

Reg # 100-460

PM-13

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CERTIFIED MAIL

OCT - 9 1990

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

Subject: Product specific toxicology data and revised labeling submitted in response to the Diazinon Registration Standard; L-z-n Diazinon 50W
EPA Reg. No. 100-460
Your data submission received March 5, 1990 and your label submission received July 11, 1990

Dear Ms. Eussey:

The Agency has completed its review of the product specific toxicology data submitted in response to the Diazinon Registration Standard. Please refer to the attached copy of the Agency's review. In summary, the correct signal word for this product is "CAUTION" based upon the following results:

<u>Guideline</u>	<u>Description</u>	<u>MRIL No.</u>	<u>Tox. Category</u>	<u>Classification</u>
81-1	Acute Oral	41407210	III	Guideline
81-2	Acute Dermal	41407211	III	Guideline
81-3	Acute Inhalation	41407212 & 41407213	N.A.	Supplementary
81-4	Acute Eye Irritation	41407214	III	Guideline
81-5	Skin Irritation	41407215	IV	Guideline
81-6	Skin Sensitization	41407216	not a sensitizer	Guideline

Within 9 months of the date of receipt of this letter, Ciba-Geigy must submit an acceptable acute inhalation study. Diazinon 50W should be diluted with an appropriate vehicle (preferably water) and an acute inhalation study should be performed by aerosolizing the diluted 50W solution. Please refer to the Agency's review for details and discussion of your data submission.

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The labeling referred to above, submitted in connection with a registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable provided the following revisions are made prior to release for shipment under the amended labeling;

- 1) Revise the signal word to CAUTION.
- 2) In the "General Information" section, add "Do not apply to food crops grown in greenhouses."
- 3) In the beginning of the Directions For Use, revise the bold print sentence to indicate "FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND ALL PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES."
- 4) In the minimum gallonage/acre table for fruits and nut crops, add double asterisks after the crop name "Raspberries", and revise the "MINIMUM Gallons/Acre" for ground application to the crops "Grapes" and "Strawberries" to 100, rather than 20 and 10.
- 5) In the PHI and maximum number of applications/season table for fruit and nut crops, revise the "No. of Applications Permitted per Season" for the crop "Walnuts" to 3, to be consistent with the directions for use.
- 6) For the crop "Raspberries", revise the "Rate" directions to indicate something like "2 lbs. in a minimum of 100 gallons of water (200 gallons of water maximum) per acre." Also, revise the "Timing/Special Directions" to indicate "Apply in a minimum of 100 gals. of water per acre." rather than "Apply in a minimum of 100 gals. of spray per acre."
- 7) For the crop "Grapes", revise the "Rate" directions to indicate something like "1-2 lbs. in a minimum of 100 gallons of water (200 gallons of water maximum) per acre."
- 8) For the crop "Strawberries", revise the "Timing/Special Directions" to indicate "Application may be made to plants after harvest." rather than "Applications may be made to plants after harvest." Presumably, no more than one of the 3 foliar applications allowed per season would be made after harvest. Please clarify the label so that users (and this Agency) can determine whether this post-harvest application counts (or does not count) against the 3 application/season maximum.
- 9) The following revisions to the table of minimum gallonage/acre for vegetable crops are recommended:
 - a) Delete "Lima Beans (succulent)", since this crop is included in the listing "Beans (Lima, Pole, and Snap)(succulent only)". [Note the revised (alphabetical) listing of bean types.]

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- b) Revise the listing for "Onions" to "Onions (bulb and green)".
 - c) Revise "Radish" to "Radishes", since other crop listings are plural.
 - d) Delete "Red (Table) Beets", since this is a duplicate of the listing for "Beets, Red (Table)".
 - e) You may wish to revise (and relocate) the "Squash" listings to read "Squash, Summer" and "Squash, Winter".
- 10) Make the following revisions to the PHI table for foliar application to vegetable crops:
- a) Delete "Lima Beans", since this crop is included in the listing "Beans (Lima, Pole, and Snap)". [Note the revised (alphabetical) listing of bean types.]
 - b) Revise the listing for "Beets" to "Beets, Red (Table)".
 - c) Revise the listing for "Endive" to "Endive (Escarole)".
 - d) Revise the listing for "Onions" to "Onions (bulb and green)".
 - e) Revise "Radish" to "radishes", since other crop listings are plural.
 - f) Delete "Red (Table)" ["Beets" apparently omitted inadvertently], since this is a duplicate of the listing for "Beets, Red (Table)".
 - g) You may wish to revise (and relocate) the "Squash" listings to read "Squash, Summer" and "Squash, Winter", since this is how the crops are identified in the specific directions for use.
 - h) Delete the listing for "Sweet Potatoes", since there are no directions for foliar application to this crop.
- 11) In the specific directions for use, revise the listing for "Onions" to "Onions (bulb and green)".
- 12) For the crop "Beans", revise the pest name "Leafminers" to "Dipterous Leafminers".
- 13) For the crop "Peppers", for the pests "Aphids, Serpentine Leafminers" add the following Note to the "TIMING/SPECIAL DIRECTIONS" column:
- Note: Diazinon will not control organophosphate-resistant leafminers.
- 14) For the crop "Potatoes", relocate the note about commercially grown potatoes to the bottom of the directions for use for this crop.

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- 15) Revise "Radish" to "Radishes", since other crop listings are plural.
- 16) For the crop "Tomatoes", for the pests "Aphids, Dipterous Leafminers" add the following note to the "TIMING/SPECIAL DIRECTIONS" column:

Note: Diazinon will not control organophosphate-resistant leafminers.

