

390737

CERTIFIED MAIL

JAN - 3 1991

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

Dear Ms. Bussey:

Subject: Amendment - Revise per Agency letter  
dated September 12, 1990  
D.z.n diazinon AG500  
EPA Reg. No. 100-461  
Your submission dated November 15, 1990

The labeling referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable and a stamped copy of the label is enclosed for your records. The following revisions should be made to the booklet when preparing the actual finished labeling:

- 1) In accordance with 40 CFR 156.10(i)(2)(x)(C), limitations regarding use on specific crops or in certain areas must appear in the Directions for Use. Accordingly, relocate the entire "General Information" heading and its associated text to appear in the Directions for Use, immediately after the paragraph that begins "FAILURE TO FOLLOW ...". [NOTE: In reality this section consists of general directions for use for this product. You have used the correct format on your latest label submission for D.z.n Lawn & Garden Insect Control, EPA Reg. No. 100-456.] Alternatively (and less preferable), relocate, at a minimum, the last two paragraphs of the current text (i.e., the aerial application and the greenhouse crops limitations) plus the barns, dwellings, and livestock prohibition sentences from the end of the first paragraph to the new location in the Directions for Use. In either case, the greenhouse food crop prohibition should appear only once (currently, it appears both in the first paragraph and as the last paragraph).
- 2) In addition to the reformatting indicated in item "1" above, the "Work Safety Rules", "Personal Protective Equipment", and "Re-entry Statement" should be relocated to appear before the "Chemigation" directions (after the "General Information"), since even this use involves handling the pesticide and potential exposure to the treated crop.

- 3) At the beginning of the Fruit and Nut Crops directions, there are several sentences under the minimum gallonage table which the Agency finds confusing because they apparently contradict the specific directions for use, i.e., they apparently direct the user to apply 3 to 6 times the amount of pesticide specified for a given crop. The following revision which involves consolidating the text from before and after the table, as well as attempted clarification (based on the Agency's interpretation of your current text), is suggested. Delete the first paragraph from the top of page 9 and replace the text that currently appears immediately after the heading "Fruit and Nut Crops" on page 8 with the following:

D.z.n diazinon AG500 may be applied using ground or aerial equipment (for certain crops) as specified in the table below. This table also indicates the minimum amount of water that can be used for the various methods of application. The rate of D.z.n diazinon AG500 for aerial spray or concentrated spray applied by ground equipment is based on a dilute full cover spray applied with conventional ground equipment at a rate of 300-600 gallons of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. If the "Rate" calls for 1 pt. of diazinon AG500 in 100 gallons of water, this amounts to 3-6 pts. of product per acre when applied at the usual dilute ground spray volumes of 300-600 gallons of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the Timing/Special Directions for individual crops.

- 4) Revise "Twospotted Spider Mites" to "Two-spotted Spider Mites" (as on your D.z.n Lawn & Garden Insect Control label) wherever this pest name appears (i.e., for the crops: apricots, caneberries, nectarines, peaches, and strawberries).
- 5) For the crop "Walnuts", there should be a line in the columns "Pest" and "Rate" dividing the pest groups "Aphids, Spider Mites" from the group "Codling Moths, Scale Crawlers, Walnut Caterpillars"
- 6) For the crop "Cranberries", are the rates 2 (or 3) qts. in 400 gallons of water per acre? The treatment area is not specified in the "Rate" for either pest.
- 7) For the crop "Pineapple" the gallonage should be relocated to appear in the "Rate" column. This entry would then read "2 qts. per acre in 200-500 gals. of water".

