Ms. Luz Piwonka Drexel Chemical Company P.O. Box 13327 Memphis, TN 38113-0327

JUL 26 1999

Dear Ms. Piwonka:

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Subject: Amendment - Update label Drexel Diazinon 50 WP

> EPA Registration Number 19713-492 Your submission dated April 1, 1999

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

- Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
- 2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a) Revise the first of the Notes for Blueberries to read "Do not apply more than 2 lbs. of product per acre per application and no more than 10 lbs. of product per acre per season.".
  - b) Add a Notes section for Caneberries as follows:
    - Notes: (1) Do not apply more than 4 lbs. of product per acre per application and no more than 10 lbs. of product per acre per season. (2) To avoid illegal residues, allow a minimum of 7 days between the last application and harvest.
  - c) For Pears, in the first grouping of pests capitalize the first letter of "pear" for the entry "Pear leaf blister mite eggs".
  - d) For Prunes, in the first grouping of pests capitalize the first letter of "mealy" for the entry "Meal plum aphid eggs".

- e) In the list of plants under the heading INSECT CONTROL ON ORNAMENTALS, correct "was plant (hoya)" to "wax plant (hoya)".
- f) At the end of the introductory paragraph for LAWN PEST CONTROL (i.e., after "apply specified rates." add "Repeat as necessary.".
- g) Revise the REMARKS for Frit fly control in lawns to read "For Frit flies, before treatment mow grass and water well, but delay application until grass is dry.".
- 3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

The Agency understands that you will shortly be submitting updated formula statement(s) as required by the Agency's June 16, 1998 letter.

Sincerely,

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

### RESTRICTED USE PESTICIDE

(Due to Avian and Aquatic Toxicity)

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



ACCEPTED
with COMMENTS
In EPA Letter Dated:

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

# Diazinon 50 WP

Insecticide

For control of certain insects and mites on fruits, nuts, vegetables, field crops, lawns and ornamentals. For specific pests, refer to use directions.

This product must not be used on golf courses and sod farms.

#### **ACTIVE INGREDIENT:**

TOTAL: ...... 100.0%
KEEP OUT OF REACH OF CHILDREN

## CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

See FIRST AID Below

EPA Reg. No. 19713-492 EPA Est. No. 19713-GA-1

Net Contents:

#### FIRST AID

This product is an organophosphate.

IF SWALLOWED: Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth if person is unconscious or convulsing.

IF INHALED: Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention.

IF ON SKIN: Remove contaminated clothing and wash affected areas thoroughly with soap and water. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

NOTE TO PHYSICIAN: 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.

#### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing. Avoid contamination of food and feed. Food utensits, 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 on this label. Continued)

## PRECAUTIONARY STATEMENTS (Continued) PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: Long-sleeved shirt

and long pants, shoes plus socks and waterproof gloves. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements: When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### ENVIRONMENTAL HAZARDS

This product is highly toxic to birds, fish and other wildlife. Birds, especially waterfowl, feeding or drinking on treated areas may be killed. Because of migratory habits of Atlantic Coast waterfowl, do not apply this product to lawns in Nassau County, NY, between November 1 and May 20. Do not exceed maximum permitted label rates. Rates above those recommended significantly increase potential hazards to birds and waterfowl. Avoid overlapping of sprays. On lawns, if waterfowl (ducks or geese) can be expected in the treated area after treatment (except spot treatment), apply a minimum of 1/4 inch of water immediately after applying this product. Stop irrigation 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 crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment

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

#### **GENERAL INFORMATION**

DIAZINON 50 WP is a wettable powder which should be mixed with sufficient water to assure thorough coverage, unless otherwise noted in the "Directions For Use".

Best control is obtained when application is made at first sign of pesta. \*\* ' Application should be repeated only as directed to maintain control. ','

Manufactured By:

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

SINCE 1972

Since this product is a wettable powder formulation, constant agitation is necessary during application. To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, since crop or plant injury may result. Do not use on food crops grown in greenhouses.

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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 to treated areas during the restricted entry interval. Exception: If the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: Coveralls, waterproof gloves and shoes plus socks.

#### 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 enter or allow entry into treated areas until sprays have dried. Do not permit children or pets to go onto sprayed grass until spray has completely dried.

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

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

#### Work Safety Rules

REPEATED EXPOSURES TO CHOLINESTERASE INHIBITORS SUCH AS ARE CONTAINED IN THIS PRODUCT MAY, WITHOUT WARNING, CAUSE PROLONGED SUSCEPTIBILITY TO VERY SMALL DOSES OF ANY CHOLINESTERASE INHIBITOR.

When handling this product, do not rub eyes or mouth with hands. If you feel sick in any way. STOP work and get help right away. See "First Aid" section of this label.

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

#### Chemigation System Connected to Public Water Systems

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily, at least 60 days out of the year.

2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

#### Sprinkler Chemigation

- 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.
- 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.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not 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.
- 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 product to the chemigation system supply tank and dilute with water if needed. Constant agitation is required to keep the product in solution when this product is used alone or tank mixed with other pesticides registered for sprinkler chemigation application to Cranberries.
- Start the irrigation system and bring the system up to full pressure, making certain that all sprinkler heads are functioning properly
- Engage the chemigation injection or venturi system to add the product to the irrigation lines.
- Continue to run irrigation system for a few minutes after supply tank is empty to allow material in the irrigation lines to reach the sprinkler heads furthest from the chemigation injection point

#### FRUIT AND NUT CROPS

#### REI - 24 Hours.

This product may be applied using ground or aerial application equipment as specified in the following table. This table also indicates the minimum amount of water that can be used for the various methods of application. The rate of this product for aerial spray or concentrated spray applied by ground equipment is based on a dilute full cover spray applied to fruit or nut trees with conventional ground equipment at a rate of 300 to 400 gallons of water per acre. The specific amount of product to be used appears under the separate "Directions For Use" for each crop. (Note: "pounds or pounds of product" in the directions means pounds of this product, not pounds of active ingredient). If the "Rate" calls for 1 pound of this product per 100 gallons of water, this amounts to 3 to 4 pounds of product per acre when applied to fruit trees at usual dilute ground spray volumes of 300 to 400 gallons of water per acre In no case should the amount of product used per acre exceed the maximum amount per acre per application that is specified in the "Directions For Use" for individual crops.

	Aerial Application	Ground Application  Minimum Gals, per Acre		
	Minimum			
Crop	Gals. per Acre	Dilute	Concentrate	
Almonds*, Apples, Apricots, Blackberries**, Blueberries, Boysen- berries**, Cherries	20	100	20	
Cranberries	20	15		
Dewberries**, Grapes, Loganberries**, Necta- rines, Peaches, Pears	20	100	20	
Pineapple	20	200		
Plums, Prunes, Rasp- berries**, Strawberries, Walnuts*	20	100	20	
*CA Only **CA, OR or	r WA Only			

Observe stated time intervals between last application and harvest, as well as intervals between applications and total number of applications that can be made per season.