- 17) Under the heading "Fly Control in Livestock Structures", the directions for "Bait Sprays" are missing three paragraphs. These missing paragraphs now incorrectly appear at the bottom of the "Nuisance Pests in Outside Areas" directions. Relocate these three paragraphs to the correct location.
- 18) Add the following precautions as the last paragraph of the "Nuisance Pests in Outside Areas" directions:

Do not apply to animals. Do not treat plants, other than tree trunks, at this nuisance pest rate.

- 19) Further revisions to the Precautionary Statements may be required upon completion of the Agency's review of the acute inhalation study which is still an outstanding data requirement for this product. At this time, revise the signal word under the heading "hazards to humans and domestic animals" to "CAUTION" and replace the first two sentences with the following:

Harmful if swallowed, inhaled, or absorbed through skin.

- 20) In the Statement of Practical Treatment, add the following to the "If on skin" advice: "Get medical attention if irritation persists."

Note: Please retain your current text for the first sentence of this advice.]

A stamped copy of the label is enclosed for your records. Please submit five (5) copies of the revised amended label prior to release for shipment under the amended label. Please refer to the Diazinon Registration Standard, as amended, for release for shipment and channels of trade dates for diazinon products bearing appropriately amended labels.

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Fungicide Branch
Registration Division (47504C)

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RESTRICTED USE PESTICIDE

DUE TO AVIAN AND AQUATIC TOXICITY

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

ACCEPTED
with COMMENTS
in EPA Letter Dated:

OCT -9 1980

by the Federal Insecticide,
Fungicide, and Rodenticide Act.
Registered for the pesticide
category under EPA Reg. No.

100-460

D·z·n

diazinon 50W

INSECTICIDE

For control of certain insects and mites on fruits, nuts, vegetables, field crops, lawns, and ornamentals. For specific pests, refer to use directions.

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

Active Ingredient: O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate	50%
Inert Ingredients:	50%
Total:	100%

D·z·n diazinon 50W is a wettable powder.

EPA Reg. No. 100-460

**KEEP OUT OF REACH OF CHILDREN.
WARNING/AVISO**

PRECAUCIÓN AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

See additional precautionary statements and directions for use inside booklet. CGA 1L66L 050

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable, return the unopened product container at once.

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. **CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.**

CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

General Information

D·z·n diazinon 50W is a wettable powder which should be mixed with sufficient water to assure thorough coverage unless otherwise noted in the Directions for Use.

Best control is obtained when application is made at first sign of pests. Application should be repeated only as directed to maintain control.

Since D·z·n diazinon 50W is a wettable powder formulation, constant agitation is necessary during application.

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

D·z·n diazinon 50W may be applied aerially to head lettuce, tomatoes, apples, pears, peaches, nectarines, plums, prunes, cherries, apricots, almonds, and walnuts only.

DIRECTIONS FOR USE

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

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

CHEMIGATION

APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) -- CRANBERRIES ONLY

D·z·n diazinon 50W may be applied alone or in combination with other pesticides registered for application through sprinkler irrigation systems for cranberries. To insure compatibility, pour the product into a small container of water in the correct proportion.

After thorough mixing, let stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is compatible.

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

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

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

Chemigation System Connected to Public Water Systems

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

Sprinkler Chemigation

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

Operating Instructions

1. Determine the acreage to be treated by the sprinkler system.
2. Measure the appropriate amount of D·z·n diazinon 50W needed to treat the acreage to be treated. Refer to the specific directions for use for cranberries for the application rate and the amount of water per acre.

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D·z·n diazinon 50W

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3. Add the pre-measured D·z·n diazinon 50W to the chemigation system supply tank and dilute with water if needed. Constant agitation is required to keep the product in solution when D·z·n diazinon 50W is used alone or tank mixed with other pesticides registered for sprinkler chemigation application to cranberries.
4. Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.
5. Engage the chemigation injection or venturi system to add the diazinon to the irrigation lines.
6. Continue to run irrigation system for a few minutes after supply tank is empty to allow material in the irrigation lines to reach the sprinkler heads furthest from the chemigation injection point.

Work Safety Rules

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

When handling D·z·n diazinon 50W, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See Practical Treatment section of this label. When handling this product, wear the personal protective equipment listed in the following section.

PERSONAL PROTECTIVE EQUIPMENT

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

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

Reentry Statement

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

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

In vegetables, fruit trees, or field crops, written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must inform workers of areas or fields that may not be entered without specific personal protective equipment for 24 hours after application, and appropriate actions to take in case of accidental exposure, as described under Statement of Practical Treatment in the Precautionary Statements on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: **WARNING:** Area treated with D·z·n diazinon 50W on (date of application). Do not enter without appropriate personal protective equipment for 24 hours after application. In case of accidental exposure, flush eyes and skin with plenty of water. Call physician if irritation persists. Remove and wash contaminated clothing before reuse.

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

Fruit and Nut Crops

D·z·n diazinon 50W may be applied using ground or aerial application equipment as follows in the table below. The specific amount of product to be used appears under the separate directions for use for each crop.

