

FEB 13 1990

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

Subject: Amendments - Add chemigation/cranberries,
Delete crop - blueberries
Delete pest - root maggots/radishes
Revise per Agency letter dated June 30, 1989,
Revise per Diazinon Registration Standard
D-z-n Diazinon AG500
EPA Reg. No. 100-461
Your submission dated January 16, 1990

Dear Ms. Pussey:

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

For the jug label:

1. In the text of the Hazards to Humans and Domestic Animals, delete "Do not contaminate ornamental fish ponds" from the end of the second paragraph, since the same statement already appears in the middle of the first paragraph.
2. As the second sentence of the second paragraph of the Hazards to Humans and Domestic Animals, add "Be sure to read and follow the "Work Safety Rules" that appear in the attached booklet."

For the booklet label:

1. In the first paragraph of the "General Information" section, revise "... insect pests of agricultural crops and other plant pests." to "... insect pests of agricultural crops and other plants."
2. In the third paragraph of the Re-entry Statement, revise "... as described under Precautionary Statements on this label." to "... as described under Statement of Practical Treatment in the Precautionary Statements on this label."
3. In the introductory paragraph of the "Fruit and Nut Crops" section, add "(for certain crops)" after "...or aerial application equipment".

4. In the footnote under the "Fruit & Nut Crops" PHI table, add a hyphen so that the definition appears as "Pre-Harvest Interval".
5. In general, the listing of pests for a given crop appears to be alphabetical, although some of the listing which had recently been amended may no longer be so. You may wish to restore alphabetical pest listing throughout the label.
6. For the crops "almonds" and "walnuts" specify the type of mites controlled as you have done for a variety of other crops.
7. It is noted that you decreased the amount of water used for application to caneberries. Whereas previous labels had indicated use of 1 pint in 100 gallons of water, up to a maximum of 1 quart in 200 gallons of water, the current submission indicates 1 quart in a minimum of 100 gallons of water. The Agency assumes that this revision reflects your current residue testing program.
8. For the crop "grapes", you specify "Pacific spider mites" at the beginning of the pest listing and also show "mites" at the end of that same listing. Are the unspecified "mites" Pacific spider mites or some other type. If so, specify the additional types of mites.
9. There appears to be some confusion in the directions for nectarines. On earlier labels, peach twig borers were to be controlled using 1 pt. in 100 gals of water applied in May and June (as currently appears for this same pest for the crop "peaches"). The directions that call for use of summer oil would seem more appropriate to scale insect crawler control. Why are there two methods of application given for Olive Scale control? One calls for 1 rt. in 100 gals. of water and the other for 1/2 pt. in 1 1/2 gals. of light medium horticultural oil. With the addition of Parlatoria scale using the oil mixture and San Jose being included with the EC in water, the directions are split for seemingly similar pests. Also, the Timing/Special Directions section for use with oil indicates not to exceed 6 pints of diazinon or 6 gallons of summer oil or make more than 4 applications per season, but 4 applications would total 2 pints of diazinon and 6 gallons of oil. Is there an error in the text?
10. For the crop "peaches" many of the same questions from item "3" apply. Why are there two methods of application given for Olive Scale control? One calls for 1 pt. in 100 gals. of water (which also controls San Jose scale) and the other for 1/2 pt. in 1 1/2 gals. of light medium horticultural oil. Also, the Timing/Special Directions section for use with oil indicates not to exceed 6 pints of diazinon or 6 gallons of summer oil or make more than 4 applications per season, but 4 applications would total 2 pints of diazinon and 6 gallons of oil. Is there an error in the text?

