



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

FEB 16 2001

Ms. Carolyn Brinkley  
Syngenta Crop Protection, Inc.  
P.O. Box 18300  
Greensboro, NC 27419-8300

Dear Ms. Brinkley:

Subject: Amendment - delete Beans, Cucumbers, Parsley, Parsnips, Peas, Peppers, Potatoes, Spinach, Squash (summer and winter), Sweet potatoes, Swiss Chard, Strawberries, Tomatoes, Turnips, Lawns or any other turf sites, Barrier strips, Ditch banks, Non-crop areas, Roadsides, Wasteland, Nuisance pests in outside areas (includes foundation band treatment, treatment of exterior of buildings and surrounding areas); add/modify text as required by the December 5, 2000 MOA; and update First Aid section per PR Notice 2001-1  
D.z.n diazinon AG600 WBC  
EPA Registration Number 100-784  
Your submission dated January 12, 2001

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. Re-add the prohibitions "Do not use in barns or dwellings. Do not use on livestock." in the General Information section.
  - b. In the minimum gallonage table for Vegetable Crops (page 25), In its correct location re-add the inadvertently deleted crop "Persian Melons" with its associated column entries of "5", "1", and "5".

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- c. Also in the minimum gallonage table for Vegetable Crops (page 25), delete the extra horizontal line in the double length column entry for Onions and add the missing horizontal line above the entry for Radishes.
  - d. In the PHI table for Vegetable Crops (page 26), re-add the inadvertently deleted crop "Watermelons" with its associated 3 day PHI.
3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely,

George T. LaRocca  
Product Manager 13  
Insecticide Branch  
Registration Division (7505C)

3768

RESTRICTED USE PESTICIDE  
DUE TO AVIAN AND AQUATIC TOXICITY  
FOR RETAIL SALE TO AND USE BY CERTIFIED APPLICATORS  
OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND  
ONLY FOR THOSE USES COVERED BY THE CERTIFIED  
APPLICATOR'S CERTIFICATION.

(Booklet for 2 1/2 Gallon Container)

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:**

**FEB 16 2001**

**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
100-784**

D•z•n® diazinon AG600 WBC

INSECTICIDE

Water-Based Concentrate



For control of certain insects on fruits, nuts, vegetables, field crops, and  
ornamentals grown outdoors in nurseries

Low Odor - Contains Syngenta Diazinon



Active Ingredient:  
diazinon: (CAS No. 333-41-5) .....  
56.0%

Other Ingredients:	44.0%
Total:	100.0%

**SHAKE CONTENTS WELL BEFORE USING.**

EPA Reg. No. 100-784  
EPA Est. 70404-AL-001

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use inside  
booklet.

2.5 GALLONS  
U.S. Standard Measure

SCP 784A-L1G 0101  
[QUARK/DZN DIAZINON AG600 WBC/N-DZN DIAZ AG600WBC-E] - ccg - 1/11/01

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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**DIRECTIONS FOR USE**

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

**Reformulation or repackaging of this product is prohibited.**

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI).** Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, waterproof gloves, and shoes plus socks.

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

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**GENERAL INFORMATION**

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D•z•n diazinon AG600 WBC is a water-based concentrate which, when diluted with water according to the directions, is intended for the control of insect pests of agricultural crops and other plants. Do not use in greenhouses.

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

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**WORK SAFETY RULES**

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

When handling D•z•n diazinon AG600 WBC, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See **First Aid** section of this label.

**Note:** The California Department of Agriculture has set a 5-day reentry period for diazinon on grapes, peaches, and nectarines. Five days should elapse between the time of application and the time a worker may enter the field to engage in any activity requiring substantial contact with treated foliage. When a mixture of 2 or more organophosphate pesticides are applied in combination, the interval should be prolonged by adding to the largest applicable interval an additional 50% of that interval.

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**SPRAY EQUIPMENT**

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Applications of D•z•n diazinon AG600 WBC using sufficient water volume to provide thorough and uniform coverage generally provide the most effective pest control.

To avoid spray drift, do not apply when conditions favor drift from beyond the target area. Avoid overlap because crop injury may occur.

Equip sprayers with nozzles that provide accurate and uniform application. Be certain that nozzles are the same size and uniformly spaced across the boom. Calibrate sprayer before use.

For more information on spray equipment and calibration, consult sprayer manufacturer's and state recommendations. For specific local directions and spray schedules, consult your local or state agricultural authorities.

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## **MIXING PROCEDURES**

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Thoroughly clean spray equipment before using this product. Prepare only the amount of spray mixture needed for the immediate application. Vigorous agitation is necessary for proper dispersal of this product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand in the spray tank overnight. Flush the spray equipment thoroughly following each use.