CROP	AIR	MINIMUM Gallons/Acre	GROUND	MINIMUM Gallon/Acre	
				DILUTE	CONCENTRATE
Almonds*	Yes	20	Yes	100	20
Apples	Yes	20	Yes	100	20
Apricots	Yes	20	Yes	100	20
Blackberries**	No	—	Yes	100	—
Boysenberries	No	—	Yes	100	—
Cherries	Yes	20	Yes	100	20
Cranberries	No	—	Yes	400	—
Dewberries**	No	—	Yes	100	—
Grapes	No	—	Yes	20	—
Loganberries**	No	—	Yes	100	—
Nectarines	Yes	20	Yes	100	20
Peaches	Yes	20	Yes	100	20
Pears	Yes	20	Yes	100	20
Pineapple	No	—	Yes	200	—
Plums	Yes	20	Yes	100	20
Prunes	Yes	20	Yes	100	20
Raspberries**	No	—	Yes	100	—
Strawberries	No	—	Yes	10	—
Walnuts*	Yes	20	Yes	100	20

*CA only

**CA, OR, or WA only

The rate of D·z·n diazinon 50W for concentrate ground and aerial sprays is based on a dilute full cover spray with conventional ground equipment applied at a rate of 300-600 gallons of water per acre. If directions call for 1 lb. of D·z·n diazinon 50W per 100 gallons of water this amounts to 3-6 lbs. per acre when applied at dilute ground spray volumes.

Observe stated time intervals between last application and harvest, as well as intervals between application and total number of applications that can be made per season:

CROP	* PHI	No. of Applications Permitted per season
Almonds	45	5
Apples	14	8
Apricots	10	5
Blackberries	7	5
Boysenberries	7	5
Cherries	10	5
Cranberries	7	5
Dewberries	7	5
Grapes	18/7*	5
Loganberries	7	5
Nectarines	10	5
Peaches	20	5
Pears	14	8
Pineapple	7	8
Plums Prunes	10	5
Raspberries	7	5
Strawberries	5	5
Walnuts	45	5

* 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 on grapes

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

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Almonds (CA only)	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	1-1 1/2 lbs. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 6 lbs. of diazinon or 5 gals. of oil per acre per application.
	Spider Mites, Twig Borers	1-1 1/2 lbs. in 100 gals. 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.
Apples	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	1 lb. + 2 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant or delayed dormant spray. Do not apply more than 6 lbs. of diazinon or 9 gals. of oil per acre per application.
	Leafhoppers	1 lb. in 100 gals. of water	Apply, beginning at petal fall, as infestations develop. Repeat application in 14 days if necessary. Do not apply more than 6 lbs. of diazinon per acre per application. Do not make more than 3 applications per season. Do not apply within 14 days of harvest or illegal residues may occur.
	Eyespotted Bud Moths, Fruit Tree Leafrollers, Mealybugs	1 lb. in 100 gals. of water	Make 3 cover sprays, beginning at pink stage. Do not repeat application closer than 14 days. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 14 days of harvest or illegal residues may occur.

Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Woolly Apple Aphids, Spider Mites	1 lb. in 100 gals. of water	Make 3 cover sprays beginning when infestations occur. Do not repeat applications closer than 14 days. Do not apply within 14 days of harvest or illegal residues may occur. NOTE: Mites will be suppressed if diazinon is used in the regular cover spray program. Slight russeting may occur on some varieties of apples such as Golden Delicious.	
Apple Maggots	1 lb. in 100 gals. of water	Make 3 cover sprays when flies are active and laying eggs. Do not repeat applications closer than 14 days. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 14 days of harvest or illegal residues may occur. NOTE: Diazinon may not control organophosphate-resistant apple maggots.	
San Jose Scale, Crawlers, Forbes Scale Crawlers	1 lb. 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 more than 6 lbs. of diazinon per acre per application.	
Apricots	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	1 lb. + 2 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 6 lbs. of diazinon or 9 gals. of oil per acre per application.
	Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 lb. in 100 gals. 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 lb. + 1 1/2 gals. of light medium horticultural oil in 100 gals. of water	Apply when scale crawlers are present. Do not apply more than 3 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.

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	Apricot Mealybugs	1 lb. in 100 gals. of water	Apply as a cover spray from petal fall to June up 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.
Cane-berries CA, OR and WA only (Black-berries, Boysen-berries, Dew-berries, Logan-berries, Rasp-berries)	Leafhopper, Thrips, Aphids, Twospotted Spider Mites, Raspberry Fruitworms	2 lbs. per acre or 1 lb. per 100 gals. of water (200 gals. per acre maximum)	Apply as insects occur. Repeat application 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 gals. of spray per acre. For Raspberry Fruitworms make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Raspberry Mites	2-4 lbs. per acre in a minimum of 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.
	Raspberry Crown Borers (Raspberry Root Borer)	4 lbs. per acre in a minimum of 100 gals. of water	Apply as a drench to the crown and lower canes in the spring before buds break. Apply in a minimum of 100 gals. of water per acre.
Cherries	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, Wash Plum Aphid Eggs, Mealybug	1 1/4 lbs. + 3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 6 lbs. of diazinon or 9 gals. of oil per acre per application.
	Eyespot Bud Moths, Fruit Tree Leafrollers	1 lb. in 100 gals. of water	Apply as infestations occur beginning at petal fall. Repeat application after 7 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.

