,000 square feet	Broadcast just prior to planting. Incorporate into soil 4-8 inches.
	Black Bean Aphids, Mexican Bean Beetles, Leafminers	1-1 1/2 lbs. per Acre or 2/5-3/5 oz. per 1,000 square feet	Apply as insects occur. Repeat application as necessary every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.
	Cucumber Beetles	1/2-3/4 lbs. per Acre or 1/5-3/10 oz. per 1,000 square feet	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 application in 100 gallons of water per acre. NOTE: Diazinon will not control organophosphate-resistant leafminers.
	Dipterous Leaf- miners, Leaf- hoppers, Mites	1 lb. per Acre or 1/5 oz. per 1,000 square feet	Apply as pests occur. Repeat applications as necessary every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. 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. NOTE: Diazinon will not control organophosphate-resistant leafminers.

4. 1. 11

CROP	PEST	RATE	REMARKS
Beets, Red (Table)	*Garden Symphylans (Centi- pedes), Cutworms, Mole Crickets, Root Maggots, Wireworms	8 lbs. per Acre or 3 ozs. per 1,000 ft.	Broadcast just before planting. Incorporate into soil 4-6 inches. *This application will only suppress garden symphylan populations.
	Aphids, Dipterous Leaf- miners	1/2-1 lb. per Acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat applications a 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 before planting or transplanting. Incorporate in the top 3-4 inches of soil.
		4-8 ozs. in 50 gallons of water	In transplant water as a drench application when 200-300 gallons 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 trans- planting.

CROP	PEST	RATE/ACRE	REMARKS
Broccoli (cont'd)	Cutworms	4-8 lbs. per Acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate in the top 4-6 inches of soil.
	Mole Crickets	2 lbs. per Acre or 3/4 oz. per 1,000 sq. ft.	Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and 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 incorporate into soil 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leaf- miners	1/2-1 lb. per Acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 5 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. Incorporate in the top 3-4 inches of soil.
	Cutworms	4-8 lbs. per Acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast before planting. Incorporate into the top 6 inches of soil.
	Mole Crickets	2 lb. per Acre or 3/4 oz. per 1,000 sq. ft.	Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil.

49,877

CROP	PEST	RATE/ACRE	REMARKS
Brussels Sprouts (cont'd)	Wireworms	6-8 lbs. per Acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting and 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 applications 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 before planting or transplanting. Incorporate into the top 3-4 inches of soil.
		4-8 ozs. in 50 gallons 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, *Garden Symphylans (Centipedes)	4-8 lbs. per Acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate into the top 4-6 inches of soil. *The high rate will suppress garden symphylan populations.

5-17

CROP	PEST	RATE/ACRE	REMARKS
Carrots	*Garden Symphylans (Centipedes), Cutworms, Mole Crickets, Root Maggots, Wireworms	8 lbs. per Acre or 3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate into soil 4-6 inches. *This application will only suppress garden symphylan populations.
	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 applications 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.
Cauliflower	Root Maggots	4-6 lbs. per Acre or 1 1/2-2 1/4 ozs. per 1,000 sq. ft.	Broadcast before planting or transplanting. Incorporate into the top 3-4 inches of soil. 4-8 ozs. in 50 gallons of water In transplant water as a drench application when 200-300 gallons 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. Incorporate in the top 4-6 inches of soil.

5165 11

CROP	PEST	RATE/ACRE	REMARKS
Cauliflower (cont'd)	Mole Crickets	2 lbs. per Acre or 3/4 oz. per 1,000 sq. ft.	Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and 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 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 applications 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. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Celery	Cutworms	4-8 lbs. per Acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate 2-4 inches to control cutworms.
	Wireworms	6-8 lbs. per Acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate 4-8 inches to control wireworms.
	Aphids, Flea Beetles, Cabbage Loopers	1 lb. per Acre or 2/5 oz. per 1,000 sq. ft.	Mix in 100 gallons of water to spray 1 acre (2 1/4 gallons for 1,000 sq. ft.). Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest. Plant should be market trimmed (tops removed) before being shipped or used. Tops should not be used for food or feed.

52111

CROP	PEST	RATE/ACRE	REMARKS
Celery (Cont'd)	Dipterous Leafminers	1/2-1 lb. per Acre or 1/5-2/5 oz. per 1,000 sq. ft.	<p>Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 10 days of harvest. Plants should be market trimmed (tops removed) before being shipped or used. Tops should not be used for food or feed.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>
Chinese broccoli	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leaf- miners	1/2-1 lb. per Acre or 1/5-2/5 oz. per 1,000 sq. ft.	<p>Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>

5/15/11

CROP	PEST	RATE/ACRE	REMARKS
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leaf-miners	1/2-1 lb. per Acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat applications 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. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Collards	Cutworms	4-8 lbs. per Acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate into the top 4-6 inches of soil.
	Mole Crickets	2 lbs. per Acre or 3/4 oz. per 1,000 sq. ft.	Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and 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 incorporate into the top 4-8 inches of soil.