Crop	PHI*
Almonds	**
Apples, Apricots, Cherries, Nectarines, Peaches, Pears, Plums, Prunes	21
Blackberries, Blueberries, Boysenberries, Cranberries, Dewberries, Loganberries, Pineapple, Raspberries	7
Grapes	28
Strawberries	5
Walnuts	45

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

Fruit and Nut Crop	Pests Controlled	Rate		
Almonds (CA Only)	Apple aphid eggs, Apricot scale, Black cherry aphid eggs, Black scale, Brown mite eggs, Brown scale, European red mite eggs, Mealybug, Mealy plum aphid eggs, Parlatoria scale, San Jose scale, Twig borers	1 to 11/2 lbs.		
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 6 lbs 9 gals. of oil per acre.			
Apples	Apple aphid eggs, Apricot scale, Black scale, Black cherry aphid eggs, Brown mite eggs, Brown scale, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scale, San Jose scale, Twig borers	1 lb. + 2 gals. dormant oil OR 1 to 1½ gals. superior type oil in 100 gals. of water		
	TIMING/SPECIAL DIRECTIONS: Apply as a delayed dormant spray. Do not apply more to product or 6 gals of oil per acre.			
	Leafhoppers	1 lb. in 100 gals. of water		
	TIMING/SPECIAL DIRECTIONS: Apply, beginning at petal fall, as infestations develop. Repeat application in 14 days, if necessary.			
	Eyespotted bud moths, Fruittree Leafrollers, Mealybugs	1 lb. in 100 gals. of water		
	TIMING/SPECIAL DIRECTIONS: Make 3 co beginning at pink stage. Do not repeat appli than 14 days.			
	Codling moths, Green apple aphids, Rosy apple aphids, Spider mites, Woolly apple aphids	1 lb. in 100 gals. of water		
	TIMING/SPECIAL DIRECTIONS: Make 3 co beginning when intestations occur. Do not re applications closer than 14 days. Note: Mites will be suppressed if diazinon is regular cover spray program. Slight russetin on some varieties of applies such as Golder	epeat s used in the ig may occur		
	Apple maggots	1 lb. in 100 gais, of water		
	TIMING/SPECIAL DIRECTIONS: Make 3 cover sprays when flies are active and laying eggs. Do not repeat applications closer than 14 days.  Note: This product will not control organophosphate-resistant Apple maggots.			
	Forbes scale crawlers, San Jose scale crawlers	1 lb. in 100 gals. of water		
	TIMING/SPECIAL DIRECTIONS: Apply earl when crawlers first appear. If infestation was second application 14 days later.	rrants, make a		
cation and no	o not apply more than 4 lbs, of product per ac o more than 12 lbs, of product per acre per se esidues, allow a minimum of 21 days between arvest.	ason. (2) To		

Fruit and Nut Crop	Pesta Controlled	Rate	
Apricots	Apple aphid eggs, Apricot scale, Black scale, Black cherry aphid eggs, Brown	1 lb. + 2 gals. dormant oil	
	mite eggs, Brown scale, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scale, San Jose	or 1 to 1½ gats. superior type oil in 100 gats.	
	scale, Twig borers TIMING/SPECIAL DIRECTIONS: Apply		
	spray. Do not apply more than 4 lbs. of of oil per acre.		
	Aphids, Brown mites (Clover mites), Olive scale crawlers, San Jose scale crawlers, Two-spotted spider mites	1 fb. in 10 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply occur. Repeat application after 14 days,	as infestations if necessary.	
	Olive scale crawlers	½ lb. to 1½ gals. of light medium horticultural oil in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply crawlers are present. Do not apply more product or 6 gals, of oil per acre per apl	than 4 lbs. of	
	Apricot mealybugs	1 lb. in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply from petal fall to June. Allow 14 days be tions.		
tion and no mor	ot apply more than 4 lbs. of product per a e than 12 lbs. of product per acre per se idues, allow a minimum of 21 days betwe harvest.	ason. (2) To	
Blueberries	Aphids, Blueberry maggots, Cherry fruitworms, Cranberry fruitworms, Thrips, Two-spotted spider mites	1 lb. per 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply as infe occur. Allow 14 days between applications.		
	Fire ants	1 lb. in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: To aid in control of Fire ants, slowly apply 1 gal. of diluted mixture over and 6 inches to each side of Fire ant mound. Apply gently to avoid disturbing ants. Use equipment capable of delivering the diluted product as a gentle rain. High pressure sprays may disturb the ants and cause migration, reducing product effectiveness.  Note: For best results apply in cool weather, 65° to 85°F, or in early morning or late evening hours.		
	ot apply more than 2 lbs, of product per gal residues, allow a minimum of 7 days harvest.		
Caneberries, (Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries)	Aphids, Leafhoppers, Raspberry fruitworms, Thrips, Two-spotted spider mites	2 lbs. per acre in a minimum of 100 gals. of water (200 gals. of water maximum)	
(CA, OR and WA Only)	TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat application after 14 days, if necessary. Do not make more than 5 applications per season. Do not apply within 7 days of harvest or illegal residues may occur. For Raspberry fruitworms, make one application when blossom buds separate. Make a second application immediately before blossoms open.		
	Dryberry mites	2 to 4 lbs. per acre in a minimum of 100	
	gals. of water TIMING/SPECIAL DIRECTIONS: Apply as a domaint spray in the early Spring, when canes are still on the ground and buds are closed. Make a second application when buds are well developed, but still closed.		
	Raspberry crown borers (Raspberry root borers)	4 lbs. per acre in a minimum of 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply the crown and lower canes in the Spring break.		

