

19713-492

3/6/2002

1/11

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
MAR - 6 2002
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 19713-492

Diazinon 50WP

Insecticide

For control of certain Insects and Mites on Fruits, Nuts, Vegetables, Field crops, Lawns and Ornamentals grown outdoors in nurseries. For specific pests, refer to use directions.

ACTIVE INGREDIENT:	
Diazinon	50.0%
OTHER INGREDIENTS:	50.0%
TOTAL:	100.0%

Diazinon 50WP is a wettable powder.

KEEP OUT OF REACH OF CHILDREN CAUTION

See FIRST AID Below

EPA Reg. No. 19713-492

EPA Est. No. 19713-GA-1

Net Contents: _____

PRECAUTIONARY STATEMENTS (Cont.)
 food purposes after use in measuring pesticides. 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 "WORK SAFETY RULES" and Worker Protection precautions appearing on this label.

PERSONAL PROTECTIVE EQUIPMENT (PPE)
Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks and waterproof gloves. 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 control 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 hands 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.

FIRST AID
IF SWALLOWED: • 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 or convulsing person.
IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
IF ON SKIN OR CLOTHING: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes.
IF INHALED: • 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 treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378.
NOTE TO PHYSICIAN: This product contains diazinon, an organophosphate that inhibits cholinesterase. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal, but should be administered only in conjunction with atropine.

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

GENERAL INFORMATION
 DIAZINON 50WP is a wettable powder which, when diluted with water according to the directions, is intended for control of insect pests of agricultural crops and other plants. Do not use this product in greenhouses. Do not use in barns or dwellings. Do not use on livestock. In the "DIRECTIONS FOR USE" which follow, best control is obtained when application is made at first sign of pests. Application should be repeated only as directed to maintain control.

PRECAUTIONARY STATEMENTS
 Hazards to Humans and Domestic Animals
CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing. Avoid contamination of food and feed. Food utensils, such as teaspoons or measuring cups, must not be used for
 (Continued)



Manufactured By:
Drexel Chemical Company
P.O. BOX 13327, MEMPHIS, TN 38113-0327

SINCE 1972

MIXING PROCEDURES

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

This product Alone:

Add half of the required amount of water to the mix tank. With the agitator running, add this product to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after this product has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

This product in Tank-Mixtures:

NOTE: Do not mix this product with any formulation of Captan or Captec™ because crop injury may occur.

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

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

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

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Reformulation or repackaging of this product is prohibited. To avoid spray drift, do not apply under windy conditions. Avoid spray overlap since crop or plant injury may result. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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 (REI). The requirements in this box only apply to uses of this product that are covered by the WPS. Do not enter or allow worker entry to treated areas during the REI.

Exception: If the product is soil-injected or soil-incorporated, the WPS, 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 WPS 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 re-entry for this product on Grapes, Nectarines and Peaches. 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.

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

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 "FIRST AID" section of this label.

SPRAY EQUIPMENT

Applications of this product using sufficient water volume to provide thorough and uniform coverage generally provide the most effective pest control. To avoid spray drift, do not apply when conditions favor drift from beyond the target area. Avoid overlap because crop injury may occur. Equip sprayers with nozzles that provide accurate and uniform application. Be certain that nozzles are the same size and uniformly spaced across the boom. Calibrate sprayer before use.

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

AERIAL APPLICATION

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

CHEMIGATION

Application Through an Irrigation System (Chemigation)—

This product may be applied alone or in combination with other pesticides registered for application through sprinkler (including center pivot, lateral move, end four side (wheel) roll, traveler, big gun, solid set or hand move), or drip (trickle) irrigation systems (including surface and subsurface.) Do not apply this product through any other type of irrigation system. To ensure 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.

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 your 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 and Drip (Trickle) Chemigation

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

Operating Instructions

1. Determine the acreage to be treated by the 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 the application rate and the amount of water per acre.

3/11

3. Add the pre-measured product 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 or drip chemigation.
4. Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.
5. Engage the chemigation injection or venturi system to add this product 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 farthest from the chemigation injection point.

NOTE: When treatment with this product has been completed, further field irrigation over the treated area should be avoided for 48 hours to prevent washing this product off the crop. Apply this product only in sufficient irrigation water to achieve thorough plant coverage. Excess water will wash the product from the plant, resulting in poor control. To avoid a hazard to animals, wells or adjoining crops, do not allow irrigation water to collect or runoff.