	Leafhoppers	1 lb. in 100 gals. of water	Make 3-4 applications beginning at petal fall and continuing through the growing season as infestations occur. Do not apply more than 6 lbs. of diazinon per acre per application. Allow 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur.
	Cherry Fruitflies	1/2-1 lb. in 100 gals. of water	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals. 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.
	Black Cherry Aphids	1 lb. in 100 gals. of water	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary. 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.
	San Jose Scale Crawlers	1 lb. in 100 gals. of water	Apply during the pre-pink stage or when crawlers first appear. 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.
	Cherry Rust Mites	1/2-1 lb. in 100 gals. of water	Apply as a single supplemental spray to trees after harvest. Do not apply more than 6 lbs. of diazinon per acre.
Cran-berries	Blackheaded Fireworms	4 lbs. in 400 gals. of water	Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 6 applications per season is permitted. Do not apply within 7 days of harvest or illegal residues may occur.
	Cranberry Fruitworms	6 lbs. in 400 gals. of water or 2 1/4 oz. in 9 1/4 gals. of water per 1,000 square feet	Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 4 applications per season is permitted. Do not apply within 7 days of harvest or illegal residues may occur.
NOTE: This product may be applied to cranberries through sprinkler irrigation. Refer to the section "Chemigation" for specific chemigation directions for use.			

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Grapes	Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leafrollers, Omnivorous Leafrollers, Aphids, Spider Mites	1-2 lbs. per acre or 1 lb. in 100 gals. of water (200 gal. maximum per acre)	Apply as a thorough cover spray when pest appears. Repeat application after 7 days if necessary. Do not make more than 5 applications per season. Do not apply within 18 days of harvest or illegal residues may occur.
	<i>Drosophila</i> spp.	6 oz. per 100 gals. of water (300 gal. maximum per acre)	Apply as a thorough cover spray at 7-day intervals. Do not make more than 5 applications per season. Do not apply within 18 days of harvest if a spreader sticker is used. <i>Drosophila</i> applications may be made up to 7 days before harvest if a spreader-sticker is not used.
Nectarines	San Jose Scale, Parlatoria Scale, Black Scale, Brown Scale, European Red Mite Eggs, Twig Borers, Apple Aphid Eggs, Black Cherry Aphid Eggs, Mealy Plum Aphid Eggs, Mealybugs	1 lb. + 2-3 gals. of dormant oil or 1-1½ gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 6 lbs. of diazinon or 9 gals. of oil per acre per application.
	Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 lb. in 100 gals. 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.
	Peach Twig Borers, Parlatoria Scale	1 lb. + 1 gal. light medium summer horticultural oil in 100 gals. of water	Apply at petal fall. Do not apply more than 6 lbs. of diazinon or 6 gals. of summer oil per acre per application.
	Olive Scale Crawlers	½ lb. + 1½ gals. light medium summer horticultural oil in 100 gals. of water	Apply as insects occur. Do not apply more than 6 lbs. of diazinon or 6 gals. of summer oil per acre or make more than 4 applications per season. Allow 7 days between applications. Do not apply within 10 days of harvest, or illegal residues may occur.
	Oriental Fruitmoths	1 lb. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight. Do not apply more than 6 lbs. of diazinon per acre per season. Do not apply within 20 days of harvest, or illegal residues may occur.
	Peach Twig Borers	1 lb. in 100 gals. 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 application or make more than 4 applications per season. Do not apply within 20 days of harvest, or illegal residues may occur.
	Leafhoppers	1 lb. in 100 gals. of water	Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 20 days of harvest, or illegal residues may occur.

Peaches	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	1 lb. + 2-3 gals. dormant oil or 1-1½ gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 6 lbs. of diazinon or 9 gals. of oil per acre per application
	Aphids, Brown Mites (Clover Mites), Twospotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 lb. in 100 gals. 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.
Peach Twig Borers, Parlatoria Scale	1 lb. + 1 gal. light medium summer horticultural oil in 100 gals. of water	Apply at petal fall. Do not apply more than 6 lbs. of diazinon or 6 gals. of summer oil per acre.	
Olive Scale Crawlers	½ lb. + 1½ gals. light medium horticultural oil in 100 gals. of water	Apply as insects occur. Do not apply more than 6 lbs. of diazinon or 6 gals. of summer oil per acre per application or make more than 4 applications per season. Allow 7 days between applications. Do not apply within 20 days of harvest, or illegal residues may occur.	
Oriental Fruit Moths	1 lb. in 100 gals. of water	Apply at 100% petal fall. Make 2 additional applications at 10-15 day intervals. Time the last application to peak adult flight. Do not apply more than 6 lbs. of diazinon per acre per season. Do not apply within 20 days of harvest, or illegal residues may occur.	
Peach Twig Borers	1 lb. in 100 gals. 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 application or make more than 4 applications per season. Do not apply within 20 days of harvest, or illegal residues may occur.	
Leafhoppers	1 lb. in 100 gals. of water	Make 3-4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 20 days of harvest, or illegal residues may occur.	

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	White Peach Scale	1 1/2 lbs. 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.
NOTE: Do not make more than 5 applications to any crop of peaches. For example, 1 dormant spray and 4 cover sprays.			
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, N. ealy Plum Aphid Eggs, Mealybugs	1 lb. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 9 gals. of oil per acre per application or 6 lbs. of diazinon per acre per application.
	Pear Psylla	1/2-1 lb. 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. Do not apply more than 6 lbs. of diazinon per application per acre. Do not apply within 14 days of harvest, or illegal residues may occur.
	Tentiform Leafminers, Mealybugs	1 lb. in 100 gals. of water	Apply in three cover sprays, beginning in April. Do not apply more than 6 lbs. of diazinon per application per acre. Do not apply within 14 days of harvest, or illegal residues may occur.
	Codling Moths, Rosy Apple Aphids, Green Apple Aphids, Woolly Apple Aphids, Mites	1 lb. in 100 gals. of water	Make 3 cover sprays beginning as infestations occur. Do not repeat applications closer than 14 days. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 14 days of harvest, or illegal residues may occur. NOTE: Mites will be suppressed if diazinon is used in this regular cover spray program.
	Apple Maggots	1 lb. in 100 gals. of water	Make 3 cover sprays when flies are active and laying eggs. Do not repeat applications closer than 14 days. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 14 days of harvest, or illegal residues may occur. NOTE: Diazinon may not control organophosphate-resistant apple maggot.

