

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

APR 26 1989

Dear Ms. Bussey:

SUBJECT: Amendments: Revisions per Agency
letter dated November 23, 1988;
Revise application rates and specify
number of applications per season to
agree with DCI residue testing program;
Add blueberries, Chinese radish, ginseng,
red chicory, and mushroom houses
Add pests for broccoli, carrots, cauliflower,
Chinese cabbage, celery, sweet corn, collards,
cucumber, grapes, kale, melons, mustard,
nectarines, squash, sugar beets, sweet potatoes,
Swiss chard, tomatoes, turnips, and watermelon
Delete certain pests for grapes, pineapple,
and Swiss chard; Delete Chinese broccoli
D.z.n Diazinon AG500
EPA Reg. No. 100-461
Your submission dated April 10, 1989

The label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable provided the new crop additions are supported by the required amendment application and associated Offer to Pay form (as you agreed in our recent telephone conversation) and the following revisions are made prior to release for shipment under the amended label (it is assumed that all the text included in this submission but which was crossed out will be deleted):

- 1) As you are aware, the re-entry text section was designed to address the protection of farmworkers engaged in activities which substantial contact with treated crops. As such, the 24 hour re-entry period is that which should appear in the basic re-entry text. While the Agency does not object at this time to the inclusion of the additional text specifying the "until sprays have dried" limitation in the introductory sentence about lawns, ornamentals, or non-crop areas (whether

you decide to keep it in its proposed location or to separate it from the farmworker re-entry precautions), the paragraph about written or oral warnings, which pertains to farmworkers, should carry the 24 hour re-entry interval.

- 2) In the directions for use on blueberries, you may choose to revise "1 pt. per 100 gallons" to read "1 pt. in 100 gallons of water", to be consistent with your other crop directions (i.e., "-- in 100 gallons of water", and "-- per acre").
- 3) It is noted that you have added the pests "Omnivorous Leafroller", "Phylloxera", "Aphids", and "Mites" to the list of grape pests controlled. The Agency assumes that you have efficacy data in your possession to support all these additional pest claims at the label rates. Since the pest "Phylloxera" does not appear in the EPA Index for diazinon use on grapes, please submit such supporting data for this pest. Please correct the spelling of "Pacific" for the pest "Pacific Spider Mites". It is also noted that you have deleted the pest "Leafhoppers" from the list of controlled pests. Was this deletion intentional?
- 4) It is noted that you have added the pests "Peach Twig Borer" and "Parlatoria scale" to the list of pests controlled for nectarines using application with light horticultural oil. The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rate.
- 5) The new summary PHI table indicates "20,10" PHI interval for peaches, however, there are no specific directions for use mentioning any application with a 10 day PHI.
- 6) In the specific directions for use on plums, revise "Leafcurl Plum" to read "Leafcurl Plum Aphid".
- 7) In the directions for use on pineapples, you have deleted "Scales" from the "Pest" listing. Was this deletion intentional, presumably based upon the required application rate necessary to control this pest? It is also noted that previous labels bear the following restriction regarding use as forage:

"Pineapple forage and refuse may be fed to livestock 7 days following last application. Illegal residues may result if fed sooner than indicated."

No such limitation appears on the current AG500 submission. What is the reason for this deletion? The "new" D.z.n. 50W label also no longer carries this limitation. If you intend to prohibit use as forage, which previously had been permitted, then such a prohibition should appear in the pineapple use directions for each of your agricultural product labels which include this crop.

- 8) There are quite a number of discrepancies between the preharvest intervals presented in the new PHI summary table for vegetable crops and those appearing in the specific crop use directions (or appearing on those labels accepted on November 23, 1988). Specifically, following PHI revisions would appear appropriate:

beans (snap & lima) should be 7 days, rather than 5
 broccoli should be 5 days, rather than 7
 cauliflower should be 5 days, rather than 7
 Chinese broccoli [not on the PHI list] should be 10 days
 Chinese cabbage (bok choy) should be 10 days, rather than 7
 Chinese mustard (gai choy) should be 10 days, rather than 7
 Chinese radish (Daikon) should be 10 days, rather than 7
 ginseng should be 365 days, rather than 7
 lettuce should be 10 days, rather than 7
 parsley is preplant only, a 7 day PHI appears inappropriate
 peaches should be 20 days, rather than 20,10 (no 10 day PHI use)
 peas (foliar) show 7 days in table and 0 in text
 [the EPA Index shows 0 days thru 0.5 lb/A foliar application]
 potatoes should be 35 days, rather than 7
 red (table) beets should be 14 days, rather than 7
 red chicory is preplant only, a 7 day PHI appears inappropriate
 sweet corn should be 0 days, rather than 7
 Swiss chard should be 12 days, rather than 7

NOTE: The above PHI revisions also appear to be pertinent to the "new" D.z.n. 50W label. The Agency understands that these preharvest interval discrepancies will be addressed soon in the next round of revisions to standardize the directions for use for your diazinon ag products (i.e., before actual printing or release to customers as example labeling).

- 9) Based upon your indicated data support, the specific directions for use on beans should include the limitation "succulent only" along with the crop name. This should appear in the directions for use on "Beans (Pole, Snap, or Lima)" and "Beans, Lima".
- 10) It is noted that you have added the pest "Dipterous Leafminer" to the list of pests controlled for "Broccoli". The Agency assumes that you have efficacy data in your possession to support this additional pest claim at the label rate.
- 11) The crop "Chinese broccoli" appears to have been deleted. Was this intentional? If not, then appropriate directions for use should appear, together with an appropriate PHI in the new PHI summary table. A 10 day PHI was indicated on the label accepted by the Agency on November 23, 1988.
- 12) The new summary table includes the new crop "Chinese radish" with a 7 day PHI. There are no specific directions for use appearing for

this crop (or the added name was too light to appear on the copy). There was a penciled-in addition "and Chinese radish" in the first subsection of the "radish" directions, but then this subsection was crossed out, presumably because it appears to be a duplicate of the same subsection appearing on the next page. It is assumed that you intend to add "Chinese radish" to "radish" with the same directions for use. Please note that the latest 40 CFR, Part 180.34 (f)(i)(A) refers to this crop, presumably Raphanus sativus, as "Japanese radish" or "Daikon". It is noted, however, that other agricultural texts do use the name "Japanese radish" or "Chinese radish" for "Daikon".

- 13) It is noted that you have added the pests "Root Maggots", "Cutworms", "Wireworms", and "Dipterous Leafminers" to the list of pests controlled for "Chinese cabbage". Were these additions intentional, or just an artifact of having combined: 1) foliar insect directions for cabbage, 2) soil insect directions for cabbage, and 3) foliar insect directions for Chinese cabbage, together with 4) a new claim for dipterous leafminers? If intentional, the Agency assumes that you have efficacy data in your possession to support all these additional pest claims at the label rates for this crop. Please note that "Chinese cabbage" includes both tight headed varieties, such as "Napa" (which would be covered by residue data on cabbage), and loose headed varieties such as "Bok choy" (which are not covered by residue data on cabbage, but could be covered by the Brassica leafy vegetable group tolerance residue data). Your current submission only specifies "Bok Choy" under "Chinese Cabbage". Is it your intention to specify the loose headed varieties only? Also, please be aware that your previous label indicated a 10 day PHI for Bok Choy and 7 day PHI for cabbage, however, these crops are now grouped together in the specific directions for use, but indicate only a 7 day PHI for aphid and caterpillar control for both crops. Separate PHI listing would appear appropriate in the specific directions for use text.
- 14) It is noted that you have added the pests "Root Maggots", "Cutworms", "Wireworms", "Aphids", "Diamondback Moths", "Imported Cabbageworms", and "Dipterous Leafminers" to the list of pests controlled for the crop "Mustard". Were these additions intentional, or just an artifact of having combined: 1) foliar insect directions for Chinese mustard, and 2) soil insect directions for mustard, together with 3) a new claim for dipterous leafminers? If the additions were intentional, the Agency assumes that you have efficacy data in your possession to support all these additional pest claims at the label rates for this crop.
- 15) It is noted that you have added the pest "Cutworms", "Mole Crickets", "Root Maggots", and "Flea Beetles" to the list of pests controlled for "Carrots". The Agency assumes that you have efficacy data in your possession to support all these additional pest claims at the label rate.

