



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Ms. Glenda Haage
Platte Chemical Co.
P.O. Box 667
Greeley, CO 80632-0667

DEC 13 2001

Dear Ms. Haage:

Subject: Amendment - Comply with 2000 Diazinon MOA;
Delete Beans, Celery, Collards, Cucumbers,
Parsley, Peas, Peppers, Potatoes, Summer
Squash, Winter Squash, Sweet Potatoes,
Swiss Chard, Turnips, Lawn Pest Control,
and Band Treatment around house foundation;
Update First Aid per PR Notice 2001-1; and
Update CSF/replacement diazinon source
Clean Crop Diazinon 50W Insecticide
EPA Registration Number 34704-435
Your submission dated June 12, 2001

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

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. Delete directions for use for foliar or pre-plant soil application on the crop Beans (including the separate entry of Lima Beans) and on the crop Peas. Under the diazinon MOA, and as stipulated on the labeling for the replacement diazinon manufacturing-use products from which agricultural end-use products may be formulated, the only supported agricultural use pattern for use on beans or peas is for seed treatment (which appears on this label and may be retained). Also, be sure to delete Beans and Peas from the minimum gallonage and PHI tables that appear under the heading VEGETABLE CROPS.
 - b. Revise the heading FIRST AID STATEMENTS to FIRST AID and under this heading add "This product contains diazinon, an organophosphate insecticide that inhibits cholinesterase."

- c. Under the FIRST AID advice (and above the hotline numbers) add a Note to Physician as follows:

NOTE TO PHYSICIAN

This product contains diazinon , an organophosphate insecticide that inhibits cholinesterase. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal, but should only be administered in conjunction with atropine.

- d. In the Environmental Hazards, delete the sentences beginning "Because of the migratory..." and "On lawns, if waterfowl..", since these sentences pertain to the use on lawns which you have deleted. Also, delete the phrase "For terrestrial uses," from the sentence beginning "For terrestrial uses, do not apply...", since all the uses on the label are terrestrial uses.
- e. Under the table heading "This product is registered for use In or on:" delete claims for the following uses which you have deleted from your label: Beans, Cucumbers, Fly Control in barns and animal sleeping quarters, Lawns, Non-crop areas, Parsley, Parsnips, Peas, Peppers, Potatoes, Sheep, Squash, Sweet Potatoes, Swiss Chard, Turnips, Turnip tops. Also, revise the entry "Ornamentals" to "Ornamentals grown outdoors in nurseries only". Under this table, delete the footnote "** except commercially grown potatoes which will be hand-harvested".
- f. Under the heading GENERAL INFORMATION, replace "Do not use on food crops grown in greenhouses." with "Do not apply this product in greenhouses, dwellings, or barns."
- g. Under the heading DIRECTIONS FOR USE, slightly revise the reformulation prohibition to read "Reformulation or repackaging of this product is prohibited."
- h. Under the Note about the California Department of Agriculture, delete the sentence beginning "Do not use water from irrigated..". This sentence will appear later as one of the Notes under the directions for use on cranberries.
- i. In the Notes under the crop Cranberries, renumber the current second note to be the fourth note and insert the following two notes: (2) Do not use water from irrigated or flooded cranberry beds for drinking purposes or to irrigate crops other than those appearing on EPA-approved diazinon label. (3) Do not apply more than 24 pounds of product per acre per season.
- j. For the crop Walnuts, delete the sentence beginning "Do not apply within ..." from the Timing/Special Directions and then add the following Notes for this crop:

Notes: (1) Do not apply more than 6 pounds of product per

acre per application and no more than 18 pounds of product per acre per season. (2) To avoid illegal residues, allow a minimum of 45 days between the last application and harvest and do not apply after husks open.

- k. Under the heading VEGETABLE CROPS, in the minimum gallonage table, revise "Casabas" to "Casaba Melons" and revise "Crenshaws" to "Crenshaw Melons". In the NOTES under this table, since foliar application to beans and peas is no longer permitted, delete the following from the second note "to peas or to beans if these crops or weeds in the treatment area are in bloom, or", .
1. Under the heading SEED TREATMENT, for consistency the pest name Seedcorn Maggot and its associated rate should not be in bold type.
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.