### **1. D•z•n diazinon AG600 WBC Alone:**

Add 1/2 of the required amount of water to the mix tank. With the agitator running, add the D•z•n diazinon AG600 WBC to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the D•z•n diazinon AG600 WBC has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

### **2. D•z•n diazinon AG600 WBC In Tank Mixtures:**

**Note: Do not mix D•z•n diazinon AG600 WBC with any formulation of Captan® or Captec® because crop injury may occur.**

D•z•n diazinon AG600 WBC is compatible with most insecticide and fungicide products; however, physical compatibility with tank mix partners should be tested before use. Using a quart jar, add the proportionate amounts of each product to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be readily remixed, the products are compatible.

Once compatibility has been proven, add 1/2 of the required amount of water to the mix tank. Start the agitator running before adding any tank mix partners. Add tank mix partners in this order: all products in water-soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank mix partner to fully disperse before adding the next product. Maintain sufficient agitation while adding the remainder of the water and

until all of the mixture has been applied.

When using D•z•n diazinon AG600 WBC in tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix products' labels. Confirm that the tank mixture is safe to the crop by spraying a small area first, and evaluating crop safety after an appropriate period. Do not treat larger areas until crop safety has been confirmed.

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### **AERIAL APPLICATION**

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Avoid application when uniform coverage will not result or when excessive spray drift may occur. Do not allow product to contact animals or unprotected persons.

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### **CHEMIGATION (APPLICATION THROUGH AN IRRIGATION SYSTEM)**

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D•z•n diazinon AG600 WBC may be applied alone or in combination with other pesticides registered for application through sprinkler (including center pivot lateral move, end tour side (wheel) roll, traveler, big gun, solid set or hand move) or drip (trickle) irrigation systems (including surface and subsurface). Do not apply this product through any other type of irrigation system. To insure compatibility, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for 5 minutes. If the combination remains mixed, or can be remixed readily, the mixture is compatible.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.

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

#### **Chemigation Systems Connected to Public Water Systems**

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must con-



tain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

### **Sprinkler and Drip (Trickle) Chemigation**

1. The system must contain a functional check-valve, a vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not use sprinkler chemigation when wind speed favors drift beyond the area intended for treatment.

### **Operating Instructions**

1. Determine the acreage to be treated by the system.
2. Measure the appropriate amount of D•z•n diazinon AG600 WBC needed to treat the acreage to be treated. Refer to the specific directions for use for the application rate and the amount of water

per acre.

3. Add the pre-measured D•z•n diazinon AG600 WBC to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if D•z•n diazinon AG600 WBC is tank mixed with other pesticides registered for sprinkler or drip chemigation.
4. Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.
5. Engage the chemigation injection or venturi system to add the D•z•n diazinon AG600 WBC to the irrigation lines.
6. Continue to run irrigation system for a few minutes after supply tank is empty to allow material in the irrigation lines to reach the sprinkler heads furthest from the chemigation injection point.

**Note:** When treatment with D•z•n diazinon AG600 WBC has been completed, further field irrigation over the treated area should be avoided for 48 hours to prevent washing the product off of the crop.

Apply D•z•n diazinon AG600 WBC only in sufficient irrigation water to achieve thorough plant coverage. Excess water will wash the product from the plant, resulting in poor control.

To avoid a hazard to animals, wells, or adjoining crops, do not allow irrigation water to collect or runoff.

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## **FRUIT AND NUT CROPS**

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**REI - 24 Hours**

### **Ground/Aerial Application**

D•z•n diazinon AG600 WBC may be applied using ground or aerial application equipment as specified in Table 1. Table 1 indicates the minimum amount of water that can be used for the method of application. Table 2 lists the preharvest interval (PHI) for each crop.

Table 1

Crop	Aerial Application Minimum Gals./Acre	Ground Application Minimum Gals./Acre	
		Dilute	Concentrate
Almonds*	20	100	20
Apples	20	100	20
Apricots	20	100	20
Blackberries**	20	100	20
Blueberries	20	100	20
Boysenberries**	20	100	20
Cherries	20	100	20
Cranberries	5	15	—
Dewberries**	20	100	20
Grapes	20	100	20
Loganberries**	20	100	20
Nectarines	20	100	20
Peaches	20	100	20
Pears	20	100	20
Plums	20	100	20
Prunes	20	100	20
Raspberries**	20	100	20
Walnuts*	20	100	20

\*CA only.

\*\*CA, OR, or WA only.

Table 2.

Observe stated time intervals between last application and harvest, as well as intervals between applications and total amount of product that can be applied per season.

Crop	PHI*
Almonds	**
Apricots	21
Blackberries	7
Blueberries	7
Boysenberries	7
Cherries	21
Cranberries	7
Dewberries	7
Grapes	28
Loganberries	7
Nectarines	21
Peaches	21
Pears	21
Plums, Prunes	21
Raspberries	7
Walnuts	45

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

\*\* = Dormant spray only.

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

**FRUIT TREES - VOLUME OF WATER AND APPLICATION RATES**

The rate of D•z•n diazinon AG600 WBC for aerial spray or concentrated spray applied to fruit trees by ground equipment is based on a dilute full cover spray applied with conventional ground equipment at a rate of 300-400 gals. of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the **Timing/Special Directions** or the **Notes** for individual crops.