- 16) It is noted that you have added the pest "Dipterous Leafminer" to the list of pests controlled for "Cauliflower". The Agency assumes that you have efficacy data in your possession to support this additional pest claim at the label rate.
- 17) It is noted that you have added the pest "Cabbage Looper" to the list of pests controlled for "Celery". The Agency assumes that you have efficacy data in your possession to support this additional pest claim at the label rate.
- 18) It is noted that you have added the pest "Seed Corn Maggot" to the list of pests controlled for "Sweet Corn". Although this use had appeared on earlier labels, it was not included on the labeling accepted November 23, 1988. It is assumed the omission on the last accepted label was an oversight, and that you have efficacy data in your possession to support pest claim at the label rate.
- 19) It is noted that you have added the pest "Corn Earworm" to the list of pests controlled for "Collards". The Agency assumes that you have efficacy data in your possession to support this additional pest claim at the label rate.
- 20) It is noted that you have added the pests "Striped Cucumber Beetle" and "Melonworm" to the list of pests controlled for "Cucumber". The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rate. Please revise "Leafminers" to the previously claimed "Serpentine Leafminers".
- 21) Delete the directions for use on ginseng as a foliar spray to control aphids. As you are aware, the only currently accepted method of application is as a single broadcast application with incorporation to new or established beds. A 12 month preharvest interval is currently required for this use pattern.
- 22) It is noted that you have added the pest "Corn Earworm" to the list of pests controlled for "Kale". The Agency assumes that you have efficacy data in your possession to support this additional pest claim at the label rate.
- 23) It is noted that you have added the pests "Striped Cucumber Beetle" and "Melonworm" to the list of pests controlled for "Melons". The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rate. Please revise "Leafminers" to the previously claimed "Serpentine Leafminers".
- 24) In the directions for use on "Onions", specify "organophosphate resistant onion maggots" rather than just "resistant onion maggots".
- 25) Based upon your indicated data support, the specific directions for use on peas should include the limitation "succulent only" along with the crop name.

- 26) In the directions for use on "peppers", revise "Leafminers" to the previously claimed "Serpentine Leafminers".
- 27) In the directions for use on "potatoes", capitalize the first letter of the regional name "Southeast".
- 28) Does Ciba Geigy Corporation intend to develop and submit appropriate data to support the proposed use on red chicory?
- 29) It is noted that you have added the pests "Striped Cucumber Beetle" and "Melonworm" to the list of pests controlled for both "Summer Squash" and "Winter Squash". The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rate. Please revise "Leafminers" to the previously claimed "Serpentine Leafminers" for both of these crops.
- 30) It is noted that you have added the pests "Flea Beetles", "White Grubs", and "Southern Corn Rootworms" to the list of pests controlled for "Sweet Potatoes". The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rate.
- 31) It is noted that you have added the pests "Beet Armyworms" and "Pinworms" to the list of pests controlled for "Tomatoes". The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rates. Since the pest "Pinworms" does not appear in the EPA Index for diazinon use on tomatoes, please submit such supporting data for this pest.
- 32) It is noted that you have added the pests "Flea Beetles" and "Dipterous Leafminers" to the list of pests controlled for "Swiss Chard". The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rate. It is further noted that you have deleted the pests "Imported Cabbageworms", "Diamondback Moths", and "Harlequin Cabbage Bugs", which had appeared on the previous label when the crop listing specified "Collards, Kale, Swiss Chard, Turnip Tops".
- 33) It is noted that you have added the pests "Cutworms" and "Wireworms" to the list of pests controlled for "Turnips and Turnip Tops". The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rate.
- 34) It is noted that you have added the pests "Striped Cucumber Beetle" and "Melonworm" to the list of pests controlled for "Watermelon". The Agency assumes that you have efficacy data in your possession to support these additional pest claims at the label rate. Please revise "Leafminers" to the previously claimed "Serpentine Leafminers".
- 35) It is noted that you have added the pests "Beet Leafhopper", "Aphids", and "Dipterous Leafminer" to the list of pests controlled for "Sugar

Beets". Although these uses had appeared on earlier labels, they were not included on the labeling accepted November 23, 1988. It is assumed the omissions were an oversight, and that you have efficacy data in your possession to support the pest claims at the label rate.

- 36) The added crop directions for use "Mushroom Houses" would be more appropriate in the directions for use on vegetables section rather than under the heading "Ornamental Insect Control". The Agency assumes that Ciba Geigy Corporation will be relying on data to be developed and submitted by IR-4.

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

NOTE: Acceptance of the subject product label at this time does not relieve you of the responsibility to submit revised labeling, including (among other requirements) Restricted Use classification, as required by the December 1988 Diazinon Registration Standard within the timeframe specified in that document.

NOTE: Many of the revisions detailed also appear to be pertinent to the "new" D.z.n. 50W label, and also presumably to the "new" 14 G label, which you will be submitting soon. The Agency understands that it is Ciba Geigy's intent to standardize the directions for use for your diazinon ag products before actual printing or release to customers as example labeling.

Sincerely yours,

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

(Booklet for 2 1/2 Gallon Container)

D·z·n® diazinon AG500

Insecticide

For Agricultural or Commercial Use Only

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

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

ACCEPTED
with COMMENTS
by EPA Letter Dated

APR 26 1989

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

100-461

Active Ingredient:

Diazinon: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidin-yl) phosphorothioate 48.0%

Inert Ingredients:* 52.0%

Total: 100.0%

* Contains xylene range aromatic solvent

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

KEEP OUT OF REACH OF CHILDREN

WARNING

See additional precautionary statements at end of booklet.

See directions for use inside booklet.

AVISO

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

EPA Reg. No. 100-461

EPA Est. 100-AL-1

CIBA-GEIGY

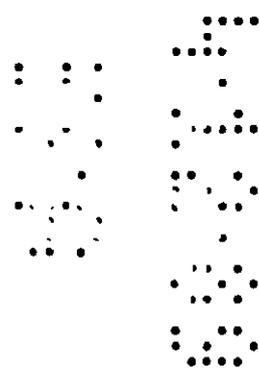
D·z·n® trademark of CIBA-GEIGY for diazinon

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Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA 1L128D E

2 1/2 Gallons
U.S. Standard Measure



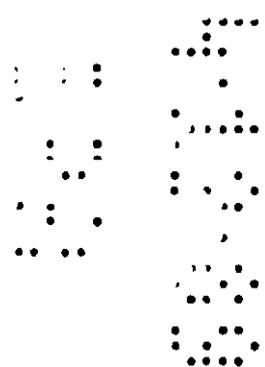
DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

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

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

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 aerially to head lettuce, tomatoes, ~~pome-fruits, stone-fruits~~, almonds, and walnuts only.
apples pears, drupes, nectarines, plums, cherries, Sprickets.
Drupes

DIRECTIONS FOR USE

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

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

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

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

Reentry Statement

~~Do not~~ ^{Do not} enter treated areas without protective clothing until sprays have dried. Protective clothing includes at least a hat or other suitable head covering, a long-sleeved shirt and long legged trousers or a coverall type garment (all of closely woven fabric covering the body including arms and legs), ^{.....} socks and shoes.
^{.....}

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

24 hours must elapse ^{between the time of application} before a worker in vegetables, fruits, and field crops and the time a worker enters the treated area without protective clothing to engage in any activity which requires substantial contact with treated foliage. For lawns, and ornamentals, or non-crop areas, ~~24~~

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must inform workers of areas or fields that may not be entered without specific protective clothing until sprays have dried, and appropriate actions to take in case of accidental exposure, as described under Precautionary Statements on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: **WARNING.** Area treated with D·z·n diazinon AG500 on (date of application). Do not enter without appropriate protective clothing until ~~sprays have dried~~. 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 ^{time} *(date based on intervals stated above)*

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

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Fruit and Nut Crops

Note: Unless otherwise stated, the following rates should be applied as a dilute full cover spray.

Almonds (CA only)

Mites, Twig Borers: Apply 1-1 1/2 pts. per 100 gals. of water.

Parlatoria Scales, San Jose Scales: Mix 1-1 1/2 pts. D·z·n diazinon AG500 plus 2-3 gals. dormant oil per 100 gals. of water and apply as a dormant spray.

Almond hulls may be used for feed for livestock.

Apricots

Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers: Mix 1 pt. per 100 gals. of water. Apply when aphids, mites, and scale crawlers first appear.

Olive Scale Crawlers: Mix 1/2 pt. D·z·n diazinon AG500 plus 1 1/2 gals. of light medium horticultural oil per 100 gals. of water. Apply when scale crawlers are present.

Apricot Mealybugs: Mix 1 pt. per 100 gals. of water. Apply as a cover spray from petal fall to June.

Do not apply within 10 days of harvest or illegal residues may result.

Caneberries (WA, CA, OR only)

Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries

Leafhoppers, Thrips, Aphids, Twospotted Mites, Raspberry Sawflies: Apply 2 pts. per acre in a minimum of 100 gals. of water.

Raspberry Fruitworms: Apply at the above rates when blossom buds separate and repeat application immediately before blossoms open.

Dryberry Mites: Apply 1-2 qts. per acre in a minimum of 100 gals. of water. Apply as a dormant spray in early spring when canes are still on the ground and buds are closed. Make a second application when the buds are well developed, but still closed.

Do not apply within 7 days of harvest or illegal residues may result.