11. Also for the crop "peaches", the directions for control of "White Peach Scale" indicate that this is a post-harvest application, yet there is a precaution about applying within 20 days of harvest to avoid residues. It might be construed that 20 days should elapse after harvest before spraying, although the connection to residues on the already harvested fruit would not appear possible. You might want to revise this precaution to "Do not apply before fruit is harvested."
12. For the crop "strawberries", revise the first rate to read "1 pt. in 100 gallons of water per acre".
13. In the vegetable crops ground/air rate table, revise the second sentence of the introductory text to read "D-z-n diazinon AG500 may be applied aerially only to certain crops as indicated in the following table."
14. For the vegetable crops PHI table, in both the heading and the footnote add a hyphen so that the term appears as "Pre-Harvest Interval".
15. For the crops "beans" and "peas", specify "dipterous leafminers" rather than "leafminers". For the crop "beans", it would be better to present the "Notes" in the "Timing/Special Directions" column, as you have done for the crop "peas". You may wish to be consistent in your presentation of livestock feeding limitations. They appear in the regular text of the "Timing/Special Directions" (along with the pre-harvest intervals) for beans, celery, peas, and sweet corn, but appear with the heading "Note" for the crop "beans, lima".
16. For the crop "lima beans", specify the type of mites controlled (presumably, spider mites). It would be better to present the "Notes" in the "Timing/Special Directions" column. Also, for dipterous leafminer control, it appears that the user could choose the 1 pint per acre rate under the heading "bean, lima" or 1 to 1 1/2 pints for this same crop and same pest under the heading "beans" (which specifies, among others, lima beans).
17. For the crops "beets", "carrots", and "turnips and turnip tops", the "Timing/Special Directions" column for the pest "root maggots" refers to application in the seed furrow. The Agency is under the impression that furrow application was not being supported for any of your diazinon products. Is this correct?
18. For the crop "melons", specify the type of "mites" controlled (presumably, spider mites).
19. For the crop "mustard", why do the "Timing/Special Directions" for the pest "root maggots" appear with introductory headings "Broadcast Application" and "Transplant Water". Similar directions for control of the same pest on other crops (broccoli, Brussel sprouts, cabbage, and cauliflower) do not include such introductory headings.

- 20. For the crop "onions", in addition to the atypical use of introductory headings for the "Timing/Special Directions" for root maggots (see item "19", above), is noted that the directions specify furrow application. The Agency is under the impression that furrow application was not being supported for any of your diazinon products. Is this correct?
- 21. For the crops "squash, summer", "squash, winter", and "sweet corn", specify the type of mites controlled (presumably, spider mites).
- 22. In the field crops PHI table, for consistency revise "Preharvest" and "Pre Harvest" to "Pre-Harvest".
- 23. For the crop "hops", specify the type of "mites".
- 24. In the introductory paragraph under the heading "Ornamental Insect Control", add "Try to hit underside of leaves and penetrate dense foliage."
- 25. In the listing of ornamental plants under the heading "Ornamental Insect Control", revise "Plum" to "Ornamental Plum". In the listing of pests in this same section, revise "Twospotted Mites" to "Twospotted Spider Mites" (as it appears in other locations on this label).
- 26. In the "Ornamental Insect Control" table, webworm control appears with two different rates and in three different locations. In the first insects grouping, "webworms" (unspecified) appears with the 1/2 fl. oz rate. Based upon your 25% EC label these are presumably Juniper Webworms and Mimosa Webworms. The second grouping specifies "Cotoneaster Webworms" and "Fall Webworms" at the 1 1/2 fl. oz. rate. Either consolidate the ~~webworm recommendations under the appropriate rate or specify the types~~ of webworms controlled at the lower rate if such differentiation is important. The currently separate paragraph on mimosa webworm control (at the 1/2 fl. oz. rate) could then appear as a "Note" or footnote associated with the pest name in the first pest grouping. The "Note" need only contain part of the current paragraph, since the rate already appears in the table.
- 27. In the "Lawn Pest Control" directions, the sentences: "For control of ants, ... to a height of 2-3 ft. Repeat application as necessary." give no application rate. Of three possible alternatives, it would be preferable to add a "Nuisance Pests in Outside Areas" section of the directions (under the "Boxelder bugs" paragraph), similar to that which appears on your 25% EC homeowner label. Secondly, you could relocate these directions into the "Remarks" section of the table where these same pests are listed (mostly in the second pest grouping). The third choice would be to add the appropriate dilution rate (presumably 2-3 fluid ounces in 3 gallons of water) to the current paragraph in its present location. It would be useful to add "(pillbugs)" after "sowbugs" wherever these directions are relocated, as well as in the current second pest grouping, where this pest name also occurs.

