

19713-91

2-10-2000

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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

FEB 10 2000

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 19713-91**Drexel****Diazinon**

Insecticide

For control of certain insects on fruits, nuts, vegetables, field crops, lawns and ornamentals. This product must not be used on golf courses and sod farms.

ACTIVE INGREDIENT:

Diazinon: [O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate] 48.2%

OTHER INGREDIENTS*: 51.8%**TOTAL:** 100.0%

*Contains xylene range aromatic solvent.

EPA Reg. No. 19713-91

EPA Est. No. 19713-GA-1

Net Contents: _____

KEEP OUT OF REACH OF CHILDREN**CAUTION**See **FIRST AID** Below**SHAKE WELL BEFORE USING****FIRST AID****IF SWALLOWED:** Call a physician or Poison Control Center immediately. **DO NOT INDUCE VOMITING.** Vomiting may cause aspiration pneumonia. Do not give anything by mouth if person is unconscious or convulsing.**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.**IF ON SKIN:** Wash promptly with soap and water. Rinse thoroughly. Get medical attention.**IF IN EYES:** Rinse eyes with plenty of water. Call a physician if irritation persists.**NOTE TO PHYSICIAN:** This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine. This product contains a xylene range aromatic solvent which may present an aspiration hazard. Gastric lavage may be indicated if product was taken internally.

Diazinon is an organophosphate insecticide/miticide.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye injury. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Avoid contamination of food and feed. Food utensils such as table spoons and measuring cups should not be used for food purposes after use in measuring pesticides. Keep out of reach of domestic animals. Do not use on humans, household pets or livestock. Do not contaminate ornamental fish ponds.

(Continued)

(Continued)**PERSONAL PROTECTIVE EQUIPMENT (PPE)****WPS USES:** Applicators and other handlers who handle this pesticide for any uses covered by the Worker Protection Standard (40 CFR Part 170)—in general, agricultural plant uses are covered—must wear: Long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate, butyl rubber (greater than or equal to 14 mils), nitrile rubber (greater than or equal to 14 mils), or viton (greater than or equal to 14 mils), shoes plus socks and protective eyewear.**NON-WPS USES:** Applicators and other handlers who handle this pesticide for any uses NOT covered by the Worker Protection Standard (40 CFR Part 170)—in general, agricultural plant uses are covered—must wear: Long-sleeved shirt and long pants, water-proof gloves, shoes plus socks and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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. 3) 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. Because of the migratory habits of Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, NY between November and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Avoid overlapping of sprays. On lawns, if waterfowl (ducks or geese) can be expected in the treated area after treatment (except spot treatment), apply at least 1/4 inch of water immediately after spraying this product, however, stop watering before puddling occurs. 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 crabs 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 wash waters. This product is highly toxic to bees exposed to direct treatment or residue on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

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

Manufactured By:

Drexel Chemical Company

P.O. BOX 13327, MEMPHIS, TN 38113-0327

SINCE 1922

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GENERAL INFORMATION

DIAZINON 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 on food crops grown in greenhouses. Do not use in barns or dwellings. Do not use on livestock. In 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. To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, since crop or plant injury may result.

WORK SAFETY RULES

Repeated exposures to cholinesterase inhibitors such as are contained in this product may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. When handling this product, do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See "Practical Treatment" section of this label. When handling this product, wear the personal protective equipment listed in the following section.

DIRECTIONS FOR USE

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

AGRICULTURAL USE REQUIREMENTS

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

EXCEPTION: If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: Coveralls, chemical-resistant gloves such as barrier laminate, butyl rubber (greater than or equal to 14 mils), nitrile rubber (greater than or equal to 14 mils) or viton (greater than or equal to 14 mils) and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Do not permit children or pets to go onto treated areas until spray has dried.

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.

CHEMIGATION

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

This product may be applied alone or in combination with other pesticides registered for application through sprinkler irrigation systems to Cranberries. To insure compatibility, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is compatible. Do not apply this product through any type of irrigation system to other crops. For chemigation, apply this product to Cranberries only through sprinkler irrigation systems. Do not apply this product to Cranberries through any other type of irrigation system. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

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

Chemigation System Connected to Public Water Systems

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

Operating Instructions

1. Determine the acreage to be treated by the sprinkler system.
2. Measure the appropriate amount of this product needed to treat the acreage to be treated. Refer to the specific directions for use for Cranberries for the application rate and the amount of water per acre.
3. Add the pre-measured 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 chemigation application to cranberries.
4. Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.
5. Engage the chemigation injection or venturi system to add the 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 furthest from the chemigation injection point.

