

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AUG 18 1995

Mr. A. Eimanis
Makhteshim-Agen (America) Inc.
551 Fifth Avenue
Suite 100
New York, NY 10176

Dear Mr. Eimanis:

Subject: Amendment- Revise per Diazinon Registration Standard
DIASOL (diazinon) 50W
EPA Registration No. 66222-10
Your submission dated October 14, 1993

This 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. Under STATEMENT OF PRACTICAL TREATMENT If inhaled add "Get medical attention."

b. Under STATEMENT OF PRACTICAL TREATMENT If on skin add "Get medical attention."

c. Under STATEMENT OF PRACTICAL TREATMENT replace the If in eyes section with "Flush eyes with plenty of water. Call a physician if irritation persists."

d. Replace the HAZARDS TO HUMANS AND DOMESTIC section with "Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, and clothing. Do not contaminate food or feed. Keep out of reach of domestic animals. Do not use on humans or pets. Do not contaminate ornamental fish ponds."

SYMBOL	7243						
SURNAME	AG						
DATE	8/18/95						

e. Delete "of 12 hours" in the first sentence of the second paragraph in Agricultural Use Requirements. The proper REI will appear under each use category. Also, add a second box entitled Non- Agricultural Use Requirements which should include the following text "The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouse.

Do not enter or allow entry into treated areas until sprays have dried. Do not permit children or pets to go onto sprayed grass until spray has completely dried."

f. Under the heading Fruit and Nut Crops, add "REI-24 hours".

g. Under the heading Vegetable Crops, add "REI-24 hours".

h. For Brussels Sprouts, Cauliflower, Collards, Kale Lettuce, Mustard, Peppers and Tomatoes in the timing/Special Directions for Mole crickets, revise "plant beds.." to "plant beds or fields".

i. Under the heading Field Crops, add "REI-24 hours".

j. Under the heading Insect Control Ornamentals, add "REI-12 hours".

k. Delete the seconds (NPDES) paragraph for the Enviromental Hazards section. This product is not subject to PR Notice 93-10.

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.

3.9.32

Your current Confidential Statement of Formula (CSF) does not list the impurities of toxicological concern separately nor does it include the diazinon certification for FIFRA Sec. 12(a)(1)(C), that the description of this product refers to the composition set forth on the CSF and supporting materials as required by the Diazinon Registration Standard, as well as the certification regarding the determination of the certified limits of the toxicological significant impurities, i.e., reliance on your diazinon supplier's analysis of their technical. Please check with each of your diazinon suppliers in this regard and update your CSF accordingly.

Sincerely,

George T. LaRocca
Product Manager (13)
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Enclosure

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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

AUG 18 1995
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
66222-10

DIASOL 50W

A Wettable Powder Insecticide

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

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

FOR AGRICULTURE AND COMMERCIAL USE ONLY

ACTIVE INGREDIENT:	
Diazinon [O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate]	50%
INERT INGREDIENTS:	50%
Total	100%

KEEP OUT OF REACH OF CHILDREN

CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

STATEMENT OF PRACTICAL TREATMENT

Organophosphate

If swallowed, call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching the back of throat with a finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

If inhaled, remove victim to fresh air and apply artificial respiration if indicated.

If on skin, remove contaminated clothing and wash affected areas immediately with soap and water.

If in eyes, rinse eyes for at least 15 minutes with water and call a physician immediately.

NOTE TO PHYSICIAN: Product contains an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine by injection is antidotal. 2-PAM is also antidotal, and may be administered in conjunction with atropine.

See side panel for precautionary statement

WARRANTY STATEMENT

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instruction, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

EPA Reg. No. 66222-10

NET WT. _____

EPA Est. No. _____

Manufactured by:

Makhteshim-Agan of North America Inc.
551 Fifth Avenue, Suite 1100
New York, NY 10176

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

May be fatal if swallowed. May be absorbed through skin. Do not breathe dust or spray mist. Do not get in eyes, on skin, or on clothing. Avoid contamination of food. Do not use on humans.

