



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 14, 2015

Ms. Luz G. Chan  
Registration Manager  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

Subject: Label Amendment – Revising First Aid Statement and Adding a Note in the  
Ornamental Section Regarding Sensitive Plants  
Product Name: Drexel Diazinon Insecticide  
EPA Registration Number: 19713-91  
Application Date: May 13, 2015  
Decision Number: 504970

Dear Ms. Chan:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact Eric Bohnenblust by phone at (703) 347-0426, or via email at [bohenblust.eric@epa.gov](mailto:bohenblust.eric@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'M. Walsh', written in a cursive style.

Michael Walsh  
Product Manager 11  
Invertebrate & Vertebrate Branch 2  
Registration Division (7505P)

Enclosure

**RESTRICTED USE PESTICIDE**  
**(Due to Avian and Aquatic Toxicity)**

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



*Diazinon*  
Insecticide

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

**ACTIVE INGREDIENT:**

Diazinon..... 48.2%

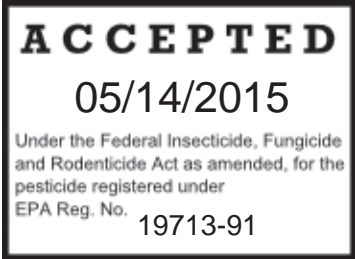
**OTHER INGREDIENTS\*:**..... 51.8%

**TOTAL:** ..... 100.0%

\* Contains xylene range aromatic solvent.

This product contains 4 pounds of diazinon per gallon.

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**  
See **FIRST AID** Below



EPA Reg. No. 19713-91  
EPA Est. No. 19713-XX-X

Net Content: \_\_\_\_\_

<b>FIRST AID</b>
<p><b>IF SWALLOWED:</b></p> <ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p><b>IF IN EYES:</b></p> <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>IF ON SKIN OR CLOTHING:</b></p> <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, call your poison control center at 800-222-1222 or CHEMTREC at 800-424-9300.</p>
<p><b>NOTE TO PHYSICIAN:</b> 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. Contains petroleum distillates (xylene range aromatic solvent). May pose an aspiration pneumonia hazard.</p>

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if swallowed, or absorbed through skin. Causes moderate eye irritation. 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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Mixers, loaders, applicators, and other handlers using engineering controls 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 if mixing or loading, chemical-resistant apron if mixing or loading, and shoes plus socks. See "ENGINEERING CONTROLS" for additional requirements.

**Handlers performing tasks, such as cleaning equipment or spill clean-up, for which engineering controls are not feasible must wear:** Coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, chemical-resistant footwear plus socks, chemical-resistant apron if exposed to the concentrate, and a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with an R or P or HE prefilter.

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

## ENGINEERING CONTROLS

Mixers and loaders must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for Agricultural Pesticides that provides dermal and inhalation protection [40 CFR 170.240(d)(4)], and must:

- 1) Wear the PPE required for mixers/loaders using engineering controls.
- 2) Wear protective eyewear, if the system operates under pressure.
- 3) Be provided and must have immediately available for use in an emergency, such as a broken package, spill or equipment breakdown, chemical-resistant footwear and the respirator specified for handlers not using engineering controls.

Applicators using motorized ground equipment and flaggers supporting aerial applications to Lettuce must use an enclosed cab that meets the definition in the WPS for Agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, applicators must:

- 1) Wear the PPE required in the PPE section of this labeling for handlers using engineering controls.
- 2) Either wear the respirator specified for handlers not using engineering controls or use an enclosed cab that is declared in writing by the manufacturer or by a government agency to provide at least as much respiratory protection as the respirator specified for handlers not using engineering controls.
- 3) Be provided, and have immediately available for use in an emergency when they must exit the cab in the treated area, coveralls, chemical-resistant footwear and - if not already using one - the respirator specified for handlers not using engineering controls.
- 4) Take off any PPE that was worn in the treated area before reentering the cab.
- 5) Store all such PPE in a chemical-resistant container such as a plastic bag to prevent contamination of the inside of the cab.

**EXCEPTION:** For applications to Apples and Lettuce, see directions for use for a special exception to these engineering controls requirements.

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)]. When entering or leaving an aircraft contaminated with pesticide residues, pilots must wear chemical-resistant gloves and must store used gloves in a chemical-resistant container such as a plastic bag to prevent contamination of the inside of the cockpit.