Fruit and Nut Crop	Pests Controlled	Rate	Fruit and Nut Crop	Pests Controlled	Rate
Cherries	Apple aphid eggs. Apricot scale, Black cherry aphid eggs. Black scale, Brown mite eggs, Brown scale, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlaturia scale, San Jose scale, Twig borers	1x lbs. + 3 gals. dormant oil OR 1 to 1½ gals. superior type oil in 100 gals, of water	Grapes	Aphids, Grape berry moths, Grape Leaffolders, Leafhoppers, Omnivorous Leafrollers, Pacific Spider mites, Spider mites	1 to 2 lbs. per acre in a minimum of 100 gals. of water (200 gals. of water maximum
	TIMING/SPECIAL DIRECTIONS: Apply spray. Do not apply more than 4 lbs. of of oil per acre.	as a dormant		TIMING/SPECIAL DIRECTIONS: Apply a cover spray when pests appear. Repeat days, if necessary.	is a thorough
	Eyespotted bud moths, Fruittree leafrollers	1 lb. in 100 gals. of water		Drosophila spp.	6 oz. per acre in a minimum of 100 gals, of wate
	TIMING/SPECIAL DIRECTIONS: Apply occur, beginning at petal fall. Repeat ap days, if necessary.			TIMING/SPECIAL DIRECTIONS: Apply a	(300 gals, of water maximum as a thorough
	Leathoppers	1 lb. in 100 gals. of water	Notes: (1) Do	cover spray at 7-day intervals.  not apply more than 2 lbs. product per a nore than 10 lbs. product per acre per sea	cre per applica-
	TIMING/SPECIAL DIRECTIONS: Make tions beginning at petal fall and continuing growing season as infestations occur. A	ng through the		es, allow a minimum of 28 days between t	
	between applications. Cherry fruitflies	% to 1 lb. in 100 gals. of water	10014111100	eggs, Black scale, Brown scale, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria	gals, of dorman oil OR 1 to 1% gals, superior
	TIMING/SPECIAL DIRECTIONS: Make tions beginning when adult flies begin to repeating at 10-day intervals.			scale, San Jose Scale, Twig borers TIMING/SPECIAL DIRECTIONS: Apply a	
	Black cherry aphids	1 lb. in 100 gals. of water		spray. Do not apply more than 4 lbs. of p of oil per acre.  Aphids, Brown mites (Clover mites).	,
	TIMING/SPECIAL DIRECTIONS: Apply when aphids appear. Repeat application necessary.			Olive scale crawlers, San Jose scale crawlers, Two-spotted spider mites  TIMING/SPECIAL DIRECTIONS: Apply a	of water
:	San Jose scale crawlers	1 lb. in 100 gals. of water		occur. Repeat application after 7 days, if Parlatoria scale. Peach twig borers	
	TIMING/SPECIAL DIRECTIONS: Apply pink stage or when crawlers first appear	during the pre-		anatonia boson, soson imig borois	medium Summi horticultural oil 100 gals. of wat
	Cherry rust mites	½ to 1 lb. in 100 gals. of water		TIMING/SPECIAL DIRECTIONS: Apply a apply more than 4 lbs. of product or 4 gaper acre.	
	TIMING/SPECIAL DIRECTIONS: Apply plemental spray to trees after harvest.  not apply more than 4 lbs. of product per one than 12 lbs. of product per acre per ye	acre per applica-		Olive scale crawlers	1/2 lb. + 1/2 gals light medium horticultural oil i 100 gals, of wat
	s, allow a minimum of 21 days between the			TIMING/SPECIAL DIRECTIONS: Apply a Do not apply more than 4 lbs. of product	is insects occur, or 4 gals, of
Cranberries	Blackheaded fireworms (Rhopobota naevana)	4 lbs.		Summer oil per acre per application. Allo applications.  Oriental fruitmoths	w 7 days betwee
	TIMING/SPECIAL DIRECTIONS: Apply Pheromone trap captures and sweep mused to optimize treatment timing. Repe	onitoring may be		TIMING/SPECIAL DIRECTIONS: Apply a	gals, of water it 100% petal fall.
	after 14 days, if necessary. A maximum per season is permitted.		N-4 (1) D	Make 2 additional applications at 10 to 1 Time the last application to peak adult fli	ght.
	Cranberry fruitworms TIMING/SPECIAL DIRECTIONS: Cranb	4 to 6 lbs. per acre	tion and no n	o not apply more than 4 lbs. of product per nore than 12 lbs. of product per acre per sesidues, allow a minimum of 21 days betweet	eason. (2) To
	and/or berry inspection for eggs may be treatment timing; consult your local exter pest management advisor. Repeat applications, as needed. A maximum of 4 applications per season is permitted for the 6 lb. rate. A applications per season is permitted for	used to optimize nsion agent or cation every 14 cations per maximum of 6	Peaches	Apple aphid eggs, Apricot scale, Black cherry aphid eggs, Black scale, Brown mite eggs, Brown scale, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scale, San Jose scale, Twig borers	1 lb. + 2 to 3 gals, dormant o OR 1 to 1½ gals superior type of in 100 gals, of water
	Cranberry tipworms	4 lbs.		TIMING/SPECIAL DIRECTIONS: Apply a	s a dormant
	TIMING/SPECIAL DIRECTIONS: Preser not an indicator of active infestation. For larget early-stage larvae. Repeat applications of the processary. A maximum of 6 applications of the processary of	best results, ation after 14		spray. Do not apply more than 4 lbs. of p of oil per acre.  Aphids, Brown mites (Clover mites).	1 lb. in 100
Notes; (1) This	season is permitted.  s product may be applied to cranberries vi		}	Olive scale crawlers, San Jose scale crawlers, Two-spotted spider mites TIMING/SPECIAL DIRECTIONS: Apply a	gals, of water
or sprinkler irri minimum of 15	gation. For ground application, apply the p gals, of water per acre. For aerial applica	roduct in a tion, a minimum		occur. Repeat application after 14 days.  Parlatoria scale, Peach twig borer	
per acre. Refe	water per acre and for chemigation, up to a r to the "Chemigation" section of this label rections. (2) Do not use water from irrigate	for specific		anatona soute, i each twig buter	light medium Summer horti-
Cranberry bed	s for drinking purposes or to irrigate crops EPA-approved diazinon labels, (3) Do not a	other than those	}	}	cultural oil in 10 gals, of water

)

Fruit and			
Nut Crop	Pests Controlled	Rate	
Peaches (Continued)	Olive scale crawlers	% lb. + 1% gals. light medium horti- cultural oil in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Do not apply more than 4 lbs. of product or 4 gals. of Summer oil per acre per application. Allow 7 days between applications.		
	Oriental fruit moths	1 lb. in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Appl fall. Make 2 additional applications at intervals. Time the last application to p	10 to 15-day	
	Peach twig borers	1 lb. in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Applin May and June. Allow 7 days between		
	Leafhoppers	1 lb. in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Make tions, beginning at petal fall and contingrowing season. Allow at least 7 days tions.	nuing through the	
	White peach scale	1½ to 2 lbs. in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Appl timed to coincide with peak crawler ar activity. Under conditions of heavy infe- tions (7 days apart) may be needed.	nd immature scale	
cation and no r	not apply more than 4 lbs. of product pe nore than 12 lbs. of product per acre pe sidues, allow a minimum of 21 days beto harvest.	er season. (2) To	
Pears	Apple aphid eggs, Apricot scale, Black cherry aphid eggs, Black scale, Brown mite eggs, Brown scale, European red mite eggs, Mealybugs, Mealy plum aphid eggs, pear leaf blister mite eggs. Parlatoria scale, San Jose scale. Twig borers	1 lb. + 2 to 3 gals. dormant oil OR 1 to 1½ gals. superior type oil in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply as a dormant spray. Do not apply more than 4 lbs. of product or 6 ga of oil per acre.		
	Pear psylla	½ to 1 lb. in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply as a cover sp at pre-pink stage. Make 1 to 2 additional applications during the first and second cover sprays, if necessary Allow at least 14 days between applications.		
	Mealybugs, Tentiform leafminers	1 lb. in 100 gats. of water	
	TIMING/SPECIAL DIRECTIONS: Make 3 cover sprays beginning in April. Allow at least 14 days between applications.		
	Codling moths, Green apple aphids, Rosy apple aphids, Spider mites, Wooly apple aphids	1 lb. in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Make beginning as infestations occur. Allow between applications.  Note: Mites will be suppressed if this this regular cover spray program.	at least 14 days	
	Apple maggots	1 lb. in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Mak- when flies are active and laying eggs, days between applications. Note: This product will not control org resistant Apple maggol.	Allow at least 14	
	Forbes scale crawlers, San Jose scale crawlers	1 lb. in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Appl season when crawlers first appear. If it	infestation	
Notes: (1) Do	warrants, make a second application not apply more than 4 lbs. of product pe		

ı	Notes: (1) Do not apply more than 4 lbs. of product per acre per appli-
	cation and no more than 12 lbs. of product per acre per season. (2) To
	avoid illegal residues, allow a minimum of 21 days between the last
	application and harvest.