Keep out of reach of domestic animals. Do not contaminate feed or use on household pets or livestock. Do not permit pets to go on treated areas until spray has completely dried. Do not contaminate ornamental fish ponds.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: 1) Long-sleeved shirt and long pants, 2) waterproof gloves, and 3) shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

ENGINEERING CONTROLS STATEMENT

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.

USER SAFETY RECOMMENDATIONS

Users should:

- 1) Wash hand before eating, drinking, chewing gum, using tobacco or using the toilet.
- 2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to fish, birds and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, New York between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. On lawns, if waterfowl, i.e., ducks or geese, can be expected in the treated area after treatment (except spot treatment), apply a minimum of 1/4 inch of water immediately after applying this product. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes, and estuaries. Do not apply directly to water or 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. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA

This pesticide is highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds remaining on the treated area. Do not apply when bees are actively visiting the crop, cover crop, or weeds blooming in the treatment area.

PHYSICAL or CHEMICAL HAZARDS

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

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Store in a dry place.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If pesticide, spray mixture or rinsates 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: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

In case of minor spills, follow all precautions indicated on this label and cleanup immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes.

DIRECTIONS FOR USE

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

Failure to follow the directions for use and precautions on this label may result in poor insect control, crop injury, or illegal residues.

Chemigation

Refer to Chemigation section on this label for chemigation use directions for cranberries. Do not apply this product to cranberries through any type of irrigation system unless the specific directions for chemigation are followed.

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

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) of 12 hours. 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 to 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: 1) coveralls, 2) waterproof gloves, and 3) shoes plus socks.

GENERAL INFORMATION

Diasol 50W 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 insects. Application should be repeated as necessary to maintain control.

Since Diasol 50W is a wettable powder formulation, constant agitation is necessary during the application.

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

Do not use on food crops grown in greenhouses.

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

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

Directions for the following uses are in the bottom fold of the bag. Read and follow Directions given in leaflet.

See side panel for Storage and Disposal and General Information

Diasol 50W is registered for use in or on:

- Almonds (CA only), Apples, Apricots, Beans (Lima, Pole, and Snap)(succulent only), Beets,
- Blackberries (CA, OR, WA only) Boysenberries (CA, OR, WA only), Broccoli, Brussels Sprouts,
- Cabbage, Caneberries (CA, OR, WA only), Carrots, Cauliflower, Cherries, Chinese Broccoli, Chinese Cabbage (Bok choy and Napa), Chinese Mustard, Collards, Cranberries, Cucumbers, Dewberries (CA, OR, WA only), Endive (Escarole), Fly control in barn and animal sleeping quarters (except dairy barns, milk rooms, and poultry houses), Grapes, Hops, Kale, Lawns (excluding golf courses and sod farms), Lettuce, Loganberries (CA, OR, WA only) Melons, Mushroom Houses, Mustard, Nectarines, Non-Crop Areas, Onions, Ornamentals, Parsley, Parsnips, Peaches, Pears, Peas (succulent only), Peppers, Pineapple, Plums, Potatoes (except commercially-grown potatoes which will be hand-harvested), Prunes, Radishes, Raspberries (CA, OR, WA only), Seed Treatment Planter Box (Corn and Succulent Peas and Beans), Sheep, Spinach, Squash, Strawberries, Sugar Beets, Sweet Potatoes, Sweet Corn, Swiss Chard, Tomatoes, Turnips, Turnip Tops, Walnuts (CA, only).

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EPA Reg. No. 66222-10 NET WT. _____ EPA Est. No. _____

Manufactured by: Makhteshim-Agan of North America Inc.
551 Fifth Avenue, Suite 1100
New York, NY 10176

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Do not breathe dust or spray mist. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Avoid contamination of food and feed. Keep out of reach of domestic animals. Do not use on humans or pets. Do not contaminate ornamental fish pond. Do not permit pets to go onto sprayed grass until spray has completely dried.

PERSONAL PROTECTIVE EQUIPMENT

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This pesticide is highly toxic to bees exposed to direct treatment or to residues on blooming crops or weeds remaining on the treated area. Do not apply when bees are actively visiting the crop, cover crop, or weeds blooming in the treatment area.

PHYSICAL or CHEMICAL HAZARDS

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

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Store in a dry place.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If pesticide, spray mixture or rinsates cannot be

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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.