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.

Crop	Aerial Min. Gals. / Acre	Ground Application Min. Gals. / Acre	
		Dilute	Concentrate
Almonds*	20	100	20
Apricots	20	100	20
Blackberries**	20	100	20
Boysenberries**	20	100	20
Cheries	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)	Crops	PHI* (Days)
Almonds	Dormant spray only.	Loganberries	7
Apricots	21	Nectarines	21
Blackberries	7	Peaches	21
Boysenberries	7	Plums, Prunes	21
Cheries	21	Raspberries	7
Cranberries	7	Strawberries	5
Dewberries	7	Walnuts	45
Grapes	28		

*PHI is the number of days to wait between the last application and harvest; may vary based on use pattern selected. See specific "Directions For Use" for Grapes.
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	Pest	Rate	Timing / Special Directions
Almonds, (CA only)	Pariatoria scale, San Jose scale	1½ pts. + 2 to 3 gals. dormant oil or 1½ gals. superior type oil in 100 gals. of water	Apply as a dormant spray. Do not apply more than 6 pts. of this product or 9 gals. of oil per acre.
	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.		
Apricots	Aphids, Brown mite, (Clover mite), Olive scale crawler, San Jose scale crawler, Two-spotted spider mite	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Apricot mealybug	1 pt. per 100 gals. of water	Apply as a cover spray from petal fall to June. Allow 14 days between application.
	Olive scale crawler	¼ pt. + 1½ gals. of light medium horticultural oil per 100 gals. of water	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.			

Crops	Pest	Rate	Timing / Special Directions
Caneberries (blackberries, boysenberries, dewberries, loganberries, raspberries) CA, OR and WA only	Aphids, Leafhoppers, Raspberry fruitworm, Raspberry sawfly, Thrips, Two-spotted spider mite	1 qt. per acre	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 mite	1 to 2 qts. per acre	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 gallons of water per acre.
	Raspberry crown borer, (Raspberry root borer)	2 qts. per acre	Apply a single application in a minimum of 100 gallons 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.			
Cheries	Black cherry aphid	1 pt. in 100 gals. of water	Apply as a cover spray when aphids appear. Repeat application after 10 days if necessary.
	Cherry fruitfly	½ to 1 pt. in 100 gals. of water	Make 3 to 4 applications beginning when adult flies begin to emerge and repeating at 10 day intervals.
	Cherry rust mite	½ to 1 pt. in 100 gals. of water	Apply to trees as a single supplemental spray after harvest.
	Eyespotted bud moth, Fruit tree leafroller	1 pt. in 100 gals. of water	Apply in cover sprays as infestation occurs beginning at petal fall. Repeat application after 7 days if necessary.
	Leafhoppers	1 pt. in 100 gals. of water	Make 3 to 4 applications beginning at petal fall and continuing through the growing season as infestations occur. Allow 7 days between applications.
San Jose scale crawler	San Jose scale crawler	1 pt. in 100 gals. of water	Apply during 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 fireworm (Rhopobota naevana)	2 qts. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water per acre for chermigation	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.
(Continued)			

Crop	Pest	Rate	Timing / Special Directions
(Continued) Cranberries	Cranberry fruitworm, Cranberry tipworm	2 to 3 qts. in a minimum of 15 gals. of water per acre for ground application and up to 400 gals. of water for chemigation	Cranberry growth stage and/or berry inspection for eggs may be used to optimize treatment timing; consult your Local Extension Agent or Pest Management Adviser. 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 is permitted for the 2 qt. rate.
	NOTE: 1) Do not apply more than 12 qts. of product per acre per season. 2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest. 3) This product may be applied to Cranberries through sprinkler irrigation. Refer to the "Chemigation" section for specific chemigation directions for use. 4) 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.		
Grapes	Aphids, Grape berry moth, Grape leafhopper, Leafhoppers, Omnivorous leafroller, Pacific spider mite, Spider mite	1 to 2 pts. per acre in a minimum of 100 gals. of water	Apply as pest occurs as a thorough cover spray. Repeat application after 7 days if necessary.
	Vinegar fly, (<i>Drosophila</i> spp.)	6 fl. oz. per acre in a minimum of 100 gals. of water (300 gals. of water maximum)	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.			
Nectaries	Aphids, Brown mite, (Clover mite), Olive scale crawler, Peach twig borer, San Jose scale crawler, Two-spotted spider mite	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.
	Oriental fruit moth	1 pt. in 100 gals. of water	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 mite, (Clover mite), Olive scale crawler, San Jose scale crawler, Two-spotted spider mite	1 pt. in 100 gals. of water	Apply as infestations occur. Repeat application after 14 days if necessary.
(Continued)			

