

10F52  
Pm 15  
100-461

JUN 30 1989

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

Subject: Amendments - Revisions per Agency letter dated April 26, 1989;  
Reformat label to crop alphabetical listing;  
Specify Bok Choy & Napa varieties (Chinese cabbage);  
Add crop directions - Ginseng (foliar application),  
Chinese radish (California and Florida only);  
Re-add inadvertently omitted crop - Chinese Broccoli;  
Re-add pests - leafhopper/grapes, seed corn maggots/sweet corn;  
Delete crop - Red chicory;  
Delete pests - Grape Phylloxera/grape, pinworm/tomatoes  
D-z-n Diazinon AG500  
EPA Reg. No. 100-461  
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 provided the the following revisions are made prior to release for shipment under the amended label:

- 1) The directions for foliar application to ginseng must be revised to indicate that only one application is permitted per year. As you are aware, on December 29, 1986, the Agency published a Final Rule in the Federal Register that established a tolerance of 0.75 parts per million of diazinon in or on the raw agricultural commodity ginseng. This represented the Agency's acceptance of IR-4's Tolerance Petition 6E3347, based upon a revised section B (label) to address the Agency's concerns regarding the lack of actual residue data to support multiple applications per year to this multi-year crop (please refer to the enclosed original and revised section B labeling associated with that Petition). Your proposed text resembles the initial section B (multiple applications per year) which was not acceptable to the Agency. Your extension of the preharvest interval (PHI) to 365 days does not negate the Agency's concerns, since to date no residue data reflecting multiple applications to this multi-year crop have been submitted. The Agency will accept

addition of the crop ginseng (foliar application) to the D.z.n diazinon AG500 label with a 30-day PHI at this time, provided that all of the revised section B limitations are included on your label. If the limitation to a single application per year is not suitable to your company's needs, then ginseng should be deleted from the label at this time; later addition of the crop claim with multiple applications per year would then depend upon submission and Agency acceptance of adequate supporting data. The acceptable use for soil insect control on ginseng (using granular diazinon) is correctly indicated on the D.z.n diazinon 14G label which was accepted by the Agency on June 19, 1989. It was soil insect control using 14% granular diazinon that IR-4 referred to regarding a one year PHI. Revise the PHI summary table to indicate a 30-day PHI for ginseng, and revise the specific directions for use to read as follows [note the correction of the pest name to "jumping plant lice"]:

Crop	Pest	Rate	Remarks
Ginseng	Leafhoppers, Aphids, Lygus Bugs, Flea Beetles, Jumping Plant Lice	3/4-1 pt. per acre	Spray when insects first appear. For heavy insect infestations, use 1 pt. per acre. Apply by ground equipment using 10 to 100 gallons of water per acre. <u>Do not apply more than application per growing season.</u> Do not apply during flowering of three or four year old crops. Do not apply within 30 days of harvest. Do not graze treated areas or feed treated forage to livestock.

- 2) To maintain the alphabetical listing, the specific directions for use on beans (currently page 18) should appear before those for beets (currently page 17).
- 3) There is an error in the preharvest interval (PHI) table (page 16) 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.
- 4) In the specific directions for use for a number of vegetable crops (beets [see item 5, below], broccoli, Brussels sprouts, cabbage, carrots [see item 5, below], cauliflower, collards, endive, kale, lettuce, mustard, peppers, radish, tomatoes, turnips and turnip tops [on page 36, see item 5, below]), 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."

- 306
- 5) 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 rate and incorporation directions are compared to those found for other crops). Unlike all other crop directions, these crops list the grouping cutworms, garden symphylans, wireworms, and mole crickets ["beets" and "carrots" also include root maggots in this grouping] with an application rate of 4 qts./acre and incorporation to 4-6 inches. Generally, other crops list only cutworms and garden symphylans together, with an application rate of 2-4 qts./acre and incorporation to 4-6 inches, wireworms are listed separately with a rate of 3-4 qts./acre and incorporation to 4-8 inches, root maggots are listed separately with a rate of 2-3 qts./acre and incorporation to 3-4 inches. Mole crickets appear separately with a rate of 1 qt./acre and incorporation to 1-2 inches [see item 4, above].
- 6) Since earlier versions of this label had indicated one set of directions for use for a specific pest for a variety of crops, the Agency does not understand the reason for the variations (in addition to those identified in item 5, above) in either the application rate or soil incorporation depth for a particular pest that now appear in the specific directions for use for different 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 2-4 qts./acre (as shown currently 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 some unexplained variations (other than those identified in item 5, above):
- a) Lettuce and mustard indicate a rate of 3-4 qts./acre and a 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 crops. Was this change in the grouping, rates, and depth of incorporation intentional?
  - b) The depth of soil incorporation varies from the (presumably) combined 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; and 3-6 inches is indicated for sweet corn.

Were these variations intentional?
- 7) 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 text appears on the current label.