**Note:** Aerial applications are permitted only on Lettuce.

## USER SAFETY RECOMMENDATIONS

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

## ENVIRONMENTAL HAZARDS

This product is highly toxic to 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 specified 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 specified on this label. Do not apply where fish, shrimp, crab and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment wash water.

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.

## PHYSICAL OR CHEMICAL HAZARDS

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

## PRODUCT 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 the "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 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.

## 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** — Do not mix this product with any formulation of Captan or Captec® because crop injury may occur. This product is compatible with most insecticide and fungicide products; however, physical compatibility with tank-mix partners should be tested before use. Using a quart jar, add the proportionate amounts of each product to 1 quart of water. Add wettable powders and water-dispersible granular products first, then liquid flowables and emulsifiable concentrates last. After thoroughly mixing, let it 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. **REFORMULATION OR REPACKAGING OF THIS PRODUCT IS PROHIBITED.** To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, since crop or plant injury may result. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### LABEL RESTRICTIONS FOR USE IN CALIFORNIA

For protection of aquatic species in counties and portions of counties located in the Sacramento and San Joaquin Valleys below 1000 feet elevation from potential contamination in surface water of Diazinon applied during the dormant spray period, the following additional label requirements apply:

- Dormant applications on orchard crops are restricted to ground application equipment only.
- Do not apply within 100 feet upslope of "sensitive aquatic sites" such as any irrigation ditch, drainage canal or body of water that may drain into a river or tributary unless a suitable method is used to contain or divert runoff waters. Waters that are contained or diverted must be held for a minimum of 72 hours before release into a sensitive aquatic site.
- Maintain a vegetative buffer strip a minimum of 10 feet wide from the edge of a field that is adjacent to and within 100 feet of sensitive aquatic sites.
- Do not apply this product to orchards when soil moisture is at field capacity, and/or when a storm event likely to produce runoff from the treated orchard is forecasted by NOAA/NWS (National Weather Service), to occur within 48 hours following application.
- Make dormant applications only when insect scouting information or the recommendation of a Pest Control Advisor indicate treatment is required. (See UC IPM Guidelines for San Jose scale in Stone fruits and Almonds and Aphids in Stone fruits. Use the prune dormant spur sampling program to determine need for a dormant treatment in that crop).
- Apply only when wind speed is 3 to 10 mph at the application site as measured by an anemometer outside of the orchard on the side nearest and upwind from a sensitive site.
- When sensitive aquatic sites are downwind from orchards, spray the first three rows nearest the sensitive aquatic sites only when the wind is blowing away from the sites. The row at the edge of the field next to sensitive aquatic sites must be sprayed with the outside nozzles turned off. Spray must not be directed higher than the tree canopy and spray must be directed away from sensitive aquatic sites.
- The Stewardship Bulletin "Orchard Practices for Protecting Surface Water", must be available to handlers and equipment operators at the application site during all application activities. (Note: Bulletin available through CURES)

### **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), notification to worker, 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.** The REI for each crop is listed in the directions for use associated with each crop. 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 worn over long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, chemical-resistant footwear plus socks, and chemical-resistant headgear, if overhead exposures.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

**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**

Aerial applications are permitted only in Lettuce.

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

### **Operating Instructions**

1. Determine the acreage to be treated by the sprinkler system.
2. Measure the appropriate amount of this product needed to treat the acreage to be treated. Refer to the specific directions for use for the application rate and the amount of water per acre.
3. 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.
4. Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly.
5. Engage the chemigation injection or venturi system to add this product to the irrigation lines.
6. Continue to run irrigation system for a few minutes after supply tank is empty to allow material in the irrigation lines to reach the sprinkler heads 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.

### **Flood (Basin) Furrow and Border Chemigation (Soil Drench Uses)**

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- a) The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- b) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- c) 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.
- d) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- e) 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.



- f) 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.

**Drip (Including Surface and Subsurface) Chemigation (Soil Drench Uses)**

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pipe 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.