Crop	Pest	Rate	Timing / Special Direction
(Continued) Peaches	Leafhoppers	1 pt. in 100 gals. of water	Make 3 to 4 applications beginning at petal fall and continuing through the growing season. Allow at least 7 days between applications.
	Oriental fruit moth	1 pt. in 100 gals. of water	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 borer	1 pt. in 100 gals. of water	Apply as insects occur in May and June. Allow 7 days between applications.
	White peach scale	1½ to 2 pts. in 100 gals. of water	Apply post-harvest timed to coincide with peak crawler and immature scale activity. Under conditions of heavy infestation, 2 applications (7 days apart) may be needed. 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 mite, (Clover mite), European red mite	1 pt. in 100 gals. of water	Apply as needed every 7 days.
	Leafy plum aphid, Mealy plum aphid, Thistle aphid	½ to 1 pt. in 100 gals. of water	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.			
Strawberries	Aphids, Two-spotted spider mite	1 pt. in 100 gals. of water per acre	Apply as pests occur. Repeat application if necessary every 7 days, but do not make more than 3 applications per season.
	Cyclamen mite	1 qt. in 100 gals. of water per acre	Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of the foliage. Repeat application after 7 days if necessary. Do not make more than 3 foliar applications per season.
	Mole crickets	1 qt. per acre	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 leafroller	¾ to 1 pt. in 100 gals. of water	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.			

Crop	Pest	Rate	Timing / Special Directions
Walnuts (CA only)	Aphids, Spider mites	1 qt. per acre	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 crawler, Walnut caterpillar	3 qts. per acre	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 3 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 product to be used appears under the separate directions for use for each crop.

Crop	Ground Application		Aerial Application
	Minimum Gals. / Acre	or Minimum Gals. / 1,000 Sq. Ft.	Minimum Gals. / Acre
Beans (lima, pole, and snap): succulent only	10	2	5
Beets (red table)	10	2	5
Broccoli	10	2	5
Brussels sprouts	10	2	5
Cabbage	10	2	5
Cantaloupes	5	1	5
Carrots	10	2	5
Casabas	5	1	5
Cauliflower	10	2	5
Chinese broccoli	10	2	5
Chinese cabbage	10	2	5
Chinese mustard	10	2	5
Chinese radish (CA, FL only)	10	2	5
Collards	10	2	5
Crenshaws	5	1	5
Cucumbers	5	1	5
Endive (escarole)	10	2	5
Ginseng	10	2	5
Honeydew melons	5	1	5
Kale	10	2	5
Lettuce (head)	10	2	5
Lettuce (leaf)	10	2	5
Muskmelons	5	1	5
Mustard	10	2	5
Onion (bulb and green)	10	2	5
Parsley	10	2	5
Parsnips	10	2	5
Peas (succulent only)	10	2	5
Peppers	10	2	5
Persian melons	5	1	5
Potatoes (Irish)*	10	2	5
Radishes	10	2	5
Spinach	10	2	5

(Continued)

Crop	Ground Application		Aerial Application
	Minimum Gals. / Acre	or Minimum Gals. / 1,000 Sq. Ft.	Minimum Gals. / Acre
Squash (Summer)	5	1	5
Squash (Winter)	5	1	5
Sweet corn	20	4	5
Sweet potatoes	10	2	5
Swiss chard	10	2	5
Tomatoes	10	2	5
Turnips	10	2	5
Watermelons	5	1	5