- 8) It is noted that there are still some variation between the 50W and the AG500 labels regarding certain directions for use. Specifically:
- a) On the 50W label, the column heading "Rate/Acre" is used generally (but not always - see booklet label, all pages, and container label, pages 24, 25), but on the AG 500 label, the heading is only "Rate". Although "per acre" often occurs in the "Remarks" section text, it is not always there. Consistent use of the heading "Rate/Acre" would be clearer.
  - b) For caneberries/leafhoppers, etc., and grapes/Pacific Spider Mites, etc., in the rate column of the 50W label there is an optional rate and a maximum number of gallons per acre, i.e., 1 lb. per 100 gallons of water (200 gallon maximum per acre). The AG500 label does not show a similar rate (which, presumably, would be 1 qt. per 100 gallons of water; 200 gallons maximum per acre). Is this variation intentional?
  - c) For most fruit and nut crops, the term "in 100 [or other number] gallons of water" appears in the "Rate" (i.e., "Rate/Acre") column. However, "in 100 gallons of water" does not appear for the crop uses caneberries, grapes/mites, or strawberries/mole crickets. Are these omissions intentional, or are some other gallonages appropriate?
- 9) For most crops, when the rate is 2 pints you indicate this as 1 quart, however, for blueberries and caneberries you use "2 pints". Why?
- 10) 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.".
- 11) In the specific directions for use on Chinese radish, specify "Dipterous Leafminers" rather than "Leafminers", and add the "NOTE", i.e.:
- "NOTE: Diazinon will not control organophosphate-resistant leafminers."
- 12) In the specific directions for use on onions, revise the "NOTE" to read:
- "Diazinon will not control organophosphate-resistant onion maggots."

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

Sincerely yours,

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

(Booklet for 2 1/2 Gallon Container)

5052

D·z·n® diazinon AG500

Insecticide

Recommended for Agricultural or Commercial Use Only

For control of certain insects on fruits, nuts, vegetables, field crops, lawns and ornamentals.

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

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUN 30 1989

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide  
registered under EPA Reg. No.  
100-461

Active Ingredient:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate .....	48.0%
Inert Ingredients*:	52.0%
Total:	100.0%

\*Contains xylene range aromatic solvent.

D·z·n diazinon AG500 contains 4 lbs. diazinon per gallon.

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. 100-461  
EPA Est. 100-AL-1

CIBA-GEIGY

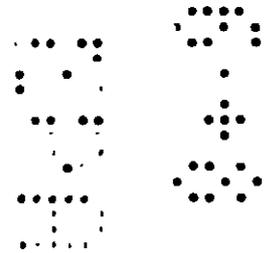
D·z·n® trademark of CIBA-GEIGY for diazinon

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Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, North Carolina 27419

CGA 1L128E

2 1/2 Gallons  
U.S. Standard Measure



6.5-2

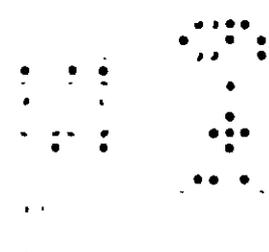
DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

**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 AG500 is an emulsifiable solution which, when diluted with water according to the directions, is intended for the control of insect pests of agricultural crops and other plant pests. Do not use in barns or dwellings. Do not use on livestock.

In the directions for use which follow, best control is obtained when application is made at first sign of pests. Application should be repeated only as directed to maintain control.

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

D·z·n Diazinon AG500 may be applied aurally to head lettuce, tomatoes, 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 THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

Reentry Statement

Twenty-four (24) 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 noncrop 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 closely woven fabric covering the body including arms and legs), socks and shoes.

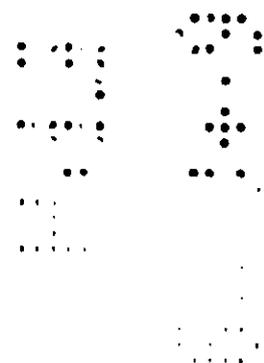
Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. (See Note below.)

In vegetables, fruits, nuts, 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 D·z·n diazinon AG500 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 is applied, the interval shall be prolonged by adding to the longest applicable interval an additional 50% of that interval.

Fruit and Nut Crops

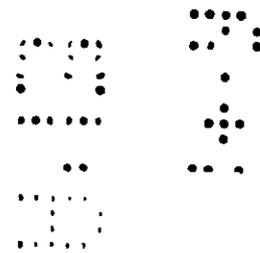
D·z·n diazinon AG500 may be applied using ground or aerial application equipment as follows in the table below. The specific amount of product to be used appears under the separate directions for use for each crop.



9 of 2

Crop	Air	Minimum Gallons/Acre	Ground	Minimum Gallons/Acre	
				Dilute	Concentrate
Almonds*	Yes	20	Yes	100	20
Apricots	Yes	20	Yes	100	20
Blueberries	No	-	Yes	10	
Blackberries**	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
Pineapples	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 AG500 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 pt. of D·z·n diazinon AG500 in 100 gallons of water this amount is to 3-6 pts. 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
Apricots	10
Blueberries	7
Blackberries	7
Boysenberries	7
Cherries	10
Cranberries	.
Dewberries	7
Grapes	18, 7
Loganberries	7
Nectarines	10
Peaches	20
Pineapples	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.

Crop	Pest	Rate	Remarks
Almonds (CA only)	San Jose Scale, Parlatoria Scale	1-1 1/2 pts. + 2-3 gallons dormant oil or 1-1 1/2 gallons superior type oil in 100 gallons of water	Do not apply more than 6 pts. of diazinon or 9 gallons of oil per acre. Apply as a dormant spray.
	Mites, Twig Borers	1-1 1/2 pts. in 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 pts. 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.
Apricots	Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 pt. in 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 pts. 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 pt. + 1 1/2 gallons of light medium horticultural oil per 100 gals. of water	Apply when scale crawlers are present. Do not apply more than 6 pts. 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 pt. per 100 gallons of water	Apply as a cover spray from petal fall to June to a maximum of 6 pts. per acre per application. 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.