- 8) Is use of this product on lettuce limited to just head lettuce? Aerial application is clearly limited to head lettuce, but what about ground application? In the minimum gallowage table for application to vegetable crops, the entry is "Lettuce, Head", but in the specific directions for use the entry indicates "Lettuce".
- 9) Indicate suitable soil incorporation techniques in the "NOTES" for "Soil Incorporation" on page 23 (as you have done for the latest D.z.n diazinon 14G label). Specifically, add the following to the end of the first sentence immediately after the closing parenthesis mark: "using a rotary hoe cultivator, disk, harrow, or other suitable means".
- 10) The "Timing/Special Directions" for the crop "Chinese Radish" specifies to "mix in a minimum of 100 gals. of water " but the minimum gallowage table on page 20 indicates a minimum of 10 gallons per acre for this same crop. Which is correct? Is the 100 gallon recommendation current agricultural practice (as is apparently the case for the crop "Celery") rather than the minimum? If so, then deleting "a minimum of" would remedy this.
- 11) For the crop "Onions", delete "by disking, harrowing, or other suitable means", since this same information will appear on page 23 in the "NOTES: Soil Incorporation" for all crops (see item 9, above).
- 12) There should be a line in the "Crop" column separating the crop entries "Peppers" and "Potatoes". Also, the line in the "Crop" column separating the entries for the crops "Potatoes" and "Radishes" should be relocated downwards to appear after the conclusion of the Note about commercially grown potatoes.
- 13) It is noted that both the AG500 and 50W diazinon labels allow feeding of treated forage to beef and dairy cattle with no delay period while the 14G label (back when it allowed foliar application) specified a 10 day waiting period. Was this variation due to the difference in formulation (i.e., are the AG500 and 50W labels correct)?
- 14) For "Insect Control on Ornamentals", revise "Twospotted Spider Mites" to "Two-spotted Spider Mites".
- 15) In the "Precautions" under "Lawn Pest Control", revise the end of the fourth sentence to read "... birds and waterfowl."
- 16) In the listing of lawn pests, "Sowbugs (pill bugs)" should appear as "Sowbugs (Pill Bugs)", if you wish to consistently capitalize the first letter of every pest name.

- 17) In the "Nuisance Pests in Outside Areas" directions, consider consolidating the third paragraph into the second paragraph (after "where insects can hide."), since the prohibitions about use on animals and plants also pertain to the band and foundation treatment.
- 18) On the container label, in the last paragraph of the "Hazards to Humans and Domestic Animals", capitalize the reference to the section title "Work Safety Rules", as you have on the booklet label.

The Agency has completed its review of the product specific toxicology data submitted December 21, 1989 in response to the Diazinon Registration Standard. A copy of the Agency's review is enclosed for your records. In summary:

<u>Toxicity Study</u>	<u>MRID</u>	<u>Tox Category</u>	<u>Classification</u>
81-1 Acute Oral	41332609	III	GUIDELINE
81-2 Acute Dermal	41332610	III	GUIDELINE
81-3 Acute Inhalation	41332611	-	SUPPLEMENTARY
81-4 Acute Eye Irritation	41332612	III	GUIDELINE
81-5 Skin Irritation	41332613	-	SUPPLEMENTARY
81-6 Skin Sensitization	41332614	NOT A SENSITIZER	CORE MINIMUM

Based on the results of the acceptable submitted studies, the following label revisions are necessary:

- 1) The signal word for this product is CAUTION. This should appear on the front panel, in the precautionary statements, and in the re-entry statement.
- 2) The beginning of the Hazards to Humans and Domestic Animals should be revised as follows (the remainder to remain unchanged):

Harmful if swallowed, inhaled, or absorbed through skin. Causes eye injury. Wear goggles or safety glasses. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

- 3) Revise the Statement of Practical Treatment as follows:

IF SWALLOWED: Call a Physician or Poison Control Center immediately. DO NOT INDUCE VOMITING. Vomiting may cause aspiration pneumonia. Do not give anything by mouth if person is unconscious or convulsing.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

IF ON SKIN: Wash promptly with plenty of soap and water. Rinse thoroughly. Get medical attention.

IF IN EYES: Rinse eyes with plenty of water. Call a physician if irritation persists.

Further revision of the labeling may be required upon receipt and review of outstanding studies and information. In particular:

Acute Inhalation Study:

) The acute inhalation study is classified as supplementary. When conducting range studies, three dose levels must be used and spaced appropriately to produce a range of toxic effects and mortality rates. In the future, the laboratory may want to consider the use of range finding studies using single animals to help estimate the positioning of the test groups so that no more than three doses are necessary. Refer to the Agency's testing guidelines, 81-6.

Primary Skin Irritation:

) The primary skin irritation study is classified as supplementary. The study contains "other observations" listed in Table 1 on page 13, however, the study did not include a legend to explain what was meant by "other observations" and no explanation was provided in the Results and Discussion section of the study. Upon submission of an acceptable explanation, the study will be upgraded.