Crop	Pest	Rate	Timing/Special Directions
Almonds (CA only)	San Jose Scale, Parlatoria Scale	12 <sup>3</sup> / <sub>4</sub> -19 fl. oz. + 2-3 gals. dormant oil or 1-1 <sup>1</sup> / <sub>2</sub> gals. superior type oil in 100 gals. of water	Apply only as a single dormant spray. Do not apply more than 76 <sup>1</sup> / <sub>2</sub> fl. oz. of diazinon or 9 gals. of oil per acre.
Apples	Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Woolly Apple Aphids, Plum Curculio	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Begin treatment when infestations first occur. Do not repeat applications closer than 14 days. Do not apply after petal fall.
	San Jose Scale Crawlers, Forbes Scale Crawlers	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later. Do not apply after petal fall.

Crop	Pest	Rate	Timing/Special Directions
Apples (Cont'd)	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	12 <sup>3</sup> / <sub>4</sub> fl. oz. + 2 gals. dormant oil or 1-1 <sup>1</sup> / <sub>2</sub> gals. superior type oil in 100 gals. of water	Apply only as a dormant or delayed dormant spray. Do not apply more than 51 fl. oz. of product or 6 gals. of oil per acre per application.
	Leafhoppers	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply at petal fall. Do not apply after petal fall.
	Eyespotted Bud Moths, Fruit Tree Leafrollers, Mealybugs	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Begin treatment at pink stage. Do not repeat application closer than 14 days. Do not apply after petal fall.

**Notes:** (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.  
 (2) Do not apply after petal fall.

Crop	Pest	Rate	Timing/Special Directions
Apricots	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days, if necessary.
	Olive Scale Crawlers	6 <sup>1</sup> / <sub>2</sub> fl. oz. + 1 <sup>1</sup> / <sub>2</sub> gals. of light medium horticultural oil per 100 gals. of water	Apply when scale crawlers are present. Do not apply more than 51 fl. oz. of product or 6 gals. of oil per acre per application.
	Apricot Mealybugs	12 <sup>3</sup> / <sub>4</sub> fl. oz. oz. per 100 gals. of water	Apply as a cover spray from petal fall to June. Allow 14 days between applications.

**Notes:** (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.  
(2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Crop	Pest	Rate	Timing/Special Directions
Blue-berries	Cranberry fruitworms, Cherry fruitworms, Blueberry maggots, Aphids, Thrips, Two-spotted Spider Mites	25½ fl. oz./A	Apply as infestations occur. Allow 14 days between applications.
	Fire Ants	25½ fl. oz./A	To aid in the control of fire ants, slowly apply 1 gal. of dilute mixture over and 6 inches around each fire ant mound. Apply gently to avoid disturbing ants. Use equipment capable of delivering the diluted product as a gentle rain. High pressure sprays may disturb the ants and cause migration, reducing product effectiveness.  <b>Note:</b> For best results, apply in cool weather, 65-80°F, or in early morning or late evening hours.

**Notes:** (1) Do not apply more than 25½ fl. oz. of product per acre per application and no more than 127½ fl. oz. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.



Crop	Pest	Rate	Timing/Special Directions
Cane-berries CA, OR, and WA only: Black-berries, Boysen-berries, Dew-berries, Logan-berries, Rasp-berries	Leaf-hoppers, Thrips, Aphids, Two-spotted Spider Mites, Raspberry Fruitworms, Raspberry Sawflies	25½ fl. oz./A in 100 gals. of water	Apply as insects occur. Repeat application after 14 days, if necessary.  Apply in a minimum of 100 gals. of water per acre (200 gals./A maximum).  For Raspberry Fruitworms, make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Dryberry Mites	25½-51 fl. oz./A in 100 gals. of water	Apply as a dormant spray in the early Spring when canes are still on the ground and buds are closed. Make a second application when buds are well developed, but still closed.  Apply in a minimum of 100 gals. of water per acre (200 gals./A maximum).
	Raspberry Crown Borers (Raspberry Root Borers)	51 fl. oz./A	Apply in a single application in a minimum of 100 gals. of water per acre as a drench to the crown and lower canes in the Spring before buds break.

**Notes:** (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 127½ fl. oz. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

Crop	Pest	Rate	Timing/Special Directions
Cherries	Eyespotted Bud Moths, Fruit Tree Leafrollers	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply in cover sprays as infestations occur beginning at petal fall. Repeat application after 7 days, if necessary.
	Leafhoppers	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Make 3 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications.
	Cherry Fruitflies	6 <sup>1</sup> / <sub>2</sub> -12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10-day intervals.
	Black Cherry Aphids	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply as a cover spray when aphids appear. Repeat application after 10 days, if necessary.
	San Jose Scale Crawlers	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply during the pre-pink stage or when crawlers first appear.
	Cherry Rust Mites	6 <sup>1</sup> / <sub>2</sub> -12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply to trees as a single supplemental spray after harvest.