Raspberry Crown Borers (Raspberry Root Borers): Apply 2 qts. per acre in a minimum of 100 gals. of water as a drench to the crown area and to the lower canes. Apply either in the spring before berries begin to form, or in the fall after harvest.

Cherries

Eyespotted Bud Moths, Fruittree Leafrollers: Mix 1 pt. per 100 gals. of water. Apply in cover sprays as necessary beginning with petal fall.

Cherry Fruit Flies: Mix 1/2-1 pt. per 100 gals. of water. Make 3 or 4 applications, beginning when adult cherry fruit flies begin to emerge and repeat at 10-day intervals.

Leafhoppers: Apply 1 pt. per 100 gals. of water in 3-5 applications beginning at petal fall and continuing through the growing season, or apply as infestations develop.

Black Cherry Aphids: Mix 1 pt. per 100 gals. of water. Apply as a cover spray when aphids appear and repeat after 10 days.

San Jose Scale Crawlers: Mix 1 pt. per 100 gals. of water. Apply during the pre-pink stage or when crawlers first appear.

Do not apply within 10 days of harvest or illegal residues may result.

Cherry Rust Mites: Mix 1/2-1 pt. per 100 gals. of water. Apply as a supplemental spray after harvest.

Cranberries

Blackheaded Fireworms (Rhopobota naevana): Apply 2 qts. in 400 gals. of water per acre.

Cranberry Fruitworms: Apply 3 qts. in 400 gals. of water per acre.

Do not apply within 7 days of harvest or illegal residues may result.

Grapes

Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leafhoppers: Apply 1-2 pts. per acre in a minimum of 100 gals. of water as a thorough cover spray. Do not apply within 18 days of harvest or illegal residues may result.

Drosophila spp.: Apply 12-18 fl. oz. per acre in a minimum of 100 gals. of water as a thorough cover spray, or apply when insects first appear. Make additional applications at weekly intervals as necessary.

Peaches, Nectarines

Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers: Mix 1 pt. per 100 gals. of water. Apply when aphids, mites, and scale crawlers first appear.

Olive Scale Crawlers: Mix 1/2 pt. of D.z.n diazinon AG500 plus 1 1/2 gals. light medium horticultural oil per 100 gals. of water. Apply when scale crawlers are present.

Oriental Fruit Moths: Mix 1 pt. per 100 gals. of water and apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult oriental fruit moth flight, if possible.

Peach Twig Borers: Mix 1 pt. per 100 gals. of water and apply to peaches in May and June.

Leafhoppers (Peaches only): Apply 1 pt. per 100 gals. of water in 3-5 applications beginning at petal fall and continuing through the growing season, or apply as infestations develop.

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White Peach Scale (Peaches only): As a post-harvest spray apply 1 1/2-2 pts. per 100 gals. of water timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestations, two applications may be necessary.

Do not apply to peaches within 20 days, or to nectarines within 10 days, of harvest or illegal residues may result.

Pineapple

Scales: Apply 5 qts. of D.z.n diazinon AG500 plus 2 gals. of light or medium horticultural oil in 500 gals. of water per acre to the vegetative slips on the plants following harvest of pineapple.

Mealybugs: Apply 2 qts. per acre in a minimum of 100 gals. of water. May be applied on day of harvest.

Pineapple forage and refuse may be fed to livestock 7 days following last application. Illegal residues may result if fed sooner than indicated.

Plums, Prunes

Brown Mites (Clover Mites), European Red Mites: Apply 1 pt. per 100 gals. of water.

Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids: Apply 1/2-1 pt. per 100 gals. of water.

Do not apply within 10 days of harvest or illegal residues may result.

Strawberries

Aphids, Twospotted Spider Mites: Apply 1 pt. per 100 gals. of water per acre.

Cyclamen Mites: Apply 1 qt. per 100 gals. of water per acre, directing spray to plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Make additional applications, if necessary, after harvest.

Mole Crickets: Broadcast 1 qt. per acre when insects are present. Apply 1-2 days before transplanting and immediately mix into the top 1-2 inches of soil.

Strawberry Leafrollers: Mix 3/4-1 pt. per 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 result.



Walnuts (CA only)

Aphids, Mites: Apply 1 qt. per acre as a foliage spray in a minimum of 100 gals. of water.

Codling Moths, Scale Crawlers, Walnut Caterpillars: Apply 3 qts. per acre as a foliage spray in a minimum of 100 gals. of water.

Do not apply after the husks open or illegal residues may result.

Vegetable Foliar Insects

Unless otherwise stated, foliar applications of D·z·n diazinon AG500 should always be applied to vegetable crops as a spray in a minimum of 2 gals. of water per acre for aerial applications and a minimum of 10 gals. of water per acre for ground applications.

Beans (Succulent only)

Pole Beans, Snap Beans, Lima Beans

Black Bean Aphids, Mexican Bean Beetles, Leafminers: Apply 1-1 1/2 pts. per acre.

Cucumber Beetles: Apply 3/4 pt. in 100 gals. of water per acre.

Do not apply within 7 days of bean harvest or illegal residues may result. 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 or illegal residues may result.

Lima Beans

Dipterous Leafminers, Leafhoppers, Mites: Apply 1 pt. per acre. Do not apply within 7 days of harvest or illegal residues may result. 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 or illegal residues may result.

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Fruit and Nut Crops

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

CROP	AIR	MINIMUM GPA* Gallons/Acre	GROUND	MINIMUM GPA Gallons/Acre	
				DILUTE	CONCENTRATE
Almonds*	Yes	20	Yes	100	20
Apricots	Yes	20	Yes	100	20
Blueberries	No	-	Yes	10	
Blackberr. s**	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
Pineapple	No	-	Yes	200	
Plums	Yes	20	Yes	100	20
Prunes	Yes	20	Yes	100	20
Raspberries**	No	-	Yes	10	
Strawberries	No	-	Yes	10	
Walnuts*	Yes	20	Yes	100	20

* ~~gallons per acre~~ CA only
 ** CA, CR, or WA only

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The rate of D·z·n diazinon AG500 for concentrate ground and aerial sprays is based on a dilute ground spray 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 per 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	Minimum **SPRAY INTERVAL (DAYS)	MAXIMUM NOT NUMBER APPLICATIONS PER SEASON	
			DORMANT	FOLIAR
Almonds	45	14	1	3
Apricots	10	7/14	1	4
Blueberries	7	14	1-	5
Blackberries	7	14	1	5
Boysenberries	7	14	1	5
Cherries	10	7	1	4
Cranberries	7	14	-	6
Dewberries	7	14	1	5
Grapes	18,7	7	-	5
Loganberries	7	14	1	5
Nectarines	10	7	1	4
Peaches	20,10	7	1	4
Pineapple	7	28	-	8
Plums, Prunes	10	7	1	4
Raspberries	7	14	1	5
Strawberries	5	7	-	3
Walnuts	45	14	1	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 each crop.

** For certain pests the spray interval may be longer, see specific directions for use for each crop and pest.

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CROP	PEST	RATE	REMARKS
Almonds (CHERRY)	San Jose Scale Parlatoria Scale	1-1 1/2 pts. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil per ⁿ 100 gallons of water	Do not apply more than 6 ^{lbs.} of diazinon or 9 gallons of oil per acre. Apply as a dormant spray.
	Mites Twig Borers	1-1 1/2 pts. per ⁿ 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 ^{lbs.} of diazinon per acre per application or make more than 3 applications per season. Do not apply within 45 days of harvest or illegal residues may occur. Almond hulls may be fed to livestock.
Apricots	Aphids Brown Mite (Clover Mite) Twospotted Spider Mite Olive Scale Crawlers San Jose Scale Crawlers	1 pt. per ⁿ 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 ^{lbs.} of diazinon per acre per application or make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
	Olive Scale Crawlers	1/2 pt. + 1 1/2 gals ^s of light medium horticultural oil per ⁿ 100 gals ^s of water	Apply when scale crawlers are present. Do not apply more than 6 ^{lbs.} of diazinon per acre per application or make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
	Apricot Mealybug	1 pt. per ⁿ 100 gallons of water	Apply as a cover spray from petal fall to June to a maximum of 6 ^{lbs.} per acre per application. Allow 14 days between applications and do not make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.