	San Jose Scale Crawlers, Forbes Scale Crawlers	1 lb. 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 more than 6 lbs. of diazinon per acre per application.
Pineapple	Pineapple Mealybugs	2 lbs. per acre	Apply in 200-500 gals. of water per acre. Repeat application as necessary every 28 days up to a maximum of 8 applications. Do not apply within 7 days of harvest or illegal residues may occur. Pineapple forage and refuse may not be fed to livestock.
Plums	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	1 lb. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 9 gals. of oil per application per acre or 6 lbs. of diazinon. For late April or May applications mix diazinon with 1 gal. of light medium summer horticultural oil per 100 gals. of water.
	Brown Mites, Clover Mites, European Red Mites	1 lb. in 100 gals. of water	Apply as needed every 7 days up to a maximum of 4 applications per season. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 10 days of harvest, or illegal residues may occur.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 lb. in 100 gals. of water	
Prunes	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	1 lb. + 2-3 gals. dormant oil or 1-1 1/2 gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 9 gals. of oil per application per acre or 6 lbs. of diazinon. For late April or May applications mix diazinon with 1 gal. of light medium summer horticultural oil per 100 gals. of water.
	Brown Mites, Clover Mites, European Red Mites	1 lb. in 100 gals. of water	Apply as needed every 7 days up to a maximum of 4 applications per season. Do not apply more than 6 lbs. of diazinon per acre per application. Do not apply within 10 days of harvest, or illegal residues may occur.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 lb. in 100 gals. of water	

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Strawberries	Aphids, Twospotted Spider Mites	1 lb. in 100 gals. of water per acre	Apply as pests occur. Repeat application if necessary after 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 Mites	2 lbs. in 100 gals. of water per acre	Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat application after 7 days if necessary. Do not make more than 3 foliar applications per season. Do not apply within 5 days of harvest or illegal residues may occur. Applications may be made to plants after harvest.
	Mole Crickets	2 lbs. per acre	Apply 1-2 days before transplanting and immediately incorporate into the top 1-2 inches of soil.
	Strawberry Leafrollers	¾-1 lb. in 100 gals. of water	Apply 200 gals. of spray per acre when blossoms show color. Do not apply within 5 days of harvest or illegal residues may occur.
Walnuts (CA only)	Aphids, Spider Mites	2 lbs. per acre	Apply as a foliar spray. Repeat application in 14 days if necessary. Do not make more than 3 applications per season. Do not apply within 45 days of harvest or after husks open or illegal residues may occur. Make ground applications in a minimum of 100 gals. of water per acre.
	Codling Moths, Scale Crawlers, Walnut Caterpillars	6 lbs. per acre	

Vegetable Crops

For foliar or soil applications, D·z·n diazinon 50W should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. D·z·n diazinon 50W may be applied aerially only to certain crops as specified in the following table. The specific amount of product to be used appears under the separate directions for use for each crop.

CROP	GROUND APPLI-CATION	MIN. GPA	OR	MIN. GALS. PER 1000 SQ. FT.	AIR APPLI-CATION	MIN. GPA
Beans (lima, snap, and pole) (succulent only)	Yes	10		2	No	—
Beets, Red (Table)	Yes	10		2	No	—
Broccoli	Yes	10		2	No	—
Brussels Sprouts	Yes	10		2	No	—
Cabbage	Yes	10		2	No	—
Cantaloupes	Yes	5		1	No	—
Carrots	Yes	10		2	No	—
Casabas	Yes	5		1	No	—
Cauliflower	Yes	10		2	No	—
Celery	Yes	10		2	No	—
Chinese Broccoli	Yes	10		2	No	—
Chinese Cabbage	Yes	10		2	No	—
Chinese Mustard	Yes	10		2	No	—
Collards	Yes	10		2	No	—
Crenshaws	Yes	5		1	No	—
Cucumbers	Yes	5		1	No	—
Endive (escarole)	Yes	10		2	No	—
Honeydew Melons	Yes	5		1	No	—
Kale	Yes	10		2	No	—
Lettuce, Head	Yes	10		2	Yes	5
Lima Beans (succulent only)	Yes	10		2	No	—
Muskme ons	Yes	5		1	No	—
Mustard	Yes	10		2	No	—
Onions (green and bulb)	Yes	10		2	No	—
Parsley	Yes	10		2	No	—
Parsnips	Yes	10		2	No	—
Peas (succulent only)	Yes	10		2	No	—
Peppers	Yes	10		2	No	—
Persian Melons	Yes	5		1	No	—
*Potatoes (Irish)	Yes	10		2	No	—
Radish	Yes	10		2	No	—
Red (Table) Beets	Yes	10		2	No	—
Spinach	Yes	10		2	No	—
Summer Squash	Yes	5		1	No	—
Sweet Corn	Yes	20		4	No	—
Sweet Potatoes	Yes	10		2	No	—
Swiss Chard	Yes	10		2	No	—
Tomatoes	Yes	10		2	Yes	5
Turnips	Yes	10		2	No	—
Watermelons	Yes	5		1	No	—
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