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

Pre-Harvest Intervals (PHI*) for Foliar Applications

Crop	PHI* (Days)	Crop	PHI* (Days)
Beans (lima, pole and snap)	7	Kale	10
Beets (red table)	14	Lettuce	14
Broccoli	7	Muskmelons	3
Brussels sprouts	7	Mustard	10
Cabbage	21	Onions (bulb and green)	14
Cantaloupes	3	Parsnips	14
Carrots	14	Peas	7
Casabas	3	Peppers	5
Cauliflower	7	Persian melons	3
Chinese broccoli	10	Potatoes (Irish)	35
Chinese cabbage	10	Radishes	14
Chinese mustard	10	Spinach	14
Chinese radish	10	Squash (Summer)	7
Collards	10	Squash (Winter)	3
Crenshaws	3	Sweet corn	7
Cucumbers	7	Swiss chard	14
Endive (escarole)	14	Tomatoes	1
Ginseng	30	Turnips (roots and tops)	14
Honeydew melons	3	Watermelons	3

*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 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 Peas or Beans if these crops or weeds in the treatment area are in bloom, or to Corn during the pollen shed period.

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Crop	Pest	Rate	Timing / Special Directions
Beans (lima, pole, snap); succulent only	Black bean aphid, Mexican bean beetle, Dipterous leafminer	1 1/2 pts. per acre	Apply as insects occur. Repeat application as necessary, every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. NOTE: 1) This product will not control organophosphate-resistant Leafminers. 2) To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.
	Cucumber beetles	3/4 pt. per acre	Apply as insects occur. Repeat application as necessary, every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.
	Cutworms	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Beans (lima); succulent only	Leafhoppers, Spider mites	1 pt. per acre	Apply as pests occur. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. Bean forage or bean hay may be fed to dairy and beef cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay. NOTE: To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.
Beets (red table)	Cutworms	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Dipterous leafminers	1/2 to 1 pt. per acre	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 cricket	1 qt. per acre	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	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Broccoli	Aphids, Diamondback moth, Imported cabbageworm, Dipterous leafminer	1/2 to 1 pt. per acre	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.

(Continued)

Crop	Pest	Rate	Timing / Special Directions
(Continued) Broccoli	Aphids, Diamondback moth, Imported cabbageworm, Dipterous leafminer	1/2 to 1 pt. per acre	NOTE: This product will not control organophosphate-resistant Leafminers.
	Cutworms	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole cricket	1 qt. per acre	One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.
	Root maggot	2 to 3 qts. per acre	Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.
		4 to 8 fl. oz. per 50 gals. of water	In transplant water as a drench application when 200 to 300 gals. of water are used per acre. Apply 1/2 to 1 cup (4 to 8 oz.) per plant by hand or by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
Brussels sprouts	Aphids, Diamondback moth, Imported cabbageworm, Dipterous leafminer	1/2 to 1 pt. per acre	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	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole cricket	1 qt. per acre	One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.
	Root maggot	2 to 3 qts. per acre	Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.
	4 to 8 fl. oz. in 50 gals. of water	In transplant water as a drench application when 200 to 300 gals. of water are used per acre. Apply 1/2 to 1 cup (4 to 8 oz.) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.	
Cabbage	Aphids, Diamondback moth, Imported cabbageworm, Dipterous leafminer	1/2 to 1 pt. per acre	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.
Carrots	Aphids	1 pt. per acre	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.

(Continued)

Crop	Pest	Rate	Timing / Special Directions
(Continued) Carrots	Cutworms	2 to 4 pts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole cricket	1 qt. per acre	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	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Cauliflower	Aphids, Diamondback moth, Dipterous leafminer, Imported cabbageworm	½ to 1 pt. per acre	Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between application. 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	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole cricket	1 qt. per acre	One to two days before planting, broadcast and immediately incorporate into the top 3 to 4 inches of soil.
	Root maggot	2 to 3 qts. per acre	Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.
		4 to 8 oz. in 50 gals. of water	In transplant water as a drench application when 200 to 300 gals. of water are used per acre. Apply ½ to 1 cup (4 to 8 oz.) per plant by hand or by tractor-mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. NOTE: Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.
Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
Chinese broccoli	Aphids, Diamondback moth, Dipterous Leafminer, Imported cabbageworm	½ to 1 pt. per acre	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 moth, Dipterous leafminer, Imported cabbageworm	½ to 1 pt. per acre	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 moth, Dipterous leafminer, Imported cabbageworm	½ to 1 pt. per acre	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.