Fruit and Nut Crop	Pests Controlled	Rate		
Pineapple	Pineapple mealybugs	2 lbs. per acre in 200 to 500 gals. of water		
	TIMING/SPECIAL DIRECTIONS: Repeat the necessary every 28 days, up to a maximulations. Do not apply within 7 days of harve residues may occur.	m of 8 applica-		
Plums	Apple aphid eggs, Apricot scale, Black cherry aphid eggs, Black scale, Brown mite eggs, Brown scale, European red mite eggs, Mealybugs, Mealy plum aphid eggs, Parlatoria scale, San Jose scale, Twig borers	1 ib. + 2 to 3 gals. dormant oil OR 1 to 1½ gals. superior type oil in 100 gals. of water		
	TIMING/SPECIAL DIRECTIONS: Apply as Do not apply more than 4 lbs. of product acre. If applied in late April or May, mix th gal. of light medium Summer horticultural of water.	or 6 gals, of oil per is product with 1		
	Brown mites, Clover mites, European red mites	1 lb. in 100 gals. of water		
	TIMING/SPECIAL DIRECTIONS: Apply as days.	needed, every 7		
	Leafourl plum aphids, Mealy plum aphids, Thistle aphids	½ to 1 lb. in 100 gals. of water		
	TIMING/SPECIAL DIRECTIONS: Apply as days.	needed, every 7		
tion and no r	o not apply more than 4 lbs. of product per nore than 12 lbs. of product per acre per s residues, allow a minimum of 21 days betw nd harvest.	eason. (2) To		
Prunes	Apple aphid eggs, Apricot scale, Black sherry aphid eggs, Black scale, Brown mite eggs, Brown scale, European red mite eggs, Mealybugs, mealy plum aphid eggs, Parlatoria scale, San Jose scale, Twig borers	1 lb. + 2 to 3 gals, dormant oit OR 1 to 1½ gals, superior type oil in 100 gals, of water		
	TIMING/SPECIAL DIRECTIONS: Apply as Do not apply more than 4 lbs. of product of acre. For late April or May applications, m with 1 gal. of light medium Summer hortic gals. of water.	or 6 gals, of oil per ix this product		
	Brown mites, Clover mites, European red mites	1 lb. in 100 gals. of water		
	TIMING/SPECIAL DIRECTIONS: Apply as days.	needed, every 7		
	Leafcurl plum aphids, Mealy plum aphids, Thistle aphids	% to 1 lb, in 100 gals, of water		
	TIMING/SPECIAL DIRECTIONS: Apply as days.	needed, every 7		
cation and no	o not apply more than 4 lbs. of product per o more than 12 lbs. of product per acre per residues, allow a minimum of 21 days betw nd harvest.	season. (2) To		
Strawberries	Aphids, Two-spotted spider mites	1 lb. in 100 gals. of water per acre		
	TIMING/SPECIAL DIRECTIONS: Apply as pests occur. Repeat application if necessary, after 7 days.			
	Cyclamen mites	2 lbs. in 100 gals. of water per acre		
	TIMING/SPECIAL DIRECTIONS: Direct spray to the plant crowns. Plants should be sufficiently agitated to assure thorough coverage of foliage. Repeat application after 7 days, if necessary.			
	Mole crickets	2 lbs. per acre		
	TIMING/SPECIAL DIRECTIONS: Apply 1 to 2 days before transplanting and immediately incorporate into the top 1 to 2 inches of soil.			
	Strawberry leafrollers	¥ to 1 lb, in 100 gals, of water		
Note (4) C	TIMING/SPECIAL DIRECTIONS: Apply 20 per acre when blossoms show color.			
	o not make more than 3 foliar applications are than 2 lbs. of product per acre per appli lbs. of product per acre per season. (3) All			

Fruit and Nut Crop	Pests Controlled	Rate	
Walnuts (CA Only)	Aphids, Spider mites	2 lbs. in 100 gals. of water	
	TIMING/SPECIAL DIRECTIONS: Apply as a foliar spray as needed. Repeat application in 14 days, if necessary. Do not make more than 3 applications per season. Do not apply within 45 days of harvest or after husks open or illegal residues may occur.		
	Codling moths, Scale crawlers, Walnut caterpillars 6 lbs. in 100 gals. of water per acre		
	TIMING/SPECIAL DIRECTIONS: Apply a needed. Repeat application in 14 days, if make more than 3 applications per seaso within 45 days of harvest or after husks of dues may occur.	necessary. Do not n. Do not apply	

#### **VEGETABLE CROPS**

REI — 24 Hours.
For foliar or soil applications, this product should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil. This product may be applied aerially or by ground application as specified in the following table. The specific amount of product to be used appears under the separate "Directions For Use" for each crop.

	Ground Application		Aerial Application
Сгор	Minimum Gals. per Acre	- OR - Minimum Gals. per 1,000 Sq. Ft.	Minimum Gals. per Acre
Beans (Lima, Pole, Snap), Beets, Red (Table), Broccoli, Brussels Sprouts, Cabbage, Carrots, Cauliflower, Collards, Endive (Escarole), Kale, Lettuce (Head, Leaf), Mustard, Onions (Bulb, Green), Parsley, Parsnips, Peas (succulent only), Peppers, Potatoes (Irish)*, Radishes, Spinach, Swiss Chard, Tomatoes, Turnips	10	2	5
Cantaloupes, Casabas, Crenshaws, Cucumbers, Honeydew Melons, Muskmelons, Persian Melons, Squash (Summer, Winter), Watermelons	5	1	5
Sweet Corn	20	4	5

\*Do not use on commercially grown potatoes which will be handharvested.

Observe stated time intervals between last application and harvest as well as intervals between and maximum numbers of applications per season.

Pre-Harvest Intervals (PHI*) for Foliar Applications		
Сгор	PHI	
Beans (Lima, Pole, Snap), Broccoli, Brussels Sprouts, Cauli- flower, Cucumbers, Peas, Squash (Summer), Sweet Corn	7	
Beets, Red (Table), Carrots, Endive (Escarole), Lettuce (Head, Leaf), Onions (Bulb, Green), Parsnips, Radishes, Spinach, Swiss Chard, Turnips (Roots, Tops)	14	
Cabbage	21	
Cantaloupes, Casabas, Crenshaws, Honeydew Melons, Muskmelons, Persian Melons, Squash (Winter), Watermelons	3	
Collards, Kale, Mustard	10	
Peppers	5	
Potatoes (Irish)	35	
Tomatoes	1	

Notes: (1) Soil Incorporation: Following application of this product to control vegetable soil insects, immediately incorporate the product into the soil to the recommended depth (see "Timing/Special Directions") using a rotary hoe, cultivator, disk, harrow or other

suitable means. For control of Surface cutworms, incorporate 2 to 3 inches, for Subterranean cutworms, incorporate 3 to 6 inches. (2) To Protect Bees: Foliar applications of this product should not be made to Peas or Beans if these crops or weeds in the treatment area are in bloom, or to Corn during the pollen shed period.

Vegetable Crop	Pests Controlled	Rate		
Beans (Lima, Pole, Snap - Succulent	Cutworms	4 to 8 lbs. per acre OR 1½ to 3 ozs. per 1,000 sq. ft.		
Only)	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note")			
	Wireworms	6 to 8 lbs. per acre OR 2¼ to 3 ozs. per 1,000 sq. ft.		
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in inches of soil.			
	Black bean aphids, Dipterous leafminers, Mexican bean beetle	1 to 1½ lbs. per acre OR % to % ozs.		
	# to % ozs. per 1,000 sq. ft.  TIMING/SPECIAL DIRECTIONS: 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: This product will not control organophosphate-			
	resistant leafminers. Cucumber beetles	% to % lb. per acre OR % to % oz.		
		per 1,000 sq. ft.		
	TIMING/SPECIAL DIRECTIONS: 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. Make Cucumber beetle application in 100 gats. of water per acre.  Note: This product will not control organophosphate-resistant leafminers.			
	Leafhoppers, Spider mites	1 lb. per acre OR % oz. per 1,000 sq. ft.		
	TIMING/SPECIAL DIRECTIONS: 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.			
Beets, Red (Table)	Cutworms	4 to 8 lbs. per acre OR 1½ to 3 ozs. per 1,000 sq. ft.		
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in (See "Soil Incorporation Note".)			
	Mole crickets	2 lbs. per acre OR % oz. per 1,000 sq. ft.		
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.			
	Wireworms	6 to 8 lbs. per acre OR 2x to 3 ozs. per 1,000 sq. ft.		
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in inches of soil.			
	Aphids, Dipterous leafminers	% to 1 lb. per acre OR % to % oz. per 1,000 sq. ft.		
	TIMING/SPECIAL DIRECTIONS: Apply Repeat application, as necessary, up to minimum of 7 days between application within 14 days of harvest or illegal residence. This product will not control organization to the control organization of the control organization.	o 5 times with a ns. Do not apply dues may occur.		