**FRUIT AND NUT CROPS**

This product may be applied using ground 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 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	Ground Application	
	Minimum Gals. Per Acre	
	Dilute	Concentrate
Almonds*, Apricots, Blackberries**, Blueberries, Boysenberries**, Cherries	100	20
Cranberries	15	-
Dewberries**, Loganberries**, Nectarines, Peaches, Plums, Prunes, Raspberries**, Strawberries	100	20
* CA Only		
** CA, OR or WA Only		

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

CROP	Pre-Harvest Interval (PHI) (Days)
Almonds	Dormant spray only
Apricots, Cherries, Nectarines, Peaches, Plums, Prunes	21
Blackberries, Blueberries, Boysenberries, Cranberries, Dewberries, Loganberries, Raspberries	7
Strawberries	5

**Note:** To protect bees, do not apply this product to fruit trees when the trees or substantial numbers of weeds in the orchard are in bloom.

Fruit and Nut Crop	Pest(s)	Rate
Almonds (CA Only) (REI = 7 days)	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 to 1.5 pts. + 2 to 3 gals. dormant oil OR 1 to 1.5 gals. superior type oil per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray only. Do not apply more than 6 pints of this product or 9 gallons of oil per acre. Apply every other year unless infestations can be controlled only with consecutive annual treatments.	
<b>RESTRICTIONS:</b> 1) Make a maximum of 1 application per year during the dormant season only. 2) Do not apply more than 6 pints of this product (3 lbs. a.i.) or 9 gallons of oil per acre per year.		
Apricots (REI = 4 days)	Apple aphid eggs, Apricot scales, Black scales, Black cherry aphid eggs, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray only once per year. When using spray oils, follow the spray oil's label use directions.	
	Aphids, Brown mites (Clover mites), Olive scale crawlers, San Jose scale crawlers, Two-spotted spider mites	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when infestations occur.	
	Apricot mealybugs	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a single cover spray between petal fall to June.	
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.		
<b>RESTRICTIONS:</b> 1) A maximum of 2 applications are allowed per year – 1 dormant and 1 in-season foliar application regardless of the target pest. For in-season application, apply every other year unless pest infestations can be controlled only with consecutive annual treatments. 2) Minimum retreatment interval is 60 days between dormant application and in-season application and 120 days between dormant application and post-harvest application. 3) Do not apply more than 4 pints of this product (2 lbs. a.i.) per acre per application. 4) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year. 5) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.		
Blueberries (REI = 5 days)	Aphids, Blueberry maggots, Cherry fruitworms, Cranberry fruitworms, Thrips, Twospotted spider mites	1 pt. per acre
	TIMING/SPECIAL DIRECTIONS: Apply when infestations occur.	
	Fire ants	1 pt. per acre
TIMING/SPECIAL DIRECTIONS: To aid in control of Fire ants in Blueberry fields, slowly apply 1 gallon of diluted mixture over and 6 inches to each Fire ant mound. Apply gently to avoid disturbing Ants. Use equipment capable of delivering the diluted product as a gentle rain. High pressure sprays may disturb the Ants and cause migration reducing product effectiveness. For best results, apply in cool weather, 65°F to 85°F, or in early morning or late evening hours.		
<b>RESTRICTIONS:</b> 1) A maximum of 2 applications are allowed per year – 1 foliar and 1 for Ant control. 2) Minimum retreatment interval is 60 days. 3) Do not apply more than 2 pints of this product (1 lb. a.i.) per acre per application. 4) Do not apply more than 4 pints of this product (2 lbs. a.i.) per acre per year. 5) To avoid illegal residues, allow a minimum of 7 days between application and harvest.		
Caneberries, (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries) (CA, OR and WA Only) (REI = 5 days)	Raspberry crown borers (Raspberry root borers)	4 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Apply 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.	
	Raspberry fruitworms	2 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Apply in a minimum of 100 gallons of water (200 gals. per acre maximum). Make an application when blossom buds separate or immediately before blossoms open.	