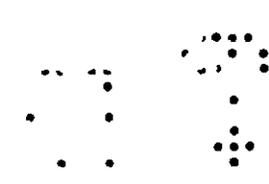
Crop	Pest	Rate	Remarks
Blue-berries	Cranberry Fruit-worms, Cherry Fruit-worms, Blueberry Maggots, Aphids, Thrips, Twospotted Mites	1 pt. in 100 gallons of water or 2 pts. per acre	Apply up to 200 gallons of spray per acre as pests occur, or apply 2 pts. per acre in sufficient water for thorough coverage. 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.
Cane-berries CA, OR and WA only (Black-berries, Boysen-berries, Dew-berries, Logan-berries, Rasp-berries)	Leaf-hoppers, Thrips, Aphids, Twospotted Spider Mites, Raspberry Sawflies, Raspberry Fruitworms	2 pts. per acre	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 per acre.  For raspberry fruitworms make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Dryberry Mites	1-2 qts. per acre	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. Do not apply within 7 days of harvest or illegal residues may occur.
	Raspberry Crown Borers, (Raspberry Root Borers)	2 qts. per acre	Apply a single application 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.

Crop	Pest	Rate	Remarks
Cherries	Eyespotted Bud Moths, Fruit Tree Leaf- rollers	1 pt. in 100 gallons of water	Apply in cover sprays as infestations occur beginning at petal fall. Repeat application after 7 days if necessary. Do not apply more than 6 pts. 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 pt. in 100 gallons	Make 3-4 applications beginning at petal fall and continuing through the growing season as infestations occur. Do not apply more than 6 pts. of diazinon per acre per application. Allow 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur.
	Cherry Fruitflies	1/2-1 pt. in 100 gallons	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals. Do not apply more than 6 pts. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	Black Cherry Aphids	1 pt. in 100 gallons	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary. Do not apply more than 6 pts. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	San Jose Scale Crawlers	1 pt. in 100 gallons	Apply during the pre-pink stage or when crawlers first appear. Do not apply more than 6 pts. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.

Crop	Pest	Rate	Remarks
Cherries (cont.)	Cherry Rust Mites	1/2-1 pt. in 100 gallons of water	Apply to trees as a supplemental spray after harvest. Do not apply more than 6 pts. of diazi- non per acre per application.
Cran- berries	Blackheaded Fireworms ( <u>Rhopobota</u> <u>naevana</u> )	2 qts. 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	3 qts. in 400 gallons of water	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.
Grapes	Pacific Spider Mites, Leaf- hoppers, Grape Berry Moths, Grape Leaf- folders, Omnivorous Leaf- rollers, Aphids, Mites	1-2 pts. per acre	Apply as pest occurs as a thor- ough cover spray. Repeat appli- cation after 7 days if neces- sary. 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 fl. ozs. per 100 gallons of water (300 gallon maxi- mum per acre)	Apply as a thorough cover spray when pest occurs. Repeat application after 7 days, if necessary. Do not make more than 5 applications per season. <u>Drosophila</u> applications may be made up to 7 days before harvest if a spreader-sticker is <u>not</u> used. If a spreader-sticker is used, do not apply within 18 days of harvest or illegal residues may occur.

1052

Crop	Pest	Rate	Remarks
Nectarines	Peach Twig Borers, Parlatoria Scale	1/2 pt. + 1 1/2 gallons light medium horticultural oil per 100 gallons of water	Apply at petal fall. Do not apply more than 6 pts. of diazinon or 6 gallons of summer oil per acre per application.
	Olive Scale Crawlers		Apply as insects occur. Do not apply more than 6 pts. of diazinon 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 10 days of harvest or illegal residues may occur.
	Oriental Fruitmoths	1 pt. 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 pts. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	Aphids, Brown Mites (Clover Mites Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 pt. in 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 pts. 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.





Crop	Pest	Rate	Remarks
Peaches (cont.)	Leafhoppers	1 pt. 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 pts. 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 pts. 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. Do not apply within 20 days of harvest or illegal residues may occur.
Pineapples	Pineapple Mealybugs	2 qts. per acre	Apply in 200-500 gallons of water per acre. Repeat application as necessary every 28 days up to a maximum of 8 applications. Do not apply within 7 days of harvest or illegal residues may occur.  Pineapple forage and refuse may not be fed to livestock.
Plums	Brown Mites (Clover Mites), European Red Mites	1 pt. in 100 gallons of water	Apply as needed every 7 days up to a maximum of 4 applications. Do not apply more than 6 pts. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 pt. in 100 gallons of water	
Prunes	Brown Mites (Clover Mites),	1 pt. in 100 gallons of water	Apply as needed every 7 days up to a maximum of 4 applications. Do not apply more than 6 pts. of diazinon per acre per applica-

Crop	Pest	Rate	Remarks
Prunes (Cont'd)	European Red Mites		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 pt. in 100 gallons of water	
Strawberries	Aphids, Twospotted Spider Mites	1 pt. in 100 gallons of water in acre	Apply as pests occur. Repeat application if necessary every 7 days, but do not make more than 3 applications per season. Do not apply within 5 days of harvest or illegal residues may occur.
	Cyclamen Mites	1 qt. in 100 gallons of water per acre	Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough 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	1 qt. per acre	Broadcast when insects are present. Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.
	Strawberry Leaf-rollers	3/4-1 pt. 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	1 qt. per acre	Apply as a foliar spray. Repeat application in 14 days if necessary. Do not make more than 3 applications per season.
	Codling Moths, Scale Crawlers, Walnut Caterpillars	3 qts. per acre	Do not apply within 45 days of harvest or after husks open or illegal residues may occur. Make ground applications in a minimum of 100 gallons of water per acre.