The label must bear the correct signal word and associated precautionary text based upon the product specific toxicology data required under the Diazinon Registration Standard. Based upon your previous actions in regard to other diazinon end-use products with an incomplete toxicology data base, the Agency realizes that you may not want to change the signal word and precautionary statements at this time, since the toxicology data base for this product is not complete (especially since the state of California will not accept a change in signal word without a complete acceptable toxicology data base), pending your contacting the Precautionary Review Section (regarding any comments about the new precautionary text and your estimate of a submission date for the outstanding data and clarifying information) and submitting an acceptable acute

inhalation study (and the necessary clarification for the primary skin irritation study), since further label revisions may be required when the Agency receives and reviews the required study and information. Hopefully, you will resolve all the toxicology issues early in 1991, since all the required revisions, including the revised signal word and precautionary text (as necessary) must be incorporated into the labeling prior to the August 1991 release for shipment deadline required under the Diazinon Registration Standard. You may choose to submit an interim typewritten label incorporating all the revisions except those related to unresolved toxicology issues (so that the final review will just be one of very selected areas of the label). As you are aware, your customers are attempting to follow your labels. Failure to rapidly finalize your labels may result in your customers being in the potential situation of printing supplies of labels with unsupported uses, incorrect signal words, and/or inaccurate precautionary text, having based them on a recently accepted, but now obsolete, Ciba-Geigy label. Since the Agency must review or re-review submitted labels using your master label at a given time, both the Agency and your customers will benefit from your finalizing all outstanding toxicology and labeling issues for your diazinon products, especially those products involving a change in signal word.

Sincerely yours,

George T. LaRocca  
 Product Manager (15)  
 Insecticide Rodenticide Branch  
 Registration Division (H7505C)

PS Form 3811, July 1989 447-845-11/A-2

<p><b>SENDER:</b> Complete items 1, 2, 3, and 4.          1. Your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available: Restricted Delivery, Signature Required, Registered Mail, and Insured Mail. (See instructions on the back of this card.)</p> <p><input type="checkbox"/> Restricted Delivery</p>	
<p>Ms. Carolyn Bussey          Ciba-Geigy Corporation          P.O. Box 18300          Greensboro, NC 27419</p>	
<p><b>DATE RECEIVED</b></p>	
<p>6. Signature - Agent  <i>George T. LaRocca</i></p>	<p>7. Date of Delivery          1-8-91</p>
<p>8. Addressee's Address (ONLY if requested and fee paid)</p>	

DOMESTIC RETURN RECEIPT

**RESTRICTED USE PESTICIDE**  
 Due to Avian and Aquatic Toxicity

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

(Booklet for 2 1/2 Gallon Container)

D·z·n® diazinon AG500  
Insecticide

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JAN - 3 1991

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

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

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

Active Ingredient:

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

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

See additional precautionary statements  
and directions for use inside booklet.

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 gals.  
U.S. Standard Measure

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.

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Conditions of Sale and Warranty

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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 plants. Do not use on food crops grown in greenhouses. 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.

Do not use on food crops grown in greenhouses.

DIRECTIONS FOR USE

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

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

CHEMIGATION

APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) - CRANBERRIES ONLY

D·z·n diazinon AG500 may be applied alone or in combination with other pesticides registered for application through sprinkler irrigation systems to cranberries. To insure compatibility, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is compatible.

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

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you

should contact State Extension Service specialists, equipment manufacturers or other experts.

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

Chemigation System Connected to Public Water Systems

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

Sprinkler Chemigation

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

pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

#### Operating Instructions

1. Determine the acreage to be treated by the sprinkler system.
2. Measure the appropriate amount of D·z·n diazinon AG500 needed to treat the acreage to be treated. Refer to the specific directions for use for cranberries for the application rate and the amount of water per acre.
3. Add the pre-measured D·z·n diazinon AG500 to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if D·z·n diazinon AG500 is tank mixed with other pesticides registered for sprinkler chemigation application to cranberries.
4. Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.
5. Engage the chemigation injection or venturi system to add the diazinon to the irrigation lines.
6. Continue to run irrigation system for a few minutes after supply tank is empty to allow material in the irrigation lines to reach the sprinkler heads furthest from the chemigation injection point.

#### Work Safety Rules

REPEATED EXPOSURES TO CHOLINESTERASE INHIBITORS SUCH AS ARE CONTAINED IN THIS PRODUCT MAY, WITHOUT WARNING, CAUSE PROLONGED SUSCEPTIBILITY TO VERY SMALL DOSES OF ANY CHOLINESTERASE INHIBITOR.

When handling D·z·n diazinon AG500, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See Practical Treatment section of this label. When handling this product, wear the personal protective equipment listed in the following section.

PERSONAL PROTECTIVE EQUIPMENT:

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

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

Reentry Statement

Twenty-four hours must elapse between the time of application to vegetables, fruits, nuts and field crops and the time a worker enters or is allowed to enter the treated area, unless the person entering the treated area is wearing the personal protective equipment listed above. For lawns, ornamentals, or non-crop areas, do not enter or allow entry into treated areas without personal protective equipment until sprays have dried.