<b>RESTRICTIONS:</b> 1) A maximum of 1 application is allowed per year regardless of the pest. 2) Do not apply more than 4 pints of this product (2 lbs. a.i.) per acre per application. 3) Do not apply more than 4 pints of this product (2 lbs. a.i.) per acre per year. 3) To avoid illegal residues, allow a minimum of 7 days between application and harvest.		
Cherries (REI = 4 days)	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray only once during the dormant season. When using spray oils, follow the spray oil's label use directions.	
	Black cherry aphids	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a cover spray when Aphids appear.	
	Cherry fruitflies	0.5 to 1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make an application beginning when adult flies begin to emerge.	
	Eyespotted bud moths, Fruittree leafrollers	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when infestations occur beginning at petal fall.	
	Leafhoppers	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make application beginning at petal fall when infestations occur.	
San Jose scale crawlers	1 pt. per 100 gals. of water	
TIMING/SPECIAL DIRECTIONS: Apply during the pre-pink stage or when crawlers first appear.		
<b>RESTRICTIONS:</b> 1) A maximum of 2 applications are allowed per year – 1 dormant and 1 in-season foliar application regardless of the target pest. For in-season application, apply every other year unless pest infestations can be controlled only with consecutive annual treatments. 2) Minimum retreatment interval is 30 days between dormant application and in-season application and 90 days between dormant application and post-harvest application. 3) Do not apply more than 4 pints of this product (2 lbs. a.i.) per acre per application. 4) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year. 5) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.		
Cranberries (REI = 5 days)	Blackheaded fireworms ( <i>Rhopobota naevana</i> )	4 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Apply at larval stage. Pheromone trap captures and sweep monitoring may be used to optimize treatment timing. Repeat application after 14 days if necessary.	
	Cranberry fruitworms	4 to 6 pts. 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.	
	Cranberry tipworms	4 pts. 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.		
This product may be applied to Cranberries via ground or sprinkler irrigation. For ground application, apply the product in a minimum of 15 gallons of water per acre. For chemigation, apply up to 400 gallons of water per acre. Refer to the "CHEMIGATION" section of this label for specific chemigation directions.		
<b>RESTRICTIONS:</b> 1) Do not make more than 3 applications per year. 2) Minimum retreatment interval is 14 days. 3) Do not apply more than 6 pints of this product (3 lbs. a.i.) per acre per application. 3) Do not apply more than 18 pints of this product (9 lbs. a.i.) per acre per year. 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 label. 5) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.		
Nectarines (REI = 4 days)	Aphids, Brown mites (Clover mites), Olive scale crawlers, Oriental fruit moth, Peach twig borer, San Jose scale crawlers, Two-spotted spider mites	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when infestations occur. Do not apply more than 4 pints of this product or 4 gallons of summer oil per acre.	
	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, San Jose scales, Twig borers	1 pt. per 100 gals of water

	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray only once during the dormant season. When using spray oils, follow the spray oil's label use directions.	
<b>RESTRICTIONS:</b> 1) A maximum of 2 applications are allowed per year – 1 dormant and 1 in-season foliar application regardless of the target pest. For in-season application, apply every other year unless pest infestations can be controlled only with consecutive annual treatments. 2) Minimum retreatment interval is 60 days between dormant application and in-season application. 3) Do not apply more than 4 pints of this product (2 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year. 4) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.		
Peaches (REI = 4 days)	Aphids, Brown mites (Clover mites), Olive scale crawlers, San Jose scale crawlers, Two-spotted spider mites	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when infestations occur.	
	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 pt. per 100 gals of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray only once during the dormant season. Do not apply more than 4 pints of this product or 6 gallons of oil per acre. When using spray oils, follow the spray oil's label use directions.	
	Leafhoppers	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Make an application, beginning at petal fall.	
	Oriental fruitmoths	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply at 100% petal fall.	
	Peach twig borers	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when infestation occurs.	
White peach scales	1.5 to 2 pts. per 100 gals. of water	
TIMING/SPECIAL DIRECTIONS: Apply at post-harvest timed to coincide with peak crawler and immature Scale activity. Do not apply before fruit is harvested.		
<b>RESTRICTIONS:</b> 1) A maximum of 2 applications are allowed per year – 1 dormant and 1 in-season foliar application regardless of the target pest. For in-season application, apply every other year unless pest infestations can be controlled only with consecutive annual treatments. 2) Minimum retreatment interval is 60 days between dormant application and in-season application and 120 days between dormant application and post-harvest application. 3) Do not apply more than 4 pints of this product (2 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year. 4) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.		
Plums, Prunes (REI = 4 days)	Apple aphid eggs, Apricot scales, Black cherry aphid eggs, Black scales, Brown mite eggs, Brown scales, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scales, San Jose scales, Twig borers	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray only once during the dormant season. When using spray oils, follow the spray oil's label use directions.	
	Brown mites, Clover mites, European red mites	1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when infestations occur.	
	Leafcurl plum aphids, Mealy plum aphids, Thistle aphids	0.5 to 1 pt. per 100 gals. of water
TIMING/SPECIAL DIRECTIONS: Apply when infestation occurs.		
<b>RESTRICTIONS:</b> 1) A maximum of 2 applications are allowed per year – 1 dormant and 1 in-season foliar application regardless of the target pest. For in-season application, apply every other year unless pest infestations can be controlled only with consecutive annual treatments. 2) Minimum retreatment interval is 60 days between dormant application and in-season application and 120 days between dormant application and post-harvest application. 3) Do not apply more than 4 pints of this product (2 lbs. a.i.) per acre per application. 4) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year. 5) To avoid illegal residues, allow a minimum of 21 days between the last application and harvest.		

