

19713-91

3/6/2002

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RESTRICTED USE PESTICIDE

Due to Avian and Aquatic Toxicity

For retail sale to and use by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.



ACCEPTED
MAR - 6 2002
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 19713-91

Diazinon

Insecticide

For control of certain insects on Fruits, Nuts, Vegetables, Field crops and Ornamentals grown outdoors in nurseries.

ACTIVE INGREDIENT:

Diazinon	48.2%
OTHER INGREDIENTS*:	<u>51.8%</u>
TOTAL:	100.0%

*Contains xylene range aromatic solvent.
This product contains 4 pounds diazinon per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION

See **FIRST AID** Below
SHAKE WELL BEFORE USING

EPA Reg. No. 19713-91
EPA Est. No. 19713-GA-1 Net Contents: _____

FIRST AID	
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 or convulsing person.
IF IN EYES:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes.
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.
<p>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.</p>	
<p>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.</p>	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals
CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing vapor 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 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 in this booklet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical-resistance category selection chart. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils., nitrile rubber ≥ 14 mils., or Viton ≥ 14 mils. and shoes plus socks.

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.

ENVIRONMENTAL HAZARDS

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

Manufactured By:
Drexel Chemical Company
P.O. BOX 13327, MEMPHIS, TN 38113-0327
SINCE 1972

ENVIRONMENTAL HAZARDS (Cont.)

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.

Note: Add this statement to all container sizes of 5 gallons and higher. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

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

GENERAL INFORMATION

DIAZINON Insecticide is an emulsifiable solution which, when diluted with water according to the directions, is intended for the control of insect pests of agricultural crops and other plants. Do not use in greenhouses. Do not use in barns or dwellings. Do not use on livestock. In "DIRECTIONS FOR USE" which follows, best control is obtained when application is made at first sign of pests. Application should be repeated only as directed to maintain control.

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.

Note: The CA Department of Agriculture has set a 5-day re-entry period for this product 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.

REFORMULATION OR REPACKAGING OF THIS PRODUCT IS PROHIBITED.

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.

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

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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 into 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 into 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, chemical-resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils., nitrile rubber ≥ 14 mils. or viton ≥ 14 mils. and shoes plus socks.

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

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 manufacturers 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

This product may be applied alone or in combination with other pesticides registered for application through sprinkler, including center pivot, lateral move, end tour side (wheel) roll, traveler, big gun, solid set or hand move, or drip (trickle) irrigation systems (including surface and subsurface). Do not apply this product through any other type of irrigation system. To ensure compatibility, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for 5 minutes. If the combination remains mixed or can be remixed readily, the mixture is compatible. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

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

Chemigation System Connected to Public Water Systems

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

Sprinkler 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.

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- 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.
- The system must contain functional, interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 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.
- 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.
- Do not use sprinkler chemigation when wind speed favors drift beyond the area intended for treatment.

Operating Instructions

- Determine the acreage to be treated by the sprinkler system.
- 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.
- Add the pre-measured amount of this product to the chemigation system supply tank and dilute with water if needed. Proper agitation is needed if this product is tank-mixed with other pesticides registered for sprinkler or drip chemigation application to Cranberries.
- Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.
- Engage the chemigation injection or venturi system to add this product to the irrigation lines.
- Continue to run irrigation system for a few minutes after supply tank is empty to allow material in the irrigation lines to reach the sprinkler heads furthest from the chemigation injection point.

Note: When treatment with this product has been completed, further field irrigation over the treated area should be avoided for 48 hours to prevent washing the product off of the crop. Apply 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 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 to Fruit trees by ground equipment is based on a dilute full cover spray applied 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. If the rate calls for 1 pint of this product in 100 gallons of water, this amounts to 3 to 4 pints of product per acre when applied at the 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 "TIMING/SPECIAL DIRECTIONS" for individual crops.