Vegetable Crops

For foliar or soil applications, D·z·n diazinon AG500 should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. D·z·n diazinon AG500 may be applied aeriaily only to crops indicated in the following table. The specific amount of product to be used appears under the separate directions for use for each crop.

Crop	Ground Appl.	Min. Gallons /Acre	OR	Min. Gals. /1,000 Sq. Ft.	Air Appl.	Min. Gallons /Acre
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	-
Chinese Radish (FL, CA only)	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	-
Ginseng	Yes	10		2	No	-
Honeydew Melons	Yes	5		1	No	-
Kale	Yes	10		2	No	-
Lettuce	Yes	10		2	Yes	5
Muskmelons	Yes	5		1	No	-
Mustard	Yes	10		2	No	-
Onions, Bulb and Green	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	-
Spinach	Yes	10		2	No	-
Squash, Summer	Yes	5		1	No	-
Squash, Winter	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	-

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

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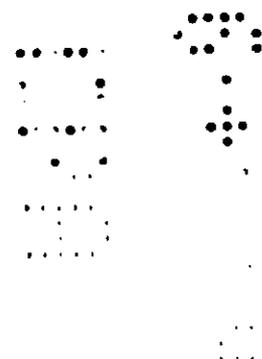
Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season.

Pre Harvest Intervals (PHI\*) for Foliar Applications:

Crop	PHI (Days)
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
Chinese Radish	10
Collards	10
Crenshaws	3
Cucumbers	7
Endive (Escarole)	10
Ginseng	365
Honeydew Melons	3
Kale	10
Lettuce	10
Muskmelons	3
Mustard	10
Onions (Green and Bulb)	10
Parsnips	10
Peas	0
Peppers	5
Persian Melons	3
Potatoes (Irish)	35
Radish	10
Spinach	7
Squash, Summer	7
Squash, Winter	3
Sweet Corn	0
Swiss Chard	12
Tomatoes	7
Turnip Tops	10
Watermelons	3

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

Crop	Pest	Rate	Remarks
Beets, Red (Table)	Garden Symphylans (Centi- pedes), * Cutworms, Mole Crickets, Root Maggots, Wireworms	4 qts. per acre	Broadcast just before planting. Incorporate into soil 4-6 inches.  *This application will only suppress garden symphylan populations.
	Aphids, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant leafminers.

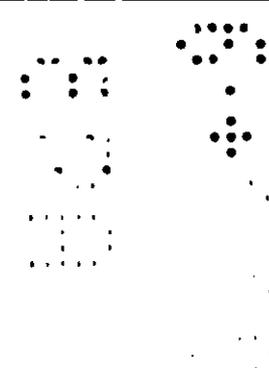


Crop	Pest	Rate	Remarks
Beans (Pole, Snap or Lima - succulent only)	Cutworms, Garden Symphylans (Centi- pedes)*	2-4 qts. per acre	Broadcast just prior to plant- ing. Incorporate into the top 2-6 inches of soil.  *The high rate of application will help suppress garden symphylan populations.
	Wireworms	3-4 qts. per acre	Broadcast just prior to plant- ing. Incorporate into soil 4-8 inches.
	Black Bean Aphids, Mexican Bean Beetles, Leafminers	1-1 1/2 pts. per acre	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	3/4 pt. per acre	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.
Beans, Lima (succulent only)	Dipterous Leaf- miners, Leaf- hoppers, Mites	1 pt. per acre	Apply as pests 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.  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.

Crop	Pest	Rate	Remarks
Broccoli	Root Maggots	2-3 qts. per acre	Broadcast before planting or transplanting. Incorporate into the top 3-4 inches of soil.
		4-8 ozs. per 50 gallons	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 treat- ments may result in stand reduction due to plant stress at time of trans- planting.
	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate into the top 4-6 inches of soil.
	Mole Crickets	1 qt. per acre	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	3-4 qts. per acre	Broadcast just before planting and incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 5 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant leafminers.

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Crop	Pest	Rate	Remarks
Brussels Sprouts	Root Maggots	2-3 qts. per acre	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	2-4 qts. per acre	Broadcast just before planting. Incorporate into the top 4-6 inches of soil.
	Mole Crickets	1 qt. per acre	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	3-4 qts. per acre	Broadcast just before planting and incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage-worms	1/2-1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications.  Do not apply within 7 days of harvest or illegal residues may occur.



Crop	Pest	Rate	Remarks
Cabbage	Root Maggots	2-3 qts. per acre	Broadcast before planting or transplanting. Incorporate into the top 3-4 inches of soil.
		4-8 ozs. in 50 gallons of water	<p>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.</p> <p>NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.</p>
	Cutworms, Garden symphylans (Centipedes)*	2-4 qts. per acre	<p>Broadcast just before planting. Incorporate into the top 4-6 inches of soil.</p> <p>*The high rate will suppress garden symphylan populations.</p>
	Mole Crickets	1 qt. per acre	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	3-4 qts. per acre	Broadcast just before planting and incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 7 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>