Strawberries (REI = 3 days)	Aphids, Two-spotted spider mites	1 pt. per 100 gals. of water per acre
	TIMING/SPECIAL DIRECTIONS: Apply when pests occur.	
	Cyclamen mites	2 pts. per 100 gals. of water per acre
	TIMING/SPECIAL DIRECTIONS: Direct spray to the plant crown. Plants should be sufficiently agitated to assure thorough coverage of foliage.	
	Mole crickets	2 pts. 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 leafroller	0.75 to 1 pt. per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply 200 gallons of spray per acre when blossoms show color.	
<b>RESTRICTIONS:</b> 1) Do not make more than 1 foliar and 1 soil application per year. 2) Minimum retreatment interval is 30 days. 3) Do not apply more than 2 pints of this product (1 lb. a.i.) per acre per application. 4) Do not apply more than 4 pints of this product (2 lbs. a.i.) per acre per year. 5) To avoid illegal residues, allow a minimum of 5 days between the last application and harvest.		

## VEGETABLE CROPS

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

Crops	Ground Application		Aerial Application	
	Min. Gals. per Acre	OR	Min. Gals. per Acre	
Beets (Red), Broccoli, Brussels sprouts, Cabbage, Carrots, Cauliflower, Collards, Endive (Escarole), Ginseng, Kale, Mustard, Onions (Bulb, Green), Radishes, Rutabagas, Spinach, Tomatoes	10	OR	2	Do not apply by air.
Cantaloupes, Casaba melons, Crenshaw melons, Honeydew melons, Muskmelons, Persian melons, Watermelons	5		1	Do not apply by air.
Lettuce (Head, Leaf)	10		2	5

Observe stated time intervals between last application and harvest (PHI) and maximum number of applications per season. Do not apply to food crops grown in greenhouses.

**Note: 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.

Vegetable Crop	Pest(s)	Rate
Beets (Red) (REI = 3 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Note: Soil Incorporation".)	
	Mole crickets	2 pts. 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	6 to 8 pts. per acre

	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		
Broccoli (REI = 4 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See <i>"Note: Soil Incorporation"</i> .)	
	Mole crickets	2 pts. 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	4 to 8 fl. ozs. per 50 gals. of water
	TIMING/SPECIAL DIRECTIONS: In transplant water as a drench application when 200 to 300 gallons of water are used per acre, apply the specified rate by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. <b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.	
	Root maggots	4 to 6 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.	
	Wireworms	6 to 8 pts. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		
Brussels sprouts (REI = 4 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See <i>"Note: Soil Incorporation"</i> .)	
	Mole crickets	2 pts. 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	4 to 8 fl. ozs. per 50 gals. of water
	TIMING/SPECIAL DIRECTIONS: In transplant water as a drench application when 200 to 300 gallons of water are used per acre, apply the specified rate by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. <b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.	
	Root maggots	4 to 6 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.	
	Wireworms	6 to 8 pts. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		
Cabbage (REI = 4 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See <i>"Note: Soil Incorporation"</i> .)	
	Mole crickets	2 pts. 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	4 to 6 pts. 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 gallons of water are used per acre, apply specified rate by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant.	