28. It is noted that you have deleted the recommendation to water thoroughly after treatment for control of lawn billbugs and white grubs. Such a recommendation still appears on your other diazinon lawn use products. Was this deletion inadvertent? If so, re-add the watering recommendation and revise the "Precautions" text of the "Lawn Pest Control" section, replacing the sentence "If waterfowl puddling occurs." with the following:

Where irrigation (watering) is recommended in the directions, or if waterfowl, i.e., ducks and 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.

29. In the directions for control of "Lawn Chinch Bugs", the Remark "Use higher rate for longer residual control and in lawns of dense growth, such as St. Augustine lawns." is no longer appropriate, since the previous 3-6 oz. rate does not now appear. Only one use rate is given, unless you intended the 3 oz side of the 2-3 oz range to be the "higher rate".

30. Based upon the rate used to control mites and leafhoppers on other sites on this label, the pests "Bermudagrass Mites" and "Leafhoppers" apparently should appear in the second pest grouping (at the 2-3 oz. rate), before "Clover Mites" and "Sod Webworms", respectively.

31. Why is the rate for control of "Brown Dog Ticks", "Chiggers", and "Fleas" (the remaining pests for the third group [see item "30", above]) so low (1 1/4 fl. oz.)? Your other lawn products (granulars) include these pests along with other specified lawn pests at a single rate. Even the introductory paragraph on nuisance pests around the outside of the house (item "27", above) includes these same pests with others listed in the second pest grouping (at the 2-3 fl. oz. rate).

32. In the text of the Hazards to Humans and Domestic Animals, delete "Do not contaminate ornamental fish ponds" from the end of the second paragraph, since the same statement already appears in the middle of the first paragraph.

33. As the second sentence of the second paragraph of the Hazards to Humans and Domestic Animals, add "Be sure to read and follow the "Work Safety Rules" that appear in the attached booklet."

34. Is the signal word for this product based only upon acute oral toxicity, as indicated by the current Hazards to Humans and Domestic Animals text? If the product was also placed in Toxicity Category II on the basis of eye irritation, then the precautionary text must be modified in accordance with the amended Diazinon Registration Standard, i.e., by adding "Causes substantial but temporary eye damage. Do not get into eyes or on clothing. Wear goggles or safety glasses.". It is understood that the dermal

sensitization precaution required under the Diazinon Registration Standard does not appear on the label for this particular product based upon the Agency's acceptance of a negative dermal sensitization study. You have indicated that Ciba-Geigy has recently submitted a current acute toxicity data package to support reregistration of this product. The precautionary language of the subject label may require future revision depending upon the results of the Agency's review of that product specific toxicology data.

A stamped copy of the label is enclosed for your records. Please submit five copies of the revised amended label prior to release for shipment under the amended label. Please refer to the Diazinon Registration Standard, as amended, for release for shipment and channels of trade dates for diazinon products bearing appropriately amended labels.

Sincerely yours,

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

RESTRICTED USE PESTICIDE
 Due to Avian and Aquatic Toxicity

For retail sale to and use 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:

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

FEB 13 1990

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

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%
<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 at end of booklet.

See 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 Gallons
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.

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.

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

CHEMIGATIONAPPLICATION 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.

BEST AVAILABLE COPY

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.

BEST AVAILABLE COPY

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

Re-entry Statement

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

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

In vegetables, fruit trees, or field crops, written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must inform workers of areas or fields that may not be entered without specific personal protective equipment for 24 hours after application, and appropriate actions to take in case of accidental exposure, as described under 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 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 Gallons/ Acre	Ground	Minimum Gallons/Acre	
				Dilute	Concentrate
Almonds*	Yes	20	Yes	100	20
Apricots	Yes	20	Yes	100	20
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 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*
Almonds	45
Apricots	10
Blackberries	7
Boysenberries	7
Cherries	10
Cranberries	7
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.