**Notes:** (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.  
 (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Crop	Pest	Rate	Timing/Special Directions
Cran-berries	Blackheaded Fireworms ( <i>Rhopobota naevana</i> )	51 fl. oz./A	Apply to larval stage. Pheromone trap captures and sweep monitoring may be used to optimize treatment timing. Repeat application after 14 days, if necessary. A maximum of 6 applications per season is permitted.
	Cranberry Tipworms	51 fl. oz./A	Presence of damage is not an indicator of active infestation. For best results, target early-stage larvae. Repeat application after 14 days, if necessary. A maximum of 6 applications is permitted.
	Cranberry Fruitworms	51-76½ fl. oz./A	Cranberry growth stage and/or berry inspection for eggs may be used to optimize treatment timing; consult your local extension agent or pest management advisor. Repeat application every 14 days, as needed. A maximum of 4 applications per season is permitted for the 76½ fl. oz. rate. A maximum of 6 applications per season is permitted for the 51 fl. oz. rate.

**Notes:** (1) This product may be applied to cranberries via ground, aerial, or sprinkler irrigation. For ground application, apply the product in a minimum of 15 gals. of water per acre, for aerial application, a minimum of 5 gals. of water per acre, for chemigation, up to 400 gals. of water per acre. Refer to the **Chemigation** section of this label for specific chemigation directions. (2) Do not use water from irrigated or flooded cranberry beds for drinking purposes or to irrigate crops other than those appearing on EPA-approved diazinon labels. (3) Do not apply more than 306 fl. oz. of product per acre per season. (4) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

Crop	Pest	Rate	Timing/Special Directions
Grapes	Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leaf-folders, Omnivorous Leafrollers, Aphids, Spider Mites	12 <sup>3</sup> / <sub>4</sub> -25 <sup>1</sup> / <sub>2</sub> fl. oz./A in a minimum of 100 gals. of water	Apply as a thorough cover spray. Repeat application after 7 days, if necessary.
	<i>Drosophila</i> spp.	4 <sup>3</sup> / <sub>4</sub> fl. oz./A in a minimum of 100 gals. of water (300 gals. of water maximum)	Apply as a thorough cover spray. Repeat application after 7 days, if necessary.

**Notes:** (1) Do not apply more than 25<sup>1</sup>/<sub>2</sub> fl. oz. of product per acre per application and no more than 127<sup>1</sup>/<sub>2</sub> fl. oz. per acre per season. (2) To avoid illegal residues, allow 28 days between the last application and harvest.

Crop	Pest	Rate	Timing/Special Directions
Nectarines	Oriental Fruit Moths	12¾ fl. oz. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10 to 15-day intervals. Time the last application to peak adult flight.
	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers, Peach Twig Borers	12¾ fl. oz. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days, if necessary.

**Notes:** (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. per acre per season. (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Crop	Pest	Rate	Timing/Special Directions
Peaches	Aphids, Brown Mites (Clover Mites), Two-spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days, if necessary.
	Oriental Fruit Moths	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10 to 15-day intervals. Time the last application to peak adult flight.
	Peach Twig Borers	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply as insects occur in May and June. Allow 7 days between applications.
	Leafhoppers	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Make 3 applications beginning at petal fall and continuing through the growing season. Allow 7 days between applications.
	White Peach Scale	19-25 <sup>1</sup> / <sub>2</sub> fl. oz. in 100 gals. of water	Apply post-harvest timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation, 2 applications (7 days apart) may be needed. Do not apply before fruit is harvested.

**Notes:** (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.  
(2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Crop	Pest	Rate	Timing/Special Directions
Pears	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, Apricot Scale, European Red Mite Eggs, Brown Mite Eggs, Pear Leaf Blister Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	12 <sup>3</sup> / <sub>4</sub> fl. oz. + 2-3 gals. dormant oil or 1-1 <sup>1</sup> / <sub>2</sub> gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.
	Pear Psylla	6 <sup>1</sup> / <sub>2</sub> -12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply as a cover spray at pre-pink stage. Make 1-2 additional applications during the first and second cover sprays, if necessary. Allow at least 14 days between applications.
	Tentiform Leafminers, Mealybugs	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Make 3 cover sprays, beginning in April. Allow at least 14 days between applications.

Crop	Pest	Rate	Timing/Special Directions
Pears (Cont'd)	Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Woolly Apple Aphids, Spider Mites	12¾ fl. oz. in 100 gals. of water	Make 3 cover sprays, beginning as infestations occur. Allow at least 14 days between applications.  <b>Note:</b> Mites will be suppressed if diazinon is used in this regular cover spray program.
	Apple Maggots	12¾ fl. oz. in 100 gals. of water	Make 3 cover sprays when flies are active and laying eggs. Allow at least 14 days between applications.  <b>Note:</b> Diazinon will not control organophosphate- resistant apple maggots.
	San Jose Scale Crawlers, Forbes Scale Crawlers	12¾ fl. oz. in 100 gals. of water	Apply early in the season when crawlers first appear. If infestation warrants, make a second application 14 days later.