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

In vegetables, fruit trees, or field crops, written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must inform workers of areas or fields that may not be entered without specific personal protective equipment for 24 hours after application, and appropriate actions to take in case of accidental exposure, as described under Statement of Practical Treatment in the Precautionary Statements on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:  
WARNING. Area treated with D·z·n diazinon AG500 on (date of application). Do not enter without appropriate personal protective equipment for 24 hours after application. In case of accidental exposure, flush eyes or skin with plenty of water. Call physician if irritation persists. Remove and wash contaminated clothing before reuse.

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

Fruit and Nut Crops

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

Crop	Air	Minimum gals./ Acre	Ground	Minimum gals./Acre	
				Dilute	Concentrate
Almonds*	Yes	20	Yes	100	20
Apricots	Yes	20	Yes	100	20
Blackberries**	No	-	Yes	100	
Boysenberries**	No	-	Yes	100	
Cherries	Yes	20	Yes	100	20
Cranberries	No	-	Yes	400	
Dewberries**	No	-	Yes	100	
Grapes	No	-	Yes	100	
Loganberries**	No	-	Yes	100	
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	100	
Strawberries	No	-	Yes	100	
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 gals. of water per acre. If directions call for 1 pt. of D·z·n diazinon AG500 in 100 gals. of water this amounts 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*	No. of Applications Per Season
Almonds	45	5
Apricots	10	5
Blackberries	7	5
Boysenberries	7	5
Cherries	10	5
Cranberries	7	5
Dewberries	7	5
Grapes	18, 7*	5
Loganberries	7	5
Nectarines	10	5
Peaches	20	5
Pineapples	7	8
Plums, Prunes	10	5
Raspberries	7	5
Strawberries	5	5
Walnuts	45	3

\*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.

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

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Almonds (CA only)	San Jose Scale, Parlatoria Scale	1-1 1/2 pts. + 2-3 gals. dor- mant oil or 1-1 1/2 gals. supe- rior type oil in 100 gals. of water	Apply as a dormant spray. do not apply more than 6 pts. of diazinon or 9 gals. of oil per acre.
	Spider Mites. Twig Borers	1-1 1/2 pts. in 100 gals. of water	Apply as infestations occur. Repeat applica- tion 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 gals. of water	Apply as infestations occur. Repeat applica- tion after 14 days if necessary. Do not apply more than 6 pts. of diazinon per acre per application or make make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Apricots (Contd)	Olive Scale Crawlers	1/2 pt. + 1 1/2 gals. of light medium hor- ticultural 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 gals. 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 applica- tions per season. Do not apply within 10 days of harvest or illegal resi- dues may occur.

CROP                      PEST                      RATE                      TIMING/SPECIAL DIRECTIONS

<p>Cane-berries CA, OR and WA only (Black-berries, Boysen-berries, Dew-berries, Logan-berries, asp-berries)</p>	<p>Leaf-hoppers, Thrips, Aphids, Twospotted Spider Mites, Raspberry Fruit-worms, Raspberry Sawflies,</p>	<p>1 qt. per acre</p>	<p>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.</p> <p>Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum.).</p> <p>For raspberry fruitworms make one application when blossom buds separate. Make a second application immediately before blossoms open.</p>
	<p>Dryberry Mites</p>	<p>1-2 qts. per acre</p>	<p>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.</p> <p>Apply in a minimum of 100 gals. of water per acre. Do not apply within 7 days of harvest or illegal residues may occur.</p>
	<p>Raspberry Crown Borers, (Raspberry Root Borers)</p>	<p>ts. per acre</p>	<p>Apply a single application in a minimum of 100 gals. of water per acre as a drench to the crown and lower canes in the Spring before buds break.</p>

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Cherries	Eyespotted Bud Moths, Fruit Tree Leaf-rollers	1 pt. in 100 gals. 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 gals.	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 application. Allow 7 days between application. Do not apply within 10 days of harvest or illegal residues may occur.
	Cherry Fruitflies	1/2-1 pt. in 100 gals.	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 gals.	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.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Cherries (Contd)	San Jose Scale Crawlers	1 pt. in 100 gals.	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.
	Cherry Rust Mites	1/2-1 pt. in 100 gals. of water	Apply to trees as a single supplemental spray after harvest. Do not apply more than 6 pts. of diazinon per acre per application.
Cran- berries	Blackheaded Fireworms ( <u>Rhopobota naevana</u> )	2 qts. in 400 gals. 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 gals. 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.
<p>Note: This product may be applied to cranberries through sprinkler irrigation. Refer to the section "Chemigation" for specific chemigation directions for use.</p>			