FRUIT AND NUT CROPS

REI — 24 Hours.

This product may be applied using ground or aerial application equipment as specified in the following table. 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 to 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: "pounds or pounds of product" in the directions means pounds of this product, not pounds of active ingredient). If the "Rate" calls for 1 pound of this product per 100 gallons of water, this amounts to 3 to 4 pounds of product per acre when applied to fruit trees at usual dilute ground spray volumes of 300 to 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	Ground Application	
	Minimum Gals. per Acre	Minimum Gals. per Acre	
		Dilute	Concentrate
Almonds*, Apples, Apricots, Blackberries**, Blueberries, Boysenberries**, Cherries	20	100	20
Cranberries	20	15	—
Dewberries**, Grapes, Loganberries**, Nectarines, Peaches, Pears	20	100	20
Pineapple	20	200	—
Plums, Prunes, Raspberries**, Strawberries, 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 applications and total number of applications that can be made per season.

Crop	PHI*
Almonds	—
Apples, Apricots, Cherries, Nectarines, Peaches, Pears, Plums, Prunes	21
Blackberries, Blueberries, Boysenberries, Cranberries, Dewberries, Loganberries, Pineapple, Raspberries	7
Grapes	28
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.

Fruit and Nut Crop	Pests Controlled	Rate
Almonds (CA Only)	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 to 1.5 lbs + 2 to 3 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply only as a single dormant spray. Do not apply more than 6 lbs. of product or 9 gals. of oil per acre.	
Apples	Apple aphid eggs, Apricot scales, Black scales, Black cherry aphid eggs, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: 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. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply, beginning at petal fall, as infestations develop. Repeat application in 14 days, if necessary.	
	Eyespotted bud moths, Fruitree leafrollers, Mealybugs	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make 3 cover sprays, beginning at pink stage. Do not repeat application closer than 14 days.	
	Codling moths, Green apple aphids, Rosy apple aphids, Spider mites, Woolly apple aphids	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make 3 cover sprays beginning when infestations occur. Do not repeat applications closer than 14 days. Note: Mites will be suppressed if this product 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. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make 3 cover sprays when flies are active and laying eggs. Do not repeat applications closer than 14 days. Note: This product will not control organophosphate-resistant Apple maggots.	
Forbes scale crawlers, San Jose scale	1 lb. per 100 gals. of water	
TIMING/SPECIAL DIRECTIONS: 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	Apple aphid eggs, Apricot scales, Black scales, Black cherry aphid eggs, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 gals. dormant oil or 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: 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), Olive scale crawlers, San Jose scale crawlers, Twospotted spider mites	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as infestations occur. Repeat application after 14 days, if necessary.	
	Olive scale crawlers	0.5 lb. + 1.5 gals. of light medium horticultural oil per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply when scale crawlers are present. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre per application.		

(Continued)

Fruit and Nut Crop	Pests Controlled	Rate
(Cont.) Apricots	Apricot mealybugs	1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: 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.		
Blueberries	Aphids, Blueberry maggots, Cherry fruitworms, Cranberry fruitworms, Thrips, Twospotted spider mites	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Apply as infestations occur. Allow 14 days between applications.	
	Fire ants	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: To aid in control of Fire ants, slowly apply 1 gal. of diluted mixture over and 6 inches to each Fire ant mound. Apply gently to avoid disturbing Ants. Use equipment capable of delivering the diluted product as a gentle rain. High pressure sprays may disturb the Ants and cause migration, reducing product effectiveness. Note: For best results apply in cool weather, 65° to 85°F, or in early morning or late evening hours.	
Notes: 1) Do not apply more than 2 lbs. of product per acre per application and no more than 10 lbs. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.		
Caneberries, (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) (CA, OR and WA Only)	Aphids, Leafhoppers, Raspberry fruitworms, Thrips, Twospotted spider mites	2 lbs. per acre in a minimum of 100 gals. of water (200 gals. of water maximum)
	TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat application after 14 days, if necessary. For Raspberry fruitworms, make one application when blossom buds separate. Make a second application immediately before blossoms open.	
	Dryberry mites	2 to 4 lbs. per acre in a minimum of 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: 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
	TIMING/SPECIAL DIRECTIONS: Apply as a drench to the crown and lower canes in the Spring before buds break.	
Notes: 1) Do not apply more than 4 lbs. of product per acre per application and no more than 10 lbs. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.		
Chemes	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1.25 lbs. + 3 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.	
	Eyespotted bud moths, Fruitree leafrollers	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as infestations occur, beginning at petal fall. Repeat application after 7 days, if necessary.	
	Leafhoppers	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make 3 to 4 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications.	
Cherry fruitflies	0.5 to 1 lb. per 100 gals. of water	
TIMING/SPECIAL DIRECTIONS: Make 3 to 4 applications beginning when adult flies begin to emerge and repeating at 10-day intervals.		
(Continued)		