Crop	Pest	Rate	Timing / Special Directions
Chinese radish (Japanese radish or daikon) (FL and CA only)	Aphids, Diamondback moth, Dipterous leafminer, Imported cabbageworm	1 pt. per acre	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 14 days of harvest or illegal residues may occur. NOTE: This product will not control organophosphate-resistant Leafminers.
Collards	Aphids, Corn earworm, Diamondback moth, Harlequin bug, Imported cabbageworm	½ to 1 pt. per acre	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	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole cricket	1 qt. per acre	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	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Cucumbers	Aphids, Melonworm, Serpentine leafminer, Striped cucumber beetle, Thrips	1 pt. per acre	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	Broadcast just before planting and immediately incorporate into soil. (See Soil Incorporation Note.)
	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
	Endive (escarole)	Aphids, Dipterous leafminer	½ to 1 pt. per acre
Endive (escarole)	Cutworms	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole cricket	1 qt. per acre	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	Broadcast before planting and immediately incorporate into the top 4 to 8 inches of soil.
Ginseng	Aphids, Flea beetles, Jumping plant lice, Leafhoppers, Lygus bugs	½ to 1 pt. per acre	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 three or four year old crops. Do not apply within 30 days of harvest. Do not graze treated areas or feed treated forage to livestock.

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Crop	Pest	Rate	Timing / Special Directions
Kale	Aphid, Corn earworm, Diamondback moth, Harlequin bug, Imported cabbageworm,	½ to 1 pt. per acre	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	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole cricket	1 qt. per acre	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	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Lettuce	Aphids, Dipterous leafminer	½ to 1 pt. per acre	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	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole cricket	1 qt. per acre	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	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Melons (cantaloupe, Casabas, crenshaws, honeydews, muskmelons, persians and hybrids of these) and Watermelons	Aphids, Dipterous leafminers, Leafhoppers, Melonworm, Spider mites, Striped cucumber beetle, Thrips	½ to 1½ pts. per acre	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	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Mustard	Aphids, Diamondback moth, Dipterous leafminer, Imported cabbageworm	½ to 1 pt. per acre	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 residue may occur. NOTE: This product will not control organophosphate-resistant Leafminers.
	Cutworms	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole cricket	1 qt. per acre	One to two days before planting, broadcast and incorporate into the top 1 to 2 inches of soil.
	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.

Crop	Pest	Rate	Timing / Special Directions
Onion (bulb and green)	Onion maggots	2 to 4 qts. per acre	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	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	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Parsley	Cutworms	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Parsnip	Aphids, Flea Beetles, Dipterous leafminers	½ to 1 pt. per acre	Apply as insects appear. 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.
Peas (succulent only)	Aphids, Dipterous leafminers	¼ to 1 pt. per acre	Apply as insects appear. Repeat application, as necessary, every 5 days. Do not make more than 3 applications per season. To avoid illegal residues, allow a minimum of 7 days between the last application and harvest. Vines and hay may be fed to dairy and beef cattle and sheep. To avoid illegal residues, wait 7 days following treatment if forage is to be cut for hay. NOTE: 1) This product will not control organophosphate-resistant Leafminers. 2) To protect bees, do not apply foliarly if the crop or weeds in the treatment area are in bloom.
Peppers	Cutworms	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
	Aphids, Serpentine leafminer	½ to 1 pt. per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 5 days of harvest, or illegal residues may occur. NOTE: This product will not control organophosphate-resistant Leafminers.
Continued	Cutworms	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)

(Continued) Peppers	Mole cricket	1 qt. per acre	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	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Potatoes	Aphids, Colorado potato beetle, Dipterous leafminer, Flea beetles	½ to ¾ pt. per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 35 days of harvest, or illegal residues may occur. NOTE: This product will not control organophosphate-resistant Leafminers.
	Banded cucumber beetles, Leafhoppers, Southern armyworm	¾ to 1 pt. per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within 35 days of harvest, or illegal residues may occur.
	Cutworms (surface and subterranean)	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Southern potato wireworm (Southeastern U.S.)	2 to 4 qts. per acre	For Potatoes grown on mineral soils in the Southeast, apply before planting and immediately incorporate into the top 3 to 6 inches of soil depending on location of Wireworms.
	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
	NOTE: Do not use on commercially grown Potatoes which will be hand-harvested.		
Radishes	Aphids, Dipterous leafminer, Flea beetles	½ to 1 pt. per acre	Apply as insects 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. NOTE: This product will not control organophosphate-resistant Leafminers.
	Cutworms	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole cricket	1 qt. per acre	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	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Spinach	Aphids, Dipterous leafminer	½ to 1 pt. per acre	Apply as insects appear. 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	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole cricket	1 qt. per acre	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	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.