The Basic Confidential Statement of Formula (CSF) dated June 12, 2001 which identifies a replacement diazinon source Manufacturing Use Product is acceptable and has been added to this product's registration file.

Sincerely,

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

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.

THIS PRODUCT MUST NOT BE USED ON GOLF COURSES AND SOD FARMS.



DIAZINON 50WP

Insecticide
IN WATER SOLUBLE PACKETS

Organophosphate Insecticide

ACTIVE INGREDIENT:

Diazinon: O,O-diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) [phosphorothioate]	50.0%
INERT INGREDIENTS:	50.0%
TOTAL	100.0%

Diazinon 50WP is a wettable powder.

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

For specific pests, refer to use directions.

KEEP OUT OF REACH OF CHILDREN CAUTION

See Additional Precautionary Statements Below

EPA REG. NO. 34704-435

EPA EST. NO. 67545-AZ-1

NET WEIGHT 28 LBS. (11.78 KG)

IHT

EXP 06Y01

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. 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 ponds.

Be sure to read and follow "Worker Safety Rules" appearing in this label.

Personal Protective Equipment:

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

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

Engineering controls statements: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with 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:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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.

FIRST AID STATEMENTS

If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person or convulsing person.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-228-5635, EXT. 136, OR CALL COLLECT, 612-851-8180, EXT. 136.

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to birds, fish, and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of the migratory habits of certain 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 0.25 inch of water immediately after applying this product. Stop irrigation before puddling occurs. Keep out of lakes, streams, ponds, tidal marshes and estuaries. For terrestrial uses, 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 washwaters.

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

PHYSICAL OR CHEMICAL HAZARDS

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

ACCEPTED
with COMMENTS
in EPA Letter Dated:

DEC 13 2001

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

34704-435

DIAZINON 50 WP EPA REG. NO. 34704-435

This product is registered for use in or on:

Almonds (CA only)	Dewberries	Peas
Apples	(CA, OR, WA only)	(succulent only)
Apricots	Endive (Escarole)	Peppers
Beans	Fly control in	Pineapple
(Lima, Pole and Snap)	barns and animal	Plums
(succulent only)	sleeping quarters*	Potatoes**
Beets	Grapes	Prunes
Blackberries	Hops	Radishes
(CA, OR, WA only)	Kale	Raspberries
Boysenberries	Lawns	(CA, OR, WA only)
(CA, OR, WA only)	(Excludes Golf Courses	Seed Treatment,
Broccoli	and Sod Farms)	Planter Box
Brussels Sprouts	Lettuce	(Corn and Succulent
Cabbage	Loganberries	Peas and Beans)
Caneberries	(CA, OR, WA only)	Sheep
(CA, OR, WA only)	Melons	Spinach
Carrots	Mushroom Houses	Squash
Cauliflower	Mustard	Strawberries
Cherries	Nectarines	Sugar Beets
Chinese Broccoli	Non-crop Areas	Sweet Potatoes
Chinese Cabbage	Onions	Sweet Corn
(Bok choy and Napa)	Ornamentals	Swiss Chard
Chinese Mustard	Parsley	Tomatoes
Collards	Parsnips	Turnips
Cranberries	Peaches	Turnip Tops
Cucumbers	Pears	Walnuts (CA only)

* except dairy barns, milk rooms, and poultry houses.

**except commercially-grown potatoes which will be hand-harvested.

GENERAL INFORMATION

This product 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 this product 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.

Do not use on food crops grown in greenhouses.

DIRECTIONS FOR USE

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

Reformulation or repackaging this product is prohibited.

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

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI). Exception: if the product is soil-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: coveralls, waterproof gloves, and shoes plus socks.

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

Do not use water from irrigated or flooded cranberry/watercress beds for drinking purposes or to irrigate crops other than those appearing on EPA approved diazinon labels.