Crops	Aerial Application Minimum Gals. per Acre	Ground Application Minimum Gals. per Acre	
		Dilute	Concentrate
Almonds*	20	100	20
Apricots	20	100	20
Blackberries**	20	100	20
Blueberries	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
Plums	20	100	20
Prunes	20	100	20
Raspberries**	20	100	20
Strawberries	20	100	20
Walnuts*	20	100	20

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

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

Crops	PHI* (Days)
Almonds	Dormant spray only.
Strawberries	5
Blackberries, Blueberries, Boysenberries, Cranberries, Dewberries, Loganberries, Raspberries	7
Apricots, Cherries, Nectarines, Peaches, Plums, Prunes	21
Grapes	28
Walnuts	45

*Pre-Harvest Interval (PHI) is the number of days to wait between the last application and harvest.
Note: To protect bees, do not apply this product to Fruit trees when trees or substantial numbers of weeds in the orchard are in bloom.

Crops	Pests	Rate
Almonds (CA only)	Parlatoria scales, San Jose scales	1 to 1.5 pts. + 2 to 3 gals. dormant oil or 1 to 1.5 gals. superior type oil in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 6 pts. of this product or 9 gals. of oil per acre.	
Apricots	Aphids, Brown mites (Clover mites), Olive scale crawlers, San Jose scale crawlers, Twospotted spider mites	1 pt. in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as infestations occur. Repeat application after 14 days, if necessary.	
	Apricot mealybugs	1 pt. in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a cover spray from petal fall to June. Allow 14 days between applications.	
	Olive scale crawlers	0.5 pt. + 1.5 gals. of light medium horticultural oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when Scale crawlers are present.	

Note: 1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. 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	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as infestations occur. Allow 14 days between applications.	
	Fire ants	1 pt. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: To aid in the control of Fire ants in Blueberry fields, slowly apply 1 gal. of diluted mixture over and 6 inches around each 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. For best results, apply in cool weather, 65-80°F, or in early morning or late evening hours.		

Note: 1) Do not apply more than 2 pts. 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, Raspberry sawflies, Thrips, Twospotted spider mites	1 qt. per acre
	TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat application after 14 days, if necessary. Apply in a minimum of 100 gals. of water per acre (200 gals. per acre maximum). For Raspberry fruitworms, make one application when blossom buds separate. Make a second application immediately before blossoms open.	
	Dryberry mites	1 to 2 qts. per acre
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. Apply in a minimum of 100 gals. of water per acre.		

(Continued)

Crop:	Pests	Rate
(Cont.) Caneberries (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) CA, OR and WA only	Raspberry crown borers (Raspberry root borers)	2 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Apply a single application in a minimum of 100 gals. of water per acre as a drench to the crown and lower canes in the Spring before buds break.	
Note: 1) Do not apply more than 2 qts. of product per acre per application and no more than 5 qts. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 7 days between last application and harvest.		
Cherries	Black cherry aphids	1 pt. in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a cover spray when Aphids appear. Repeat application after 10 days, if necessary.	
	Cherry fruitflies	0.5 to 1 pt. in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make 3 to 4 applications beginning when adult Flies begin to emerge and repeat at 10-day intervals.	
	Cherry rust mites	0.5 to 1 pt. in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply to trees as a single supplemental spray after harvest.	
	Eyespotted bud moths, Fruit tree leafrollers	1 pt. in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply in cover sprays as infestations occur beginning at petal fall. Repeat application after 7 days, if necessary.	
	Leafhoppers	1 pt. in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make 3 applications beginning at petal fall and continuing throughout the growing season as infestations occur. Allow 7 days between applications.	
San Jose scale crawlers	1 pt. in 100 gals. of water	
TIMING/SPECIAL DIRECTIONS: Apply during the pre-pink stage or when crawlers first appear.		
Note: 1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.		
Cranberries	Blackheaded fireworms (<i>Rhopobota nsevana</i>)	2 qts. 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	2 to 3 qts. 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 3 qt. rate. A maximum of 6 applications per season is permitted for the 2 qt. rate.	
	Cranberry tipworms	2 qts. 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.		
Note: 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; 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 on EPA-approved diazinon labels. 3) Do not apply more than 12 quarts of product per acre per season. (4) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.		