**Notes:** (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.  
(2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.



Crop	Pest	Rate	Timing/Special Directions
Plums	Brown Mites (Clover Mites), European Red Mites	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply, as needed, every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	6 <sup>1</sup> / <sub>2</sub> -12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	

**Notes:** (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.  
 (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Prunes	Brown Mites (Clover Mites), European Red Mites	12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	Apply, as needed, every 7 days.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	6 <sup>1</sup> / <sub>2</sub> -12 <sup>3</sup> / <sub>4</sub> fl. oz. in 100 gals. of water	

**Notes:** (1) Do not apply more than 51 fl. oz. of product per acre per application and no more than 153 fl. oz. of product per acre per season.  
 (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Crop	Pest	Rate	Timing/Special Directions
Walnuts (CA only)	Aphids, Spider Mites	25½ fl. oz./A	Apply as a foliar spray. Repeat application in 14 days, if necessary.
	Codling Moths, Scale Crawlers, Walnut Caterpillars	76½ fl. oz./A	Make ground applications in a minimum of 100 gals. of water per acre.

**Notes:** (1) Do not apply more than 76½ fl. oz. of product per acre per application, and no more than 229½ fl. oz. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 45 days between the last application and harvest and do not apply after husks open.

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### VEGETABLE CROPS

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#### REI - 24 hours

For foliar or soil applications, D•z•n diazinon AG600 WBC should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. D•z•n diazinon AG600 WBC may be applied using ground or aerial application equipment as specified in the following table. This table indicates the **minimum** amount of water that can be used for the various methods of application. The specific amount of product to be used appears under the separate directions for use for each crop.

Crop	Ground Application		Aerial Application Minimum Gals./Acre
	Minimum Gals./ Acre	OR Minimum Gals./1,000 Sq. Ft.	
Beets, Red (Table)	10	2	5
Broccoli	10	2	5
Brussels Sprouts	10	2	5
Cabbage	10	2	5
Cantaloupes	5	1	5
Carrots	10	2	5
Casaba Melons	5	1	5
Cauliflower	10	2	5
Chinese Broccoli	10	2	5
Chinese Cabbage	10	2	5
Chinese Mustard	10	2	5
Chinese Radish (CA, FL only)	10	2	5
Collards	10	2	5
Crenshaw Melons	5	1	5
Endive (Escarole)	10	2	5
Ginseng	10	2	-
Honeydew Melons	5	1	5
Kale	10	2	5
Lettuce, Head	10	2	5
Lettuce, Leaf	10	2	5
Muskmelons	5	1	5
Mustard	10	2	5
Onions (Bulb and Green)	10	2	5
Radishes	10	2	5
Sweet Corn	20	4	5
Watermelons	5	1	5

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

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

Crop	PHI* (Days)
Beets, Red (Table)	14
Broccoli	7
Brussels Sprouts	7
Cabbage	21
Cantaloupes	3
Carrots	14
Casaba Melons	3
Cauliflower	7
Chinese Broccoli	10
Chinese Cabbage	10
Chinese Mustard	10
Chinese Radish	10
Collards	10
Crenshaw Melons	3
Endive (Escarole)	14
Ginseng	30
Honeydew Melons	3
Kale	10
Lettuce	14
Muskmelons	3
Mustard	10
Onions (Bulb and Green)	14
Persian Melons	3
Radishes	14
Sweet Corn	7

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

**Notes:** (1) **Soil Incorporation:** Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see **Timing/Special Directions**), using a rotary hoe, cultivator, disk, harrow, or other suitable means. For control of surface cutworms, incorporate 2-3 inches, for subterranean cutworms, incorporate 3-6 inches. (2) **To Protect Bees:** Foliar applications of this product should not be made to corn during the pollen shed period.

Crop	Pest	Rate	Timing/Special Directions
Beets, Red (Table)	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	25½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76½-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Dipterous Leafminers	6½-12¾ fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 14 days of harvest, or illegal residues may occur.  <b>Note:</b> Diazinon will not control organophosphate- resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Broccoli	Root Maggots	51-76½ fl. oz./A	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		3¼-6½ fl. oz. per 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 3¼-6½ fl. oz. per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.  <b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Crop	Pest	Rate	Timing/Special Directions
Broccoli (Cont'd)	Mole Crickets	25½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76½-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	6½-12¾ fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 7 days of harvest, or illegal residues may occur.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.



Crop	Pest	Rate	Timing/Special Directions
Brussels Sprouts	Root Maggots	51-76½ fl. oz./A	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		3¼-6½ fl. oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 3¼-6½ fl. oz. per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.  <b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Crop	Pest	Rate	Timing/Special Directions
Brussels Sprouts (Cont'd)	Mole Crickets	25½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76½-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage-worms	6½-12¾ fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 7 days of harvest, or illegal residues may occur.