Fruit and Nut Crop	Pests Controlled	Rate
(Cont.) Chemes	Black cherry aphids	1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply as a cover spray when Aphids appear. Repeat application after 10 days, if necessary.		
	San Jose scale crawlers	1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply during the pre-pink stage or when Crawlers first appear.		
	Cherry rust mites	0.5 to 1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: 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 (<i>Rhopobota naevana</i>)	4 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Apply to larval stage. Pheromone trap captures and sweep monitoring may be used to optimize treatment timing. Repeat application after 14 days, if necessary. A maximum of 6 applications per season is permitted.	
	Cranberry fruitworms	4 to 6 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Cranberry growth stage and/or berry inspection for eggs may be used to optimize treatment timing; consult your local extension agent or pest management advisor. Repeat application every 14 days, as needed. A maximum of 4 applications per season is permitted for the 6 lb. rate. A maximum of 6 applications per season is permitted for the 4 lb. rate.	
	Cranberry tipworms	4 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Presence of damage is not an indicator of active infestation. For best results, target early-stage larvae. Repeat application after 14 days if necessary. A maximum of 6 applications per season is permitted.	
Notes: 1) This product may be applied to Cranberries via ground, aerial or sprinkler irrigation. For ground application, apply the product in a minimum of 15 gals. of water per acre. For aerial application, a minimum of 20 gals. of water per acre and for chemigation, up to 400 gals. of water per acre. Refer to the "CHEMIGATION" section of this label for specific chemigation directions. 2) Do not use water from irrigated or flooded Cranberry beds for drinking purposes or to irrigate crops other than those appearing on EPA-approved diazinon labels. 3) Do not apply more than 24 lbs. of product per acre per season. 4) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.		
Grapes	Aphids, Grape berry moths, Grape leafrollers, Leafhoppers, Omnivorous leafrollers, Pacific spider mites, Spider mites	1 to 2 lbs. per acre in a minimum of 100 gals. of water (200 gals. of water maximum)
	TIMING/SPECIAL DIRECTIONS: Apply as a thorough cover spray when pests appear. Repeat application after 7 days, if necessary.	
	<i>Drosophila spp.</i>	6 ozs. per acre in a minimum of 100 gals. of water (300 gals. of water maximum)
TIMING/SPECIAL DIRECTIONS: Apply as a thorough cover spray at 7-day intervals, if necessary.		
Notes: 1) Do not apply more than 2 lbs. of product per acre per application and no more than 10 lbs. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 28 days between the last application and harvest.		
Nectarines	Apple aphid eggs, Black cherry aphid eggs, Black scales, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 to 3 gals. of dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: 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), Olive scale crawlers, San Jose scale crawlers, Twospotted spider mites	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as infestations occur. Repeat application after 7 days, if necessary.	
(Continued)		

Fruit and Nut Crop	Pests Controlled	Rate
(Cont.) Nectanines	Parlatoria scales, Peach twig borers	1 lb. + 1 gal. light medium Summer horticultural oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply at petal fall. Do not apply more than 4 lbs. of product or 4 gals. of Summer oil per acre.	
	Olive scale crawlers	0.5 lb. + 1.5 gals. light medium horticultural oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: 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. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply at 100% petal fall. Make 2 additional applications at 10- to 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	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 to 3 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: 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), Olive scale crawlers, San Jose scale crawlers, Twospotted spider mites	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as infestations occur. Repeat application after 14 days, if necessary.	
	Parlatoria scales, Peach twig borer	1 lb. + 1 gal. light medium Summer horticultural oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply at petal fall. Do not apply more than 4 lbs. of product or 4 gals. of oil per acre.	
	Olive scale crawlers	0.5 lb. + 1.5 gals. light medium horticultural oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: 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. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply at 100% petal fall. Make 2 additional applications at 10- to 15-day intervals. Time the last application to peak adult flight.	
	Peach twig borers	1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply as insects occur in May and June. Allow 7 days between applications.		
Leafhoppers	1 lb. per 100 gals. of water	
TIMING/SPECIAL DIRECTIONS: Make 3 to 4 applications, beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications.		
White peach scales	1.5 to 2 lbs. per 100 gals. of water	
TIMING/SPECIAL DIRECTIONS: 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.		