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 gallons dormant oil or 1-1 1/2 gallons superior type oil in 100 gallons of water	Apply as a dormant spray. Do not apply more than 6 pts. of diazinon or 9 gallons of oil per acre.
	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 horti- cultural 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 applica- tion. Allow 14 days between applications and do not make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.

Crop	Pest	Rate	Timing/Special Directions
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	1 qt. 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	Timing/Special Directions
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	Timing/Special Directions
Cherries (cont.)	Cherry Rust Mites	1/2-1 pt. in 100 gallons 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 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.
Note: This product may be applied to cranberries through sprinkler irrigation. Refer to the section "Chemigation" for specific chemigation directions for use.			
Grapes	Pacific Spider Mites, 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 not used. If a spreader-sticker is used, do not apply within 18 days of harvest or illegal residues may occur.

Crop	Pest	Rate	Timing/Special Directions
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	Timing/Special Directions
Peaches	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 20 days of harvest or illegal residues may occur.
	Olive Scale Crawlers	1/2 pt. + 1 1/2 gallons light medium horticultural oil in 100 gallons of water	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 20 days of harvest or illegal residues may occur.
	Oriental Fruit- moths	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 20 days of harvest or illegal residues may occur.
	Peach Twig Borers	1 pt. in 100 gallons 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.

Crop	Pest	Rate	Timing/Special Directions
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	Timing/Special Directions
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	
Straw- berries	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. Application may be made to plants after harvest. Do not make more than 3 foliar applications per season.
	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 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 Cater- pillars	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 aerielly 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	-
Radishes	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.

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	30
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	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 (Pole, Snap or Lima - succulent only)	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.
	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.

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.

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. NOTE: 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.
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Crop	Pest	Rate	Timing/Special Directions
Beans, Lima (succulent only) (cont)			

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.

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.
	Root Maggots	1 qt. in 50 gals. of water	Apply 80-100 gals. per acre (1 -1 1/3 gals. per 1,000 linear feet of row) in the seed furrow at planting time.
	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	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 14 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

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	<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 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, 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>

Crop	Pest	Rate	Timing/Special Directions
Brussels Sprouts	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. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 ozs.) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	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 incorporate into the top 3-4 inches of soil.
		4-8 ozs. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 ozs.) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	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	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Carrots	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.
	Root Maggots	1 qt. in 50 gals. of water	Apply 80-100 gals. per acre (1 -1 1/3 gals. per 1,000 linear feet of row) in the seed furrow at planting time.
	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 illegal residues may occur.

Crop	Pest	Rate	Timing/Special Directions
Cauliflower	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. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 ozs.) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	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
Cauliflower (cont.)	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.)
	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	<p>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, every 7 days. Do not make more than 5 applications per season.</p> <p>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.</p>
Chinese Broccoli	Aphids, Diamondback Moths, Imported Cabbage- worms, 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 10 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>

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	<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 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, every 7 days. Do not make more than 5 applications per season.</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)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	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, every 14 days. 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> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>
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.

Crop	Pest	Rate	Timing/Special Directions
Collards (cont.)	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 Incorpora- tion Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately 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 (Escarole)	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorpora- tion 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
Endive (Escarole) (cont.)	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.
Ginseng	Leaf-hoppers, 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 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.

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.
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.