Crops	Pests	Rate
Grapes	Aphids, Grape berry moths, Grape leafrollers, Leafhoppers, Omnivorous leafrollers, Pacific spider mites, Spider mites	1 to 2 pts. per acre in a minimum of 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as pest occurs as a thorough cover spray. Repeat application after 7 days, if necessary.	
	Vinegar flies, (<i>Drosophila spp.</i>)	6 fl. ozs. per acre in a minimum of 100 gals. of water (300 gals. of water maximum)
TIMING/SPECIAL DIRECTIONS: Apply as pest occurs as a thorough cover spray. Repeat application after 7 days, if necessary.		
Note: 1) Do not apply more than 2 pts. of product per acre per application and no more than 10 pts. per acre per season. 2) To avoid illegal residues, allow 28 days between the last application and harvest.		
Nectarines	Aphids, Brown mites (Clover mites), Olive scale crawlers, Peach twig borers, San Jose scale crawlers, Twospotted spider mites	1 pt. in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as infestations occur. Repeat application after 14 days, if necessary.	
	Oriental fruit moths	1 pt. in 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.	
Note: 1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. per acre per season. 2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.		
Peaches	Aphids, Brown mites (Clover mites), Olive scale crawlers, San Jose scale crawlers, Twospotted spider mites	1 pt. in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as infestations occur. Repeat application after 14 days, if necessary.	
	Leafhoppers	1 pt. in 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.	
	Oriental fruit moths	1 pt. in 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 pt. in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as insects occur in May and June. Allow 7 days between applications.	
White peach scales	1.5 to 2 pts. in 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. Do not apply before fruit is harvested.		
Note: 1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.		
Plums, Prunes	Brown mites (Clover mites), European red spider mites	1 pt. in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as needed every 7 days.	
	Leafcurl plum aphids, Mealy plum aphids, Thistle aphids	0.5 to 1 pt. in 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply as needed every 7 days.		
Note: 1) Do not apply more than 4 pts. of product per acre per application and no more than 12 pts. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.		

Crops	Pests	Rate
Strawberries	Aphids, Twospotted spider mites	1 pt. in 100 gals. of water per acre
	TIMING/SPECIAL DIRECTIONS: Apply as pests occur. Repeat application, if necessary, every 7 days, but do not make more than 3 applications per season.	
	Cyclamen mites	1 qt. in 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 the foliage. Repeat application after 7 days, if necessary. Do not make more than 3 foliar applications per season.	
	Mole crickets	1 qt. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast in sufficient water to obtain even coverage when insects are present. 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 pt. in 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply 200 gals. of spray per acre when blossoms show color.	

Note: 1) Do not apply more than 1 qt. of product per application and no more than 4 qts. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 5 days between the last application and harvest.

Walnuts (CA only)	Aphids, Spider mites	1 qt. per acre
	TIMING/SPECIAL DIRECTIONS: Apply as a foliar spray. Repeat application in 14 days, if necessary. Make ground applications in a minimum of 100 gals. of water per acre.	
	Codling moths, Scale crawlers, Walnut caterpillars	3 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Apply as a foliar spray. Repeat application in 14 days, if necessary. Make ground applications in a minimum of 100 gals. of water per acre.	

Note: 1) Do not apply more than 4 qts. of product per acre per application and no more than 9 qts. 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 using ground or aerial application equipment as specified in the following table. This table indicates the minimum amount of water that can be used for the various methods of application. The specific amount of this product to be used appears under the separate directions for use for each crop.

Crops	Ground Application		Aerial Application
	Minimum Gals. per Acre	or Minimum Gals. per 1,000 Sq. Ft.	Minimum Gals. per Acre
Beets (Red table)	10	2	5
Broccoli	10	2	5
Brussels sprouts	10	2	5
Cabbage	10	2	5
Cantaloupe	5	1	5
Carrots	10	2	5
Casaba melons	5	1	5
Cauliflower	10	2	5
Chinese broccoli	10	2	5
Chinese cabbage	10	2	5
Chinese mustard	10	2	5
Chinese radishes (CA, FL only)	10	2	5
Collards	10	2	5
Crenshaw melons	5	1	5
Endive (Escarole)	10	2	5
Ginseng	10	2	-
Honeydew melons	5	1	5
Kale	10	2	5

(Continued)

VEGETABLE CROPS (Cont.)