Crop	Pest	Rate	Timing / Special Directions
Squash, (Summer)	Aphids, Leafhoppers, Melonworm, Serpentine leafminer, Spider mites, Striped cucumber beetle, Thrips	¼ to 1½ pts. per acre	Apply as insects appear. 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	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Squash, (Winter)	Aphids, Leafhoppers, Melonworm, Serpentine leafminer, Spider mites, Striped cucumber beetle, Thrips	¼ to 1½ pts. per acre	Apply as insects appear. 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 residue may occur. NOTE: This product will not control organophosphate-resistant Leafminers.
	Cutworms	2 to 4 qts. per acre	Broadcast before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Sweet corn	Corn earworm	1 to 1½ qts. per acre	Apply when silks first appear. Repeat application every 7 days if necessary. Do not make more than 5 applications per season.
	Corn leaf aphid	1 to 2 pts. per acre	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 rootworm (adult)	½ to 1 pt. per acre	Apply as insects first appear. Repeat application as necessary every 7 days. Do not make more than 5 applications per season.
	Cutworms	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Flea beetles, Grasshoppers, Spider mites	1 pt. per acre	Apply as insects appear. Repeat application as necessary, every 7 days. Do not make more than 5 applications per season.
	Sap beetles	2 to 2½ pts. per acre	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.
(Continued)			

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Crop	Pest	Rate	Timing / Special Directions
(Continued) Sweet corn	Seedcorn maggot	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 2 inches of soil.
	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
NOTE: 1) Do not apply foliarly to Corn during the pollen shed period. 2) Allow 7 days after the last application before grazing or curing for forage. Forage may be fed to beef and dairy cattle and sheep. 3) Corn may be picked 7 days after the last application.			
Sweet potatoes	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Swiss chard	Aphids, Diamondback moth, Harlequin bug, Imported cabbageworm	¼ to 1 pt. per acre	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	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
Tomatoes	Aphids, Dipterous leafminer	½ pt. per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within one day of harvest, or illegal residues may occur. NOTE: This product will not control organophosphate-resistant Leafminers.
	Banded cucumber beetle, Beet armyworm, Fall armyworm, Southern armyworm	¾ to 1 pt. per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within one day of harvest, or illegal residues may occur.
	Outworms	2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
	Mole cricket	1 qt. per acre	One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.
	Vinegar fly (<i>Drosophila</i> spp.)	½ to 1½ pts. per acre	Apply as insects appear. Repeat application, as necessary, every 7 days. Do not make more than 5 applications per season. Do not apply within one day of harvest or illegal residues may occur.
	Wireworms	3 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.
	Turnips (roots and tops)	Aphids, Dipterous leafminer, Flea beetles	½ to 1 pt. per acre
Outworms		2 to 4 qts. per acre	Broadcast just before planting and immediately incorporate into the soil. (See Soil Incorporation Note.)
Mole cricket		1 qt. per acre	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	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 application, 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

Crop	PHI*
Hops	14
Sugar beets	14

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

Crop	Pest	Rate	Timing / Special Directions
Hops	Aphids, Spider mites	1 qt. per acre	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	¼ to 1 pt. per acre	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	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	Broadcast just before planting. Incorporate into the soil 4 to 6 inches. 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.			

GRASSLAND INSECTS

Ditch Banks, Roadsides, Wasteland, Non-crop Areas, Barrier Strips

GRASSHOPPERS: Spray ¼ to 1 pint per acre in water (minimum of 1 gallon of water per acre) for aerial applications or a minimum of 5 gallons of water per acre for ground applications or in oil (a minimum of 1 gallon of oil per acre) when insects first appear, preferably in the nymphal stage. Thorough coverage of the foliage is essential. Do not graze or use treated grass for forage or feed.