	<b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.	
	Wireworms	6 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (8 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		
Carrots (REI = 3 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See <i>"Note: Soil Incorporation"</i> .)	
	Mole crickets	2 pts. 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	6 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		
Cauliflower (REI = 4 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See <i>"Note: Soil Incorporation"</i> .)	
	Mole crickets	2 pts. 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	4 to 8 fl. ozs. per 50 gals. of water
	TIMING/SPECIAL DIRECTIONS: In transplant water as a drench application when 200 to 300 gallons of water are used per acre, apply specified rate by tractor mounted sprayer equipped with drop nozzles to direct spray to the base of the plant. <b>Note:</b> Transplant water treatments may result in stand reduction due to plant stress at time of transplanting.	
	Root maggots	4 to 6 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 3 to 4 inches of soil.	
	Wireworms	6 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		
Collards (REI = 4 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See <i>"Note: Soil Incorporation"</i> .)	
	Mole crickets	2 pts. 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	6 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		
Endive (Escarole) (REI = 4 days)	Cutworms	2 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See <i>"Note: Soil Incorporation"</i> .)	
	Mole crickets	2 pts. 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	2 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	

<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 2 pints of this product (1 lb. a.i.) per acre per application. 3) Do not apply more than 2 pints of this product (1 lb. a.i.) per acre per year.		
Ginseng (REI = 3 days)	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 pint per acre. Apply by ground equipment using 10 to 100 gallons of water per acre.	
<b>RESTRICTIONS:</b> 1) Do not make more than 1 application per year. 2) Do not apply more than 1 pint of this product (0.5 lb. a.i.) per acre per application. 3) Do not apply more than 1 pint of this product (0.5 lb. a.i.) per acre per year. 3) Do not apply during flowering of 3 or 4 year old crops. 4) Do not apply within 30 days of harvest. 5) Do not graze treated areas or feed treated forage to livestock.		
Kale (REI = 4 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Note: Soil Incorporation".)	
	Mole crickets	2 pts. 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	6 to 8 pts. per acre	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pounds of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pounds of this product (4 lbs. a.i.) per acre per year.		
Lettuce (Head, Leaf) (REI = 3 days)	Aphids, Dipterous leafminers	0.5 to 1 pt. per acre
	TIMING/SPECIAL DIRECTIONS: Apply when insects occur. Do not make more than one foliar application per year. <b>Aerial application is permitted. Exception for Lettuce:</b> Applicators applying to Lettuce are permitted to use open-cab equipment provided they are wearing chemical-resistant PPE specified in this labeling for handlers not using engineering controls. <b>Note:</b> This product will not control organophosphate-resistant Leafminers.	
	Cutworms	4 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Note: Soil Incorporation".)	
	Mole crickets	2 pts. 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	4 pts. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTIONS:</b> 1) Do not make more than 1 foliar and 1 soil application per year. 2) Minimum retreatment interval is 30 days. 3) Do not apply more than 4 pints of this product (2 lbs. a.i.) per acre per application. 4) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year. 5) To avoid illegal residues, allow a minimum of 14 days between last application and harvest.		
Melons (Cantaloupes, Casabas, Crenshaws, Muskmelons, Persians and hybrids of these) and Watermelons (REI = 3 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Note: Soil Incorporation".)	
	Wireworms	6 to 8 pts. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year. 3) To avoid illegal residues, allow a minimum of 3 days between the last application and harvest.		
Honeydew melons (REI = 3 days)	Aphids, Dipterous leafminers, Thrips, Striped cucumber beetle, Melonworms, Leafhoppers, Spider mites	0.5 to 1.5 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Apply when infestation occurs.	
	Cutworms	4 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Note: Soil Incorporation".)	
Wireworms	6 to 8 lbs. per acre	



	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil and 1 foliar application per year regardless of target pest. 2) Minimum retreatment interval is 30 days. 3) For foliar application, do not apply more than 1.6 pints of this product (0.8 lb. a.i.) per acre per application. Do not apply more than 1.6 pints of this product (0.8 lb. a.i.) per acre per year. 4) For soil application, do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year. 5) To avoid illegal residues, allow a minimum of 3 days between last application and harvest.		
Mustard greens (REI = 4 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Note: Soil Incorporation".)	
	Mole crickets	2 pts. 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	6 to 8 pts. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		
Onions (Bulb and Green), Garlic, Leeks, Spring onions or Scallions, Japanese bunching onions, Green shallots, Green eschalots (REI = 3 days)	Onion maggots	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and mix into the top 3 to 4 inches of soil. (See "Note: Soil Incorporation".) <b>Note:</b> This product will not control organophosphate-resistant Onion maggots.	
	Wireworms	6 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		
Radish (REI = 3 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Note: Soil Incorporation".)	
	Mole crickets	2 pts. 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	6 to 8 pts. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		
Rutabagas (REI = 4 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Note: Soil Incorporation".)	
	Mole crickets	2 pts. 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	6 to 8 pts. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		
Spinach (REI = 3 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Note: Soil Incorporation".)	
	Mole crickets	2 pts. 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	6 to 8 pts. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		

<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		
Tomatoes (REI = 2 days)	Cutworms	4 to 8 pts. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Note: Soil Incorporation".)	
	Mole crickets	2 pts. 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	6 to 8 pts. per acre
TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
<b>RESTRICTIONS:</b> 1) Do not make more than 1 soil application per year. 2) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per application. 3) Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.		