Fruit and Nut Crop	Pests Controlled	Rate
Pears	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Pearleaf blister mite eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 to 3 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 gals. of oil per acre.	
	Pear psyllas	0.5 to 1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a cover spray at pre-pink stage. Make 1 to 2 additional applications during the first and second cover sprays, if necessary. Allow at least 14 days between applications.	
	Mealybugs, Tentiform leafminers	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make 3 cover sprays, beginning in April. Allow at least 14 days between applications.	
	Codling moths, Green apple aphids, Rosy apple aphids, Spider mites, Woolly apple aphids	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make 3 cover sprays, beginning as infestations occur. Allow at least 14 days between applications. Note: Mites will be suppressed if this product is used in this regular cover spray program.	
	Apple maggots	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make 3 cover sprays when flies are active and laying eggs. Allow at least 14 days between applications. Note: This product will not control organophosphate-resistant Apple maggots.	
Forbes scale crawlers, San Jose scale crawlers	1 lb. per 100 gals. of water	
TIMING/SPECIAL DIRECTIONS: 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 per 200 to 500 gals. of water
	TIMING/SPECIAL DIRECTIONS: Repeat application as necessary every 28 days, up to a maximum of 8 applications. Do not apply within 7 days of harvest or illegal residues may occur.	
Plums	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 to 3 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: 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 this product with 1 gal. of light medium Summer horticultural oil per 100 gals. of water.	
	Brown mites, Clover mites, European red mites	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as needed, every 7 days.	
	Leafcutter plum aphids, Mealy plum aphids, Thistle aphids	0.5 to 1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply as needed, every 7 days.		
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	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 lb. + 2 to 3 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: 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 this product with 1 gal. of light medium Summer horticultural oil per 100 gals. of water.	
(Continued)		

Fruit and Nut Crop	Pests Controlled	Rate
(Cont.) Prunes	Brown mites, Clover mites, European red mites	1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as needed, every 7 days.	
	Leafcutter plum aphids, Mealy plum aphids, Thistle aphids	0.5 to 1 lb. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as needed, every 7 days.	

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, Twospotted spider mites	1 lb. per 100 gals. of water per acre
	TIMING/SPECIAL DIRECTIONS: Apply as pests occur. Repeat application if necessary, after 7 days.	
	Cyclamen mites	2 lbs. per 100 gals. of water per acre
	TIMING/SPECIAL DIRECTIONS: Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of foliage. Repeat application after 7 days, if necessary.	
	Mole crickets	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Apply 1 to 2 days before transplanting and immediately incorporate into the top 1 to 2 inches of soil.	
	Strawberry leafrollers	0.75 to 1 lb. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: 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.

Walnuts (CA Only)	Aphids, Spider mites	2 lbs. per 100 gals. of water per acre
	TIMING/SPECIAL DIRECTIONS: Apply as a foliar spray. Repeat application in 14 days, if necessary. Do not make more than 3 applications per season.	
	Codling moths, Scale crawlers, Walnut caterpillars	6 lbs. in 100 gals. of water per acre
TIMING/SPECIAL DIRECTIONS: Apply as a foliar spray as needed. Repeat application in 14 days, if necessary. Do not make more than 3 applications per season.		

Notes: 1) Do not apply more than 6 lbs. of product per acre per application and no more than 18 lbs. 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.

VEGETABLE CROPS

REI — 24 hours.

For foliar or soil applications, this product should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. This product may be applied aerially or by ground application as specified in the following table. This table indicates the minimum amount of water that can be used for the various methods of application. The specific amount of product to be used appears under the separate "DIRECTIONS FOR USE" for each crop.