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Grapes	Pacific Spider Mites, Leaf-hoppers, Grape Berry Moths, Grape Leaf-folders, Omnivorous Leaf-rollers, Aphids, Spider Mites	1-2 pts. per acre in a minimum of 100 gals. of water	Apply as pest occurs 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 fl. ozs. per 100 gals. of water (300 gals. maximum 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.
Nectarines	Oriental Fruitmoths	1 pt. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight. 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	TIMING/SPECIAL DIRECTIONS
Nectarines (Contd)	Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers, Peach Twig Borers	1 pt. in 100 gals. 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.
Peaches	Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 pt. in 100 gals. 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 20 days of harvest or illegal residues may occur.
	Oriental Fruitmoths	1 pt. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight. 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.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Peaches (Contd)	Peach Twig Borers	1 pt. in 100 gals. of water	Apply as insects occur in May and June. Allow 7 days between application. 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 20 days of harvest or illegal residues may occur.
	Leafhoppers	1 pt. in 100 gals. of water	Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between 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 gals. 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 before fruit is harvested.
Pine-apples	Pineapple Mealybugs	2 qts. per acre	Apply in 200-500 gals. 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.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Plums	Brown Mites (Clover Mites), European Red Mites	1 pt. in 100 gals. 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 gals. of water	
Prunes	Brown Mites (Clover Mites), European Red Mites	1 pt. in 100 gals. of water	Apply as needed every 7 days up to a maximum of 4 applications per season. 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 gals. of water	
Straw-berries	Aphids, Twospotted Spider Mites	1 pt. in 100 gals. of water per 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.

CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Straw-berries (Contd)	Cyclamen Mites	1 qt. in 100 gals. of water per acre	Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat application after 7 days if necessary. Do not make more than 3 foliar applications per season. Do not apply within 5 days of harvest or illegal residues may occur. Application may be made to plants after harvest.
	Mole Crickets	1 qt. per acre	Broadcast in sufficient water to obtain even coverage 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 gals. of water	Apply 200 gals. 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, Spider Mites  Codling Moths, Scale Crawlers, Walnut Cater- pillars	1 qt. per acre  3 qts. per acre	Apply as a foliar spray. Repeat application 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 applications in a minimum of 100 gals. of water per acre.

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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 certain crops as 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.	OR	Min. Gals.	Air Appl.	Min.
		Gals. /Acre		/1,000 Sq. Ft.		Gals. /Acre
Beans (Lima, Pole and Snap) (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	-
Casab's	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 (CA, FL 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, Head	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	-
Radishes	Yes	10		2	No	-
Spinach	Yes	10		2	No	-

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Crop	Ground Appl.	Min. Gals. OR /Acre	Min. Gals. /1,000 Sq. Ft.	Air Appl.	Min. Gals. /Acre
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.

Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season. Do not apply to food crops grown in greenhouses.

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

Crop	PHI (Days)
Beans (Lima, Pole, Snap)	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	30
Honeydew Melons	3
Kale	10
Lettuce	10
Muskmelons	3
Mustard	10
Onions (Bulb and Green)	10
Parsnips	10
Peas	0
Peppers	5
Persian Melons	3
Potatoes (Irish)	35
Radishes	10
Spinach	7
Squash, Summer	7
Squash, Winter	3
Sweet Corn	0
Swiss Chard	12
Tomatoes	1
Turnip Tops	10
Watermelons	3

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

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

Crop	Pest	Rate	Timing/Special Directions
Beans, Lima (succu- lent only)	Leaf- hoppers, Spider Mites	1 pt. per acre	<p>Apply as pests occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.</p> <p>Do not apply within 7 days of harvest or illegal residues may occur.</p> <p>Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.</p> <p>NOTE: 1) To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.</p>
Beets, Red (Table)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil
	Dipterous Leafminers	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 14 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organo-phosphate-resistant leafminers.</p>

Crop	Pest	Rate	Timing/Special Directions
Broccoli	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 ozs. per 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 ozs.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.  NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.	

Crop	Pest	Rate	Timing/Special Directions
Broccoli (Contd)	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage worms, Dipterous Leafminers	1/2-1 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 5 days of harvest or ille- gal residues may occur.  NOTE: Diazinon will not control organophosphate- resistant leaf- miners.
Brussels Sprouts	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorpo- rate into the top 3-4 inches of soil.
		4-8 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 ozs.) per plant by hand or by tractor-mounted sprayer equipped with drop noz- zles 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                      Timing/Special Directions

Brussels Sprouts (Contd)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately 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, 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.