Crops	Ground Application		Aerial Application
	Minimum Gals. per Acre	or Minimum Gals. per 1,000 Sq. Ft.	Minimum Gals. per Acre
Lettuce (Head)	10	2	5
Lettuce (Leaf)	10	2	5
Muskmelons	5	1	5
Mustard	10	2	5
Onions (Bulb and Green)	10	2	5
Persian melons	5	1	5
Radishes	10	2	5
Rutabagas	10	2	5
Spinach	10	2	5
Sweet corn	20	4	5
Tomatoes	10	2	5
Watermelons	5	1	5

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

Pre-Harvest Intervals (PHI)* for Foliar Applications	
Crop	PHI* (Days)
Tomatoes	1
Cantaloupes, Casaba melons, Crenshaw melons, Honeydew melons, Muskmelons, Persian melons, Watermelons	3
Broccoli, Brussels sprouts, Cauliflower, Sweet corn	7
Chinese broccoli, Chinese cabbage, Chinese mustard, Chinese radishes, Collards, Kale, Mustard	10
Beets (Red table), Carrots, Endive (Escarole), Lettuce, Onions (Bulbs and Green), Radishes, Rutabagas, Spinach	14
Cabbage	21
Ginseng	30

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

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

Crops	Pests	Rate
Beets (Red table)	Cutworms	2 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Dipterous leafminers	0.5 to 1 pt. per acre
	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 14 days of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.	
	Mole crickets	1 qt. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	3 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	

Crops	Pests	Rate
Broccoli	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	0.5 to 1 pt. per acre
	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 7 days of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.	
	Cutworms	2 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	1 qt. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Root maggots	2 to 3 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.	
	Root maggots	4 to 8 fl. 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 fl. 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.	
Wireworms	3 to 4 qts. per acre	
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
Brussels sprouts	Aphids, Diamondback moths, Imported cabbageworms	0.5 to 1 pt. per acre
	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 7 days of harvest or illegal residues may occur.	
	Cutworms	2 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	1 qt. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Root maggots	2 to 3 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.	
	Root maggots	4 to 8 fl. 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 fl. 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.	
Wireworms	3 to 4 qts. per acre	
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into top 4 to 8 inches of soil.		
Cabbage	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	0.5 to 1 pt. per acre
	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 21 days of harvest, or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.	
	Cutworms	2 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
(Continued)		

Crops	Pests	Rate	
(Cont.) Cabbage	Mole crickets	1 qt. per acre	
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.		
	Root maggots	2 to 3 qts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.		
	Root maggots	4 to 8 fl. ozs. in 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 stress at time of transplanting.		
	Wireworms	3 to 4 qts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
	Carrots	Aphids	1 pt. per acre
		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 14 days of harvest or illegal residues may occur.	
Cutworms		2 to 4 qts. per acre	
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)			
Mole crickets		1 qt. per acre	
TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.			
Wireworms		3 to 4 qts. per acre	
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 pt. per acre
		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.	
	Cutworms	2 to 4 qts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)		
	Mole crickets	1 qt. per acre	
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.		
	Root maggots	2 to 3 qts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.		
	Root maggots	4 to 8 fl. ozs. in 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 fl. 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.		
Wireworms	3 to 4 qts. per acre		
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.			

Crops	Pests	Rate	
Chinese broccoli	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	0.5 to 1 pt. per acre	
	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 10 days of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.		
Chinese cabbage (Bok choy and Napa)	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	0.5 to 1 pt. per acre	
	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 10 days of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.		
Chinese mustard (Gai choy)	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	0.5 to 1 pt. per acre	
	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 10 days of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.		
Chinese radish (Japanese radish or Daikon) (CA and FL only)	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	1 pt. per acre	
	TIMING/SPECIAL DIRECTIONS: Mix in a minimum of 100 gals. of water per acre and apply as a foliar spray as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 3 applications per season. Do not apply within 10 days of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.		
Collards	Aphids, Corn earworms, Diamondback moths, Harlequin bugs, Imported cabbageworms	0.5 to 1 pt. per acre	
	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 10 days of harvest or illegal residues may occur.		
	Cutworms	2 to 4 qts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)		
	Mole crickets	1 qt. per acre	
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.		
	Wireworms	3 to 4 qts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
	Endive (Escarole)	Aphids, Dipterous leafminers	0.5 to 1 pt. per acre
		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 14 days of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.	
Cutworms		2 to 4 qts. per acre	
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)			
Mole crickets		1 qt. per acre	
TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.			
Wireworms		3 to 4 qts. per acre	
TIMING/SPECIAL DIRECTIONS: Broadcast before planting and immediately incorporate into the top 4 to 8 inches of soil.			