Crop	Pest	Rate	Remarks
Carrots	Garden symphylans (Centipedes)* Cutworms, Mole Crickets, Root Maggots, Wireworms	4 qts. per acre	Broadcast just before planting. Incorporate into soil 4-5 inches.  This application may be followed by 5 foliar applications.  *This application will only suppress garden symphylan populations.
	Aphids	1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications.  Do not apply within 10 days of harvest or illegal residues may occur.
Cauliflower	Root Maggots	2-3 qts. per acre	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	2-4 qts. per acre	Broadcast just before planting. Incorporate into the top 4-6 inches of soil.
	Mole Crickets	1 qt. per acre	Apply when insects are present or expected. Make applications to plant beds 1-3 days prior to planting and incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Remarks
Cauliflower (cont.)	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications.  Do not apply within 5 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant leafminers.
Celery	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate 2-4 inches to control cutworms.
	Wireworms	3-4 qts. per acre	Broadcast just before planting. Incorporate 4-8 inches to control wireworms.
	Aphids, Flea Beetles, Cabbage Loopers	1 pt. per acre	Mix in 100 gallons of water to spray 1 acre (2 1/4 gallons for 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. To avoid illegal residues, plants should be market trimmed (tops removed) before being shipped or used and tops should not be used for food or feed.
Chinese Broccoli	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications.  Do not apply within 10 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant leafminers.

2855

Crop	Pest	Rate	Remarks
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application 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>
Chinese Mustard (Gai Choy)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application 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>
Chinese Radish (Japanese Radish or Daikon) (FL and CA only)	Leafminers, Aphids, Diamondback Moths, Imported Cabbage-worms	1 pt. per acre	<p>Mix in a minimum of 100 gallons of water per acre and apply as a foliar spray as pests occur. Repeat application as necessary up to 3 times, with a minimum of 14 days between applications.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p>
Collards	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate into the top 4-6 inches of soil.
	Mole Crickets	1 qt. per acre	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	3-4 qts. per acre	Broadcast just before planting and incorporate into the top 4-8 inches of soil.

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Crop	Pest	Rate	Remarks
Collards (cont.)	Aphids Diamondback Moths, Imported Cabbage- worms, Harlequin Cabbage- bugs, Corn Earworms	1/2-1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications.  Do not apply within 10 days of harvest or illegal residues may occur.
Cucumber	Cutworms	2-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 2-6 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leaf- miners, Thrips, Striped Cucumber Beetles, Melonworms	1 pt. per acre	Apply as insects occur. Repeat application as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant leafminers.
Endive (Esaca- role)	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate into the top 2-4 inches of soil.
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before planting or transplanting when insects are present or expected. Incorpo- rate 1-2 inches into soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting. Incorporate 4-8 inches into soil
	Aphids, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications.  Do not apply within 10 days of harvest.  NOTE: Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Remarks
Ginseng	Leaf-hoppers, Aphids, Lygus Bugs, Flea Beetles, Jumping Lice	3/4-1 pt. per acre	<p>NOTES:</p> <ol style="list-style-type: none"> <li>1. <u>Apply only to ginseng which will not be harvested for 12 months.</u></li> <li>2. Do not apply during flowering of three or four year old crops.</li> <li>3. Do not graze treated area or feed treated forage to livestock.</li> </ol> <p>Spray when insects first appear and repeat at 7 to 14 day intervals. For heavy insect infestations, use 1 pt. per acre. Apply in 10-100 gallons of water per acre.</p>
Kale	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate into the top 4-6 inches of soil.
	Mole Crickets	1 qt. per acre	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	3-4 qts. per acre	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 pt. per acre	<p>Apply as insects occur. Repeat application 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>

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Crop	Pest	Rate	Remarks
Lettuce	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate into the top 2-4 inches of soil.
	Mole Crickets	1 qt. per acre	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)*	3-4 qts. per acre	Broadcast just before planting. Incorporate into top 4-8 inches of soil.  *The high rate will suppress garden symphylan populations.
	Aphids, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications.  Do not apply within 10 days of harvest.  NOTE: Diazinon will not control organophosphate-resistant leafminers.
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians, and Hybrids of these)	Cutworms	2-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 2-6 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Mites	1/2-1 1/2 pts. per acre	Apply as insects occur. Repeat application as necessary every 7 days. Do not make more than 5 application per season. Do not apply within 3 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant leafminers.

32452

Crop	Pest	Rate	Remarks
Mustard	Root Maggots	2-3 qts. per acre	Broadcast before planting or transplanting. Incorporate into the top 3-4 inches of soil.
		4-8 ozs. in 50 gallons of water	<p>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.</p> <p>NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.</p>
	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate into the top 4-6 inches of soil.
	Mole Crickets	1 qt. per acre	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 Garden Symphylans (Centipedes)*	3-4 qts. per acre	<p>Broadcast just before planting and incorporate into the top 4-8 inches of soil.</p> <p>*The high rate will suppress garden symphylan populations.</p>
	Aphids, Diamondback Moth Imported Cabbage-worms, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>

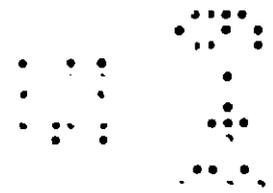
2355

Crop	Pest	Rate	Remarks
Onions (Green & Bulb)	Onion Maggots	2-4 qts. per acre	<p>Broadcast application: Broadcast just before planting and mix into the top 3-4 inches of soil by disking, harrowing, or other suitable means.</p> <p>NOTE: Diazinon may not control organophosphate-resistant onion maggots.</p>
		1 qt. per acre	<p>Furrow application: At planting, apply diazinon in sufficient water to drench the seed furrow.</p> <p>NOTE: Diazinon may not control organophosphate-resistant onion maggots.</p>
	Onion Thrips	1 pt. per acre	<p>Apply as thrips appear. Repeat application in 7 days if necessary. Do not make more than 3 applications per season.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p>
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Work into top 4-8 inches of soil immediately after application.
Parsley	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate into the top 2-4 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting. Incorporate into the top 4-8 inches of soil.
Parsnips	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application 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>