54

CROP	PEST	RATE/ACRE	REMARKS
Collards (cont'd)	Aphids, Diamondback Moths, Imported Cabbage- worms, Harlequin Cabbage- bugs, Corn Earworms	1/2-1 lb. per cre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat applications 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.
Cucumber	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate into the top 2-6 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leaf- miners, Thrips, Striped Cucumber Beetles, Melonworms	1 lb. per acre or 2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat applications as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
(Endive (Escarole)	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate 2-4 inches to control cutworms.
	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 or transplanting when insects are present or expected. Incorporate 1-2 inches into soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate 4-8 inches into soil.

CROP	PEST	RATE/ACRE	REMARKS
Endive (Escarole) (Cont'd)	Aphids, Dipterous Leaf- miners	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat applications as necessary 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.
Kale	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate into the top 4-6 inches of soil.
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and 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 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 applications 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.

500 17

CROP	PEST	RATE/ACRE	REMARKS
Lettuce	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate 2-4 inches to control cutworms.
	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 or transplanting when insects are present or expected. Incorporate 1-2 inches.
	Wireworms, *Symphylans (Centi- pedes)	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate into top 4-8 inches of soil. *The high rate will suppress garden symphylan populations.
	Aphids, Dipterous Leaf- miners	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 10 days of harvest. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Melons (Canta- loupes, Casabas, Crenshaws, Honeydew, Musk- melons, Persians, & Hybrids of these)	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate into the top 4-8 inches of soil.
	Aphids, Leaf- miners, Thrips, Striped Cucumber Beetles, Melon- worms, Leaf- hoppers, 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 applications as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

CROP	PEST	RATE/ACRE	REMARKS
Mustard	Root Maggots	4-6 lbs. per acre	Broadcast before seeding, either in the seedbed or in the field or before transplanting. Incorporate into the soil 3-4 inches.
		1/4-1/2 lb. in 50 gallons of water	In transplant water as a drench application mix in 50 gallons of water when 200-300 gallons of water are used per acre. May be applied at 1/2-1 cupful per plant, either by hand or 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.
	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 or transplanting when insects are present or expected. Incorporate 1-2 inches.
	Wireworms, *Garden Symphylans (Centipedes)	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate 4-8 inches. *The high rate will suppress garden symphylan populations.
	Aphids, Dipterous Leaf-miners, 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 applications as necessary 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.

CROP	PEST	RATE/ACRE	REMARKS
Onions (green and bulb)	Onion maggots	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast application: Broadcast just before planting and mix into the top 3-4 inches of soil by disking, harrowing, or other suitable means. NOTE: Diazinon may not control organophosphate-resistant onion maggots.
		2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Furrow application: At planting, apply diazinon in sufficient water to drench the seed furrow. NOTE: Diazinon may not control organophosphate-resistant onion maggots.
	Onion thrips	1 lb. per acre or 3/8 oz. per 1,000 sq. ft.	Apply as thrips appear. Repeat in 7 days if necessary. Do not make more than 3 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Work into top 4-8 inches of soil immediately after application.
(arsley	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate 2-4 inches to control cutworms.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate 4-8 inches.

545711

CROP	PEST	RATE/ACRE	REMARKS
Parsnips	Aphids, Flea Beetles, Dipterous Leaf- miners	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.
Peas (succulent only)	Cutworms, *Garden Symphylan (Centi- pedes)	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil. *The high rate of application will help suppress garden symphylan populations.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate into soil 4-8 inches.
	Aphids, 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. Peas may be picked immediately after application. 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.

CROP	PEST	RATE/ACRE	REMARKS
Peppers	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate into the top 2-6 inches of soil.
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply when insects are present. Make application to plant beds or fields 1-2 days prior to sowing of seed or transplanting and 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 prior to planting. Incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leaf-miners	1/2 lb. per acre or 1/5 oz. per 1,000 sq. ft.	Apply as insects appear. Repeat applications 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.
Potatoes (Note: Do not use on commercially grown potatoes which will be hand-harvested.)	Cutworms (Surface & Subterranean)	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Just before planting, broadcast and incorporate immediately into the top 4-6 inches of soil.
	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.