Crop	Pest	Rate	Timing/Special Directions
Melons (Cont.)	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 application per season. Do not apply within 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Mustard	Root Maggots	2-3 qts. per acre	<u>Broadcast Application:</u> 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. in 50 gallons of water	<u>Transplant Water:</u> 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.
	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
Mustard (Cont.)	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.
Onions (Green & Bulb)	Onion Maggots	2-4 qts. per acre	Broadcast application: Broadcast just before planting and mix into the top 3-4 inches of soil by disking, harrowing, or other suitable means. NOTE: Diazinon will not control organophosphate-resistant onion maggots.
		1 qt. per acre	Furrow application: At planting, apply diazinon in sufficient water to drench the seed furrow. 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 illegal residues may occur.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately incorporate into 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 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
Parsnips	Aphids, Flea Beetles, 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 10 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>
Peas (succulent only)	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, 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>

Crop	Pest	Rate	Timing/Special Directions
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.
	Aphids, Serpentine Leaf-miners	1/2-1 pt. per acre	Apply as insects appear. 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 illegal residues may occur.
Potatoes	Cutworms (Surface & Subterranean)	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 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.
NOTE: Do not use on commercially grown potatoes which will be hand-harvested.			

Crop	Pest	Rate	Timing/Special Directions
Potatoes (cont)	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 illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
	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 illegal residues may occur.
Radishes	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
Radishes (cont)	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 leafminers.
Spinach	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 Leaf- miners	1/2-1 pt per acre	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more 5 applications per season. Do not apply within 10 days of harvest. NOTE: Diazinon will not control organophosphate-resistant leafminers.

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 Incorpora- tion Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately 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 before planting and immediately incorporate into the soil. (See Soil Incorpora- tion Note.)
	Wireworms	3-4 qts. per acre	Broadcast just before planting and immediately 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 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn	Cutworms	2-4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation 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 incorporate into the top 4-8 inches of soil.
	Corn Earworms	1-1 1/4 qts. per acre	Apply when silks first appear. Repeat application every 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.
	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 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 application, as neces- sary, every 7 days. 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.

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn (cont.)	Grass-hoppers, Mites, Flea-beetles	1 pt. per acre	Apply as insects occur. Repeat, as necessary, every 7 days. 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, as necessary, every 7 days. 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.

Note: To protect bees, do not apply foliarly to corn during the pollen shed period.

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	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 12 days of harvest or illegal residues may occur.

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 than 5 applications per season.
	Banded Cucumber Beetles, Fall Army- worms, Southern Armyworms, Beet Army- worms	3/4-1 pt. per acre	Do not apply within one day of harvest or illegal residues may occur.
	Vinegar Flies (<u>Drosophila</u> Spp.)	1/2-1 1/2 pts. per acre	
Turnips and Turnip Tops	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
Turnips and Turnip Tops (cont.)	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.
	Root Maggots	1 qt. per acre	Apply 80-100 gals. per acre (1-1 1/3 gals. per 1,000 linear feet of row) in the seed furrow at planting time.
	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 illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

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 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 gallons 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.

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.

Crop	Pest	Rate	Timing/Special Directions
Hops	Aphids, Mites	1 qt. per acre	<p>Apply as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 14 days of harvest.</p>
Sugar Beets	Wireworms	3-4 qts. per acre	<p>Broadcast just before planting. Incorporate into soil 4-6 inches.</p> <p>Do not apply more than 4 qts. of this product to the soil, per season.</p> <p>Tops may be fed to beef and dairy animals.</p>
	Beet Leaf-hoppers, Dipterous Leaf-miners, Aphids	3/4-1 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 7 days of harvest.</p> <p>Tops may be fed to beef and dairy animals.</p> <p>NOTE: Diazinon will not control organophosphate-resistant leafminers.</p>
	Grass-hoppers	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 7 days of harvest.</p> <p>Tops may be fed to beef and dairy animals.</p>

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 (Cottony-cushion, 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 Chermes, Oak Loopers, Oblique-banded 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.

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.

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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. 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, 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.

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.

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 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. 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 contaminate ornamental fish ponds. Do not permit children or pets to go onto sprayed grass until spray has completely dried. For foliar application to agricultural crops whose culture involves hand labor, there is a 24-hour re-entry period (See Re-entry Statement).

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.

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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. Where irrigation is recommended in the directions or if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), on lawns apply a minimum of 1/4 inch of water immediately after applying this product. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources.

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

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

Physical or Chemical Hazards

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

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CGA 1L128E

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.)
 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 chemi-
 gation 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 statement 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.

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