Vegetable Crop	Pests Controlled	Rate
Broccoli	Root maggots	4 to 6 lbs. per acre OR 1% to 2% ozs.
	TIMING/SPECIAL DIRECTIONS: Broadcing or transplanting and immediately income 4 inches of soil.	per 1,000 sq. ft. ast just before plant- proparate into the top 3
	Root maggots	4 to 8 ozs. in 50 gals. of water
	TIMING/SPECIAL DIRECTIONS: In trans drench application when 200 to 300 gals per acre. Apply % to 1 cup (4 to 8 ozs.) p by tractor mounted sprayer equipped wit direct spray to the base of the plant. Note: Transplant water treatments may a reduction due to plant stress at time of the	s. of water are used per plant by hand or h drop nozzles to result in stand
	Cutworms	4 to 8 lbs. per acre OR 1% to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcing and immediately incorporate into the (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR ¥ oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to planting, broadcast and immediately incc to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2½ to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadding and immedately incorporate into the soil.	top 4 to 8 inches of
	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	% to 1 lb. per acre OR % to % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply a Repeat application, as necessary, up to imum of 7 days between applications. Diagraphic of harvest or illegal residues may control. This product will not control organications.	5 times, with a min- o not apply within 7 occur.
Brussels Sprouts	Root maggets	4 to 6 lbs. per acre OR 1½ to 2½ ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting or transplanting and immedately incorporate into the top 3 to 4 inches of soil.	
	Root maggots	4 to 8 ozs. in 50 gals, of water
	TIMING/SPECIAL DIRECTIONS: In trandrench application when 200 to 300 gals Apply % to 1 cup (4 to 8 ozs.) per plant imounted sprayer equipped with drop noto the base of the plant.  Note: Transplant water treatments may reduction due to plant stress at time of the plant stress at time of the control of the plant stress at time of the control of the plant stress at time of the control of the cont	s, are used per acre, by hand or by tractor zzles to direct spray result in stand
	Cutworms	4 to 8 lbs. per acre OR 1½ to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and incorporate into the soil.  (See "Soil Incorporation Nate".)	
	Mole crickets	2 lbs. per acre OR ¾ oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to planting, broadcast and immediately inc. to 2 inches of soil.	orporate into the top 1
	Wireworms	6 to 8 lbs. per acre OR 2½ to 3 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad- ing and immediately incorporate into the soil.	top 4 to 8 inches of
	Aphids, Diamondback moths, Imported cabbageworms	% to 1 lb. per acre OR % to % oz. per 1,000 sq. ft.
,	TIMING/SPECIAL DIRECTIONS: Apply Repeat application, as necessary, up to imum of 7 days between applications. D	5 times with a min-

Vegetable	Pests Controlled		
Crop abbage	Root maggots	4 to 6 lbs, per acre OR 1½ to 2½ ozs.	
	per 1,000 sq. ft.  TIMING/SPECIAL DIRECTIONS: Broadcast just before planting or transplanting and immediately incorporate into		
	the top 3 to 4 inches of soil.  Root maggots	4 to 8 ozs. in 50	
	TIMING/SPECIAL DIRECTIONS: In trans		
	drench application when 200 to 300 gals per acre. Apply % to 1 cup (4 to 8 ozs.) by tractor mounted sprayer equipped wit direct spray to the base of the plant.  Note: Transplant water treatments may reduction due to plant stress at time of the company.	per plant by hand or h drop nozzles to result in stand ransplanting.	
	Cutworms	4 to 8 lbs, per acre OR 1½ to 3 ozs, per 1,000 sq. ft.	
	TIMING/SPECIFIC DIRECTIONS: Broad planting and incorporate into the soil. (See "Soil Incorporation Note".)	<u> </u>	
	Mole crickets	2 lbs. per acre OR % oz. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: One to planting, broadcast and immediately inco 1 to 2 inches of soil.		
	Wireworms	6 to 8 lbs. per acre OR 2½ to 3 ozs. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Broadc planting and immediately incorporate inte inches of soil.		
	Aphids, Diamondback moths, Dipterous leafminers, Imported Cabbageworms	и to 1 lb. per acre OR и to и oz. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Apply a Repeat application, as necessary, up to imum of 7 days between applications. D 21 days of harvest or illegal residues mandate this product will not control organizestant Leatminers.	5 times, with a min- o not apply within ay occur.	
arrots	Cutworms	4 to 8 lbs. per acre OR 1½ to 3 ozs. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Broadc planting and immediately incorporate intelligent "Soil Incorporation Note".)		
	Mole crickets	2 lbs. per acre OR % oz. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: One to planting, broadcast and immediately income to 2 inches of soil.		
	Wireworms	6 to 8 lbs, per acre OR 2% to 3 ozs, per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
	Carrot rust fly	4 lbs. per acre OR 1½ ozs. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Apply as a drench to the seed furrow at planting.		
	Aphids	1 lb. per acre OR % oz. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Apply Repeat application, as necessary, up to imum of 7 days between applications. D 14 days of harvest or illegal residues may	5 times with a min- to not apply within	
auliflower	Root maggots	4 to 6 lbs, per acre OR 1% to 2% ozs. per 1,000 sq. ft.	

Vegetable Crop	Pests Controlled	Rate
(Continued) Caulillower	Root maggots	4 to 8 ozs. in 50 gals. of water
	TIMING/SPECIAL DIRECTIONS: In transplication when 200 to 300 gals, of per acre. Apply 1/2 to 1 cup (4 to 8 ozs.) per by tractor mounted sprayer equipped with officer spray to the base of the plant.  Note: Transplant water treatments may respect to the plant treatments of transplant water treatments may respect to plant stress at time of transplant stress at time stress at	f water are used plant by hand or frop nozzles to ult in stand
	Cutworms	4 to 8 lbs. per acre OR 1½ to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcas: planting and immediately incorporate into the (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two planting, broadcast and immediately incorp 1 to 2 inches of soil.	
	Wireworms	6 to 6 lbs. per acre OR 24 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcas planting and immediately incorporate into the inches of soil.	
	Aphids, Diamondback moths, Dipterous leafminers, Imported cabbageworms	% to 1 lb. per acre OR % to % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply as Repeat application, as necessary, up to 5 t minimum of 7 days between applications. I within 7 days of harvest or illegal residues Note: This product will not control organop resistant Leafminers.	imes with a Do not apply may occur.
Collards	Cutworms	4 to 8 lbs, per acre OR 1½ to 3 ozs, per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcas planting and immediately incorporate into the (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One to two planting, broadcast and immediately incorp 1 to 2 inches of soil.	
	Aphids, Corn earworms, Diamondback moths. Harlequin cabbagebugs, Imported cabbageworms	½ to 1 lb. per acre OR ½ to ¾ oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply as Repeat application, as necessary, up to 5 timinimum of 7 days between applications. If within 10 days of harvest or illegal residues	times with a Do not apply
	Wirewarms	6-8 lbs. per acre OR 2x to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4-8 inches of soil.	
Cucumbers	Culworms	4 to 8 lbs, per acre OR 1% to 3 ozs, per
		1,000 sq. ft.

Vegetable Crop	Pests Controlled	Rate	
Cucumbers (Continued)	Wireworms	6 to 8 lbs. per acre OR 2% to 3 ozs. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
	Aphids, Melonworms, Thrips, Serpentine leafminers, Cucumber beetles	1 lb. per acre OR % oz. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Apply is Repeat application, as necessary, every make more than 5 applications per seas within 7 days of harvest or illegal residu. Note: This product will not control organ resistant Leafminers.	7 days. Do not on. Do not apply es may occur.	
Endive (Escarole)	Cutworms	4 to 8 lbs, per acre OR 1% to 3 ozs. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Broadd planting and immediately incorporate int (See "Soil Incorporation Note".)	cast just before o the soil.	
	Mole crickets	2 lbs. per acre OR % oz. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.		
	Wirewarms	6 to 8 lbs. per acre OB 24 to 3 ozs per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate 4 to 8 inches into soil.		
	Aphids, Dipterous leafminers	и to 1 lb, per acre OR и to и oz, per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest.  Note: This product will not control organophosphate-tresistant Leafminers.		
Kale	Cutworms	4 to 8 lbs, per acre OR 1½ to 3 ozs. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)		
	Mole crickets	2 lbs. per acre OR % oz per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: One to two days before planting, broadcast and immediately incorporate into the top 1 to 2 inches of soil.		
	Wireworms	6 to 8 lbs, per acre OR 2% to 3 ozs, per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
	Aphids, Corn earworms, Diamondback moths, Harlequin cabbagebugs, imported cabbageworms	% to 1 lb. per acre OR % to % oz. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat application, as necessary, up to 5 times, a minimum of 7 days between applications. Do not apply within 10 days of harvest or illegal residues may occur.		
Lettuce (Head, Leaf)	Culworms	4 to 8 lbs, per acre OR 1½ to 3 ozs, per 1,000 sq. ft.	
(Continued)	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in (See *Soil Incorporation Note*.)		