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Pre-Harvest Intervals (PHI*) for Foliar Applications

Crop	*PHI (Days)
Beans (lima, snap, pole)	7
Beets, Red Table	14
Broccoli	5
Brussels Sprouts	7
Cabbage	7
Cantaloupes	3
Carrots	10
Casabas	3
Cauliflower	5
Celery	10
Chinese Broccoli	10
Chinese Cabbage	10
Chinese Mustard	10
Collards	10
Cress, laws	3
Cucumbers	7
Endive	10
Honeydew Melons	3
Kale	10
Lettuce	10
Lima Beans	7
Muskmelons	3
Mustard	10
Onions (green and bulb)	10
Parsnips	10
Peas	0
Peppers	5
Persian Melons	3
Potatoes (Irish)	35
Radish	10
Red (Table)	14
Spinach	10
Summer Squash	7
Sweet Corn	0
Sweet Potatoes	7
Swiss Chard	12
Tomatoes	1
Turnip Tops	10
Watermelons	3
Winter Squash	3

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

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

CR/P	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Beans (Pole, Snap, or Lima) (succulent only)	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Black Bean Aphids, Mexican Bean Beetles, Dipterous Leafminers	1-1 1/2 lbs. per acre or 2 1/5-3 1/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur.
	Cucumber Beetles	1/2-3/4 lbs. per acre or 1 1/5-2 1/10 oz. per 1,000 sq. ft.	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 gals. water per acre. NOTE: Diazinon will not control organophosphate-resistant leafminers.
	Dipterous Leafminers, Leafhoppers, Spider Mites	1 lb. per acre or 1 1/5 oz. per 1,000 sq. ft.	Apply as pests occur. Repeat application as necessary every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Beets, Red (Table)	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting, and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 lb. per acre or 1 1/5-2 1/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application as necessary up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest, or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

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Broccoli	Root Maggots	4-6 lbs. per acre or 1½-2¼ oz. per 1,000 sq. ft.	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½-1 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	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or ¾ oz. per 1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2¼-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Brussels Sprouts	Root Maggots	4-6 lbs. per acre or 1½-2¼ oz. per 1,000 sq. ft.	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½-1 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	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lb. per acre or ¾ oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.

Cabbage	Wireworms	6-8 lbs. per acre or 2¼-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms	½-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 7 days of harvest or illegal residues may occur.
Cabbage	Root Maggots	4-6 lbs. per acre or 1½-2¼ oz. per 1,000 sq. ft.	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply ½-1 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	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Incorporation Note.)
	Mole Crickets	2 lbs. per acre or ¾ oz. per 1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2¼-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	½-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 7 days of harvest, or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

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Carrots	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids	1 lb. per acre or 2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 10 days of harvest, or illegal residues may occur.
Cauliflower	Root Maggots	4-6 lbs. per acre or 1 1/2-2 1/4 oz. per 1,000 sq. ft.	Broadcast just before planting or transplanting and immediately incorporate into the top 3-4 inches of soil.
		4-8 oz. in 50 gals. of water	In transplant water as a drench application when 200-300 gals. of water are used per acre. Apply 1/2-1 cup (4 to 8 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	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 7 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.	

Celery	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetles, Cabbage Loopers	1 lb. per acre or 2/5 oz. per 1,000 sq. ft.	Mix in 100 gals. of water to spray 1 acre (2 1/4 gals. for 1,000 sq. ft.) Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. 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.
	Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest. Plants should be market trimmed (tops removed) before being shipped or used. Tops should not be used for food or feed. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Chinese Broccoli	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Chinese Cabbage (Bok Choy and Napa)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Chinese Mustard (Gai Choy)	Aphids, Diamondback Moths, Imported Cabbageworms, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

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Collards	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin bugs, Corn Earworms	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur.
Cucumber	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers, Thrips, Striped Cucumber Beetles, Melonworms	1 lb. per acre or 2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Endive (Escarole)	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting or transplanting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate 4-8 inches into soil.
	Aphids, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 10 days of harvest. NOTE: Diazinon will not control organophosphate-resistant leafminers.

Kale	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths, Imported Cabbageworms, Harlequin bugs, Corn Earworms	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur.
Lettuce	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2-1 lb. per acre or 3/16-3/8 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 10 days of harvest. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Melons (Cantaloupes, Casabas, Crenshaw, Honeydew, Musk-melons, Persians, & Hybrids of these) and Water-melons	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	1/2-1 1/2 lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 5 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

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Mustard	Mole Crickets	2 lbs. per acre or ¾ oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2¼-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers, Diamondback Moths, Imported Cabbageworms	½-1 lb. per acre or ⅕-⅔ oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Onions (green and bulb)	Onion maggots	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	Broadcast just before planting and mix into the top 3-4 inches of soil by disking, harrowing, or other suitable means. NOTE: Diazinon will not control organophosphate-resistant onion maggots.
	Onion thrips	1 lb. per acre or ⅓ oz. per 1,000 sq. ft.	Apply as thrips appear. Repeat after 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	6-8 lbs. per acre or 2¼-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Parsley	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2¼-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Parsnips	Aphids, Flea Beetles, Dipterous Leafminers	½-1 lb. per acre or ⅕-⅔ oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

Peas (succulent only)	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2¼-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Aphids, Leafminers	¾-1 lb. per acre or ⅓-⅔ oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. Peas may be picked immediately after application. Virus and hay may be fed to dairy and beef cattle and sheep. To avoid illegal residues, wait 4 days following treatment if forage is to be cut for hay. NOTE: Diazinon will not control organophosphate-resistant leafminers.
Peppers	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or ¾ oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2¼-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Serpentine Leafminers	½ lb. per acre or ⅕ oz. per 1,000 sq. ft.	Apply as insects appear. Repeat application after 7 days if necessary. Do not make more than 5 applications per season. Do not apply within 5 days of harvest or illegal residues may occur.