CROP	PEST	RATE	REMARKS
Blue-berries	Cranberry Fruitworm Cherry Fruitworm Blueberry Maggot Aphids Thrips Twospotted Mite	1 pt. per 100 gallons or 2 pts. per acre	Apply up to 200 gallons of spray per acre as pests occur or apply 2 pts. per acre in sufficient water for thorough coverage. Do not apply within 7 days of harvest or illegal residues may occur. <i>Repeat application after ⁷ days if necessary. Do not make more than 5 applications per season.</i>
Canberries CA, OR and WA only (Black-berries, Boysen-berries Dew-berries, Logan-berries, Rasp-berries)	Leafhoppers Thrips Aphids Twospotted Spider Mite Raspberry Sawfly Raspberry Fruitworm	2 pts. per acre	Apply as insects occur. Repeat applications after 14 days if necessary. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Apply in a minimum of 100 gallons per acre. For raspberry fruitworm make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Dryberry Mite	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.
	Raspberry Crown Borer (Raspberry Root Borer)	2 qts. per acre	<i>a single application</i> Apply in a minimum of 100 gallons of water per acre as a drench to the crown and lower canes in the spring before buds break.

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CROP	PEST	RATE ²	REMARKS
Cherries	Eyespotted Bud Moth Fruit Tree Leafroller	1 lb. ^{pt.} per 100 gallons of water	Apply as infestations occur beginning at petal fall. Repeat application after 7 days if necessary. Do not apply more than 6 lbs. ^{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. per 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 lbs. ^{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 Fruitfly	1/2-1 pt. per 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 lbs. ^{pts.} of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	Black Cherry Aphid	1 pt. per 100 gallons	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary. Do not apply more than 6 lbs. ^{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. per 100 gallons	Apply during the pre-pink stage or when crawlers first appear. Do not apply more than 6 lbs. ^{pts.} of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.

CROP	PEST	RATE	REMARKS
Cherries (con't.)	Cherry Rust Mites	1/2-1 pt. ¹¹ per 100 gallons of water	Apply ^{to trees} as a supplemental spray after harvest. Do not apply more than 6 lbs. of diazinon per acre per application.
Cran- berries	Blackheaded Fireworms (<i>Rhopobota</i> <i>naevana</i>)	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 if necessary after 14 days if necessary. A maximum of 4 applications per season is permitted. Do not apply within 7 days of harvest or illegal residues may occur.
Grapes	Pacific Spider Mites Grape Berry Moth Grape Leaffolder Omnivorous Leafroller Phylloxera Aphids Mites	1-2 pts. ¹⁰ per acre _{OK}	Apply as pest occur ^s 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.
	<i>Drosophila</i> spp.	6 fl. oz. ^s per 100 gallons (300 gallon maximum) per acre of water	Apply as a thorough cover spray when <i>Drosophila</i> 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

pest occurs.
Repeat
application
after 7
days, if
necessary.
Do not make
more than
5 applications
per season

CROP	PEST	RATE	REMARKS
Nectarines	Peach Twig Borer 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 lbs. 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 lbs. 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 Fruitmoth	1 pt. per 100 gallons of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	Peach Twig Borer	1 pt. per 100 gallons of water	Apply as insects occur in May and June. Allow 7 days between applications. Do not apply more than 6 lbs. of diazinon per acre per season or make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
	Aphids Brown Mite (Clover Mite) Twospotted Spider Mite Olive Scale Crawlers San Jose Scale Crawlers	1 pt. per 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 lbs. of diazinon per acre per application or make more than 4 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.

CROP	PEST	RATE	REMARKS
Peaches	Aphids Brown Mite (Clover Mite) Twospotted Spider Mite Olive Scale Crawlers San Jose Scale Crawlers	1 pt. ⁿ per 100 gallons of water	Apply as infestations occur. Repeat application after 14 days if necessary. Do not apply more than 6 lbs. ^{7.5} 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 horitcul-tural oil ⁿ per 100 gallons of water	Apply as insects occur. Do not apply more than 6 lbs. ^{7.5} 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 Fruitmoth	1 pt. ⁿ per 100 gallons of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight. Do not apply more than 6 lbs. ^{7.5} of diazinon per acre per application. Do not apply within 20 days of harvest or illegal residues may occur.
	Peach Twig Borer	1 pt. ⁿ per 100 gallons of water	Apply as insects occur in May and June. Allow 7 days between applications. Do not apply more than 6 lbs. ^{7.5} 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 /acre	REMARKS
Peaches (con't.)	Leafhoppers	1 lb. ^{per} 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 lbs. ^{of} diazinon per acre per application. Do not apply within 20 days of harvest or illegal residues may occur.
	White Peach Scale	1 1/2-2 pts. ^{per} 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.
Pineapple	Pineapple Mealybug	2yts. per 200 gallons of water 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.
Plums	Brown Mite Clover Mite European Red Mite	1 pt. ^{per} 100 gallons of water	Apply as needed every 7 days up to a maximum of 4 applications. Do not apply more than 6 lbs. ^{of} diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	Leafcurl Plum Mealy Plum Aphid Thistle Aphid	1/2-1 pt. ^{per} 100 gallons of water	

CROP	PEST	RATE	REMARKS
Prunes	Brown Mite Clover Mite European Red Mite	1 pt. ^{per} 100 gallons of water	Apply as needed every 7 days up to a maximum of 4 applications. Do not apply more than 6 lbs. ^{of} diazinon per acre per application. Do not apply within 10 days of harvest or illegal residues may occur.
	Leafcurl Plum Aphid Mealy Plum Aphid Thistle Aphid	1/2-1 pt. ^{per} 100 gallons of water	
Straw- berries	Aphids Twospotted Spider Mites	1 pt. ⁱⁿ 100 gallons of water per acre	Apply as pests occur. Repeat applications if necessary other 7 days. Do not make more than 3 applications per season. Do not apply within 5 days of harvest or illegal residues may occur.
	Cyclamen Mite	1 qt. in 100 gallons of water per acre	Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat applications after 7 days if necessary. Do not apply within 5 days of harvest or illegal residues may occur. Applications may be made after harvest. Do not make more than 3 foliar applications per season.
	Mole Crickets	1 qt. per acre	Broadcast when insects are present. Apply 1-2 days before transplanting and immediately incorporate in the top 1-2 inches of soil.
	Strawberry Leafroller	3/4-1 pt. ^{per} 100 gallons of <i>water</i>	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. as needed . Repeat applications in 14 days if necessary. Do not make more than 3 applications per season. Do not apply within 45 days of harvest or after husks open of illegal residues may occur. Make ground applications in a minimum of 100 gallons of water per acre.
	Codling Moth Scale Crawlers Walnut Cater- pillar	3 qts. per acre	

Broccoli, Chinese Broccoli, Cabbage, Bok Choy, Cauliflower, and Chinese Mustard

Aphids, Diamondback Moths, Imported Cabbageworms: Apply 1/2-1 pt. per acre. Applications at 7-10 day intervals will usually be required. Do not apply to broccoli or cauliflower within 5 days, to cabbage within 7 days or to Chinese broccoli, bok choy or Chinese mustard within 10 days of harvest because illegal residues may result.

Brussels Sprouts

Aphids, Diamondback Moths, Imported Cabbageworms: Apply 1 pt. per acre. Generally, applications at 7-10 day intervals will be required. Do not apply to brussels sprouts within 7 days of harvest or illegal residues may result.

Carrots

Aphids: Apply 1 pt. per acre. Do not apply within 10 days of harvest or illegal residues may result.

Celery

Aphids, Flea Beetles: Apply 1 pt. in 100 gals. of water per acre. Do not apply within 10 days of harvest or illegal residues may result. Plants should be market trimmed (tops removed) before being shipped or used or illegal residues may result. Tops should not be used for feed or food or illegal residues may result.

Collards, Kale, Swiss Chard, Turnip Tops

Aphids, Imported Cabbageworms, Diamondback Moths, Harlequin Cabbage Bugs: Apply 1/2-1 pt. per acre. Do not apply to collards, kale, or turnip tops within 10 days, or to Swiss Chard within 12 days of harvest or illegal residues may result.

Cucumbers

Aphids, Serpentine Leafminers, Thrips: Apply 1 pt. per acre. Do not apply within 7 days of harvest or illegal residues may result.

Lettuce, Endive

Aphids, Dipterous Leafminers: Apply 1/2-1 pt. per acre. Do not apply within 10 days of harvest or illegal residues may result.

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Melons, Squash

Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Muskmelons, Persian Melons, and hybrids of these; Watermelons and their hybrids; Summer and Winter Squash

Aphids, Leafhoppers, Mites: Apply 1-1 1/2 pts. per acre.

Serpentine Leafminers, Thrips: Apply 1/2-1 pt. per acre.

Do not apply to melons and winter squash within 3 days, or to summer squash within 7 days, of harvest or illegal residues may result.

Onions

Onion Thrips: Apply 1 pt. per acre. Do not apply within 10 days of harvest or illegal residues may result.

Peas (Succulent only)

Aphids, Leafminers: Apply 3/4-1 pt. per acre. Peas may be picked immediately. Pea vines and pea vine hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay or illegal residues may result.

Peppers

Aphids, Serpentine Leafminers: Apply 1/2 pt. per acre. Do not apply within 5 days of harvest or illegal residues may result.