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In case of minor spills, follow all precautions indicated on this label and cleanup immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes.

DIRECTIONS FOR USE

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

Failure to follow the directions for use and precautions on this label may result in poor insect control, crop injury, or illegal residues.

Chemigation

Refer to Chemigation section on this label for chemigation use directions for cranberries. Do not apply this product to cranberries through any type of irrigation system unless the specific directions for chemigation are followed.

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

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

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PPE required for early entry to 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:

- 1) coveralls, 2) waterproof gloves, and 3) shoes plus socks.

GENERAL INFORMATION

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Since Diasol 50W is a wettable powder formulation, constant agitation is necessary during the application.

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

Do not use on food crops grown in greenhouses.

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

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

CHEMIGATION

APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) — CRANBERRIES ONLY

DIASOL 50W may be applied alone or in combination with other pesticides registered for application through sprinkler irrigation systems to cranberries. To insure compatibility, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is compatible.

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

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

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

Chemigation System Connected to Public Water Systems

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

Sprinkler Chemigation

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

Operating Instructions

1. Determine the acreage to be treated by the sprinkler system.
2. Measure the appropriate amount of **DIASOL 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.
3. Add the pre-measured **DIASOL 50W** to the chemigation system supply tank and dilute with water if needed. Constant agitation is required to keep the product in solution when **DIASOL 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.

Fruit and Nut Crops

DIASOL 50W may be applied using ground or aerial application equipment as specified in the table below. This table also indicates the minimum amount of water that can be used for the various methods of application. The rate of DIASOL 50W for aerial spray or concentrated spray applied by ground equipment is based on a dilute full cover spray applied to fruit or nut trees with conventional ground equipment at a rate of 300-400 gallons of water per acre. The specific amount of product to be used appears under the separate directions for use for each crop. (Note: "lbs." or "lbs. of product" in the directions means pounds of this product, not pounds of active ingredient). If the "Rate" calls for 1 lb. of DIASOL 50W per 100 gallons of water, this amounts to 3-4 lbs of product per acre when applied to fruit trees at usual dilute ground spray volumes of 300-400 gallons of water per acre. In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the directions for use for individual crops.

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
Boysenberries**	20	100	20
Cherries	20	100	20
Cranberries	20	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
Pineapple	20	200	—
Plums	20	100	20
Prunes	20	100	20
Raspberries**	20	100	20
Strawberries	20	100	20
Walnuts*	20	100	20

*CA only

**CA, OR or WA only

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*
Almonds	**
Apples	21
Apricots	21
Blackberries	7
Boysenberries	7
Cherries	21
Cranberries	7
Dewberries	7
Grapes	28
Loganberries	7
Nectarines	21
Peaches	21
Pears	21
Pineapple	7
Plums Prunes	21
Raspberries	7
Strawberries	5
Walnuts	45

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

** = Dormant spray only

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

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 single dormant spray. Do not apply more than 6 lbs. of product or 9 gals. of oil per acre
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 4 lbs. of product or 6 gals. of oil per acre
	Leafhoppers	1 lb. in 100 gals. of water	Apply, beginning at petal fall, as infestations develop Repeat application in 14 days if necessary
	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
	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. 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 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

Notes: (1) Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per season
(2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest

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 4 lbs of product or 6 gals. of oil per acre
	Aphids, Brown Mites (Clover Mites), Two-Spotted 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
	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 4 lbs. of product or 6 gals. of oil per acre per application
	Apricot Mealybugs	1 lb. in 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 4 lbs. of product per acre per application and no more than 12 lbs. 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
Caneberries (CA, OR and WA only) (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries)	Leafhoppers, Thrips, Aphids, Two-Spotted Spider Mites, Raspberry Fruitworms	2 lbs. per acre in a minimum of 100 gals. of water (200 gals. of water 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. For raspberry fruitworm make one application when blossom buds separate. Make a second application immediately before blossoms open.
	Dryberry 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.
	Raspberry Crown Borers (Raspberry Root Borers)	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.
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, Mealy Plum Aphid Eggs, Mealybugs	1 1/2 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 4 lbs of product or 6 gals. of oil per acre.
	Eyespotted 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.
	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. Allow 7 days between applications.
	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.
	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.
	San Jose Scale Crawlers	1 lb in 100 gals of water	Apply during the pre-pink stage or when crawlers first appear.
	Cherry Rust Mites	1/2-1 lb in 100 gals of water	Apply as a single supplemental spray to trees after harvest.