Crop	Ground Application		Aerial Application
	Minimum Gals. per Acre	- OR - Minimum Gals. per 1,000 Sq. Ft.	Minimum Gals. per Acre
Beets, Red (Table), Broccoli, Brussels sprouts, Cabbage, Carrots, Cauliflower, Chinese broccoli, Chinese cabbage, Chinese mustard, Collards, Endive (Escarole), Kale, Lettuce (Head, Leaf), Mustard, Onions (Bulb, Green), Radishes, Rutabagas, Spinach, Tomatoes	10	2	5

(Continued)

Crop	Ground Application		Aerial Application
	Minimum Gals. per Acre	- OR - Minimum Gals. per 1,000 Sq. Ft.	Minimum Gals. per Acre
Cantaloupes, Casaba melons, Crenshaw melons, Honeydew melons, Muskmelons, Persian melons, Watermelons	5	1	5
Sweet corn	20	4	5

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

Pre-Harvest Intervals (PHI) for Foliar Applications	
Crop	PHI (Days)
Broccoli, Brussels sprouts, Cauliflower, Sweet corn	7
Beets, Red (Table), Carrots, Endive (Escarole), Lettuce (Head, Leaf), Onions (Bulb, Green), Radishes, Rutabagas, Spinach	14
Cabbage	21
Cantaloupes, Casaba melons, Crenshaw melons, Honeydew melons, Muskmelons, Persian melons, Watermelons	3
Chinese broccoli, Chinese cabbage, Chinese mustard, Collards, Kale, Mustard	10
Tomatoes	1

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

Notes: 1) Soil Incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see "TIMING/SPECIAL DIRECTIONS") using a rotary hoe, cultivator, disk, harrow or other suitable means. For control of Surface cutworms, incorporate 2 to 3 inches, for Subterranean cutworms, incorporate 3 to 6 inches. 2) To Protect Bees: Foliar applications of this product should not be made to Corn during the pollen shed period.

Vegetable Crop	Pests Controlled	Rate
Beets, Red (Table)	Cutworms	4 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
Aphids, Dipterous leafminers	0.5 to 1 lb. per acre OR 0.2 to 0.4 oz. per 1,000 sq. ft.	
		TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers.

Vegetable Crop	Pests Controlled	Rate
Broccoli	Root maggots	4 to 6 lbs. per acre OR 1.5 to 2.25 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.	
	Root maggots	4 to 8 ozs. per 50 gals. of water
	TIMING/SPECIAL DIRECTIONS: In transplant water as a drench application when 200 to 300 gals. of water are used per acre. Apply 0.5 to 1 cup (4 to 8 ozs.) 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 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
Brussels sprouts	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	0.5 to 1 lb. per acre OR 0.2 to 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers.	
	Root maggots	4 to 6 lbs. per acre OR 1.5 to 2.25 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.	
	Root maggots	4 to 8 ozs. per 50 gals. of water
	TIMING/SPECIAL DIRECTIONS: In transplant water as a drench application when 200 to 300 gals. are used per acre. Apply 0.5 to 1 cup (4 to 8 ozs.) 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 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
Carrots	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
	Carrot rust flies	4 lbs. per acre OR 1.5 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply as a drench to the seed furrow at planting.	
	Aphids	1 lb. per acre OR 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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.	
	Root maggots	4 to 6 lbs. per acre OR 1.5 to 2.25 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.	
	(Continued)	

Vegetable Crop	Pests Controlled	Rate
Cabbage	Root maggots	4 to 6 lbs. per acre OR 1.5 to 2.25 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting or transplanting and immediately incorporate into the top 3 to 4 inches of soil.	
	Root maggots	4 to 8 ozs. per 50 gals. of water
	TIMING/SPECIAL DIRECTIONS: In transplant water as a drench application when 200 to 300 gals. of water are used per acre. Apply 0.5 to 1 cup (4 to 8 ozs.) 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 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
Cauliflower	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	0.5 to 1 lb. per acre OR 0.2 to 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers.	
	Cutworms	4 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
	Carrot rust flies	4 lbs. per acre OR 1.5 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply as a drench to the seed furrow at planting.	
Cauliflower	Aphids	1 lb. per acre OR 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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.	
(Continued)	Root maggots	4 to 6 lbs. per acre OR 1.5 to 2.25 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.	