Potatoes

Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers: Apply at the rate of 1/2-3/4 pt. per acre.

Banded Cucumber Beetles, Leafhoppers, Southern Armyworms: Apply 3/4-1 pt. per acre.

Do not apply within 35 days of harvest or illegal residues may result.

Radishes, Parsnips, Turnips

Aphids, Flea Beetles, Dipterous Leafminers: Apply 1/2-1 pt. per acre. Do not apply within 10 days of harvest or illegal residues may result.

Spinach, Beets

Aphids, Dipterous Leafminers: Apply 1/2-1 pt. per acre. Do not apply to spinach within 10 days, or to beets within 14 days, of harvest or illegal residues may result.

Squash (Summer and Winter)

See Melons and Squash section.

Sweet Corn

Corn Earworms: Apply 1-1 1/4 qts. per acre when silks first appear. Two or three repeat applications at 2-3 day intervals will usually be necessary. Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

Tomatoes

Aphids, Dipterous Leafminers: Apply 1/2 pt. per acre. To control leafminers, weekly applications are usually required.

Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms: Apply 3/4-1 pt. per acre.

Vinegar Flies (Drosophila spp.): Apply 1/2-1 1/2 pts. per acre. Weekly applications are usually required.

Do not apply within 1 day of harvest or illegal residues may result.

Vegetable Soil Insects

Unless otherwise stated, soil applications of D-z-n diazinon AG500 should always be applied to vegetable crops as a spray in a minimum of 5 gals. of water per acre for ground applications.

Cutworms (Surface and Subterranean)

Broccoli	Kale	Snap Beans (succu-
Brussels Sprouts	Lettuce	lent only)
Cabbage	Lima Beans (succu-	Spinach
Cantaloupes	lent only)	Summer Squash
Cauliflower	Muskmelons	Sweet Corn
Celery	Parsley	Swiss Chard
Collards	Peas	Tomatoes
Cucumbers	Peppers	Watermelons
Endive (Escarole)	Potatoes	Winter Squash

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Broadcast 2-4 qts. per acre just prior to planting. Work into the soil immediately, 2-3 inches for surface cutworms, 3-6 inches for subterranean cutworms.

Garden Symphylans (Centipedes)

Cabbage	Pole Beans (succulent only)	Snap Beans (succulent only)
Carrots	Radishes	Tomatoes
Sweet Corn	Red Beets	Turnips
Lettuce		
Peas (succulent only)		

Broadcast 10 qts. per acre just prior to planting. Immediately work into soil 4-8 inches. This preplant treatment will also control other soil insects: cutworms (surface and subterranean), mole crickets, root maggots, and wireworms.

Mole Crickets

Broccoli	Endive (Escarole)	Radishes
Brussels Sprouts	Kale	Tomatoes
Cabbage	Lettuce	Turnips
Cauliflower	Mustard	
Collards	Peppers	

Broadcast 1 qt. per acre when insects are present. Make application to plant beds or field 1-2 days prior to sowing of seed or transplanting and immediately work into soil 1-2 inches.

Onion Maggots

Onions

Furrow Application: Apply 1 qt. per acre in sufficient water to drench the seed furrow at planting time.

Broadcast Application: Broadcast 2-4 qts. per acre just prior to planting. Immediately work into soil 3-4 inches.

Root Maggots

Broccoli, Brussels Sprouts, Cabbage, Cauliflower:

Broadcast Application: Broadcast 2-3 qts. per acre and immediately work into the soil 3-4 inches, before seeding, either in the seedbed or in the field, or before transplanting.

Transplant water (drench) application: Mix 1/4-1/2 pt. in 50 gals. of transplant water, when 200-300 gals. of water are used per acre. May be applied at the rate of 1/2-1 cupful per plant, either by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.

Precaution: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.

Radishes: Mix 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

Broccoli	Endive (Escarole)	Potatoes
Brussels Sprouts	Kale	Snap Beans (succulent only)
Cabbage	Lettuce	Spinach
Cantaloupes	Lima Beans (succulent only)	Summer Squash
Carrots	Muskmelons	Sweet Corn
Cauliflower	Onions	Sweet Potatoes
Celery	Parsley	Swiss Chard
Collards	Peas (succulent only)	Tomatoes
Cucumbers	Peppers	Watermelons
		Winter Squash

Broadcast 3-4 qts. per acre prior to planting, and immediately work into soil 4-8 inches.

Potatoes: Broadcast 3-6 qts. per acre prior to planting. Immediately disk or harrow into soil 4-8 inches.

Southern Potato Wireworms (Southeastern U.S.)

Potatoes:

For use to control southern potato wireworms in potatoes grown on mineral soils in the Southeast, apply 2-4 qts. per acre as a soil treatment prior to planting, and immediately mix thoroughly by disking, or other suitable means into the top 3-6 inches of soil, depending on location of wireworms.

Vegetable Crops

D-z-n® diazinon AG500 should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. Aerial applications may only be applied to crops indicated in the following chart. *The specific amount of product to be used appears in the separate directions for use for these crops.*

CROP	GROUND APPLICATION	MIN. GALS.		AIR APPL.	MIN. GALS.
		MIN. OR GPA <i>Gallons/A</i>	PER 1000 SQ. FT.		
Broccoli	Yes	10	2	No	-
Brussels Sprouts	Yes	10	2	No	-
Bulb Onions	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	Yes ^{No}	5
Chinese Cabbage	Yes	10	2	No	-
Chinese Mustard	Yes	10	2	No	-
Chinese Radish	Yes	10	2	No	-
Collards	Yes	10	2	No	-
Crenshaw	Yes	5	1	No	-
Cucumbers	Yes	5	1	No	-
Endive	Yes	10	2	Yes ^{No}	5
Ginseng	Yes	10	2	No	-
Green Onions	Yes	10	2	No	-
Green Peas (^{succulent} only)	Yes	10	2	No	-
Honeydew Melons	Yes	5	1	No	-
Kale	Yes	10	2	No	-
Lettuce, leaf ^{heads}	Yes	10	2	Yes	5
Lima Beans (^{succulent} only)	Yes	10	2	No	-
Muskmelons	Yes	5	1	No	-
Mustard	Yes	10	2	No	-
Parsley	Yes	10	2	Yes ^{No}	5
Parsnips	Yes	10	2	No	-
Peppers	Yes	10	2	Yes ^{No}	5
Persian Melons	Yes	5	1	No	-
Pole Beans	Yes	10	2	No	-
* Potatoes (Irish)	Yes	10	2	No	-
Radish	Yes	10	2	No	-
Red (Table) Beets	Yes	10	2	No	-
Red Chicory	Yes	10	2	No	0
Snap Beans	Yes	10	2	No	-
Spinach	Yes	10	2	Yes ^{No}	5
Summer Squash	Yes	5	1	No	-
Sweet Corn	Yes	20	4	No	-
Sweet Potatoes	Yes	10	2	No	-
Swiss Chard	Yes	10	2	Yes ^{No}	5
Tomatoes	Yes	10	2	Yes	5
Turnips	Yes	10	2	No	-
Watermelons	Yes	5	1	No	-
Winter Squash	Yes	5	1	No	-

* Do not use on 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.

CROP	*PHI (DAYS)	SPRAY INTERVAL (DAYS)	MAX
			NO. APPLICATIONS PER SEASON
Broccoli	7	7	5
Brussels Sprouts	7	7	5
Bulb Onions	7 10	7 10	5 3
Cabbage	7	7	5
Cantaloupes	7 3	7 3	5 5
Carrots	7 10	7 7	5 5
Casabas	7 3	7 3	5 5
Cauliflower	7	7	5
Celery	7 10	7 7	5 5
Chinese Cabbage	7	7	5
Chinese Mustard	7	7	5
Chinese Radish	7	7	5
Collards	7 10	7 7	5 5
Crenshaws	7 3	7 3	5 5
Cucumbers	7 7	7 3	5 5
Endive	7 10	7 7	5 5
Ginseng	7	7	5
Green Onions	7 10	7 10	5 3
Green Peas	5 7	7 7	5 3
Honeydew Melons	7 3	7 3	5 5
Kale	7 10	7 7	5 5
Lettuce	7	7	5
Lima Beans	5	7	3
Muskmelons	7 3	7 3	5 5
Mustard	7 10	7 7	5 5
Parsley	7	7	5
Parsnips	7 10	7 7	5 5
Peppers	7 5	7 1	5 5
Persian Melons	7 3	7 3	5 5
Pole Beans	5 7	7 7	5 5
Potatoes (Irish)	7	7 7	5 5
Radish	7 10	7 7	5 5
Red (Table) Beets	7	7	5
Red Chicory	7	7	5
Snap Beans	5	7	3
Spinach	7	7	5
Summer Squash	7	3	5
Sweet Corn	7	7	5
Sweet Potatoes	7	7	5
Swiss Chard	7	7	5
Tomatoes	7	7 1	5 5
Turnips Teos	7 10	7 7	5 5
Watermelons	7 3	7 3	5 5
Winter Squash	7 3	7 3	5 5