3455

Crop	Pest	Rate	Remarks
Peas (succulent only)	Cutworms, Garden Symphylans (Centi- pedes)*	2-4 qts. per acre	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.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate into soil 4-8 inches.
	Aphids, Leafminers	3/4-1 pt. per acre	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.
Peppers	Cutworms	2-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 2-6 inches of soil.
	Mole Crickets	1 qt. per acre	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	3-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leaf- miners	1/2 pt. per acre	Apply as insects appear. Repeat application after 7 days if necessary. Do not make more than 5 applications per season Do not apply within 5 days of harvest or illegal residues may occur

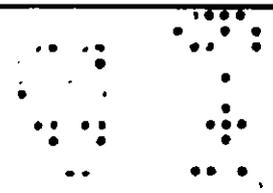
Crop	Pest	Rate	Remarks
Potatoes NOTE: Do not use on commercially grown potatoes which will be hand-harvested.	Cutworms (Surface & Subterranean)	2-4 qts. per acre	Just before planting, broadcast, and incorporate immediately into the top 4-6 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast prior to planting and immediately incorporate into the top 4-8 inches of soil.
	Southern Potato Wireworms (Southeastern U.S.)	2-4 qts. per acre	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.
	Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers	1/2-3/4 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant leafminers.
	Banded Cucumber Beetles, Leafhoppers, Southern Armyworms	3/4-1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.



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Crop	Pest	Rate	Remarks
Radish	Root Maggots	2 qts. per acre	Mix in 100 gallons 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 (Centipedes), * Cutworms, Wireworms	4 qts. per acre	Broadcast just before planting. Incorporate into soil 4-6 inches.  *This application will only suppress garden symphylan populations.
	Mole Crickets	1 qt. per acre	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 pt. 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 10 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant leafminers.
Spinach	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate 2-4 inches to control cutworms.
	Wireworms	3-4 qts. per acre	Broadcast just before planting. Incorporate 4-8 inches.
	Aphids, Dipterous Leafminers	1/2-1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications.  Do not apply within 10 days of harvest.  NOTE: Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Remarks
Squash, Summer	Cutworms	2-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 2-6 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leaf- miners, Thrips, Striped Cucumber Beetles, Melonworms, Leaf hoppers, Mites	1/2-1 1/2 pts. per acre	Apply as insects occur. Repeat application as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant leafminers.
Squash, Winter	Cutworms	2-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 2-6 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leaf- miners, Thrips, Striped Cucumber Beetles, Melonworms, Leaf- hoppers, Mites	1/2-1 1/2 pts. per acre	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.



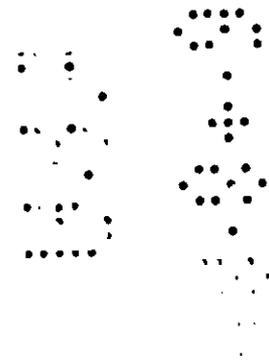
Crop	Pest	Rate	Remarks
Sweet Corn	Cutworms, Garden Symphylans (Centi- pedes)*	2-4 qts. per acre	Broadcast just prior to planting or when larvae first appear. Incorporate into the top 1-2 inches of soil. Do not apply after layby. For subterranean cutworms, apply just prior to planting and incorporate 3-6 inches.  *The high rate of application will help suppress garden symphylan populations.
	Seed Corn Maggots	2-4 qts. per acre	Broadcast just prior to planting and incorporate into the top 2 inches of soil immediately.
	Wireworms	3-4 qts. per acre	Broadcast before planting. Incorporate into the top 4-6 inches of soil.
	Corn Earworms	1-1 1/4 qts. per acre	Apply when silks first appear. Repeat application every 7 days up to a maximum of 5 applica- tions if necessary. Corn may be picked immediately following last application.  Forage may be fed to beef and dairy cattle and sheep.
	Corn Rootworm Adults	1/2-1 pt. per acre	Apply as insects occur. Repeat application in 7 days if neces- sary. 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.
	Corn Leaf Aphids	1-2 pts. per acre	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 applica- tions per season. Corn may be picked immediately following last application.  Forage may be fed to beef and dairy cattle and sheep.

Crop	Pest	Rate	Remarks
Sweet Corn (cont.)	Grass-hoppers, Mites, Flea-beetles	1 pt. per acre	Apply as insects occur. Repeat 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.
	Sap Beetles	2-2 1/2 pts. per acre	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	3-4 qts. per acre	Broadcast just prior to planting. Incorporate 4-8 inches into soil.
Swiss Chard	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate into top 2-4 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting. Incorporate into top 4-8 inches of soil.
	Aphids, Imported Cabbage-worms Diamondback Moths, Harlequin Cabbage-bugs	1/2-1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 12 days of harvest or illegal residues may occur.