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

CHEMIGATION

APPLICATION THROUGH AN IRRIGATION SYSTEM (CHEMIGATION) - CRANBERRIES ONLY

This product 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

Note: United Horticultural Supply does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

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 this product 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 Diazinon to the chemigation system supply tank and dilute with water if needed. Constant agitation is required to keep the product in solution when this product 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.

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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 this product, 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.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If pesticide, spray mixture or 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: 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. Stay out of smoke from burning container.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call or 1-800-424-9300 day or night.

FRUIT AND NUT CROPS

REI - 24 hours

This product 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 this product 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 this product 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
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

Crop	PHI*
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	1-1½ lbs. + 2-3 gals. dormant oil or 1-1½ 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 gallons 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 1-1½ gals. superior type oil in 100 gals. of water
	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.

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Crop	Pest	Rate	Timing/Special Directions
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 1-1½ 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 gallons 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	½ lb. + 1½ 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 gallons 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.

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	1¼ lbs. + 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 gallons 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	½-1 lb. in 100 gals. of water	Make 3-4 applications beginning when adult flies begin to emerge and repeating at 10-day intervals.

Crop	Pest	Rate	Timing/Special Directions
Cherries cont'd.	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	½-1 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 **Chemigation** section 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 Leafrollers, 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. of 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.

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 gallons 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 gallons 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 gallons of summer oil per acre per application. Allow 7 days between applications.

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Crop	Pest	Rate	Timing/Special Directions
<i>Nectarines</i> <i>cont'd.:</i>	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 gallons 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 gallons 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 gallons 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.

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 1-1½ 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 gallons of oil per acre.
	Pear Psylla	½-1 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 Leaf-miners, Mealybugs	1 lb. in 100 gals. of water	Make 3 cover sprays, beginning in April. Allow at least 14 days between applications.

Crop	Pest	Rate	Timing/Special Directions
<i>Pears</i> <i>cont'd.:</i>	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 1-1½ 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 gallons of oil per acre. If applied in late April or May, mix diazinon with 1 gallon of light medium summer horticultural oil per 100 gallons 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	½-1 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 1-1½ 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 gallons of oil per acre. For late April or May applications, mix diazinon with 1 gallon of light medium summer horticultural oil per 100 gallons 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	½-1 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	Apply as pests occur. Repeat application, if necessary, after 7 days.
	Cyclamen Mites	1 lbs. in 100 gals. of water	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.

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Crop	Pest	Rate	Timing/Special Directions
Strawberries cont'd.	Strawberry Leafrollers	¾-1 lb. in 100 gals. of water	Apply 200 gallons 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.

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 REI—24 hours

For foliar or soil applications, DIAZINON 50 WP should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. DIAZINON 50 WP 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 Gallons/Acre
	MINIMUM Gallons/Acre	MINIMUM Gallons/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
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
Peas (succulent only)	10	2	5
Persian Melons	5	1	5
Radishes	10	2	5
Spinach	10	2	5
Sweet Corn	20	4	5
Tomatoes	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
Endive (Escarole)	14
Honeydew Melons	3
Kale	10
Lettuce (Head and Leaf)	14
Muskmelons	3
Mustard	10
Onions (Bulb and Green)	14