### INSECT CONTROL ON ORNAMENTALS GROWN OUTDOORS IN NURSERIES

(REI = 7 days for Flowers and Other Commercial Ornamentals Grown for Cuttings; 2 days for all Other Commercial Ornamentals)

Ornamentals	Pest(s)	Rate
Arborvitae, Azalea, Birch, Boxwood, Camellia, Carnation, Chrysanthemum, Crabapple, Dogwood, Douglas fir, Elm, Euonymus, Gladioli, Hawthorn, Holly, Honey locust, Honeysuckle, Juniper, Lilac, Lily, Locust, Maple, Marigold, Oak, Ornamental plum, Pansy, Petunia, Pine, Poplar, Rhododendron, Rose, Scotch pine, Spirea, Spruce, Sycamore, Wax plant (Hoya), Willow, Yellowwood, Yew	Aphids, Bagworms, Carnation bud mites, Carnation shoot mites, Clover mites, Cyclamen mites, Dipterous leafminers, European pine shoot moths, European red mites, Flea beetles, Holly bud moths, Juniper webworms, Leafhoppers, Obscure root weevils, Omnivorous leaf tiers, Privet mites, Scale crawlers (Cottony cushion, Lecanium, Pine needle, San Jose, Soft), Thrips, Two-spotted spider mites, Whiteflies	0.5 fl. oz.* (1 tbsp.) per 3 gals. of water  OR  1 pt.** per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when pest(s) first appear. Try to spray underside of leaves and penetrate dense foliage. <b>Note:</b> Do not use on Ferns, Gardenias, Hibiscus, Papayas, Pilea and Poinsettias since injury to the plants may occur.	
	Apple-and-thorn skeletonizers, Cotoneaster webworms, European pine sawflies, Fall webworms, Hemlock chermes, Oak loopers, Obliquebanded leafrollers, Pear slugs, Tent caterpillars	1.5 fl. ozs.* (3 tbsps.)  OR  2 pts.** per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply when pest(s) first appear. Try to spray underside of leaves and penetrate dense foliage. <b>Note:</b> Do not use on Ferns, Gardenias, Hibiscus, Papayas, Pilea and Poinsettias since injury to the plants may occur.	
	Mimosa webworms	0.5 fl. oz. (1 tbsp.) per 3 gals. of water  OR  1 pt.* per 100 gals. of water
	TIMING/SPECIAL DIRECTIONS: Apply as thorough foliar spray when adults first appear. Try to spray underside of leaves and penetrate dense foliage. <b>Note:</b> Do not use on Ferns, Gardenias, Hibiscus, Papayas, Pilea and Poinsettias since injury to the plants may occur.	
	<b>RESTRICTIONS:</b> 1) Do not apply more than 1 foliar application per crop cycle. 2) Do not apply more than 2 pints of this product (1 lb. a.i.) per acre per crop. 3) Application is permitted only on commercial Ornamentals grown outdoors in nurseries.	
* 1 fl. oz. = 2 tablespoons ** 16 fl. ozs. = 1 pint		

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original container only. Store in cool, dry area away from heat and ignition source. Keep away from any puncture source.

**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 HANDLING:

**Nonrefillable Container (rigid material; less than 5 gallons):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container one-fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container (rigid material; 5 gallons up to < 250 Gals.):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Refillable Container ( $\geq$  250 Gals. & Bulk):** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures approved by State and local authorities.

## WARRANTY—CONDITIONS OF SALE

OUR DIRECTIONS 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. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. To the extent consistent with applicable law, 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. To the extent consistent with applicable law, Manufacturer makes no other warranties or representations of any kind, expressed or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

Manufactured By:



**Drexel Chemical Company**

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

**SINCE 1972**

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