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Potatoes	Cutworms (Surface and Subterranean)	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)	Squash, Summer	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Southern Potato Wireworms (Southeastern U.S.)	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	For potatoes grown on mineral soils in the Southeast, apply prior to planting and immediately incorporate into the top 3-6 inches of soil depending on location of wireworms.		Wireworms	6-8 lbs. per acre or 2¼-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	NOTE: Do not use on commercially grown potatoes which will be hand-harvested.				Aphids, Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	½-1½ lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.
	Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers	½-¾ lb. per acre or 2/10-3/10 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.		Squash, Winter	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.
Banded Cucumber Beetles, Leafhoppers, Southern Armyworms	¾-1 lb. per acre or 3/10-4/10 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application as necessary up to 5 times with a minimum of 7 days between applications. Do not apply within 35 days of harvest or illegal residues may occur.	Aphids, Leafminers, Thrips, Striped Cucumber Beetles, Melonworms, Leafhoppers, Spider Mites	½-1½ lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.		
Radish	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)	Sweet Corn	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or ¾ oz. per 1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate in the top 1-2 inches of soil.		Seed Corn Maggots	4-8 lbs. per acre or 1½-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2¼-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.		Wireworms	6-8 lbs. per acre or 2¼-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	½-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application as necessary up to 5 times with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.		Corn Earworms	2-2½ lbs. per acre or ¾-1 oz. per 1,000 sq. ft.	Apply when silks first appear. Repeat application every 7 days up to a maximum of 5 applications, as necessary. Corn may be picked immediately following last application. Corn may be fed to beef and dairy cattle and sheep.
Spinach	Aphids, Dipterous Leafminers	½-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest. NOTE: Diazinon will not control organophosphate-resistant leafminers.		Corn Leaf Aphids	1-2 lbs. per acre or 2/5-3/4 oz. per 1,000 sq. ft.	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. Corn may be picked immediately following last application.

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	Grasshoppers, Spider Mites, Fleabeetles	1 lb. per acre or 2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat if necessary, but do not make more than 5 applications per season. Corn may be picked immediately following last application. Forage may be fed to beef and dairy cattle and sheep.
	Sap Beetles	2-2 1/2 lbs. per acre or 3/4-1 oz. per 1,000 sq. ft.	Consult local agricultural authorities for proper timing of application. Repeat application in 7 days, if necessary. Do not make more than 5 applications per season. Corn may be picked immediately following last application. Forage may be fed to beef and dairy cattle and sheep.
Sweet Potatoes	Wireworms, Flea Beetles	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Swiss Chard	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Corn Earworms, Imported Cabbageworms, Diamondback Moths, Harlequin bugs	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 12 days of harvest or illegal residues may occur.
Tomatoes	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	1/2 lb. per acre or 1/5 oz. per 1,000 sq. ft.	Apply as insects appear. Repeat application after 7 days, if necessary. Do not make more than 5 applications per season.
	Pink and Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms	3/4-1 lb. per acre or 3/10-2/5 oz. per 1,000 sq. ft.	Do not apply within one day of harvest or illegal residues may occur.
	Vinegar Flies (<i>Drosophila</i> spp.)	1/2-1 1/2 lbs. per acre or 1/5-3/5 oz. per 1,000 sq. ft.	

Turnips and Turnip Tops	Cutworms	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or 3/4 oz. per 1,000 sq. ft.	Apply to plant beds or fields 1-2 days before planting and immediately incorporate into the top 1-2 inches of soil.
	Wireworms	6-8 lbs. per acre or 2 1/4-3 oz. per 1,000 sq. ft.	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Flea Beetles, Dipterous Leafminers	1/2-1 lb. per acre or 1/5-2/5 oz. per 1,000 sq. ft.	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur. NOTE: Diazinon will not control organophosphate-resistant leafminers.

Mushroom Houses

Mushroom flies (Phorids and Sciarids):

Mix 8 lbs. of D-z-n diazinon 50W in 50 gallons of water and spray on outside and inside walls and ventilators of mushroom houses after compost has been pasteurized by heating. Note: Do not spray the compost in the beds or after spawning.

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

Seed Treatment - Planter Box Treatment

In the planter box, mix with seed as a dry mixture. Stir slightly using a mixing stick. DO NOT MIX WITH BARE HANDS. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seed beyond planting time. Exposed treated seeds may be hazardous to birds and other wildlife. Collect or incorporate treated seed that are spilled during loading or are visible on soil surface in turn areas. Dispose of excess treated seed by burial away from bodies of water.

Note: (1) If seed has not been treated with a fungicide, use an EPA-registered fungicide combination with D-z-n diazinon 50W at rates indicated on the fungicide package. Failure to use a fungicide may result in injury to the seed. (2) If the seed treatment increases the friction between seeds sufficiently to reduce the rate of delivery through the planter, 1/2 oz. of graphite per bushel seed should be added as a drill lubricant to the planter to give the required rate of seed delivery with the treated seed. (3) Treated seed must not be used for or mixed with food or animal feed or processed for oil.