Crop	PHI* (Days)
Peas	7
Persian Melons	3
Radishes	14
Spinach	14
Sweet Corn	7
Tomatoes	1
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) **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 square feet	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 square feet	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Black Bean Mexican Bean Beetles, Dipterous Leafminers	Aphids	1-1½ lbs. per acre or ¾- ½ oz. per 1,000 square feet	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 ¼-¾ oz. per 1,000 square feet	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 applica- tion in 100 gallons of water per acre. Note: Diazinon will not control organophosphate-resistant leafminers.
Leafhoppers, Spider Mites	Aphids, Dipterous Leafminers	1 lb. per acre or ¾ oz. per 1,000 square feet	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.
	Cucumber Beetles	½-¾ lb. per acre or ¼-¾ oz. per 1,000 square feet	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.
Beets, Red (Table)	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 square feet	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 square feet	Apply to plant beds or fields 1-2 days before planting, and immediately incorporate into the top 1-2 inches of soil.
Wireworms	Wireworms	6-8 lbs. per acre or 2¼ -3 oz. per 1,000 square feet	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½-1 lb. per acre or ¾- ½ oz. per 1,000 square feet	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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Crop	Pest	Rate	Timing/Special Directions
Broccoli	Root Maggots	4-6 lbs. per acre or 1½-2¼ oz. per 1,000 square feet	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 acre.	In transplant water as a drench application when 200-300 gallons 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 square feet	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 square feet	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 square feet	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamond back Moths, Imported Cabbage worms, Dipterous Leafminers	½-1 lb. per acre or ¼-½ oz. per 1,000 square feet	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 1½-2¼ oz. per 1,000 square feet	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 acre.	In transplant water as a drench application when 200-300 gallons 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 square feet	Broadcast just before planting and incorporate into the soil. (See Soil Incorporation Note.)
	Mole Crickets	2 lbs. per acre or ¾ oz. per 1,000 square feet	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 square feet	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamond back Moths, Imported Cabbage worms	½-1 lb. per acre or ¼-½ oz. per 1,000 square feet	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.

Crop	Pest	Rate	Timing/Special Directions
Cabbage	Root Maggots	4-6 lbs. per acre or 1½-2¼ oz. per 1,000 square feet	Broadcast just before planting 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 gallons 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 square feet	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 square feet	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 square feet	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamond back Moths, Imported Cabbage worms, Dipterous Leafminers	½-1 lb. per acre or ¼-½ oz. per 1,000 square feet	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.
Carrots	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 square feet	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 square feet	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 square feet	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Carrot Rust Fly	4 lbs. per acre or 1½ oz. per 1,000 square feet	Apply as a drench to the seed furrow at planting.
Cauliflower	Root Maggots	4-6 lbs. per acre or 1½-2¼ oz. per 1,000 square feet	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 acre.	In transplant water as a drench application when 200-300 gallons 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.

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Crop	Pest	Rate	Timing/Special Directions
Cauliflower cont'd.:			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 square feet	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 square feet	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 square feet	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamond back Moths, Imported Cabbage worms, Dipterous Leafminers	½-1 lb. per acre or ¼-½ oz. per 1,000 square feet	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, Diamond back Moths, Imported Cabbage worms, Dipterous Leafminers	½-1 lb. per acre or ¼-½ oz. per 1,000 square feet	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.
	Collards	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 square feet
	Mole Crickets	2 lbs. per acre or ¾ oz. per 1,000 square feet	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 square feet	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamond back Moths, Imported Cabbage worms, Harlequin Cabbagebugs, Corn Earworms	½-1 lb. per acre or ¼-½ oz. per 1,000 square feet	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.
Endive (Escarole)	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 square feet	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 square feet	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 square feet	Broadcast just before planting and immediately incorporate 4-8 inches into soil.
	Aphids, Dipterous Leafminers	½-1 lb. per acre or ¼-½ oz. per 1,000 square feet	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.

Crop	Pest	Rate	Timing/Special Directions
Endive (Escarole) cont'd.:			Note: Diazinon will not control organophosphate-resistant leafminers.
Kale	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 square feet	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 square feet	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 square feet	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Diamond back Moths, Imported Cabbage worms, Harlequin Cabbagebugs, Corn Earworms	½-1 lb. per acre or ¼-½ oz. per 1,000 square feet	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 (Head and Leaf)	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 square feet	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 square feet	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 square feet	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½-1 lb. per acre or ¼-½ oz. per 1,000 square feet	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 1½-3 oz. per 1,000 square feet	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 square feet	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	½-1½ lbs. per acre or ¼-½ oz. per 1,000 square feet	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 ¾ oz. per 1,000 square feet	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 square feet	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 ¼-½ oz. per 1,000 square feet	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.