Notes: (1) Do not apply more than 4 lbs. of product per acre per application and no more than 12 lbs. of product per acre per year.
(2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.

Cranberries	Blackheaded Fireworms	4 lbs. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation.	Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 6 applications per season is permitted.
	Cranberry Fruitworms	6 lbs. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chemigation.	Apply when pest appears. Repeat application after 14 days if necessary. A maximum of 4 applications per season is permitted.

Notes: (1) This product may be applied to cranberries through sprinkler irrigation. Refer to the section Chemigation for specific chemigation directions for use. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.

Grapes	Pacific Spider Mites, Leafhoppers, Grape Berry Moths, Grape Leafhoppers, Omnivorous Leafrollers, Aphids, Spider Mites	1-2 lbs. per acre in a minimum of 100 gals. of water (200 gals. of water maximum)	Apply as a thorough cover spray when pest appears. Repeat application after 7 days if necessary.
	Drosophila spp	6 oz. per acre in a minimum of 100 gals. of water (300 gals. of water maximum)	Apply as a thorough cover spray at 7-day intervals.

Notes: (1) Do not apply more than 2 lbs. product per acre per application and no more than 10 lbs. product per acre per season.
(2) To avoid illegal residues, allow a minimum of 28 days between the last application and harvest.

Crop	Pest	Rate	Timing/Special Directions
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 4 lbs of product or 6 gals. of oil per acre
	Aphids, Brown Mites (Clover Mites), Two-Spotted Spider Mites, Olive Scale Crawlers, San Jose Scale Crawlers	1 lb. in 100 gals. of water	Apply as infestations occur. Repeat application after 7 days if necessary.
	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 4 lbs of product or 4 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 4 lbs. of product or 4 gals. of summer oil per acre per application. Allow 7 days between applications
	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

Notes: (1) Do not apply more than 4 lbs of product per acre per application and no more than 12 lbs of product per acre per season
 (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest

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 4 lbs of product or 6 gals. of oil per acre
	Aphids, Brown Mites (Clover Mites), Two-Spotted 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
	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 4 lbs of product or 4 gals. of 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 4 lbs of product or 4 gals. of summer oil per acre per application. Allow 7 days between applications
	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
	Peach Twig Borers	1 lb. in 100 gals. of water	Apply as insects occur in May and June. Allow 7 days between applications
	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.
	White Peach Scale	1½-2 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

Notes: (1) Do not apply more than 4 lbs of product per acre per application and no more than 12 lbs 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	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 4 lbs of product or 6 gals. of oil per acre
	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. Allow at least 14 days between applications.
	Tentiform Leafminers, Mealybugs	1 lb. in 100 gals of water	Make 3 cover sprays, beginning in April. Allow at least 14 days between applications.
	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 as infestations occur. Allow at least 14 days between applications. 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. Allow at least 14 days between applications. Note: Diazinon will 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

Notes: (1) Do not apply more than 4 lbs of product per acre per application and no more than 12 lbs. of product per acre per season (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest

Pineapple	Pineapple Mealybugs	2 lbs per acre in 200-500 gals of water	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 4 lbs of product or 6 gals. of oil per acre. If applied in late April or May, 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
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 lb in 100 gals of water	

Notes: (1) Do not apply more than 4 lbs of product per acre per application and no more than 12 lbs. of product per acre per season (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest

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 4 lbs of product or 6 gals. of oil per acre. 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.
	Leafcurl Plum Aphids, Mealy Plum Aphids, Thistle Aphids	1/2-1 lb. in 100 gals of water	

Notes: (1) Do not apply more than 4 lbs of product per acre per application and no more than 12 lbs. of product per acre per season (2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest

Strawberries	Aphids, Two-Spotted Spider Mites	1 lb in 100 gals of water per acre	Apply as pests occur. Repeat application, if necessary, after 7 days
	Cyclamer 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
	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	1/4-1 lb in 100 gals of water	Apply 200 gals. of spray per acre when blossoms show color