Corn

Seedcorn beetle: Mix 3 oz. per bushel of seed

Corn, Succulent Peas and Succulent Beans:

Seedcorn maggot: Mix 1/2 oz. per bushel of seed.

Field Crops

Apply soil and foliar applications of D-z-n diazinon 50W 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 Intervals (PHI*) For Foliar Applications

Crop	* PHI
Hops	14
Sugar Beets	7

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

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CROP	PEST	RATE	TIMING/SPECIAL DIRECTIONS
Hops	Aphids, Spider Mites	2 lbs. per acre	Apply as pests occur. Repeat applications, if necessary in 14 days. Do not make more than 5 applications or apply within 14 days of harvest or illegal residues may occur.
Sugar Beets	Wireworms	6-8 lbs. per acre	Broadcast just before planting and immediately incorporate into the top 4-6 inches of soil. Do not apply more than 8 lbs. of this product to the soil, per season. Tops may be fed to beef and dairy animals.
	Beet Leafhoppers, Dipterous Leafminers, Aphids	3/4-1 lb. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 7 days of harvest. NOTE: Diazinon will not control organophosphate-resistant leafminers.
	Grasshoppers	1 lb. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 7 days of harvest.

Grassland Insects

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

Grasshoppers: Apply 3/4-1 lb. per acre in sufficient water or oil to obtain thorough coverage when insects first appear, preferably in the nymphal stage.

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

Livestock Insects

Sheep "Ticks" (Keds), Lice

High gallonage, high pressure spray: Mix 1/2 lb. in 100 gals. of water, and apply at the rate of 1 gal. per animal.

Low gallonage, low pressure spray: Mix 1 lb. in 100 gals. of water. Apply at the rate of 1 qt. per animal.

Sprinkler Can: Mix 1 oz. in 6 gals. of water. Crowd sheep into a small pen and sprinkle 1 qt. of this mixture over the head, neck, top, and side of each sheep. Stir or agitate mixture frequently.

Note: Do not slaughter sheep within 14 days after treatment. Repeat applications as necessary.

Fly Control in Livestock Structures

Fly control in barns and animal sleeping quarters (except dairy barns, milk rooms, and poultry houses).

Residual Sprays: Remove animals from buildings or corrals prior to treatment and keep animals out for at least four hours. Mix 2 lbs. of D-z-n diazinon 50W in 25 gals. of water and apply as an overall spray to ceilings and walls of livestock sheds, calf barns, hog barns, loading sheds, and other farm buildings except poultry houses, dairy barns, and milk rooms. Areas where flies congregate, such as garbage dumps and corrals, should be sprayed thoroughly. Longer residual control may be obtained by increasing the rate to 4 lbs. in 25 gals. of water. Applications should be made to point of runoff. One gal. of the above spray should cover from 350-750 sq. ft. of area, depending on the surface treated. Repeat applications as fly populations warrant.

Bait Sprays: Mix the appropriate amount of D-z-n diazinon 50W with 1 lb. of sugar (or 2 cups of syrup or molasses) for the desired application.

Insects of Ornamentals

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

Insects	Amount of D-z-n diazinon 50W 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 leafhoppers, Privet mites, Scale crawlers (Cottony cushion, Lecanium, Pine needle, San Jose, Soft scale), Thrips, Twospotted spider mites, Juniper webworms, Whiteflies	1/2 oz.	1 lb.
Apple-and-thorn skeletonizers, Cotoneaster webworms, Fall webworms, Hemlock chermes, Oak loopers, Obliquebanded leafrollers, Pear slugs, Tent caterpillars	1 1/2 oz.	3 lbs.

Precaution: Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea, and Garden Siliaceae. Injury to the plants may occur.

Mimosa webworms: Mix 1/2 oz. in 3 gals. of water (or 1 lb. 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 Sod Farms and Golf Courses)

To control pests listed below, apply recommended rates.

Precautions: Birds, especially waterfowl feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds. Avoid overlapping sprays. If waterfowl, i.e., ducks, geese can be expected to enter treated area after treatment (except spot treatments), water lawn with at least 0.25 inch water immediately after application, however, stop irrigation before puddling occurs.

Pests	Rate/1000 sq. ft.		Remarks
	D-z-n diazinon 50W	Water	
Lawn chinch bugs	2-3 oz.	3 gals.	Use higher rate for longer residual control and in turf-grass of dense growth such as St. Augustine.
Ants, Armyworms, Bermudagrass mites, Clover mites, Springtails (Collembola), Crickets, Cutworms, Digger Wasps, Earwigs, Frit Flies, Lawn billbugs, Leafhoppers, Sod webworms, (Lawn moths), Sowbugs (Pillbugs), Brown dog ticks, Chiggers, Fleas	3 oz.	3 gals.	Spot spray ant hills and wasp ground nest openings. For digger wasps, apply product at dusk when wasps are not active. For frit flies, mow grass and water well before treatment, but do not apply until grass is dry. Do not apply to animals. For brown dog ticks, spray grass and under shrubs.
Millipedes	3 oz.	3 gals.	
Rhodesgrass scales	3 oz.	3 gals.	Apply when crawlers first emerge.
White grubs	3 oz.	3 gals.	Apply any time between late July and early October.
Hyperodes weevil	3 oz.	3 gals.	Treat problem areas in mid-April and again in mid-May.

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