Crop	Pest	Rate	Timing/Special Directions
Cabbage	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorpo- rate into the top 3-4 inches of soil.
		4-8 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 ozs.) per plant by hand or by tractor-mounted sprayer equipped with drop noz- zles to direct spray to the base of the plant.  NOTE: Diazinon will not control organophosphate- resistant leaf- miners.

Crop	Pest	Rate	Timing/Special Directions
Cabbage (Contd)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpor- ation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or trans- planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	1/2-1 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 leaf- miners.
Carrots	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpor- ation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or trans- planting and immediately incorporate into the top 1-2 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Carrots (Contd)	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids	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 10 days of harvest or ille- gal residues may occur.
Cauli- flower	Root Maggots	2-3 qts. per acre	Apply to plant beds or fields just before sowing of seed or transplanting and immediately incorpo- rate into the top 3-4 inches of soil.
		4-8 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4-8 ozs.) per plant by hand or by tractor-mounted sprayer equipped with drop noz- zles 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	Timing/Special Directions
Cauliflower (Contd)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 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 5 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>
Celery	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Crop	Pest	Rate	Timing/Special Directions
Celery (Contd)	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetles, Cabbage Loopers	1 pt. per acre	Mix in 100 gals. of water to spray 1 acre (2 1/4 gals. for 1,000 sq. ft.). Apply as insects occur. Repeat application, as necessary every 7 days. Do not make more than 5 applica- tions per season.  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, every 7 days. Do not make more than 5 applications per season.  Do not apply within 10 days of harvest or ille- gal residues may occur.  NOTE: Diazinon will not control organophosphate- resistant leaf- miners.

Crop	Pest	Rate	Timing/Special Directions
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1/2-1 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 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 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 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Chinese Radish (Japanese Radish or Daikon) (FL and CA only)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	1 pt. per acre	Mix in a minimum of 100 gals. of water per acre and apply as a foliar spray as pests occur. Repeat application as necessary, every 14 days. Do not make more than 3 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Collards	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage-worms, Harlequin Cabbage-bugs, Corn Earworms	1/2-1 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 10 days of harvest or illegal residues may occur.
Cucumbers	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Cucumbers (Cont)	Aphids, Serpentine Leafminers, 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 leaf- miners.
Endive (Escarole)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or trans- planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 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 10 days of harvest.  NOTE: Diazinon will not control organophosphate- resistant leaf- miners.

Crop	Pest	Rate	Timing/Special Directions
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 gals. of water per acre. <u>Do not apply more than one 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.
Kale	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids Diamondback Moths, Imported Cabbage- worms, Harlequin bugs, Corn Earworms	1/2-1 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 10 days of harvest or illegal residues may occur.

Crop	Pest	Rate	Timing/Special Directions
Lettuce	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 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 10 days of harvest.  NOTE: Diazinon will not control organophosphate-resistant leafminers.

Cro.	Pest	Rate	Timing/Special Directions
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians, and Hybrids of these) and watermelons	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids Dipterous Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider 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 leaf- miners.

Crop	Pest	Rate	Timing/Special Directions
Mustard	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbage- worms	1/2-1 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 10 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Onions (Bulb and Green)	Onion Maggots	2-4 qts. per acre	Broadcast just before planting and mix into the top 3-4 inches of soil by disking, harrowing, or other suitable means.  NOTE: Diazinon will not control organophosphate- resistant onion maggots.
	Onion Thrips	1 pt. per acre	Apply as thrips appear. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season.  Do not apply within 10 days of harvest or ille- gal residues may occur.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Parsley	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpo- ration Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Parsnips	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 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 10 days of harvest or ille- gal residues may occur.  NOTE: Diazinon will not control organophosphate- resistant leaf- miners.
Peas (succu- lent only)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpo- ration Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Peas (succulent only) (Contd)	Aphids, Dipterous Leafminers	3/4-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season.</p> <p>Peas may be picked immediately after application.</p> <p>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.</p> <p>NOTES: 1) Diazinon will not control organophosphate-resistant leafminers. 2) To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.</p>
Peppers	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Peppers (Contd)	Aphids, Serpentine Leafminers	1/2-1 pt. per acre	<p>Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 5 days of harvest or illegal residues may occur.</p> <p>Note: Diazinon will not control organophosphate-resistant leafminers.</p>
Potatoes	Cutworms (Surface & Subter- ranean)	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Southern Potato Wireworms (South- eastern U.S.)	2-4 qts. per acre	For potatoes grown on mineral soils in the Southeast, apply before planting and immediately incorporate into the top 3-6 inches of soil depending on location of wireworms.