8/11

Vegetable Crop	Pests Controlled	Rate
(Cont.) Cauliflower	Root maggots	4 to 8 ozs. per 50 gals. of water
	TIMING/SPECIAL DIRECTIONS: In transplant water as a drench application when 200 to 300 gals. of water are used per acre. Apply 0.5 to 1 cup (4 to 8 ozs.) 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 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	0.5 to 1 lb. per acre OR 0.2 to 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers.	
Chinese broccoli, Chinese cabbage (Bok choy and Napa), Chinese mustard (Gai choy)	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	0.5 to 1 lb. per acre OR 0.2 to 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers.	
Collards	Cutworms	4 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Aphids, Corn earworms, Diamondback moths, Harlequin cabbageworms, Imported cabbageworms	0.5 to 1 lb. per acre OR 0.2 to 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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.	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		

Vegetable Crop	Pests Controlled	Rate
Endive (Escarole)	Cutworms	4 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate 4 to 8 inches into soil.	
	Aphids, Dipterous leafminers	0.5 to 1 lb. per acre OR 0.2 to 0.4 oz. per 1,000 sq. ft.
TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers.		
Kale	Cutworms	4 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
Lettuce (Head, Leaf)	Aphids, Corn earworms, Diamondback moths, Harlequin cabbageworms, Imported cabbageworms	0.5 to 1 lb. per acre OR 0.2 to 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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.	
	Cutworms	4 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
(Continued)	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	

Vegetable Crop	Pests Controlled	Rate
(Cont.) Lettuce (Head, Leaf)	Aphids, Dipterous leafminers	0.5 to 1 lb. per acre OR 0.2 to 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers	
Melons (Cantaloupes, Casabas, Crenshaws, Honeydew, Muskmelons, Persians and hybrids of these) and Watermelons	Cutworms	4 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
	Aphids, Dipterous leafminers, Leafhoppers, Melonworms, Spider mites, Striped cucumber beetles, Thrips	0.5 to 1.5 lbs. per acre OR 0.2 to 0.6 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers.	
Mustard	Mole Crickets	2 lbs. per acre or 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre or 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
	Aphids, Dipterous leafminers, Diamondback moths, Imported cabbageworms	0.5 to 1 lb. per acre or 0.2 to 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers.	
Onions (Bull and Green), Garlic, Leeks, Spring onions or Scallions, Japanese bunching onions, Green shallots, Green eschalots	Onion maggots	4 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and mix into the top 3 to 4 inches of soil. (See "Soil Incorporation Note".) Note: This product will not control organophosphate-resistant Onion maggots.	
	Onion thrips	1 lb. per acre OR 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	

Vegetable Crop	Pests Controlled	Rate
Radishes	Cutworms	4 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
Rutabagas	Aphids, Dipterous leafminers, Flea beetles	0.5 to 1 lb. per acre OR 0.2 to 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers.	
	Cutworms	4 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
Spirach	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
	Aphids, Dipterous leafminers, Flea beetles	0.5 to 1 lb. per acre OR 0.2 to 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers.	
	Aphids, Dipterous leafminers	0.5 to 1 lb. per acre OR 0.2 to 0.4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers.	

10/11

Vegetable Crop	Pests Controlled	Rate
Sweet corn	Cutworms	4 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Seed corn maggots	4 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
	Corn earworms	2 to 2.5 lbs. per acre OR 0.75 to 1 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply when silks first appear. Repeat application every 7 days, up to a maximum of 5 applications, if necessary.	
	Corn leaf aphids	1 to 2 lbs. per acre OR 0.4 to 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: 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.	
Flea beetles, Grasshoppers, Spider mites	1 lb. per acre OR 0.4 oz. per 1,000 sq. ft.	
TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat if necessary, but do not make more than 5 applications per season.		
Sap beetles	2 to 2.5 lbs. per acre OR 0.75 to 1 oz. per 1,000 sq. ft.	
TIMING/SPECIAL DIRECTIONS: 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 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 to 8 lbs. per acre OR 1.5 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR 0.75 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast one to two days before planting and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2.25 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
	Aphids, Dipterous leafminers	0.5 lb. per acre OR 0.2 oz. per 1,000 sq. ft.
TIMING/SPECIAL DIRECTIONS: Apply as insects appear. Repeat application after 7 days, if necessary. Do not make more than 5 applications per season. Do not apply within 1 day of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.		
(Continued)		