400F

Crop	Pest	Rate	Remarks
Tomatoes	Cutworms, Garden Symphylans (Centipedes)*	2-4 qts. per acre	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	1 qt. per acre	Apply when insects are present. Apply 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	3-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2 pt. per acre	Apply as insects appear. Repeat application 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 Armyworms, Southern Armyworms, Beet Armyworms	3/4-1 pt. per acre	
	Vinegar Flies (Drosophila Spp.)	1/2-1 1/2 pts. per acre	
Turnips and Turnip Tops	Garden Symphylans (Centipedes)* Cutworms, Mole Crickets, Wireworms	4 qts. per acre	Broadcast just before planting. Incorporate into soil 4-6 inches.  *This application will only suppress garden symphylan populations.

Crop	Pest	Rate	Remarks
Turnips and Turnip Tops (cont.)	Mole Crickets	1 qt. per acre	Apply when insects are present or expected. Apply to plant beds 1-2 days prior to planting and incorporate 1-2 inches.
	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application 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>
Watermelon	Cutworms	2-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 2-6 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms	1/2-1 1/2 pts. per acre	<p>Apply as insects occur. Repeat application 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.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>



42002

Mushroom Houses

Mushroom Flies - (Phorids and Sciarids)

Mix 1/2 to 1 gallon 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 in beds or other spawning areas because illegal residues may result.

To treat wooden sides of beds, posts, doors, and door frames, after pasteurizing, mix 1/2 pint in 6 gallons of water and apply with a brush. Note: Do not treat compost or illegal residues may result.

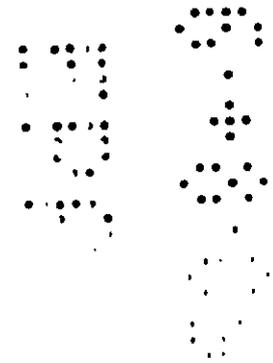
Field Crops

Soil and foliar applications of D·z·n diazinon AG500 should always be applied as a spray in sufficient water to ensure thorough coverage. For foliar applications, observe stated time intervals between last application and harvest, as well as intervals between applications and total number of applications that can be made per season.

Preharvest Interval (PHI\*) for Foliar Applications

Crop	PHI (Days)
Hops	14
Sugar Beets	7

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



43052

Crop	Pest	Rate	Remarks
Hops	Aphids, Mites	1 qt. per acre	Apply as pests occur. Repeat application, 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	3-4 qts. per acre	Broadcast just before planting. Incorporate into soil 4-6 inches.  Do not apply more than 4 qts. 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 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications.  Do not apply within 7 days of harvest.  Tops may be fed to beef and dairy animals.  NOTE: Diazinon will not control organophosphate-resistant leafminers.
	Grass-hoppers	1 pt. per acre	Apply as insects occur. Repeat application as necessary up to 5 times, with a minimum of 7 days between applications.  Do not apply within 7 days of harvest.  Tops may be fed to beef and dairy animals.

4404

Grassland Insects

Unless otherwise stated, D·z·n diazinon AG500 should always be applied as a spray in a minimum of 1 gallon of water per acre for aerial applications and in a minimum of 5 gallons of water per acre for ground applications.

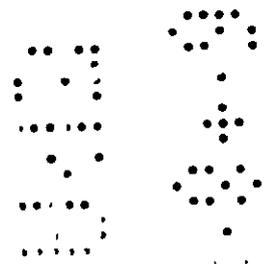
Ditch Banks, Roadsides, Wasteland, Noncrop Areas, Barrier Strips

Grasshoppers: Apply 3/4-1 pt. per acre in water or oil (minimum of 1 gallon of oil per acre) when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential.

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

Ornamental Insect Control

To control certain insects on 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:



Insects	Amount of D·z·n Diazinon AG500 to Use	
	Rate per 3 gallons of water	Rate per 100 gallons water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf-tiers, Privet Mites, Scale Crawlers (Cottonycushion, Lecanium, Pine Needle, San Jose, Soft Scale), Thrips, Twospotted Mites, Webworms, Whiteflies	1/2 fl. oz.*	1 pt.**
Apple-and Thorn Skeletonizers, Cotoneaster Webworms, Fall Webworms, Hemlock Cherm's, Oak Loopers, Obliquebanded Leaf-rollers, Pear Slugs, Tent Caterpillars	1 1/2 fl. ozs.*	3 pts.**

\* 1 fl. oz. = 2 tablespoons  
 \*\*16 fl. ozs. = 1 pint

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

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

4, 1, 2

Lawn Pest Control (Excluding Golf Courses and Sod Farms)

To control pests listed below, apply recommended rates. For control of 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 of sprays. If waterfowl, i.e., ducks, geese can be expected to enter the treated area after treatment (except spot treatments), water lawn with at least 0.25 inch water immediately after application, however stop watering before puddling occurs.

Pests	Rate/1,000 sq. ft.		Remarks
	D·z·n diazinon AG500	Water	
Lawn Chinch Bugs	2-3 fl. ozs.	3 gals.	Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns.
Ants, Armyworms, Clover Mites, Springtails (Collembola), Crickets,	2-3 fl. ozs.	3 gals.	Spot spray ant hills and wasp ground nest openings.

Continued...

Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Sod Webworms (Lawn Moths), Sowbugs	2-3 fl. ozs.	3 gals.	For frit flies, mow grass and water well before treat- ment but delay application until grass is dry.  For digger wasps, apply at dusk when wasps are not active.
Brown Dog Ticks, Bermudagrass Mites, Chiggers, Fleas, Leafhoppers	1 1/4 fl. oz.	3 gals.	Note: Do not apply to animals.  For brown dog ticks, spray grass and under shrub- bery, particularly near house.
Millipedes	3 fl. ozs.	3 gals.	
Rhodesgrass Scales	3 fl. ozs.	3 gals.	Apply when crawlers first emerge.