Crop	Pest	Rate	Timing/Special Directions
Potatoes (Contd)	Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers	1/2-3/4 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 35 days of harvest or ille- gal residues may occur.  NOTE: Diazinon will not control organophosphate- resistant leaf- miners.
	Banded Cucumber Beetles, Leaf- hoppers, Southern Armyworms	3/4-1 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 35 days of harvest or ille- gal residues may occur.
NOTE: Do not use on commercially grown potatoes which will be hand-harvested.			
Radishes	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpo- ration Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or trans- planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Radishes (Contd)	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 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 10 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate- resistant leaf- miners.
Spinach	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpor- ation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil
	Aphids, Dipterous Leafminers	1/2-1 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 10 days of harvest.  NOTE: Diazinon will not control organophosphate- resistant leaf- miners.

Crop	Pest	Rate	Timing/Special Directions
Squash, Summer	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider 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 leaf- miners.
Squash, Winter	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Squash, Winter (Contd)	Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider 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 3 days of harvest or illegal residues may occur.  NOTE: Diazinon will not control organophosphate- resistant leaf- miners.
Sweet Corn	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpor- ation Note.)
	Seed Corn Maggots	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast before planting and immediately incorpo- rate into the top 4-8 inches of soil.
	Corn Earworms	1-1 1/4 qts. per acre	Apply when silks first appear. Repeat applica- tion every 7 days if nec- essary. Do not make more than 5 applications per season. Corn may be picked immediately fol- lowing last application.  Forage may be fed to beef and dairy cattle and sheep.

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn (Contd)	Corn Rootworm Adults	1/2-1 pt. per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Corn may be picked imme- diately 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 cov- erage to the upper por- tions of the plants. Re- peat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Corn may be picked imme- diately following last application.  Forage may be fed to beef and dairy cattle and sheep.
	Grass- hoppers, Spider Mites, Flea Beetles	1 pt. per acre	Apply in sufficient water to provide complete cov- erage to the upper por- tions of the plants. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Corn may be picked imme- diately following last application.  Forage may be fed to beef and dairy cattle and sheep.

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn (Contd)	Sap Beetles	2-2 1/2 pts. per acre	<p>Consult local agricultural authorities for proper timing of sprays. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Corn may be picked immediately following last application.</p> <p>Forage may be fed to beef and dairy cattle and sheep.</p>
<p>Note: To protect bees, do not apply foliarly to corn during the pollen shed period.</p>			
Sweet Potatoes	Wireworms, Flea Beetles	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Swiss Chard	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Imported Cabbage-worms, Diamondback Moths, Harlequin Cabbage-bugs	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 12 days of harvest or illegal residues may occur.</p>

Crop Pest Rate Timing/Special Directions

Tomatoes	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2 pt. per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more 5 applications per season.
	Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms	3/4-1 pt. per acre	Do not apply within one day of harvest or illegal residues may occur. NOTE: 1) Diazinon will not control organophosphate-resistant leafminers.
	Vinegar Flies ( <i>Drosophila</i> spp.)	1/2-1 1/2 pts. per acre	

Crop	Pest	Rate	Timing/Special Directions
Turnips and Turnip Tops	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpor- ation Note.)
	Mole Cricketts	1 qt. per acre	Apply to plant beds or fields 1-2 days before sowing of seed or trans- planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 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 10 days of harvest or ille- gal residues may occur.  NOTE: Diazinon will not control organophosphate- resistant leaf- miners.

Mushroom Houses

Mushroom Flies - (Phorids and Sciarids)

Mix 1/2 to 1 gal. in 50 gals. 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 after spawning because illegal residues may result.

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

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.

Pre-harvest 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.

Crop	Pest	Rate	Timing/Special Directions
Hops	Aphids, Spider Mites	1 qt. per acre	Apply as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 5 applications per season.  Do not apply within 14 days of harvest.
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.
	Beet Leaf- hoppers, Dipterous Leafminers, Aphids	3/4-1 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.  NOTE: Diazinon will not control organophosphate- resistant leaf- miners.
	Grasshoppers	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.
NOTE: Tops may be fed to beef and dairy animals.			

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 gals. 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.

Insect Control on Ornamentals

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

Insects	Amount of D·z·n Diazinon AG500 to Use	
	Rate per 3 gals. of water	Rate per 100 gals. water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf tiers, Privet Mites, Scale Crawlers (Cottonycushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Twospotted Spider Mites, Juniper Webworms, Whiteflies	1/2 fl. oz.*	1 pt.**
Apple-and-Thorn Skeletonizers, Cotoneaster Webworms, Fall Webworms, Hemlock Chermes, 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 gals. of water (or 1 pt. 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 Golf Courses and Sod Farms)

To control pests listed below, apply recommended rates.