6/10/11

CROP	PEST	RATE/ACRE	REMARKS
Potatoes (cont'd)	Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leaf- miners	1/2-3/4 lb. per acre or 2/10-3/10 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat applications as necessary 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, Leaf- hoppers Southern Armyworms	3/4-1 lb. per acre or 3/10-4/10 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat applications as necessary 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.
Radish	Root Maggots	2 lbs. per acre	Mix in 100 gal. of water. Apply 100 gallons per acre (1 1/3 gals. per 1,000 linear feet of row) in the seed furrow at planting.
	*Garden Symphylans (Centi- pedes) Cutworms, Wireworms	8 lbs. per acre or 3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate into soil 4-6 inches. *This application will only suppress garden symphylan populations.
	Mole Crickets	2 lbs. per acre or 3/4 oz: per 1,000 sq. ft.	Apply when insects are present or expected. Make application to plant beds 1-2 days prior to planting and incorporate 1-2 inches.
	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 applications 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.

60

CROP	PEST	RATE/ACRE	REMARKS
Spinach	Aphids, Dipterous Leaf- miners	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat applications as necessary 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.
Squash, Summer	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil..
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil.
	Aphids, Leaf- miners, Thrips, Striped Cucumber Beetles, Melonworms, Leaf- hoppers, 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 applications 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.
Squash, Winter	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 czs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil.

6.17

CROP	PEST	RATE/ACRE	REMARKS
Squash, Winter (cont'd)	Aphids, Leaf- miners, Thrips, Striped Cucumber Beetles, Melonworms, Leaf- hoppers, 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 applications as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Sweet Corn	Cutworms *Garden Symphylans (Centi- pedes)	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting or when larvae first appear. Incorporate into the top 1-2 inches of soil. Do not apply after layby. For subterranean cutworms, apply just prior to planting and incorporate 3-6 inches. *The high rate of application will help suppress garden symphylan populations.
	Seed Corn Maggots	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting and incorporate into the top 2 inches of soil immediately.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast before planting. Incorporate into the top 4-6 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 may be picked immediately following last application. Forage may be fed to beef and dairy cattle and sheep.
	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. Corn may be picked immediately following last application.

605

CROP	PEST	RATE/ACRE	REMARKS
Sweet Corn (Cont'd)	Grass-hoppers, Mites, Fleabeetles	1 lb. per acre or 2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat if necessary. Do not make more than 5 applications per season. Corn may be picked immediately following last application. Forage may be fed to beef and dairy cattle and sheep.
	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 timing of sprays. Repeat application in 7 days if necessary. Do not make more than 5 applications per season. Corn may be picked immediately following last application. Forage may be fed to beef and dairy cattle and sheep.
Sweet Potatoes	Wireworms, Flea Beetles, White Grubs, Southern Corn Rootworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate 4-8 inches into soil.
(Swiss Chard	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate into top 2-4 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate into top 4-8 inches of soil.
	Aphids, Corn Earworms, Imported Cabbage-worms, Diamondback Moths, Harlequin Cabbage-bugs	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 12 days of harvest or illegal residues may occur.

65-17

CROP	PEST	RATE/ACRE	REMARKS
Tomatoes	Cutworms *Garden Symphylans (Centi- pedes)	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate into the top 2-6 inches of soil. *The high rate of application will help suppress garden symphylan populations.
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply when insects are present. Make application to plant beds or field 1-2 days prior to sowing of seed or transplanting and 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 prior to planting. 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 applications after 7 days if necessary. Do not make more than 5 applications per season. Do not apply within one day of harvest or illegal residues may occur.
	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.	
	Vinegar Flies (Droso- phila spp.)	1/2-1 1/2 lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft.	

CROP	PEST	RATE/ACRE	REMARKS
Turnips and Turnip Tops	*Garden Symphylans (Centipedes), Cutworms, Wireworms	8 lbs. per acre or 3 ozs. per 1,000 sq. ft.	Broadcast just before planting. Incorporate into soil 4-6 inches. *This application will only suppress garden symphylan populations.
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply when insects are present or expected. Make application to plant beds 1-2 days prior to planting and incorporate 1-2 inches.
	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 applications 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.
Watermelon	Aphids, Serpentine Leafminers, Thrips Striped Cucumber Beetles, Melonworms	1/2-1 1/2 lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat applications as necessary every 7 days. Do not make more than applications per season. Do not apply within 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
	Cutworms	4-8 lbs. per acre or 1 1/2-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate into the top 2-6 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 ozs. per 1,000 sq. ft.	Broadcast just prior to planting. Incorporate into the top 4-8 inches of soil.