Crop	Pest	Rate	Timing/Special Directions
Cabbage	Root Maggots	51-76½ fl. oz./A	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		3¼ -6½ fl. oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 3¼-6½ fl. oz. per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.  <b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Crop	Pest	Rate	Timing/Special Directions
Cabbage (Cont'd)	Mole Crickets	25½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76½-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	6½-12¾ fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 21 days of harvest, or illegal residues may occur.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Carrots	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	25½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76½-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids	12¾ fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 14 days of harvest, or illegal residues may occur.

Crop	Pest	Rate	Timing/Special Directions
Cauliflower	Root Maggots	51-76½ fl. oz./A	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.
		3¼-6½ fl. oz. in 50 gals. of water	<p>In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 3¼-6½ fl. 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><b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.</p>
	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Crop	Pest	Rate	Timing/Special Directions
Cauliflower (Cont'd)	Mole Crickets	25½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76½-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage- worms, Dipterous Leafminers	6½-12¾ fl. oz./A	<p>Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications.</p> <p>Do not apply within 7 days of harvest, or illegal residues may occur.</p> <p><b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.</p>

Crop	Pest	Rate	Timing/Special Directions
Chinese Broccoli	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	6 1/2-12 3/4 fl. oz./A	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 10 days of harvest, or illegal residues may occur.</p> <p><b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.</p>
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	6 1/2-12 3/4 fl. oz./A	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 10 days of harvest, or illegal residues may occur.</p> <p><b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.</p>



Crop	Pest	Rate	Timing/Special Directions
Chinese Mustard (Gai Choy)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	6 1/2-12 3/4 fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 10 days of harvest, or illegal residues may occur.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.
Chinese Radish (Japanese Radish or Daikon) (FL and CA only)	Aphids, Diamondback Moths, Imported Cabbage-worms, Dipterous Leafminers	12 3/4 fl.oz./A	Mix in a minimum of 100 gals. of water per acre and apply as a foliar spray as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 3 applications per season.  Do not apply within 10 days of harvest, or illegal residues may occur.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Collards	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	25½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76½-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbage-worms, Harlequin Bugs, Corn Earworms	6½-12¾ fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 10 days of harvest, or illegal residues may occur.

Crop	Pest	Rate	Timing/Special Directions
Endive (Escarole)	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	25½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76½-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	6½-12¾ fl. oz./A	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 14 days of harvest.</p> <p><b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.</p>

Crop	Pest	Rate	Timing/Special Directions
Ginseng	Leafhoppers, Aphids, Lygus Bugs, Flea Beetles, Jumping Plant Lice	9 <sup>1</sup> / <sub>2</sub> -12 <sup>3</sup> / <sub>4</sub> fl. oz./A	Spray when insects first appear. For heavy insect infestations, use 12 <sup>3</sup> / <sub>4</sub> fl. oz. Apply by ground equipment, using 10-100 gals. of water per acre. <b>Do not apply more than one application per growing season.</b> Do not apply during flowering of 3 or 4 year old crops. Do not apply within 30 days of harvest. Do not graze treated areas or feed treated forage to livestock.
Kale	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	25 <sup>1</sup> / <sub>2</sub> fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76 <sup>1</sup> / <sub>2</sub> -102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.

Crop	Pest	Rate	Timing/Special Directions
Kale (Cont'd)	Aphids, Diamondback Moths, Imported Cabbage- worms, Harlequin Bugs, Corn Earworms	6 $\frac{1}{2}$ -12 $\frac{3}{4}$ fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 10 days of harvest, or illegal residues may occur.
Lettuce	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	25 $\frac{1}{2}$ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76 $\frac{1}{2}$ -102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	6 $\frac{1}{2}$ -12 $\frac{3}{4}$ fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 14 days of harvest.  <b>Note:</b> Diazinon will not control organophosphate- resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians, and Hybrids of these) and Watermelons	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	76½-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	6½-19 fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 3 days of harvest, or illegal residues may occur.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Mustard	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	25½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76½-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbage- worms	6½-12¾ fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 10 days of harvest, or illegal residues may occur.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Onions (Bulb and Green)	Onion Maggots	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 3-4 inches of soil.  <b>Note:</b> Diazinon will not control organophosphate- resistant onion maggots
	Onion Thrips	12 <sup>3</sup> / <sub>4</sub> fl. oz./A	Apply as thrips appear. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season.  Do not apply within 14 days of harvest, or illegal residues may occur.
	Wireworms	76 <sup>1</sup> / <sub>2</sub> -102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.