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 or 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.

Pest	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, Spider Mites, Clover Mites Springtails (Collembola), Crickets	2-3 fl. ozs.	3 gals.	Spot spray ant hills and wasp ground nest openings.
Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Leafhoppers, Sod Webworms (Lawn Moths), Sowbugs (pill bugs)	2-3 fl. ozs.	3 gals.	For frit flies, mow grass and water well before treatment but delay application until grass is dry.  For digger wasps, apply at dusk when wasps are not active.  For billbug control apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect.
Brown Dog Ticks, Chiggers, Fleas	3 fl. ozs.	3 gals.	NOTE: Do not apply to animals.  For brown dog ticks, spray grass and under shrubbery, particularly near house.

Pest	Rate/1,000 sq. ft.		Remarks
	D.z.n diazinon AG500	Water	
Hyperodes Weevils	3 fl. ozs.	3 gals.	Treat problem areas in mid-April and again in mid-May.
Millipedes	3 fl. ozs.	3 gals.	
Rhodesgrass Scales	3 fl. ozs.	3 gals.	Apply when crawlers first emerge.
White Grubs (Japanese Beetle Larvae, European Chafer, Southern Chafer)	3 fl. ozs.	3 gals.	Apply any time between late July and early October.

Nuisance Pests in Outside Areas

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

Mix 3 fl. oz. in 3 gals. of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls, entranceways, walks, garbage cans, tree trunks, and into cracks and other places where insects can hide. Do not treat animals. Do not treat plants (other than tree trunks) at this nuisance pest rate.

To prevent entry into houses, spray a five foot band of soil around the house next to the foundation and spray the foundation of the house to a height of 2-3 ft. Repeat application as necessary.

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 rinsate 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:

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 1-800-888-8372 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. Causes substantial, but temporary, eye damage. Do not get in eyes, on skin, or on clothing. Wear goggles or safety glasses. 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 contaminate ornamental fish ponds. Do not permit children or pets to go onto sprayed grass until spray has completely dried. For foliar application to agricultural crops whose culture involves hand labor, there is a 24-hour re-entry period (See Reentry Statement).

Food utensils such as measuring spoons should not be used for food purposes after use in measuring pesticides. Be sure to read and follow the "Work Safety Rules" that appear in this booklet.

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.

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 highly toxic to birds, fish and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. If waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), water lawn with at least 1/4 inch of water immediately after spraying this product, however, stop watering before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources.

Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

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

Physical or Chemical Hazards

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

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

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Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, North Carolina 27419

CGA 1L128E

Revised March 24, 1981  
Revised February 23, 1983  
March 11, 1985 - Incorporated EPA PR Notices 83-2 &

83-3, added new 2 1/2 gal. size, lower case "d" on diazinon.)

April 29, 1985 - Generic revisions, lower turf rates, fire ants and avian toxicity precautions, AI change.)

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.

Revised 8/9/89 - Additional minor label revisions per EPA's 6/30/89 letter.

Revised 9/21/89 - Additional minor, label revisions per

EPA's 6/30/89 letter and  
Reg. Std. changes

Revised 12/21/89 - added  
chemigation label lang.

Revised 1/12/90 - added  
chemigation referral state-  
ment to jug label and to  
specific cranberry dfus.,  
revised Env. Hazards per  
EPA's 12/4/89 letter, made  
changes per EPA's 11/6/89  
D.z.n 50W letter.

Accepted 5/10/90 - Reg. Std.  
changes

Revised 8/21/90 - Correc-  
tions to agree with printed  
label and additional minor  
changes requested in EPA  
phone call 8/21/90 - added  
greenhouse food crop use  
prohibition.

Revised 10/8/90 - corrected  
min. gals. for grapes and  
strawberries, other editor  
changes per EPA letter of  
9/12/90.

[GANNONC.LABELD]DZNAG5HB\_J\_F4  
11/14/90

**RESTRICTED USE PESTICIDE**

**Due to Avian and Aquatic Toxicity**

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

(Jug Label for 2 1/2 Gal.)

D·z·n® diazinon AG500

Insecticide

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-	
<del>methyl-4-pyrimidinyl) phosphorothioate</del>	48.0%
Inert Ingredients*:	52.0%
Total:	100.0%

\*Contains xylene range aromatic solvent

©1990 CIBA-GEIGY Corporation

2 1/2 gals.  
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

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

See directions for use inside booklet.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JAN - 3 1991

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

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

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Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

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

Physical or Chemical Hazards

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

Chemigation

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

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

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

Agricultural Division  
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