Vegetable Crop	Pests Controlled	Rate	
(Continued) Lettuce (Head, Leaf)	Mole crickets	2 lbs. per acre OR % oz. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: One to be planting, broadcast and immediately income top 1 to 2 inches of soil.	wo days before corate into the	
	Wireworms	6 to 8 lbs, per acre OR 2w to 3 ozs. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Broadca: planting and immediately incorporate into inches of soil.		
	Aphids, Dipterous leafminers	% to 1 lb. per acre OR % to % oz. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat application, as necessary, up to 5 times with a minimum of 7 days between applications. Do not apply within 14 days of harvest.  Note: This product will not control organophosphate-resistant Leafminers.		
Meions (Cantaloupes, Casabas, Crenshaws, Honeydew,	Cutworms	4 to 8 lbs. per acre OR 1½ to 3 ozs. per 1,000 sq. ft.	
Muskmelons, Persians, and Hybrids of these) and	planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)		
Watermelons	Wireworms	6 to 8 lbs. per acre OR 24 to 3 ozs. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.		
	Aphids, Dipterous leafminers, Leafhoppers, Melonworms, Spider mites, Striped cucumber beetles, Thrips	y to 1 y lbs. per acre OR y to y oz. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat application, as necessary every 7 days. Do not make more than 5 applications per season. Do not apply within 3 days of harvest or illegal residues may occur. Note: This product will not control organophosphateresistant Leafminers.		
Onions (Bulb, Green)	Onion maggots	4 to 8 lbs. pe agre OR 1 k to 3 ozs. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and mix into the top 3 to 4 inches of soil. (See "Soil Incorporation Note".)  Note: This product will not control organophosphate-resistant Onion maggots.		
	Onion thrips	1 lb, per acre OR % oz. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Apply as Thrips appear. Repeat after 7 days, if necessary. Do not make more than 3 applications per season. Do not apply within 14 days of harvest or illegal residues may occur.		
	Wireworms	6 to 8 lbs. pe acre OR 2x to 3 ozs. per 1,000 sq. ft.	
	TIMING/SPECIAL DIRECTIONS: Broadca planting and immediately incorporate into inches of soil.	st just before	

Vegetable Crop	Pests Controlled	Rate
Parsley	Cutworms	4 to 8 lbs. per acre OR 1½ to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate (See "Soil Incorporation Note".)	
	Wireworms	6 to 8 lbs. per acre OR 24 to 3 ozs. per
	j.	1,000 sq. h.
	TIMING/SPECIAL DIRECTIONS: Broa planting and immediately incorporate inches of soil.	
Parsnips	Aphids, Dipterous leafminers, Flea beetles	½ to 1 lb. per acre OR % to % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Appl Repeat application, as necessary, up minimum of 7 days between application within 14 days of harvest or illegal res Note: This product will not control org resistant Lealminers.	to 5 times, with a ons. Do not apply sidues may occur.
Peas (Succulent Only)	Cutwarms	4 to 8 lbs. per acre OR 1% to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Wireworms	6 to 8 lbs. per acre OR 24 to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL INSTRUCTIONS: Broadcast just before planting and immediately incorporate into the soil. (See "Soil Incorporation Note".)	
	Aphids, Dipterous lealminers	% to 1 lb, per acre OR % to % o2, per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Appl Repeat application, as necessary, ever make more than 3 applications per se illegal residues, allow a minimum of 7 last application and harvest. Vines an dairy and beef cattle and sheep. To a wait 7 days following treatment if foral hay. Note: This product will not control orgesistant Leafminers.	ry 5 days. Do not eason. To avoid days between the d hay may be fed to void illegal residues, ge is to be cut for
Peppers	Cutworms	4 to 8 lbs. per acre OR 1% to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate (See "Soil Incorporation Note".)	dcast just before
	Mole crickets	2 lbs. per acre OR 4 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One planting, broadcast and immediately i top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2% to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate inches of soil.	
	Aphids, Serpentine leafminers	ห lb. per acre OR ษ oz. per 1,000 sq. tt.
	TIMING/SPECIAL DIRECTIONS: App Repeat application after 7 days, if necessary and a make more than 5 applications per selection of the selectio	cessary, Do not eason. Do not apply dues may occur.

Vegetable Crop	Pests Controlled	Rate
Potatoes	Cutworms (Surface, Subterranean)	4 to 8 lbs. per acre OR 1½ to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in (See *Soil Incorporation Note*.)	
	Southern potato wireworms (Southeastern U.S.)	4 to 8 lbs. per acre OR 1½ to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: For P mineral soils in the Southeast, apply primmediately incorporate into the top 3 depending on location of Wireworms.	nor to planting and
	Aphids, Potato beetles, Dipterous leafminers, Flea beetles	½ to ¾ lb. per acre OR ½ to ½ oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply Repeat application, as necessary, up to minimum of 7 days between application within 35 days of harvest or illegal resinate: This product will not control organization that the product will not control organization.	o 5 times, with a ns. Do not apply dues may occur. Inophosphate-
	Banded cucumber beetles, Leafhoppers, Southern armyworms	¾ to 1 lb. per acre OR ¾ to ¾ oz. per 1,000 sq. ft.
Note: Do not	TIMING/SPECIAL DIRECTIONS: Apply Repeat application, as necessary, up to minimum of 7 days between application within 35 days of harvest or illegal resituse on commercially grown potatoes within 35 days of harvest or illegal resituse on commercially grown potatoes within 35 days of harvest or illegal resituse.	o 5 times with a ns. Do not apply dues may occur.
harvested.		<del></del>
Aadishes	Cutworms	4 to 8 lbs. per acre OR 1½ to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in (See "Soil Incorporation Note".)	
	Mole crickets	2 ibs. per acre OR % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One planting, broadcast and immediately in top 1 to 2 inches of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2% to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in inches of soil.	
	Aphids, Dipterous leafminer, Flea beetles	% to 1 lb. per acre OR % to % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply Repeat application, as necessary, up to minimum of 7 days between application within 14 days of harvest or illegal resistant Leafminers.	o 3 times, with a ns. Do not apply idues may occur.
Spinach	Aphids, Dipterous leafminers	% to 1 lb. per acre OR % to % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Appl Repeat application, as necessary, up t minimum of 7 days between applicatio within 14 days of harvest. Note: This product will not control organisations to the product of the control organisation organisation of the control organisation organisat	o 5 times, with a ns. Do not apply
Squash, Summer	Cutworms .:	4 to 8 lbs. per acre OR 1½ to 3 ozs. per 1,000 sq. ft.
1	TIMING/SPECIAL DIRECTIONS: Broa planting and immediately incorporate if (See *Soil Incorporation Note*.)	
	Wireworms	6 to 8 lbs. per acre OR 2x to 3 ozs. per 1,000 sq. ft.
<u> </u>	TIMING/SPECIAL DIRECTIONS: Broat planting and immediately incorporate in	