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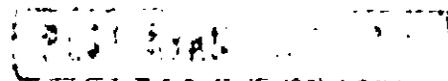
* PHI - Pre-Harvest interval or the number of days between the last application and harvest
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CROP	PEST	RATE	REMARKS
Beans (Pole, Snap or Lima)	Cutworms *Garden Symphylans (Centipedes)	2-4 qts. per Acre	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil. *The high rate of application will help suppress garden symphylan populations.
	Wireworms	3-4 qts. per Acre	Broadcast just prior to planting. Incorporate into soil 4-8 inches.
	Black Bean Aphid Mexican Bean Beetle 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 Beetle	3/4 pt. per Acre	Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. Make cucumber beetle application in 100 gallons of water per acre. NOTE: Diazinon will not control O-P resistant leafminers. <i>or for appropriate -</i>
Beans, Lima	Dipterous Leafminer Leafhoppers Mites	1 lb. per Acre	Apply as pests occur. Repeat application as necessary every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. NOTE: Diazinon will not control O-P resistant leafminers. <i>or for appropriate -</i>

CROP	PEST	RATE	REMARKS
Broccoli	Root Maggots	2-3 qts. per acre	Broadcast before planting or transplanting. Incorporate in the top 3-4 inches of soil.
		4-8 oz. per 50 gal.	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 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate in the top 4-6 inches of soil.
	Mole Crickets	1 qt. per acre	Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and incorporate in the top 4-8 inches of soil.
	Aphids Diamondback Moth Imported Cabbageworm Dipterous Leafminer	1/2-1 pt. per acre	Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 5 days of harvest or illegal residues may occur. NOTE: Diazinon will not control O-P resistant leafminers. <i>organophosphate</i>

CROP	PEST	RATE	REMARKS
Brussels Sprouts	Root Maggots	2-3 qts. per acre	Broadcast before planting or transplanting. Incorporate in ^{to} the top 3-4 inches of soil.
		4-8 oz. per 50 gal ^l <i>of water</i>	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 oz.) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate in ^{to} the top 4-6 inches of soil.
	Mole Crickets	1 qt. per acre	Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in ^{to} the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and incorporate in ^{to} the top 4-8 inches of soil.
	Aphids Diamondback Moth Imported Cabbageworm	1/2-1 pt. per acre	Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 7 days of harvest or illegal residues may occur.
Cabbage	Root Maggots	2-3 qts. per acre	Broadcast before planting or transplanting. Incorporate in the top 3-4 inches of soil.



CROP	PEST	RATE	REMARKS
		4-8 oz. per 50 gal. <i>of water</i>	<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 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.</p> <p>NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.</p>
	Cutworms *Garden Symphylans (Centipedes)	2-4 qts. per acre	<p>Broadcast just before planting. Incorporate in the top 4-6 inches of soil.</p> <p>*The high rate will suppress garden symphylan populations.</p>
	Mole Crickets	1 qt. per acre	<p>Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil.</p>
	Wireworms	3-4 qts. per acre	<p>Broadcast just before planting and incorporate in the top 4-8 inches of soil.</p>
	Aphids Diamondback Moth Imported Cabbageworm Dipterous Leafminer	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 7 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control of resistant leaf-miners.</p> <p><i>organophosphate-</i></p>

CROP	PEST	RATE	REMARKS
Chinese Cabbage (Bok Choy)	Root Maggots	2-3 qts. per acre	Broadcast before planting or transplanting. Incorporate in the top 3-4 inches of soil.
		4-8 oz. ^s ⁱⁿ per 50 gal. ^s <i>of water</i>	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 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate in the top 4-6 inches of soil.
	Mole Crickets	1 qt. per acre	Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and incorporate in the top 4-8 inches of soil.
	Aphids Diamondback Moth Imported Cabbageworm Dipterous Leafminer	1/2-1 pt. per acre	Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. NOTE: Diazinon will not control OP resistant leafminers. <i>organophosphate</i>
<i>Mustard and</i> Chinese Mustard (Gai Choy)	Root Maggots	2-3 qts. per acre	Broadcast before planting or transplanting. Incorporate in the top 3-4 inches of soil.

CROP	PEST	RATE	REMARKS
Chinese Mustard (cont.)		4-8 oz. ^{1"} per 50 gal. 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 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.</p> <p>NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.</p>
Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate in the top 4-6 inches of soil.	
Mole Crickets	1 qt. per acre	Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil.	
Wireworms	3-4 qts. per acre	Broadcast just before planting and incorporate in the top 4-8 inches of soil.	
Aphids, Diamondback Moth, Imported Cabbageworm, Dipterous Leafminer ^s	1/2-1 pt. per acre	<p>Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications.</p> <p>NOTE: Diazinon will not control of resistant leafminers: <i>Oranophobus</i> -</p>	

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Carrots	*Garden Symphylans (Centipedes), Cutworms, Mole Crickets, Root Maggots, Wireworms Aphids, Flea beetles	1-gallon per Acre 4 qts. 1 pt. per Acre	Broadcast just before planting. Incorporate into soil 4-6 inches. This application may be followed by 5 foliar applications. *This application will only suppress garden symphylan populations. <i>Apply as insects occur. Repeat application as necessary up to 5 times with a minimum of</i>
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7 days between applications
Do not apply within 10 days of harvest or illegal residues may occur.

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CROP	PEST	RATE	REMARKS
Cauliflower	Root Maggots	2-3 qts. per acre	Broadcast before planting or transplanting. Incorporate in the top 3-4 inches of soil.
		4-8 oz. ^s ⁱⁿ per 50 gal. ^s <i>of water</i>	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 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	2-4 qts. per acre	Broadcast just before planting. Incorporate in the top 4-6 inches of soil.
	Mole Crickets	1 qt. per acre	Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just before planting and incorporate in the top 4-8 inches of soil.
	Aphids Diamondback Moth Imported Cabbageworm Dipterous Leafminer	1/2-1 pt. per acre	Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 5 days of harvest or illegal residues may occur. NOTE: Diazinon will not control OP resistant leafminers. <i>organophosphate</i>

PEST	RATE	REMARKS
worm	2-4 qts. per Acre	Broadcast just before planting. Incorporate 2-4 inches to control cutworms.
worms	3-4 qts. per Acre	Broadcast just before planting. Incorporate 4-8 inches to control wireworms.
flies, beetles, lice, aphids	1/2 pt. per Acre	<p>Mix in 100 gallons of water to spray 1 acre (2 1/4 gallons for 1,000 sq. ft.)</p> <p>Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 10 days of harvest. Plants should be market trimmed (tops removed) before being shipped or used. Tops should not be used for food or feed.</p>

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		Incorporate 1 inches of soil
Mole Crickets	1 qt. per acre	Apply when in or expected. to plant beds planting and top 1-2 inches

CROP	PEST	RATE	R
	Wireworms	3-4 qts. per acre	Broadcast just and incorporate inches of soil
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin Cabbagebug, Corn Earworms	1/2-1 pt. per acre	Apply as insect applications a 5 times, with days between a Do not apply w harvest or ill occur.

CROP	PEST	RATE	REMARKS
Sweet Corn	Cutworms *Garden Symphylans (Centipedes)	2 - 4 qts. per acre	Broadcast just prior to planting or when larvae first appear. Incorporate in the top 1-2 inches of soil. Do not apply after layby. For subterranean cutworms, apply just prior to planting and incorporate 3-6 inches. *The high rate of application will help suppress garden symphylan populations.
	Seed Corn Maggots	2 - 4 qts. per acre	Broadcast just prior to planting and incorporate into the top 2 inches of soil immediately.
	Wireworms	3 - 4 qts. per acre	Broadcast before planting. Incorporate in the top 4-6 inches of soil.
	Corn Earworm	1 - 1 1/4 qts. per acre	Apply when silks first appear. Repeat application every 7 days up to a maximum of 5 applications if necessary. Do not treat within 7 days of harvest or illegal residues may occur. Forage may be fed to beef and dairy cattle and sheep.
	Corn Rootworm Adults	1/2 - 1 pt. per acre	Apply as insects occur. Repeat application in 7 days if necessary. Do not make more than 5 applications per season or apply within 7 days of harvest or illegal residues may occur. Forage may be fed to beef and dairy cattle and sheep.