Crop	Pest	Rate	Timing/Special Directions
Radishes	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	25½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76½-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	6½-12¾ fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season.  Do not apply within 14 days of harvest, or illegal residues may occur.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Rutabagas	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	25½ fl. oz./A	One to two days before planting, broadcast and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	76½-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	6½-12¾ fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.  Do not apply within 14 days of harvest, or illegal residues may occur.  <b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn	Cutworms	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Seed Corn Maggots	51-102 fl. oz./A	Broadcast just before planting and immediately incorporate into the top 2 inches of soil.
	Wireworms	76 <sup>1</sup> / <sub>2</sub> -102 fl. oz./A	Broadcast before planting and immediately incorporate into the top 4-8 inches of soil.
	Corn Earworms	25 <sup>1</sup> / <sub>2</sub> -32 fl. oz./A	Apply when silks first appear. Repeat application every 7 days, if necessary. Do not make more than 5 applications per season.
	Corn Rootworm (Adults)	6 <sup>1</sup> / <sub>2</sub> -12 <sup>3</sup> / <sub>4</sub> fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Corn Leaf Aphids	12 <sup>3</sup> / <sub>4</sub> -25 <sup>1</sup> / <sub>2</sub> fl. oz./A	Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn (Cont'd)	Grasshoppers, Spider Mites, Flea Beetles	12 <sup>3</sup> / <sub>4</sub> fl. oz./A	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.
	Sap Beetles	25 <sup>1</sup> / <sub>2</sub> -32 fl. oz./A	Consult local agricultural authorities for proper timing of sprays. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.

**Notes:** (1) To protect bees, do not apply foliarly to corn during the pollen shed period. (2) Allow 7 days after the last application before grazing or cutting for forage. Forage may be fed to beef and dairy cattle and sheep. (3) Corn may be picked 7 days after the last application.

**FIELD CROPS**

**REI - 24 Hours**

Soil and foliar applications of D•z•n diazinon AG600 WBC should always be applied as a spray in sufficient water to ensure thorough coverage. For foliar applications, observe stated time intervals between last application and harvest, as well as intervals between applications and total number of applications that can be made per season.

**Pre-harvest Interval (PHI\*) for Foliar Applications**

Crop	PHI* (Days)
Hops	14
Sugar Beets	14

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

Crop	Pest	Rate	Timing/Special Directions
Hops	Aphids, Spider Mites	25½ fl. oz./A	Apply as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 4 applications per season.  Do not apply within 14 days of harvest.

Crop	Pest	Rate	Timing/Special Directions
Sugar Beets	Wireworms	76½-102 fl. oz./A	<p>Broadcast just before planting. Incorporate into soil 4-6 inches.</p> <p>Do not apply more than 102 fl. oz. of this product to the soil per season.</p>
	Aphids, Beet Leafhoppers, Dipterous Leafminers	9½-12¾ fl. oz./A	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 14 days of harvest.</p> <p><b>Note:</b> Diazinon will not control organophosphate-resistant leafminers.</p>
	Grasshoppers	12¾ fl. oz./A	<p>Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.</p> <p>Do not apply within 14 days of harvest.</p>

**Note:** Sugar beet tops may be fed to beef and dairy animals.

**INSECT CONTROL ON ORNAMENTALS GROWN OUTDOORS IN NURSERIES**

**REI - 12 hours**

To control certain insects on:

- |               |                  |
|---------------|------------------|
| Arborvitae    | Maple            |
| Azalea        | Marigold         |
| Birch         | Oak              |
| Boxwood       | Pansy            |
| Camellia      | Petunia          |
| Carnation     | Pine             |
| Chrysanthemum | Ornamental Plum  |
| Crab Apple    | Poplar           |
| Dogwood       | Rhododendron     |
| Douglas Fir   | Rose             |
| Elm           | Scotch Pine      |
| Euonymus      | Spirea           |
| Gladioli      | Spruce           |
| Hawthorn      | Sycamore         |
| Holly         | Wax Plant (Hoya) |
| Honey Locust  | Willow           |
| Honeysuckle   | Yellowwood       |
| Juniper       | Yew              |
| Lilac         |                  |
| Lily          |                  |
| Locust        |                  |

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

Apply the recommended rates indicated below. Spray when listed pests first appear. Try to spray underside of leaves and penetrate dense foliage. Repeat as necessary.

Insects	Amount of D•z•n diazinon AG600 WBC to Use	
	Rate per 3 Gals. Water	Rate per 100 Gals. Water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leaf-tiers, Privet Mites, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-spotted Spider Mites, Juniper Webworms, Whiteflies	1/2 fl. oz. (3 teaspoons)	12 3/4 fl. oz.
Apple-and-Thorn Skeletonizers, Cotoneaster Webworms, European Pine Sawfly, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars	1 1/4 fl. oz. (2 1/2 tablespoons)	38 1/4 fl. oz.

Mimosa Webworms: Mix 2 1/2 teaspoons in 3 gals. of water (or 12 3/4 fl. oz. in 100 gals. of water) and apply as a thorough foliar spray when adults first appear. Make a second and third application at 4 to 5-week intervals.



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**STORAGE AND DISPOSAL**

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Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. If freezing occurs, place the product in a warm room (68°F or above) and allow to thaw. Roll or shake container frequently until thawing is complete.