Billbugs, White Grubs (such as Japanese Beetle Larvae, European Chafer, Southern Chafer): Apply 3 fl. ozs. per 1,000 sq. ft. of lawn. For grub control make application any time between late July and early October. For billbug control apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect.

Hyperodes Weevil: Apply 3 fl. ozs. per 1,000 sq. ft. of grass. Treat problem areas in mid-April and again in mid-May.

Boxelder bugs: Spray bugs outside the home with 1 1/4-2 1/2 fl. ozs. (2 1/2-5 tablespoons) in 1 gal. water. At the same time, thoroughly spray around foundation, windows, doors, tree trunks, and into cracks and other places where the insects hide.

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 pesti-  
cide, spray mixture, or rinsate is a violation of federal law.  
If pesticide, spray mixture or rinsate cannot be disposed of by  
use according to label instructions, contact your State Pesti-  
cide or Environmental Control Agency, or the Hazardous Waste  
representative at the nearest EPA Regional Office for guidance.

47007

Container:

Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or incinerate, or, burn if allowed by state and local authorities. Stay out of smoke from burning container.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-334-9481 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 spray mist. Do not get in eyes, on skin, or on 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, pets, or livestock. Do not permit children or pets to go onto sprayed grass until spray has completely dried.

Food utensils such as measuring spoons should not be used for food purposes after use in measuring pesticides. Do not contaminate ornamental fish ponds.

Statement of Practical Treatment

If swallowed, call a physician immediately. DO NOT INDUCE VOMITING UNLESS NO OTHER TREATMENT IS AVAILABLE. Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting, give victim one or two glasses of water and insert finger in back of throat. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

If inhaled, remove victim to fresh air and apply artificial respiration if indicated.

If on skin, wash promptly with soap and water. Rinse thoroughly.

If in eyes, rinse eyes with plenty of water and call a physician immediately.

/Continued ...

42 of 62

Note to Physician: This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains a xylene range aromatic solvent which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

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.

Apply this product only as specified on this label.

Physical or Chemical Hazards

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

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

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Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, North Carolina 27419

CGA 1L128D

June 5, 1980  
Revised March 24, 1981  
Revised February 23, 1983  
March 11, 1985 - Incorporated  
EPA PR Notices 83-2 & 83-3,  
added new 2 2/1 gal. size,  
lower case "d" on diazinon.)  
April 29, 1985 - Generic  
revisions, lower turf rates,  
fire ants and avian toxicity  
precautions, AI change.)

Surf 2

August 8, 1985 - deleted forest use per Ground Water Data Call-In Option.

October 25, 1985 - deleted fire ants.

Accepted 12/10/85

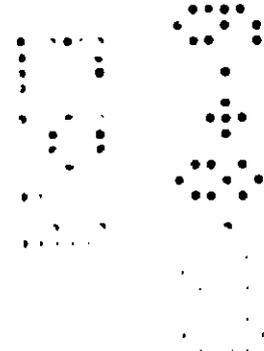
April 1986 - reduced turf rates, added precautions re: avian tox.

April 5, 1988 - added chemigation prohibition, deleted golf course/sod farm dfu and precautions under Env.

Hazards. Added do not use on golf courses and sod farms to front panel.

June 7, 1989 - deleted crops not supported under May 1, 1987, EPA Data Call-In; added spill statement; added Chinese broccoli, Chinese cabbage, and Chinese mustard. Deleted bermudagrass and rangeland; changed all references from "Corn" to "Sweet Corn;" deleted aerial application instructions for corn. Added "Do not use on commercially grown potatoes which will be hand-harvested." Revised precautionary statements, Note to Physician, Env. Hazards; revised directions for use to be supported by Data Call-In residue chem. program; added some pests; added Chinese radish, ginseng; many other revisions per EPA letter of April 26, 1989.

(LABELS-D.4 - DZNAG5H/B/F4)



51052

(Jug Label for 2 1/2 Gal.)

D·z·n® diazinon AG500

Insecticide

Recommended for Agricultural or Commercial Use Only

For control of certain insects on  
fruits, nuts, vegetables, field  
crops, lawns and ornamentals.

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

Active Ingredient:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-	
methyl-4-pyrimidinyl) phosphorothioate .....	48.0%
<u>Inert Ingredients*:</u>	<u>52.0%</u>
<u>Total:</u>	<u>100.0%</u>

\*Contains xylene range aromatic solvent

©1989 CIBA-GEIGY Corporation

2 1/2 Gallons  
U.S. Standard Measure

CIBA-GEIGY

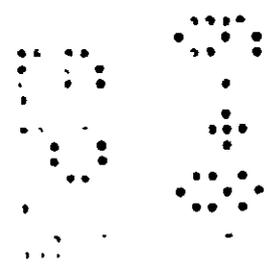
D·z·n diazinon AG500 contains 4 lbs.  
Diazinon per gal.

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

See additional precautionary statements  
inside booklet.

See directions for use inside booklet.



Soufisa

Aviso

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

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

Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, NC 27419

EPA Reg. No. 100-461  
EPA Est. 100-AL-1

Control No.

CGA 1L128E

(DZNAG5H/J/F4)

June 7, 1989