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CROP	PEST	RATE	REMARKS
Sweet Corn	Corn Leaf Aphid	1 - 2 pts. per acre	Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat in 7 days if necessary. Do not make more than 5 applications per season. or apply within 7 days of harvest or illegal residues may occur. Forage may be fed to beef and dairy cattle and sheep.
	Grasshoppers, Mites, Fleabeetles	1 pt. per acre	Apply as insects occur. Repeat in 7 days if necessary. Do not make more than 5 applications per season. or apply within 7 days of harvest or illegal residues may occur. Forage may be fed to beef and dairy cattle and sheep.
	Sap Beetles	2 - 2 1/2 pts. per acre	Consult local agricultural authorities for proper timing of sprays. Repeat application in 7 days if necessary. Do not make more than 5 applications per season. or apply within 7 days of harvest or illegal residues may occur. Forage may be fed to beef and dairy cattle and sheep.

CROP	PEST	RATE	REMARKS
Cucumber	Cutworms	2-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil.
	Aphids Leafminers Thrips Striped Cucumber Beetle Melonworm	1 pt. per acre	Apply as insects occur. Repeat applications as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control O-P resistant leafminers.

(Escarole)

		planting. Incorporate 2-4 inches to control cutworms.
Mole Crickets	1 qt. per Acre	Apply to plant beds or fields 1-2 days before planting or transplanting when insects are present or expected. Incorporate 1-2 inches.
Wireworms	3 to 4 qts. per Acre	Broadcast just before planting. Incorporate 4-8 inches.

CROP	PEST	RATE	REMARKS
Endive (Escarole) on't.)	Aphids, Dipterous Leafminers	1/2-1 pt. per Acre	Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest. NOTE: Diazinon will not control θ-P resistant leafminers. <i>organophosphate</i>

Ginseng	*Garden Symphylans (Centipedes) Cutworms Mole Crickets Root Maggots Wireworms	8-lbs. per Acre -575. 2,000 per 1,000 sq. ft.	Broadcast just before planting. Incorporate into soil 4-5 inches. *This application will only suppress garden symphylan populations.
	Apnids	1-lb. per Acre 1.27 2,000 per 1,000 sq. ft.	Apply as insects occur. Repeat applications as necessary up to 5 times with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur.

		Incorporate in ^m the top 4-6 inches of soil.
Mole Crickets	1 qt. per acre	Apply when insects are present or expected. Make applications to plant beds 1-2 days prior to planting and incorporate in ^m the top 1-2 inches of soil.
Wireworms	3-4 qts. per acre	Broadcast just before planting and incorporate in ^m the top 4-8 inches of soil.
Aphids Diamondback Moths. Imported Cabbageworms. Harlequin Cabbagebugs. Corn Earworms.	1/2-1 pt. per acre	Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur.

Lettuce	Cutworms	2-4 qts. per Acre	Broadcast just before planting. Incorporate 2-4 inches to control cutworms.
	Mole Crickets	1 qt. per Acre	Apply to plant beds or fields 1-2 days before planting or transplanting when insects are present or expected. Incorporate 1-2 inches.
	Wireworms, *Garden Symphylans (Centipedes)	3-4 qts. per Acre	Broadcast just before planting. Incorporate 4-8 inches. *The high rate will suppress garden symphylan populations.
	Aphids, Dipterous Leafminers	1/2-1 pt. per Acre	Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest. NOTE: Diazinon will not control OP resistant leafminers. <i>organophosphate</i>

Melons (Canta- loupes, Casabas, Crenshaws, Honeydew, Musk- melons, Persians, and Hybrids of these)	Cutworms	2-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil.
	Aphids Leafminers Thrips Striped Cucumber Beetle Melonworm Leafhoppers Mites	1/2-1 1/2 pts. per acre	Apply as insects occur. Repeat applications as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control O-P resistant leafminers. <i>organophosphate</i>



R101MG0213JM.10 (H)

CROP	PEST	RATE	REMARKS
Onions (green & bulb)	Onion maggot	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 may not control resistant onion maggots.
		1 qt. per acre	At planting, apply diazinon in sufficient water to drench the seed furrow. NOTE: Diazinon may not control resistant onion maggots.
	Onion thrips	1 pt. per acre	Apply as thrips appear. Repeat application in 7 days if necessary. Do not make more than 3 applications per season. Do not apply within 10 days of harvest or illegal residues may occur.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Work into top 4-8 inches of soil immediately after application.

CROP	PEST	RATE	REMARKS
Parsley	Cutworms	2-4 lbs. per Acre	Broadcast just before planting. Incorporate 2-4 inches to control cutworms.
	Wireworms	3-4 qts. per Acre	Broadcast just before planting. Incorporate 4-8 inches.

Parsnips

Aphids,
Flea
Beetles,
Dipterous
Leafminers

1/2-1 pt. per Acre

Apply as insects occur.
Repeat applications as
necessary up to 5 times,
with a minimum of 7 days
between applications.

Do not apply within 10 days
of harvest or illegal
residues may occur.

NOTE: Diazinon will not
control ~~O-P~~ resistant
leafminers. *organophosphate*

R401MG1215.J.M.11 (H)

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CROP	PEST	RATE	REMARKS
Green Peas	Cutworms *Garden Symphylans (Centipedes)	2-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil. *The high rate of application will help suppress garden symphylan populations.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate into soil 4-8 inches.
	Aphids Leafminers	3/4-1 pt. per acre	Apply as insects occur. Repeat application as necessary every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Vines and hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. NOTE: Diazinon will not control O-P resistant leafminers.

Peppers	Cutworms	2-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil.
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R502MG0210JM.7 (H)

CROP	PEST	RATE	REMARKS
Peppers (con't.)	Mole Crickets	1 qt. per acre	Apply when insects are present. Make application to plant beds or fields 1-2 days prior to sowing of seed or transplanting and incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil.
	Aphids Leafminers	1/2 pt. per acre	Apply as insects appear. Repeat applications after 7 days if necessary. Do not make more than 5 applications per season. Do not apply within one day of harvest or illegal residues may occur.

CROP	PEST	RATE	REMARKS
Potatoes	Cutworms (Surface & Subter- ranean)	2-4 qts. per Acre	NOTE: Just before planting. Broadcast and incorporate immediately in the top 4-6 inches of soil.
	Wireworms	3-4 qts. per Acre	Broadcast and immediately incorporate prior to planting.
	Southern Potato Wireworms (South- eastern U.S.)	2-4 qts. per Acre	For potatoes grown on mineral soils in the south-east, apply prior to planting and immediately incorporate into the top 3-6 inches of soil depending on location of wireworms.
	Aphids Flea Beetles. Colorado Potato Beetle Dipterous Leafminers	1/2-3/4 pt. per Acre	Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur. NOTE: Diazinon will not control OP resistant leafminers. <i>organophosphate</i>
	Banded Cucumber Beetle Leafhoppers Southern Armyworms	3/4-1 pt. per Acre	Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.
Radish	Root Maggots	2 qts. per Acre	Mix 2 qt. in 100 gal. of water. Apply 100 gals. per acre (1 1/3 gal. per 1,000 linear feet of row) in the seed furrow at planting.

CROP	PEST	RATE	REMARKS
Radish	Root Maggots	2-lbs. per Acre 1,000	Mix in 100 gal. of water. Apply 100 gallons per acre (1 1/3 gals. per 1,000 linear feet of row) in the seed furrow at planting.
	*Garden Symphylans (Centipedes) Cutworms Wireworms	8-lbs. per Acre 1,000	Broadcast just before planting. Incorporate into soil 4-6 inches. *This application will only suppress garden symphylan populations.
	Mole Crickets	2-lbs. per Acre 1,000	Apply when insects are present or expected. Make application to plant beds 1-2 days prior to planting and incorporate 1-2 inches.
Red Chicory	Aphids Flea Beetles Dipterous Leafminer	1/2-1 lb. per Acre 1,000	Apply as insects occur. Repeat applications as necessary up to 5 times with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control O-P resistant leafminers.
	*Garden Symphylans (Centipedes) Cutworms Mole Crickets Root Maggots Wireworms	8-lbs. per Acre 1,000	Broadcast just before planting. Incorporate into soil 4-6 inches. *This application will only suppress garden symphylan populations.