Notes: (1) Do not make more than 3 foliar applications per season (2) Do not apply more than 2 lbs. of product per acre per application and no more than 8 lbs. of product per acre per season (3) Allow a minimum of 5 days between the last application and harvest

Crop	Pest	Rate	Timing/Special Directions
Walnuts (CA only)	Aphids, Spider Mites	2 lbs. in 100 gals. of water per acre	Apply as a foliar spray as needed. 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.
	Codling Moths, Scale Crawlers, Walnut Caterpillars	6 lbs. in 100 gals. of water per acre	

Vegetable Crops

For foliar or soil applications. **DIASOL 50W** should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. **DIASOL 50W** may be applied aerially or by ground application 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 Application		Aerial Application Minimum Gals./Acre
	Minimum Gals./Acre	OR Minimum Gals./1,000 Sq. Ft.	
Beans (Lima, Pole, and Snap) (succulent only)	10	2	5
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
Casabas	5	1	5
Cauliflower	10	2	5
Chinese Broccoli	10	2	5
Chinese Cabbage	10	2	5
Chinese Mustard	10	2	5
Collards	10	2	5
Crenshaws	5	1	5
Cucumbers	5	1	5
Endive (Escarole)	10	2	5
Honeydew Melons	5	1	5
Kale	10	2	5
Lettuce (Head and Leaf)	10	2	5
Muskmelons	5	1	5
Mustard	10	2	5
Onions (Bulb and Green)	10	2	5
Parsley	10	2	5
Parsnips	10	2	5
Peas (succulent only)	10	2	5
Peppers	10	2	5
Persian Melons	5	1	5
Potatoes (Irish)*	10	2	5
Radishes	10	2	5
Spinach	10	2	5
Squash, Summer	5	1	5
Squash, Winter	5	1	5
Sweet Corn	20	4	5
Sweet Potatoes	10	2	5
Swiss Chard	10	2	5
Tomatoes	10	2	5
Turnips	10	2	5
Watermelons	5	1	5

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

Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season

Pre-Harvest Intervals (PHI*) for Foliar Applications

Crop	PHI* (Days)
Beans (Lima, Pole, and Snap)	7
Beets, Red (Table)	14
Broccoli	7
Brussels Sprouts	7
Cabbage	21
Cantaloupes	3
Carrots	14
Casabas	3
Cauliflower	7
Chinese Broccoli	10
Chinese Cabbage	10
Chinese Mustard	10
Collards	10
Crenshaws	3
Cucumbers	7
Endive (Escarole)	14
Honeydew Melons	3
Kale	10
Lettuce (Head and Leaf)	14
Muskmelons	3
Mustard	10
Onions (Bulb and Green)	14
Parsnips	14
Peas	7
Peppers	5
Persian Melons	3
Potatoes (Irish)	35
Radishes	14
Spinach	14
Squash, Summer	7
Squash, Winter	3
Sweet Corn	7
Swiss Chard	14
Tomatoes	1
Turnips (Roots and Tops)	14
Watermelons	3

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

Notes: (1) Soil Incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see Timing/Special Directions) 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 peas or beans if these crops or weeds in the treatment area are in bloom, or to corn during the pollen shed period.

Crop	Pest	Rate	Timing/Special Directions
Beans (Lima, Pole, and Snap) (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 top 4-8 inches of soil.
	Black Bean Aphids, Mexican Bean Beetles, Dipterous Leafminers	1-1½ lbs. per acre or 2/5-3/5 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	½-¾ lb. per acre or 1/5-3/10 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. of water per acre. Note: Diazinon will not control organophosphate-resistant leafminers.
	Leafhoppers, Spider Mites	1 lb. per acre or 2/5 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.
Beans Red (Table)	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.
	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 14 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
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.

Crop	Pest	Rate	Timing/Special Directions
Broccoli (continued)	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.
Brussels Sprouts	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 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 incor- porate into the top 4-8 inches of soil.
	Aphids, Diamondback Moths Imported Cabbageworms	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.
Cabbage	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 incor- porate into the soil. (See 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 incor- porate 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 21 days of harvest, or illegal residues may occur. Note: Diazinon will not control organophosphate- resistant leafminers.