Mushroom Houses

Mushroom flies (Phorids and Sciarids):

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: Do not spray compost.

To treat wooden sides of beds, post, doors, and door frames after pasteurizing, mix 1/2 lb. in 6 gallons of water and apply with a brush. Note: Do not apply this treatment after spawning.

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 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.

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:

6805 17

Preharvest Intervals (PHI*) For Foliar Applications

<u>Crop</u>	<u>*PHI</u>
Hops	14
Sugar Beets	7

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

CROP	PEST	RATE/ACRE	REMARKS
Hops	Aphids, Mites	2 lbs. per Acre	Apply as pests occur. Repeat applications, if necessary in 14 days. Do not make more than 5 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. Incorporate into soil 4-6 inches. Do not apply more than 8 lbs. of this product to the soil, per season. Tops may be fed to beef and dairy animals.
	Beet Leaf-hoppers, Dipterous Leaf-miners, Aphids	3/4-1 lb. per Acre	Apply as insects occur. Repeat applications as necessary up to 5 times with a minimum of 7 days between applications. Do not apply within 7 days of harvest. NOTE: Diazinon will not control organophosphate-resistant leafminers.
	Grass-hoppers	1 lb. per Acre	Apply as insects occur. Repeat applications as necessary up to 5 times with a minimum of 7 days between applications. Do not apply within 7 days of harvest. Tops may be fed to beef and dairy animals.

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.

Ornamental Insects

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, Plum, Poplar, Rhododendron, Rose, Spruce, and Willow, apply the recommended rates indicated below.

7/51 11

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 leaftiers, Privet mites, Scale crawlers (Cottoncushion, Lecanium, Pine needle, San Jose, Soft scale), Thrips, Twospotted mites, Webworms, Whiteflies	1/2 oz.	1 lb.
Apple-and-thorn 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.

Mimosid 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)

To control pests listed below, apply recommended rates. For pests, such as Ants, Brown dog ticks, Clover mites, Crickets, Earwigs, Fleas, Millipedes, Sowbugs, and Springtails (Collembola), which are commonly found near the house and may enter the house, spray a 5 ft. band of soil around the house as well as the house foundation wall to a height of 2-3 ft. Repeat application if necessary.

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. Avoid overlapping sprays. If waterfowl, i.e., ducks, 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.

Pests	Rate/1,000 sq. ft.		Remarks
	D·z·n diazinon 50W	Water	
Lawn chinch bugs	2-3 ozs.	3 gals.	Use higher rate for longer residual control and in turf-grass of dense growth, such as St. Augustine.
Ants, Armyworms, Clover mites, Springtails (Collembola), Crickets, Cutworms, Digger wasps, Earwigs, Frit flies, Lawn billbugs, Sod webworms (Lawn moths), Sowbugs	3 ozs.	3 gals.	Spot spray ant hills and wasp ground nest openings. For frit flies, mow grass and water well before treatment, but delay application until grass is dry.

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Brown dog ticks, Bermudagrass mites, Chiggers, Fleas, Leafhoppers	1 1/4 ozs.	3 gals.	Do not apply to animals. For brown dog ticks, spray grass and under shrubby. For digger wasps, apply product at dusk when wasps are not active.
Millipedes	3 ozs.	3 gals.	
Rhodesgrass scales	3 ozs.	3 gals.	Apply when crawlers first emerge.

Boxelder bugs: Spray bugs outside the home with 1 1/2-2 1/2 oz. in 1 gal. of water. At the same time, spray thoroughly around foundation, windows, doors, tree trunks, and into cracks and other places where the insects hide.

Fly Control

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

Residual Sprays: Remove animals from buildings 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.

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 1-800-334-9481 day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

May be fatal if swallowed. May be 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. Avoid contamination of food and feed. Keep out of reach of domestic animals. Do not use on humans or pets. Do not permit children or pets to go onto sprayed grass until spray has completely dried. Do not contaminate ornamental fish ponds.

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.

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

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 toxic to birds, fish and wildlife including waterfowl. Birds feeding on treated areas may be killed. Do not apply to lakes, streams, ponds, tidal marshes and estuaries. Do not apply to water that will be used for recreational purposes and human and livestock consumption. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources.

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7605 17

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

Physical of 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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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 pre-
cautions in Env. Hazards,
added do not use on golf
courses/sod farms statement
to front panel.

Revised Sept. 21, 1988
Deleted non-supported crops
under May 1, 1987, EFA Data
Call-In; added spill state-
ment; 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 Domest.
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 re-entry
statements - 24 hr. vegs.,
fruits, field crops.

(LABELS-D.4 - DZN50W/B/F1)