Vegetable Crop	Pests Controlled	Rate
(Cont.) Tomatoes	Banded cucumber beetles, Beet armyworms, Fall armyworms, Southern armyworms	0.75 to 1 lb. per acre OR 0.33 to 0.4 oz. per 1,000 sq. ft.
TIMING/SPECIAL DIRECTIONS: Apply as insects appear. Repeat application after 7 days, if necessary. Do not make more than 5 applications per season. Do not apply within 1 day of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.		
	Vinegar flies	0.5 to 1.5 lbs. per acre OR 0.2 to 0.6 oz. per 1,000 sq. ft.
TIMING/SPECIAL DIRECTIONS: Apply as insects appear. Repeat application after 7 days, if necessary. Do not make more than 5 applications per season. Do not apply within 1 day of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.		

MUSHROOM HOUSES

Mushroom flies (Phorids and Scliarids)—Mix 4 to 5 pounds of this product 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.

Notes: 1) If seed has not been treated with a fungicide, use an EPA-registered fungicide in combination with this product 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, 0.5 ounce 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 beetles: Mix 3 ounces per bushel of seed.

Seedcorn maggots: Mix 0.5 ounce per bushel of seed.

CORN, SUCCULENT PEAS, AND SUCCULENT BEANS — Seedcorn maggots: Mix 0.5 oz. per bushel of seed.

FIELD CROPS

REI — 24 Hours.

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

Pre-Harvest Intervals (PHI)* For Foliar Applications	
Crop	PHI* (Days)
Hops	14
Sugar beets	14
*PHI = Pre-Harvest Interval or the number of days between the last application and harvest.	

Field Crop	Pests Controlled	Rate
Hops	Aphids, Spider mites	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: 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 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 6 inches of soil. Do not apply more than 8 lbs. of this product to the soil per season.	
	Aphids, Beet leafhoppers, Dipterous leafminers	0.75 to 1 lb. per acre
	TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-resistant Leafminers.	
	Grasshoppers	1 lb. per acre
	TIMING/SPECIAL DIRECTIONS: 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: Sugar beet tops may be fed to beef and dairy animals.

INSECT CONTROL ON ORNAMENTALS GROWN OUTDOORS IN NURSERY

REI — 12 Hours.

To control certain insects on ornamentals, such as Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Crab apple, Dogwood, Douglas fir, Elm, Euonymus, Gladioli, Hawthorn, Holly, Honey locust, Honeysuckle, Juniper, Lilac, Lily, Locust, Maple, Marigold, Oak, Ornamental plum, Pansy, Petunia, Pine, Poplar, Rhododendron, Rose, Scotch pine, Spirea, Spruce, Sycamore, Wax plant (Hoya), Willow, Yellowwood and Yew, apply the recommended rates indicated below. Apply when pests first appear. Try to spray underside of leaves and penetrate dense foliage. Repeat as necessary.

Note: Do not use on Ferns, Gardenias, Hibiscus, Papayas, Pilea and Poinsettias, since injury to the plants may occur.

Insects	Amount of This Product	
	Rate per 3 Gals. of Water	Rate per 100 Gals. of 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, Juniper webworms, Leafhoppers, Obscure root weevils, Omnivorous leafhoppers, Privet mites, Scale crawlers (Cottony-cushion, Lecanium, Pine needle, San Jose, Soft), Thrips, Twospotted spider mites, Whiteflies	0.5 oz.	1 lb.
Apple-and-thorn skeletonizers, Cotoneaster webworms, European pine sawflies, Fall webworms, Hemlock chermes, Oak loopers, Obliquebanded leafrollers, Pear slugs, Tent caterpillars	1.5 oz.	3 lbs.

Mimosa webworms: Mix 0.5 oz. in 3 gallons of water (or 1 pound in 100 gals. of water) and apply as a thorough foliar spray when adults first appear. Make a second and third application at 4- to 5-week intervals.

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. To avoid harming aquatic organisms in rivers and other surface waters, do not pour spray mixture or rinse water into sanitary drains (for example: toilets, floor drains and sinks) or into storm water sewers (for example: street drains). If pesticide, spray mixture or 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. Stay out of smoke from burning container.

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

WARRANTY—CONDITIONS OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. In no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The Company makes no other warranties or representations of any kind, expressed or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.