Vegetable Crop	Pests Controlled	Rate
Squash,	Aphids, Leafhoppers, Leafminers,	ห to 1ห lbs. per
Summer	Melonworms, Spider mites, Striped	acre OR % to % oz.
(Continued)	cucumber beetles, Thrips	per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply Repeat application, as necessary, every make more than 5 applications per sea within 7 days of harvest or illegal residu Note: This product will not control orga	r 7 days. Do not son. Do not apply les may occur.
	resistant Leafminers.	
Squash, Winter	Cutworms	4 to 8 lbs. per acre OR 1% to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in (See "Soil Incorporation Note".)	
	Wireworms	6 to 8 lbs. per acre OR 2% to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in inches of soil.	cast just before to the top 4 to 8
	Aphids, Leafhoppers, Leafminers, Melonworms, Spider mites, Striped cucumber beetles, Thrips	и to 1и lbs. per acre OR и to и oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply Repeat application, as necessary, even make more than 5 applications per sea within 3 days of harvest or illegal residu Note: This product will not control organesistant Leafminers.	y 7 days, Do not son. Do not apply ues may occur.
Sweet Corn	Cutworms	4 to 8 lbs. per acre OR 1% to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in (See "Soil Incorporation Note".)	
	Seed corn maggots	4 to 8 lbs. per acre OR 1½ to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in of soil.	
	Wireworms	6 to 8 lbs. per acre OR 2x to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in inches of soil.	
	Corn earworms	2 to 2% lbs. per acre OR % to 1 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply appear. Repeat application every 7 day of 5 applications, if necessary.	
	Corn leaf aphids	1 to 2 lbs. per acre OR % to % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply provide complete coverage to the uppe plants. Repeat in 7 days, if necessary. than 5 applications per season.	r portions of the
	Flea beetles, Grasshoppers, Spider mites	1 lb. per acre OR % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply Repeat if necessary, but do not make r cations per season.	as insects occur.
	Sap beetles	2 to 2½ lbs. per acre OR % to 1 oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Consi Authorities for proper timing of applicati cation in / days, if necessary. Do not mapplications per season.	uit Local Agricultural on. Repeat appli-
shed period.	o protect bees, do not apply foliarly to co (2) Allow a minimum of 7 days between or cutting for forage. (3) Com may be pic	the last application

Vegetable Crop	Pests Controlled	Rate
weet	Flea beetles, Wireworms	6 to 8 lbs, per acre
Potatoes		OR 2% to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad	
	planting and immediately incorporate in	
	inches of soil.	144 0 11-
Swiss Chard	Cutworms	4 to 8 lbs. per acre OR 11/2 to 3 ozs.
		per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in (See "Soil Incorporation Note".)	
	Wirewarms	6 to 8 lbs. per acre
		OR 2x to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad	cast just before
	planting and immediately incorporate in inches of soil.	nto the top 4 to 8
	Aphids, Corn earworms, Diamond-	и to 1 lb. per acre
	back moths, Harlequin cabbagebugs, Imported cabbageworms	OR % to % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply	<del></del>
	Repeat application, as necessary, up to	5 5 times, with a
	minimum of 7 days between application within 14 days of harvest or illegal resi	
Tomatoes	Cutworms	4 to 8 lbs. per acre
		OR 1% to 3 ozs.
	TIMING/SPECIAL DIRECTIONS: Broad	per 1,000 sq. ft.
	planting and immediately incorporate in	
	(See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR % oz.
		per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast one to two days before planting and immediately incorporate into the	
	top 1 to 2 inches of soil. Wireworms	6 to 8 lbs, per acre
	THUMONIA	OR 2% to 3 ozs.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in inches of soil.	dcast just before
	Aphids, Dipterous leafminers	2 lb. per acre
		OR % oz.
	THUMO POPOLAL DIPERTIONS A	per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply Repeat application after 7 days, if nect more than 5 applications per season. It day of harvest or illegal residues may	essary. Do not make Do not apply within
	Note: This product will not control orga	
	resistant Leafminers. Banded cucumber beetles, Beet	% to 1 fb. per acre
	armyworms, Fall armyworms,	OR 3/10 to 34 oz.
	Southern armyworms	per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply Repeat application after 7 days, if nece more than 5 applications per season. I day of harvest or illegal residues may	essary. Do not make Do not apply within occur.
	Note: This product will not control orga- resistant Leafminers.	anophosphate-
	Vinegar flies	n to 1% lbs. per acre OR % to % oz per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply Repeat application after 7 days, if nece more than 5 applications per season. I day of harvest or illegal residues may Note: This product will not control orga	as insects appear. essary. Do not make oo not apply within occur.
<del></del>	resistant Leafminers.	· · ·
Tumips (Roots, Tops)	Cutworms	4 to 8 lbs. per acro OR 1% to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broad planting and immediately incorporate in (See "Soil Incorporation Note".)	
	Mole crickets	2 lbs. per acre OR % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: One	<del></del>

Vegetable Crop	Pests Controlled	Rate
Turnips (Roots, Tops) (Continued)	Wireworms	6 to 8 lbs. per acre OR 2% to 3 ozs. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 8 inches of soil.	
	Aphids, Dipterous leafminers, Flea beetles	% to 1 lbs. per acre OR % to % oz. per 1,000 sq. ft.
	TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat application, as necessary, up to 5 times, with a minimum of 7 days between applications. Do not apply within 14 days of harvest or illegal residues may occur. Note: This product will not control organophosphateresistant Leafminers.	

#### **MUSHROOM HOUSES**

Mushroom flies (Phorids and Sciarids)—Mix 4 to 5 pounds of this product in 50 gallons of water and spray on outside and inside walls, floors and sideboards of mushroom houses after compost has been pasteurized by heating. Also spray over the plastic covering the beds and trays after spawning. Note: Do not spray the compost. To avoid illegal residues, do not apply more than 3 applications to mushroom houses per crop.

#### SEED TREATMENT -- PLANTER BOX TREATMENT

In the planter box, mix with seed as a dry mixture. Stir slightly, using a mixing stick. DO NOT MIX WITH BARE HANDS. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seed beyond planting time. Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of excess treated seed by burial away from bodies of water. Notes: (1) If seed has not been treated with a fungicide, use an EPA-registered fungicide in combination with this product at rates indicated on the fungicide package. Failure to use a fungicide may result in injury to the seed. (2) If the seed treatment increases the friction between seeds sufficiently to reduce the rate of delivery through the planter, ½ ounce of graphite per bushel seed should be added as a drill lubricant. Adjust the planter to give the required rate of seed delivery with the treated seed. (3) Treated seed must not be used or mixed with food or animal feed or processed for oil.

CORN—Seedcorn beetle: Mix 3 ounces per bushel of seed.
CORN, SUCCULENT PEAS, SUCCULENT BEANS—Seedcorn maggot:
Mix ½ ounce per bushel of seed.

#### FIELD CROPS

#### REI - 24 Hours.

Apply soil and foliar applications of DIAZINON 50 WP in sufficient water to ensure thorough coverage for foliar applications. Observe stated time intervals between last application and harvest, as well as intervals between applications and total number of applications that can be made per season:

Сгор	PHI*
Hops	14
Sugar Beets	14

Field Crop	Pests Controlled	Rate
Hops	Aphids, Spider mites	2 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Apply Repeat applications, if necessary, in 14 more than 4 applications per season of days of harvest or illegal residues may	1 days. Do not make rapply within 14
Sugar Beets	Wireworms	6 to 8 lbs. per acre
	TIMING/SPECIAL DIRECTIONS: Broadcast just before planting and immediately incorporate into the top 4 to 6 inches of soil. Do not apply more than 8 lbs. of this product to the soil per season.	
	Aphids, Beet leafhoppers, Dipterous Leafminers	% to 1 lb. per acre
(Continued)	TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat application, as necessary, up to 5 times per season, with a minimum of 7 days between applications. Do not apply within 14 days of harvest.  Note: This product will not control organophosphate-resistant Leafminers.	