**Pesticide Disposal**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. To avoid harming aquatic organisms in rivers and other surface waters, do not pour the concentrate, spray mixture, or rinse water into sanitary drains (for example, toilets, floor drains, and sinks) or into storm water sewers (for example, street drains). If pesticide, spray mixture, or rinsate cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal**

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

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

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**PRECAUTIONARY STATEMENTS**

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**Hazards to Humans and Domestic Animals****CAUTION**

Harmful if swallowed, inhaled, or absorbed through skin. Causes eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor, or spray mist. Do not contaminate food or feed. Food utensils, such as tablespoons or measuring cups, must not be used for food purposes after use in measuring pesticides. Keep out of reach of domestic animals. Do not use on humans, household pets, or livestock. Do not permit children or pets to contact treated areas until spray has dried. Do not contaminate ornamental fish ponds.

**Have the product container or label with you when calling a poison control center or doctor or going for treatment.**

<b>FIRST AID</b>	
This product contains diazinon, an organophosphate insecticide that inhibits cholinesterase.	
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have a person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious or convulsing person.</li></ul>
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>HOT LINE NUMBER</b>	
In the event of a major fire, spill, or other emergency call 1-800-888-8372 day or night.	
<b>NOTE TO PHYSICIAN</b>	
This product contains diazinon, an organophosphate that inhibits cholinesterase. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal, but should be administered only in conjunction with atropine.	

**Personal Protective Equipment**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

**User Safety Recommendations**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**Engineering Control Statements**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**Environmental Hazards**

This product is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

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

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Syngenta Crop Protection, Inc.  
Greensboro, North Carolina 27409

SCP 784A-L1G 0101

January 11, 2001

April 18, 1995

Rates/Uses corresponds to CGA 1L128G 034  
Dzn diazinon AG500

December 4, 1995

Revised pending label - cranberries - changed  
gallorage to 15 ground, 5 aerial, added rate  
range for cranberry fruitworm per Cranberry  
Institute

February 9, 1996

Revised rates to be closer equivalent to  
AG500; 2/9/96 - changed "Apply to ... in mole  
cricket dfu's to broadcast ... added clarification  
"Notes" to Strawberry dfu's

April 8, 1996

EPA approved regis. 3/18/96 with Comments.  
3/27/96 - revised label accordingly, also delet-  
ed PPE and other WPS lang. from container  
label - these are allowed to be in booklet.

September 18, 1996

Revised - Added "Low Odor ..." claim and low  
odor and water based icons.

October 7, 1996

EPA approved. CGA 1L145B 106 - EPA also  
requested minor editorial revisions, also added  
cranberry irrigation water restriction per 1996  
Diazinon DCI and EPA letter of 11/96

February 18, 1997

Corrected rates to be equivalent to AG500  
(previously miscalculated when specific gravity  
was not considered), revised chemigation to  
include all crops, added statements regarding  
cranberry irrigation water re: 1996 DCI &  
Ciba's proposed language, incorporated blue-  
berry supplemental label approved by EPA  
6/21/96 allowing up to 5 apps. revised disposal  
statements (i.e., keep out of sewers, drains,  
etc.), add storage & disposal statements to

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container label & deleted container chemigation referral statements. Added "Repeat as necessary" to lawn dfu's. EPA approved 2/24/97 CGA 1L145C 037

March 24, 1997 - Changed icons to delete "Ciba," revised all refs. to Ciba to Novartis. NCP 1L145D 0397

October 6, 1997 - added tank mix, crop safety precautions, expanded chemigation to all crops. EPA approved 11/4/97 NCP 784A-L1E 0198

August 10, 1998 - Added Deer Ticks and Lone Star Ticks to "Lawn" and "Nuisance Pests" sections. EPA approved NCP 784A-L1F 0898.

1/9/01 - Crop deletions to implement 12/1/00 agreement and to update to Syngenta; revised First Aid per PR-Notice per 2001-1

[QUARK/DZN DIAZN AG600 WBC/N-DZN DIAZ AG600WBC-E] - ccg - 1/11/01

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**RESTRICTED USE PESTICIDE**

**DUE TO AVIAN AND AQUATIC TOXICITY**

**FOR RETAIL SALE TO AND USE BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.**

(Jug Label for 2.5 Gal.)

D•z•n® diazinon AG600 WBC

**INSECTICIDE**  
Water-Based Concentrate

For control of certain insects on fruits, nuts, vegetables, field crops, and ornamentals grown in nurseries

Active Ingredient:	
diazinon: (CAS No. 333-41-5) . . . . .	.56.0%
Other Ingredients:	44.0%
Total:	100.0%

**SHAKE CONTENTS WELL BEFORE USING.**

EPA Reg. No. 100-784

EPA Est. 70404-AL-001

See directions for use in attached booklet.

**AGRICULTURAL USE REQUIREMENTS**

**Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.**



2.5 GALLONS  
U.S. Standard Measure

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**PRECAUTIONARY STATEMENTS**

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Greensboro, NC 27409

SCP 784A-L1G 0101

January 11, 2001

[QUARK/DZN DIAZN AG600 WBC/N-DZN DIAZ AG600WBC-E] - ccg - 1/11/01