Crops	Pests	Rate	
Ginseng	Aphids, Flea beetles, Jumping plant lice, Leafhoppers, Lygus bugs	0.75 to 1 pt. per acre	
	TIMING/SPECIAL DIRECTIONS: Spray when insects first appear. For heavy insect infestations, use 1 pt. per acre. Apply by ground equipment using 10 to 100 gals. of water per acre. Do not apply more than one application per growing season. Do not apply during flowering of 3 or 4 year old crops. Do not apply within 30 days of harvest. Do not graze treated areas or feed treated forage to livestock.		
Kale	Aphids, Corn earworms, Diamondback moths, Harlequin bugs, Imported cabbageworms	0.5 to 1 pt. per acre	
	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 10 days of harvest or illegal residues may occur.		
	Cutworms	2 to 4 qts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)		
	Mole crickets	1 qt. per acre	
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.		
Lettuce	Aphids, Dipterous leafminers	0.5 to 1 pt. per acre	
	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 14 days of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.		
	Cutworms	2 to 4 qts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)		
Melons (Cantaloupes, Casabas, Crenshaws, Honeydews, Muskmelons, Persians and Hybrids of these) and Watermelons	Aphids, Dipterous leafminers, Leafhoppers, Melonworms, Spider mites, Striped cucumber beetles, Trips	0.5 to 1.5 pts. per acre	
	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.		
	Cutworms	2 to 4 qts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)		
	Wireworms	3 to 4 qts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
	Mustard	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	0.5 to 1 pt. per acre
		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 10 days of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.	

(Continued)

Crops	Pests	Rate
(Cont.) Mustard	Cutworms	2 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	1 qt. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	3 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
Onions (Bull and Green), Garlic, Leeks, Spring onions or scallions, Japanese bunching onions, Green shallots, Green eschaloats	Onion maggots	2 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and mix into the top 3 to 4 inches of soil. Note: This product will not control organophosphate-resistant Onion maggots.	
	Onion thrips	1 pt. per acre
	TIMING/SPECIAL DIRECTIONS: Apply as Thrips appear. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 14 days of harvest or illegal residues may occur.	
	Wireworms	3 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
Radishes	Aphids, Dipterous leafminers, Flea beetles	0.5 to 1 pt. per acre
	TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 3 applications per season. Do not apply within 14 days of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.	
	Cutworms	2 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole crickets	1 qt. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	3 to 4 qts. per acre
	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 pt. per acre
	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 14 days of harvest, or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.	
	Cutworms	2 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Mole Crickets	1 qt. per acre
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.	
	Wireworms	3 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
Spinach	Aphids, Dipterous leafminers	0.5 to 1 pt. per acre
	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 14 days of harvest or illegal residues may occur. Note: This product will not control organophosphate-resistant Leafminers.	
	Cutworms	2 to 4 qts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
(Continued)		