Field Crop	Pests Controlled	Rate
	Grasshoppers	1 lb. per acre
/ · · · · · · · · · · · · · · · · · · ·	TIMING/SPECIAL DIRECTIONS: Apply as insects occur. Repeat application, as necessary, up to 5 times per season, with a minimum of 7 days between applications. Do not apply within 14 days of harvest.	
Note: Sugar l	peet tops may be fed to beef and dairy	animals.

#### **GRASSLAND INSECTS**

Ditchbanks, Roadsides, Wasteland, Non-crop Areas, Barrier Strips—Grasshoppers: Apply % to 1 pound per acre in sufficient water or oil to obtain thorough coverage when insects first appear, preferably in the nymphal stage.

Do not graze or use treated grass for food or feed.

#### LIVESTOCK INSECTS

#### Sheep "Ticks (Keds), Lice

High gallonage, high pressure spray: Mix ½ pound in 100 gallons of water and apply at the rate of 1 gallon per animal.

Low gallonage, low pressure spray: Mix 1 pound in 100 gallons of water. Apply at the rate of 1 quart per animal.

Sprinkler Can: Mix 1 ounce in 6 gallons of water. Crowd sheep into a small pen and sprinkle 1 quart of this mixture over the head, neck, top and side of each sheep. Stir or agitate mixture frequently.

Note: Do not slaughter sheep within 14 days after treatment. Repeat applications as necessary.

#### FLY CONTROL IN LIVESTOCK STRUCTURES

Fly control in barns and animal sleeping quarters (except dairy barns, milk rooms and poultry houses).

Residual Sprays: Remove animals from buildings or corrals prior to treatment and keep animals out for at least 4 hours. Mix 2 pounds of this product in 25 gallons of water and apply as an overall spray to ceillings and walfs of livestock sheds, calf barns, hog barns, loafing sheds and other farm buildings, except poultry houses, dairy barns and milk rooms. Areas where flies congregate, such as garbage dumps and corrals, should be sprayed thoroughly. Longer residual control may be obtained by increasing the rate to 4 pounds in 25 gallons of water. Applications should be made to point of runoff. One (1) gallon of the above spray should cover from 350 to 750 square feet of area, depending on the surface treated. Repeat applications as fly populations warrant.

Bait Sprays: Mix the appropriate amount of this product with 1 pound of sugar (or 2 cups of syrup or molasses) for the desired application. For knapsack or similar type sprayer, mix ½ pound with the sugar in 2½ gallons of water and spot treat areas frequented by flies, including cracks, crevices, doorways, around windows or other areas where flies congregate. Repeat applications as tly populations warrant.

For sprinkling can application, mix 2 ounces with the sugar in 5 gallons of water and sprinkle lightly over the floor in areas frequented by flies. Applications every day or two will generally be required. Do not contaminate milk, feed, drinking water or apply to animals or poultry. Do not use in edible product areas of food processing plants or other areas where food is commercially prepared or processed. Do not use in dwellings.

#### INSECT CONTROL ON ORNAMENTALS

#### REI - 12 Hours.

To control certain insects on ornamentals, such as arborvitae, azalea, birch, boxwood, camellia, carnation, chrysanthemum, crab apple, dogwood, Douglas fir, elm, euonymus, gladioli, hawthorn, holly, honey locust, honeysuckte, juniper, lilac, lily, locust, mapte, marigold, oak, pansy, petunia, pine, ornamental plum, poplar, rhododendron, rose, scgtch pine, spirea, spruce, sycamore, was plant (hoya), willow, yellowwood and yew, apply the recommended rates indicated below. Try to spray underside of leaves and penetrate dense foliage. Repeat as necessary. Mimosa webworms: Mix ½ ounce in 3 gallons of water (or 1 pound 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.

	Amount of This Product	
insects	Rate per 3 Gals, Water	Rate per 100 Gals. Water
Aphids, Bagworms, Carnation bud mites, Carnation shoot mites, Clover mites, Cyclamen mites, Dipterous leafminers, European pine shoot moths, European red mites, Flea beetles, Holly bud moths, Juniper webworms, Leafhoppers, Obscure root weevits, Omnivorous leattiers, Privet mites, Scale crawlers (Cottonycushion, Lecanium, Pine needle, San Jose, Soft), Thrips, Two-spotted spider mites, Juniper webworms, Whiteflies	<b>⅓</b> 0Z.	1 lb.
Apple-and-Thorn skeletonizers, Cotoneaster webworms, European pine sawfly, Fall webworms, Hemlock chermes, Oak loopers, Obliquebanded leafroilers, Pear slugs. Tent caterpillars	1/2 1574	3 lbs.
	Note: Do not use on Ferns, Gardenia, Hibiscus, Papaya, Pilea and Poinsettia, since injury to the plants may occur.	

#### LAWN PEST CONTROL (Excluding Sod Farms and Golf Courses)

Precautions: Birds, especially waterflow, 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 treated area after treatment (except spot treatments), water lawn with at least ¼ inch of water immediately after application; however, stop irrigation before puddling occurs. To control pests listed below, apply specified rates.

	Rate per 1,000 sq. ft.		
Insects	This Product	Water	
Lawn chinch bugs	2 to 3 ozs.	3 gals.	
	REMARKS: Use higher rate for longer residual control and in turfgrass of dense growth, such as St. Augustine.		
Ants, Armyworms, Bermuda-	3 ozs.	3 gals.	
grass mites, Clover mites, Springtails (Collembola), Crickets, Cutworms, Digger wasps, Earwigs, Frit flies, Lawn billbugs, Leafhoppers, Sod Webworms (Lawn moths), Sowbugs (Pillbugs), Brown dog ticks, Chiggers, Fleas	REMARKS: Spot spray ant hills and wasp ground nest openings. For Digger wasps, apply product at dusk with wasps are not active. For Frit flies, mow grass and water well before treatment, but delay application until grass is dry. For Brown dog ticks, spray grass and under shrubbery.  Note: Do not apply to animals.		
Hyperodes weevils	3 ozs.	3 gals.	
	REMARKS: Treat problem areas in mid- April and again in mid-May.		
Millipedes	3 ozs.	3 gals.	
Rhodesgrass scales	3 ozs.	3 gals.	
	REMARKS: Apply when crawlers first emerge.		
White grubs (European chafer,	3 ozs.	3 gals.	
Japanese beetle larvae, Southern chafer)	REMARKS: Apply any time between late July and early October.		

#### **NUISANCE PESTS IN OUTSIDE AREAS**

	Rate per 1,000 sq. ft.	
Pests	This Product	Water
Ants, Boxelder bugs, Brown dog ticks, Chiggers, Clover	3 ozs.	3 gals.
mites, Cockroaches, Crickets, Earwigs, Fleas, Files, Milli- pedes, Sowbugs (Pillbugs), Spiders, Springtails (Collembola)	REMARKS: 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 these pests from entering thouse, spray a 5-ft, band of ground around the house next to the foundation and spray the foundation of the house a height of 2 to 3 ft. Repeat application as necessary.	

Note: Do not apply to animals. Do not apply to plants (except tree trunks as noted above) at this nuisance pest rate.

Fire ants	2 teaspoons	None	
		REMARKS: Evenly apply this product in its dry, undiluted state over each fire ant mound.	
	1 oz.	5 gals.	
	REMARKS: Apply 1 gal. of solution to each mound by sprinkling the mound and the immediate surrounding area until wet. Apply gently to avoid distributing ants.		

Note: For best results, apply in cool weather (60\*-80\*F), or in the early morning or late afternoon when the ants are most active. Treat new mounds as they appear.

#### STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: Pesticide wastes are toxic. To avoid harming aquatic organisms in rivers and other surface waters, do not pour spray mixture or rinse water into sanitary drains (for example; tollets, floor drains and sinks) or into storm water sewers (for example; street drains). Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If pesticide, spray mixture or rinsates cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then, dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and Local authorities, by burning. Stay out of smoke from burning container.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes.

#### 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.