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Crop	Pest	Rate	Timing/Special Directions
Onions (Bulb and Green)	Onion maggots	4-8 lbs. per acre or 1½-3 oz. per 1,000 square feet	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 ¾ oz. per 1,000 square feet	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 2¼-3 oz. per 1,000 square feet	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
Peas (succulent only)	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 square feet	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 square feet	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Aphids, Dipterous Leafminers	¾-1 lb. per acre or ¾-¾ oz. per 1,000 square feet	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.
Radishes	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 square feet	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 square feet	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 square feet	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 ½-¾ oz. per 1,000 square feet	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	½-1 lb. per acre or ½-¾ oz. per 1,000 square feet	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.
Sweet Corn	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 square feet	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

Crop	Pest	Rate	Timing/Special Directions
Sweet Corn <i>cont'd.</i>	Seed Corn Maggots	4-8 lbs. per acre or 1½-3 oz. per 1,000 square feet	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 square feet	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 square feet	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 ¾-¾ oz. per 1,000 square feet	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 ¾ oz. per 1,000 square feet	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 square feet per season	Consult local agricultural authorities for proper timing of application. Repeat application in 7 days, if necessary. Do not make more than 5 applications

Notes: (1) To protect bees, do not apply foliarly 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.

Tomatoes	Cutworms	4-8 lbs. per acre or 1½-3 oz. per 1,000 square feet	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 square feet	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 square feet	Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.
	Aphids, Dipterous Leafminers	½ lb. per acre or ½ oz. per 1,000 square feet	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. Note: Diazinon will not control organophosphate-resistant leafminers.
	Banded Cucumber Beetles, Fall Armyworms, Southern Armyworms, Beet Armyworms	¾-1 lb. per acre or ¾-¾ oz. per 1,000 square feet	
	Vinegar Flies (Drosophila spp.)	½-1½ lbs. per acre or ½-¾ oz. per 1,000 square feet	

MUSHROOM HOUSES

Mushroom flies (Phorids and Sciarids)
Mix 4-5 lbs. of DIAZINON 50 WP 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.

DIAZINON 50 WP EPA REG. NO. 34704-435

Notes: (1) If seed has not been treated with a fungicide, use an EPA-registered fungicide in combination with DIAZINON 50 WP 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

REI - 24 hours

Apply soil and foliar applications of DIAZINON 50 WP 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.
	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.
Sugar Beets	Beet Leafhoppers, Dipterous Leaf miners, 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.

INSECT CONTROL ON ORNAMENTALS GROWN OUTDOORS IN NURSERIES

REI - 12 hours

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 dense foliage.

Insects	Amount of DIAZINON 50 WP to Use	
	Rate per 3 gallons water	Rate per 100 gallons water
Aphids, Bagworms, Carnation Bud Mites, Carnation Shoot Mites, Clover Mites, Cyclamen Mites, Dipterous Leafminers, European Pine Shoot Moths, European Red Mites, Flea Beetles, Holly Bud Moths, Leafhoppers, Obscure Root Weevils, Omnivorous Leafhoppers, Privet Mites, Scale Crawlers (Cottony-cushion, Lecanium, Pine Needle, San Jose, Soft), Thrips, Two-Spotted Spider Mites, Juniper Webworms, Whiteflies.	1/2 oz.	1 lb.

Insects	Amount of DIAZINON 50 WP to Use	
	Rate per 3 gallons water	Rate per 100 gallons water
Apple-and-Thorn Skeletonizers, Cotton-easter Webworms, Fall Webworms, Hemlock Chermes, Oak Loopers, Obliquebanded Leaf rollers, Pear Slugs, Tent Caterpillars	1 1/2 oz.	3 lbs.

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

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

NOTICE

IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. CROP INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF UNITED HORTICULTURAL SUPPLY, THE MANUFACTURER OR SELLER. IN NO CASE SHALL UNITED HORTICULTURAL SUPPLY, THE MANUFACTURER OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER. EXCEPT AS EXPRESSLY PROVIDED HEREIN, UNITED HORTICULTURAL SUPPLY, THE MANUFACTURER OR SELLER MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND UNITED HORTICULTURAL SUPPLY'S, THE MANUFACTURER'S OR SELLER'S TOTAL LIABILITY, SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

**FORMULATED FOR
PLATTE CHEMICAL CO.**

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