Crops	Pests	Rate	
(Cont.) Spinach	Mole crickets	1 qt. per acre	
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into top 1 to 2 inches of soil.		
	Wireworms	3 to 4 qts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
	Sweet corn	Corn earworms	1 to 1.25 qts. per acre
		TIMING/SPECIAL DIRECTIONS: Apply when silks first appear. Repeat application every 7 days, if necessary. Do not make more than 5 applications per season.	
Corn leaf aphids		1 to 2 pts. per acre	
TIMING/SPECIAL DIRECTIONS: Apply in sufficient water to provide complete coverage to the upper portions of the plants. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.			
Corn rootworms (Adult)		0.5 to 1 pt. per acre	
TIMING/SPECIAL DIRECTIONS: Apply as insects first occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.			
Cutworms		2 to 4 qts. per acre	
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)			
Flea beetles, Grasshoppers, Spider mites		1 pt. per acre	
TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.			
Sap beetles		2 to 2.5 pts. per acre	
TIMING/SPECIAL DIRECTIONS: Consult local agricultural authorities for proper timing of sprays. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season.			
Seedcorn maggots	2 to 4 qts. per acre		
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 2 inches of soil.			
Wireworms	3 to 4 qts. per acre		
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.			
Note: 1) To protect bees, do not apply foliarly to Corn during the pollen-shed period. 2) Allow 7 days after the last application before grazing or cutting for forage. Forage may be fed to beef and dairy cattle and sheep. 3) Corn may be picked 7 days after the last application.			
Tomatoes	Aphids, Dipterous leafminers	0.5 pt. per acre	
	TIMING/SPECIAL DIRECTIONS: Apply as insects appear. Repeat application, as necessary, every 7 days. 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.		
	Banded cucumber beetles, Beet armyworms, Fall armyworms, Southern armyworms	0.75 to 1 pt. per acre	
	TIMING/SPECIAL DIRECTIONS: Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 1 day of harvest or illegal residues may occur.		
	Cutworms	2 to 4 qts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)		
	Mole crickets	1 qt. per acre	
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.		
Vinegar flies (<i>Drosophila spp.</i>)	0.5 to 1.5 pts. per acre		
TIMING/SPECIAL DIRECTIONS: Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 1 day of harvest or illegal residues may occur.			
Wireworms	3 to 4 qts. per acre		
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.			

FIELD CROPS (REI = 24 HOURS)

Soil and foliar application 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 Interval (PHI)* For Foliar Applications	
Crops	PHI* (Days)
Hops	14
Sugar beets	14

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

Crops	Pests	Rate
Hops	Aphids, Spider mites	1 qt. per acre
	TIMING/SPECIAL DIRECTIONS: Apply as pests occur. Repeat application, as necessary, every 14 days. Do not make more than 4 applications per season. Do not apply within 14 days of harvest.	
Sugar beets	Aphids, Beet leafhoppers, Dipterous leafminers	0.75 to 1 pt. per acre
	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 14 days of harvest. Note: This product will not control organophosphate-resistant Leafminers.	
	Grasshoppers	1 pt. per acre
	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 14 days of harvest.	
	Wireworms	3 to 4 qts. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting. Incorporate 4 to 6 inches into the soil. Do not apply more than 4 qts. of this product to the soil per season.		

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

INSECT CONTROL ON ORNAMENTALS GROWN OUTDOORS IN NURSERIES (REI = 12 Hours)

To control certain insects on Arborvitae, 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, Pansy, Petunia, Pine, Ornamental plum, Poplar, Rhododendron, Rose, Scotch pine, Spirea, Spruce, Sycamore, Wax plant (Hoya), Willow, Yellowwood and Yew, apply the recommended rates indicated below. Spray when listed pests first appear. Try to spray underside of leaves and penetrate dense foliage. Repeat as necessary.

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

Insects	Amount of This Product To Use	
	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 spider 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 fl. oz.* (1 Tbsp.)	1 pt.** (16 fl. oz.)
Apple-and-thorn skeletonizers, Coneaster webworms, European pine sawfly, Fall webworms, Hemlock cherms, Oak loopers, Obliquebanded leafrollers, Pearslugs, Tent caterpillars	1.5 fl. oz.* (3 Tbsps.)	3 pts.** (48 fl. oz.)

*1 fl. oz. = 2 tablespoons
**16 fl. oz. = 1 pint

MIMOSA WEBWORMS: Mix 0.5 fluid ounce in 3 gallons of water (or 1 pint in 100 gallons 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 the concentrate, spray mixture, or rinse water into sanitary drains (for example, toilets, floor drains, and sinks) or into storm water sewers (for example, street drains). If pesticide, spray mixture or rinsate cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

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 foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.