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

Spinach	Cutworms	2-4 qts. per Acre	Broadcast just before planting. Incorporate 2-4 inches to control cutworms.
	Wireworms	1 1/2 - 2 qts. per Acre 3-4 qts.	Broadcast just before planting. Incorporate 4-8 inches.
	Aphids, Dipterous Leafminers	1/2-1 pt. per Acre	<p>Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 10 days of harvest.</p> <p>NOTE: Diazinon will not control of resistant leafminers. <i>organophosphate-</i></p>

CROP	PEST	RATE	REMARKS
Summer Squash	Cutworms	2-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil.
	Aphids Leafminers Thrips Striped Cucumber Beetle Melonworm Leafhoppers Mites	1/2-1 1/2 pts. per acre	Apply as insects occur. Repeat applications as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. NOTE: Diazinon will not control O-P resistant leafminers. <i>Cygnus plate</i>
Winter Squash	Cutworms	2-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil.
	Aphids Leafminers Thrips Striped Cucumber Beetle Melonworm	1/2-1 1/2 pts. per acre	Apply as insects occur. Repeat applications as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control O-P resistant leafminers. <i>Cygnus plate</i>

Sweet Potatoes	Wireworms Flea Beetles, White Grubs, Southern Corn Rootworms	3-4 qts. per Acre	Broadcast just prior to planting. Incorporate 4-8 inches.
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CROP	PEST	RATE	REMARKS
Tomatoes	Cutworms, *Garden Symphylans (Centipedes)	2-4 qts. per acre	Broadcast just prior to ^{to} planting. Incorporate in the top 2-6 inches of soil. *The high rate of application will help suppress garden symphylan populations.
	Mole Crickets	1 qt. per acre	Apply when insects are present. Make application to plant beds or fields 1-2 days prior to sowing of seed or transplanting and incorporate into the top 1-2 inches of soil.
	Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil.
	Aphids, Leafminers	1/2 pt. per acre	Apply as insects appear. Repeat applications after 7 days if necessary. Do not make more than 5 applications per season. Do not apply within one day of harvest or illegal residues may occur.
	Banded Cucumber Beetles, Fall Army- worms, Southern Armyworms, Beet Army- worms	3/4-1 pt. per acre	
	Vinegar Fly (<u>Drosophila</u> Spp.)	1/2-1 1/2 pts. per acre	
	Pinworms	1 1/2 pts. per acre	

Swiss Chard	Cutworms	2-4 qts. per Acre	Broadcast just before planting. Incorporate 2-4 inches to control cutworms.
	Wireworms	3-4 qts. per Acre	Broadcast just before planting. Incorporate 4-8 inches.
	Aphids, Flea beetles Dipterous Leafminers	1/2 - 1 pt. per Acre	Apply as insects appear. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications. Do not apply within 12 days of harvest or illegal residues may occur.

R305MG1214JM.12 (H)

and
Turnip Tops

Symphylans
(Centipedes),
Cutworms,
Mole
Crickets,
Wireworms

4 GTS.

press *This application will onl
garden symphylan populatio

R401HG1215JM.13 (H)

C

CROP	PEST	RATE	REMARKS
Turnip (con't.)	Mole Crickets	1 qt. per Acre	Apply when insects are present or expected. Make application to plant beds 1-2 days prior to planting and incorporate 1-2 inches.
	Aphids, Flea Beetles, Dipterous Leafminer	1/2-1 pt. per Acre	<p>Apply as insects occur. Repeat applications as necessary up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 10 days of harvest or illegal residues may occur.</p> <p>NOTE: Diazinon will not control O-P resistant leafminers.</p>

on Cutworms	2-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 2-6 inches of soil.
Wireworms	3-4 qts. per acre	Broadcast just prior to planting. Incorporate in the top 4-8 inches of soil.

13JM.11 (H)

CROP	PEST	RATE	REMARKS
Watermelon (con't.)	Aphids Leafminers Thrips Striped Cucumber Beetle. Melonworm	1/2-1 1/2 pts. per acre	Apply as insects occur. applications as necessary days. Do not make more applications per season. apply within 3 days of h or illegal residues may NOTE: Diazinon will not G-P resistant leafminers

R101MC0213JM.12 (H)

Sweet Corn

Use a minimum of 1 gal. of water for aerial applications and 5 gals. of water for ground applications.

Corn Rootworm Adults: Apply 1/2-1 pt. per acre.

Corn Leaf Aphids: Apply 1-2 pts. per acre. Complete coverage of the upper portions of the plant is essential. Repeat applications as necessary.

Mites: Apply 1 pt. per acre when infestations first appear. Repeat applications as necessary.

Flea Beetles: Apply 1 pt. per acre when insects first appear. Repeat applications as necessary.

Grasshoppers: Apply 1 pt. per acre.

Sap Beetles: Apply 2-2 1/2 pts. per acre. Add 1-2 gals. of soluble mineral oil per acre to the spray mixture. Consult State Agricultural Experiment Stations or State Extension Service Specialists for proper timing of sprays.

Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

Hops

Aphids, Mites: Apply 1 qt. per acre. Do not apply within 14 days of harvest or illegal residues may result.

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Grasshoppers: Apply 1 pt. per acre.

Tops may be fed to beef and dairy animals.

Sugar Beets

Wireworms: Broadcast 3-4 qts. per acre just prior to planting, and immediately work into soil 4-8 inches.

Tops may be fed to beef and dairy animals.

Sweet Corn

Corn Rootworm Larvae:

Postemergence Basal Treatment: Apply 1 1/4-2 1/2 oz. per 1,000 linear feet of corn row in sufficient water to thoroughly wet base of corn plant and a narrow band of soil next to the plant. Refer to the row spacing chart for amounts recommended per acre. Cover treated band with 2-3 inches of soil using a disk hiller or cultivator immediately after spraying. Application should be made at the first sign of corn rootworm larvae, but not later than June 24 in the Middle Corn Belt, or July 1 in the Northern Corn Belt.

Suggested Rates According to Row Spacing
for Corn Rootworm Larvae Control

Row Spacing	Linear Feet of Corn Row/Acre	Postemergence Basal Treatment (Fl. oz.)
48"	10,890	14-28
42"	12,455	15.5-31
40"	13,068	16-32 (1/2-1 qt.)
38"	13,939	17.5-35
36"	14,250	18-36
30"	17,424	22-44
24"	21,780	27.5-55
20"	26,136	32-64 (1-2 qts.)
15"	34,848	44-88

Note: For row spacings not listed, calculate the appropriate dosage based on the 40-inch row figure.

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Field Crops

D z·n® diazinon AG500 in sufficient water to ensure thorough coverage. 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 (DAYS)	SPRAY INTERVAL (DAYS)	MAXIMUM NO. APPLICATIONS PER SEASON
Hops	14	14	5
Sugar Beets	7	7	5

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

Seedcorn Maggots: Broadcast 2-4 qts. per acre just prior to planting. Work immediately into soil 2 inches.

Cutworms (Surface and Subterranean) Broadcast 2-4 qts. per acre. For surface cutworms apply just prior to planting or when larvae first appear and work into soil 1-2 inches immediately. Do not apply later than lay by.

For subterranean cutworms apply just prior to planting and immediately work into soil 2-6 inches.

Wireworms: Apply 3-4 qts. per acre prior to planting and immediately work into the soil 4-8 inches.

Corn may be picked immediately following last application. Corn forage may be fed to dairy and beef cattle and sheep.

Grassland Insects

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

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Insects	Rate per 3 gals. water	Rate per 100 gals. water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf-tiers, Privet Mites, Scale Crawlers (Cotton/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, Obliquebanded Leaf- rollers, Pear Slugs, Tent Caterpillars	1 1/2 fl. oz.*	3 pts.**

* 1 fl. oz. = 2 tablespoons

**16 fl. oz. = 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. 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. oz. ^s	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,			Spot spray ant hills and wasp ground nest openings.

Continued ...

Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn Billbugs, Sod Webworms (Lawn Moths), Sowbugs	2-3 fl. oz.	3 gals.	For frit flies, mow grass and water well before treatment but delay application until grass is dry.
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 shrubbery, particularly near house.
Millipedes	3 fl. oz.	3 gals.	
Rhodesgrass Scales	3 fl. oz.	3 gals.	Apply when crawlers first emerge.

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

Hyperodes Weevil: Apply 3 fl. oz. 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. oz. (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.

Environmental Hazards

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

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

Apply this product only as specified on this label.

Physical or Chemical Hazards

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

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

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Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA 1L128D

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

4/20/85

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.

September 21, 1988 - deleted crops not supported under May 1, 1987, EPA Data Call-In; added spill statement; deleted front panel lbs./gal. statement; revised chemical name; added Chinese broccoli, bok choy, and Chinese mustard.

November 11, 1988 - changed chemical name back to original, added lbs./gal. statement back, deleted mushroom houses, 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."

March 30, 1989 - revised precautionary statements re: avian tox.
Env Hazards

(LAPELS-D.4 - DZNAGSH/B/F4)

(Jug Label for 2 1/2 Gal.)

D·z·n® diazinon AG500

Insecticide

For Agricultural or Commercial Use Only

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

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

Active Ingredient:

Diazinon: O,O-diethyl O-(2-isopropyl-6-	
methyl-4-pyrimidin-yl) phosphorothioate	48.0%
Inert Ingredients:	52.0%
Total:	100.0%

©1988 CIBA-GEIGY Corporation

2 1/2 Gallons
U.S. Standard Measure

CIBA-GEIGY

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

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

See additional precautionary statements
inside booklet.

See directions for use inside booklet.

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Aviso

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

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Agricultural Division
CIBA-GEIGY Corporation
Greensboro, NC 27419

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

Control No.

CGA 1L128D

(DZNAG5H/J/F4)