Insect Control on Ornamentals (REI = 12 Hours)

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

Insects	Amount Of This Product To Use	
	Rate Per 3 Gals. Water	Rate Per 10G Gals. Water
Aphids, Bagworm, Carnation bud mite, Carnation shoot mite, Clover mite, Cyclamen mite, Dipterous leafminer, European pine shoot moth, European red mite, Flea beetles, Holly bud moths, Juniper webworm, Leafhoppers, Obscure root weevil, Omnivorous leaflier, Privet mite, Scale crawlers (cottony cushion, lecanium, pine needle, San Jose, soft), Thrips, Two-spotted spider mites, Whiteflies	½ fl. oz.* (1 Tbsp.)	1 pt.** (16 fl. oz.)
Apple-and-thorn skeletonizers, Cottoncaterpillar, Fall webworm, Hemlock chermes, Oak loopers, Obliquebanded leafroller, Pearslug, Tent caterpillar	1½ fl. oz.* (3 Tbsp.)	3 pts.** (48 fl. oz.)

PRECAUTION: Do not use on Ferns, Poinsettia, Hibiscus, Papaya, Pilea and Gardenia, since injury to the plants may occur.
* 1 fl. oz. = 2 tablespoons
** 16 fl. oz. = 1 pint

MIMOSA WEBWORMS: Mix ½ 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.

Lawn Pest control (Excluding Golf Courses and Sod Farms)

PRECAUTIONS: Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Apply this product only as specified on this label. Because of the migratory habits of certain waterfowl, do not apply in Nassau County, NY between November 1 and May 20. Do not exceed maximum permitted label rates, since rates above those recommended significantly increase potential hazards to birds, especially waterfowl. Avoid overlapping sprays. If waterfowl (ducks or geese) can be expected to enter the treated areas after treatment (except spot treatments), water lawn with at least ¼ inch of water immediately after application; however, stop watering before puddling occurs.

Pest	Rate / 1,000 sq. ft.		Remarks
	This Product	Water	
Ants, Armyworms, Bermudagrass mite, Clover mite, Crickets, Cutworms, Digger wasps, Earwigs, Frit flies, Lawn billbug, Leafhoppers, Sod webworm (Lawn moth), Sowbugs (Pillbug), Springtails (Collembola)	2 to 3 fl. oz.	3 gals.	Spot spray Ant hills and Wasp ground nest openings. For Digger wasps, apply at dusk when wasps are not active. For Frit flies, mow grass and water well before treatment, but delay application until grass is dry. For Billbug control, apply when activity is first observed or when chewed or brown grass is present, indicating damage from this insect.
Brown dog ticks, Chiggers, Fleas	3 fl. oz.	3 gals.	NOTE: Do not apply to animals. For Brown dog ticks, spray grass and under shrubbery, particularly near house.
Hyperodes weevil	3 fl. oz.	3 gals.	Treat problem areas in mid-April and again in mid-May.
Lawn chinch bug	2 to 3 fl. oz.	3 gals.	Use higher rate for longer residual control and in lawns of dense growth such as St. Augustine lawns.
Millipedes	3 fl. oz.	3 gals.	
Rhodesgrass scale	3 fl. oz.	3 gals.	Apply when Crawlers first emerge.
White grubs (such as: Japanese beetle larvae, European chafer, Southern chafer)	3 fl. oz.	3 gals.	Apply any time between late July and early October.

Nuisance Pests in Outside Areas

Ants, Boxelder bugs, Brown dog ticks, Chiggers, Clover mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Sowbugs (Pillbugs), Spiders, Springtails (Collembola). Mix 3 fluid ounces in 3 gallons of water and thoroughly spray window and door screens, sills, foundations, porch and patio walls, entranceways, walks, garbage cans, tree trunks and into cracks and other places where insects can hide. To prevent entry into houses, spray a five-foot band of soil around the house next to the foundation and spray the foundation of the house to a height of 2 to 3 feet. Repeat application if necessary. Do not apply to animals. Do not treat plants (other than tree trunks) at this nuisance pest rate.

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. 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 incinerate, or burn, if allowed by State and Local authorities. 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 day or night.

WARRANTY—CONDITION 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.