Crop	Pest	Rate	Timing/Special Directions
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.
	Carrot Rust Fly	4 lbs. per acre or 1 1/2 oz. per 1,000 sq. ft.	Apply as a drench to the seed furrow at planting.
	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 14 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.
Chinese Broccoli, Chinese Cabbage (Bok Choy and Napa), 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.

Crop	Pest	Rate	Timing/Special Directions
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 Cabbagebugs, Corn Earworms	1/2-1 lb. per acre or 1/2-2/3 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.
Cucumbers	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 1/2-3 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 2/3 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 1/2-2/3 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. 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 Cabbagebugs, Corn Earworms	1/2-1 lb. per acre or 1/2-2/3 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

Crop	Pest	Rate	Timing/Special Directions
Lettuce (Head and Leaf)	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 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 14 days of harvest. Note: Diazinon will not control organophosphate-resistant leafminers.
Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians, and Hybrids of these) and Watermelons	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 1/5-2/5 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 3 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Mustard	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, Diamondback Moths, Imported Cabbageworms	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.
Onions (Bulb and Green)	Onion maggots	4-8 lbs. per acre or 1 1/2-3 oz. per 1,000 sq. ft.	Broadcast just before planting and mix into the top 3-4 inches of soil. (See Soil Incorporation Note) Note: Diazinon will not control organophosphate-resistant onion maggots.
	Onion Thrips	1 lb. per acre or 2/5 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 14 days of harvest or illegal residues may occur.
	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
Parsley	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

Crop	Pest	Rate	Timing/Special Directions
Parsnips	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 14 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 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 soil. (See Soil Incorporation Note.)
	Aphids, Dipterous Leafminers	1/4-1 lb. per acre or 3/10-2/5 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. To avoid illegal residues, allow a minimum of 7 days between the last application and harvest. Vines and hay may be fed to dairy and beef cattle and sheep. To avoid illegal residues, wait 7 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 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, Serpentine 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. Do not apply within 5 days of harvest or illegal residues may occur. Note: Diazinon will not control organophosphate-resistant leafminers.
Potatoes	Cutworms (Surface and Subterranean)	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.)
	Southern Potato Wireworms (Southeastern US)	4-8 lbs. per acre or 1 1/2-3 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.
	Aphids, Flea Beetles, Colorado Potato Beetles, Dipterous Leafminers	1/2-3/4 lb. per acre or 1/5-3/10 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.
	Banded Cucumber Beetles, Leafhoppers, Southern Armyworms	1/4-1 lb. per acre or 3/10-2/5 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 35 days of harvest or illegal residues may occur.

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

Crop	Pest	Rate	Timing/Special Directions
Radishes	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 in 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 3 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.
Spinach	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 14 days of harvest Note: Diazinon will not control organophosphate-resistant leafminers
Squash Summer	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, 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 7 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 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, 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 3 days of harvest or illegal residues may occur Note: Diazinon will not control organophosphate-resistant leafminers

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn	Cutworms	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)
	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
	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, if necessary
	Corn Leaf Aphids	1-2 lbs. per acre or 2½-¾ 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
	Grasshoppers, Spider Mites, Fleabeetles	1 lb. per acre or 2½ oz. per 1,000 sq. ft.	Apply as insects occur Repeat if necessary, but do not make more than 5 applications per season
	Sap Beetles	2-2½ lbs. per acre or ¾-1 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

Notes: (1) To protect bees, do not apply to corn during the pollen shed period (2) Allow a minimum of 7 days between the last application and grazing or cutting for forage (3) Corn may be picked 7 days after the last application

Sweet Potatoes	Wireworms Flea Beetles	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
Swiss Chard	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
	Aphids, Corn Earworms Imported Cabbageworms Diamondback Moths Harlequin Cabbagebugs	½-1 lb. per acre or 1½-2½ 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
Tomatoes	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, Dipterous Leafminers	½ lb. per acre or 1½ 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 one day of harvest or illegal residues may occur
	Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms	¾-1 lb. per acre or 3/10-2½ oz. per 1,000 sq. ft.	Note: Diazinon will not control organophosphate-resistant leafminers
	Vinegar Flies (<i>Drosophila</i> spp.)	½-1½ lbs. per acre or 1½-2½ oz. per 1,000 sq. ft.	

Crop	Pest	Rate	Timing/Special Directions
Turnips (Roots and Tops)	Cutworms	4-8 lbs. per acre or 1 1/2 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 14 days of harvest or illegal residues may occur. Note: Dazinon will not control organophosphate-resistant leafminers.

Mushroom Houses

Mushroom flies (Phoridae and Scleridae)

Mix 4-5 lbs of DIASOL 50W in 50 gallons of water and spray on outside and inside walls, floors and sideboards of mushroom houses after compost has been pasteurized by heating. Also spray over the plastic covering the beds and trays after spawning. Note: Do not spray the compost. To avoid illegal residues, do not apply more than 3 applications to mushroom houses per crop.

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. 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 DIASOL 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. Adjust 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 DIASOL 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	14

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

Crop	Pest	Rate	Timing/Special Directions
Hops	Aphids, Spider Mites	2 lbs. per acre	Apply as pests occur. Repeat applications, if necessary in 14 days. Do not make more than 4 applications per season 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
	Beet Leafhoppers, Dipterous Leafminers, Aphids	3/4-1 lb per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times per season with a minimum of 7 days between applications Do not apply within 14 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 per season with a minimum of 7 days between applications Do not apply within 14 days of harvest

Note: Tops may be fed to beef and dairy animals

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 DIASOL 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 DIASOL 50W with 1 lb of sugar (or 2 cups of syrup or molasses) for the desired application

For knapsack or similar type sprayer mix 1/2 lb with the sugar in 2 1/2 gals of water and spot treat areas frequented by flies including cracks, crevices, doorways, around windows, or other areas where flies congregate Repeat applications as fly populations warrant

For sprinkling can application, mix 2 oz. with the sugar in 5 gals of water and sprinkle lightly over the floor in areas frequented by flies Applications every day or two will generally be required

Do not contaminate milk, feed, drinking water, or apply to animals or poultry Do not use in edible product areas of food processing plants or other areas where food is commercially prepared or processed Do not use in dwellings

Insect Control on Ornamentals

To control certain insects on ornamentals, such as Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Douglas Fir, Elm, Gladiolus, 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 dense foliage

Insects	Amount of DIASOL 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 José, Soft), Thrips, Two-Spotted Spider Mites, Juniper Webworms, Y/infestans	1/2 oz	1 lb
Apple-and-Thorn Skeletonizers, Cottonaster Webworms, Fall Webworms, Hemlock Cherries, Oak Loopers, Obliquebanded Leafrollers, Pear Slugs, Tent Caterpillars	1 1/2 oz	3 lbs

Note: Do not use on Ferns, Poinsettia, Hibiscus, Peperys, Pines, and Gardenia, since 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)

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, especially waterfowl. Avoid overlapping sprays. If waterfowl, i.e., ducks or geese, can be expected to enter treated area after treatment (except spot treatments), water lawn with at least 1/4 inch water immediately after application, however, stop irrigation before puddling occurs.

To control pests listed below, apply recommended rates

Pests	Rate/1000 sq. ft.		Remarks
	DIASOL 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 delay application until grass is dry. Do not apply to animals. For brown dog ticks, spray grass and under shrubbery.
Hyperodes Weevils	3 oz	3 gals	Treat problem areas in mid-April and again in mid May
Millipedes	3 oz	3 gals	
Rhodesgrass Scales	3 oz	3 gals	Apply when crawlers first emerge
White Grubs (Japanese Beetle Larvae, European Chafer, Southern Chafer)	3 oz	3 gals	Apply any time between late July and early October

Nuisance Pests in Outside Areas

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

Mix 3 oz in 3 gals of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls, entranceways, walks, garbage cans, tree trunks, and into cracks and other places where insects can hide.

To prevent entry into houses, spray a five-foot band of soil around the house next to the foundation and spray the foundation of the house to a height of 2-3 feet. Repeat application as necessary. Do not apply to animals. Do not apply to plants (except tree trunks) at this nuisance pest rate.