34704	— 44° reverse before completina	4-26-		. OMB No. 207	0-0060. Approvel expires 2-28-8
≎EPA	Unite Environmental P	od States rotection Agency on, DC 20460		Registration Amendme Other	OPP Identifier Number
	Ap	plication for Pest	icide - Section	1	
. Company/Product Number		2. EF	A Product Meneger		3. Proposed Classification
34704- 44			McCann		None Restricted
Company/Product (Name		PM#		•	
Name and Address of Ap Pla.H e 419	oplicant (Include ZIP Code) Chemical C 18th St.	6 . (b)(i) to:	•	ilar or identical	with FIFRA Section 3(c)(3) I in composition and labeling
Check if thi	luz (080 is is whow address	Pro	duct Name		
		Section	- 18		
Amendment - Explai	n below. ponse to Agency letter dat	ed	Final printed label Agency letter dat "Me Too" Applice	ed	NOTIFICATION
Notification - Explain	a below.	۲	Other - Explain be	low.	APR 2 6 2002
"Notification	adding supp	lemental lab	al text.		
Totteration	adding supp	lemental lab			
Material This Product Wi	II Se Peckaged In:	Section -	- 110		
Meterial This Product Wi ild-Resistant Packaging	II Se Packaged In: Unit Packaging	Section -	- 110	2. Type of Con	etainer
Meterial This Product Wi	II Se Peckaged In:	Section -	- 110	M M	letal astic
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Material This Product Winder Resistant Packaging Yes No Certification must submitted Location of Net Contents Label Contact Point (Complete Impediately that the state I ecknowledge that ar	Unit Packaging Yes No H "Yes" Unit Packaging wgt. o Information Affixed to Product Items directly below for ideasy knowlingly false or misl	Section Water Soluble Yes No No Io. per If "Yes" Package wgt Size(a) Retail Container Lithograph Paper glued Stencifed Section Individual to Title Certification Is form and all attachments eading statement may be g	No. per pontainer S. Lo Other IV be contected, if necessary thereto are true, soon	cation of Label Conserve to process Telestrate and complemprisonment or	letal less less spor ther (Specify) Directions as this application.) sphere No. (Instrant Area Code) 549 - 5213 6. Date Application 'Received

NOTIFICATION

APR 2 6 2002

Notification of adding supplemental text to label per PR-Notice 98-10.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Glenda Haage, Registration Mgr.

april 18, 2002



CARBARYL 4

Insecticide

NOTIFICATION

APR 2 6 2002

For Agricultural And Commercial Use Only N-Methyl Carbamate Insecticide

ACTIVE INGREDIENT: Carberyl (1-naphthyl N-methylcarbamate) 43.0% INERT INGREDIENTS 57.0% otal 100.0% Total

KEEP OUT OF REACH OF CHILDREN CAUTION

EPA REG NO. 34704-447 EPA EST. NO.

NET CONTENTS

_GALS. (_____ KG)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION
MAY BE HARMFUL IF SWALLOWED. Avoid breathing of spray mist. Do not take internally. Avoid contact with skin, eyes and clothing. Do not use this product in food areas of commercial food-handling establishments, restaurants or other places where food is prepared or processed

ersonal Protective Equipment:

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves and shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statement:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with 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:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the out side of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center immediately. Give victim 1 or 2 glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF IN EYES: Flush eyes with plenty of water. If irritation persists, get med-

IF ON SKIN: Wash skin with soap and water.

IF INHALED: Remove victim to fresh air. Apply artificial respiration if

NOTE FOR PHYSICIAN: Carbaryl is a moderate, reversible, cholinesterase inhibitor. Atropine is antidotal. Do not use 2-PAM opiates, or cholinesterase-inhibiting drugs. FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-228-6635, EXT. 136, OR CALL COLLECT, 612-852-8180, EXT. 136.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic and estuarine invertebrates. For

terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Discharge from rice fields may kill aquatic and estuarine invertebrates. Do not contaminate water by cleaning equipment or disposal of wash waters.

BEE CAUTION

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

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, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notifi-cation, and emergency assistance. It also contains specific instruccation, and emergency assistance. It also contains specific instruc-tions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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 green-

The area being treated must be vacated by unprotected persons.

Keep unprotected persons out of treated areas until sprays have dried.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function property.

STORAGE: Store in a safe manner. Store in original container only. Store in cool, dry place. Keep container tightly closed when not in u.x. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with

strength. Personnel should use clothing and equipment consistent with good pesticide handling.

PESTICIDE DISPOSAL: Wastes resulting from the use of this pruduct may be disposed of on site or at an approved waste disposal isbailey.

CONTAINMER DISPOSAL: METAL: Triple rinse for equivalent). Then offer for recycling or reconditioning, or punctum and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities: PLASTIC: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by, but reconditioning, or puncture and local authorities, by, but reconditioning or puncture and local authorities. ing. If burned, stay out of smoke.

GENERAL INFORMATION

This product is a suspension of a microfine carbaryl insecticide in an aqueous medium. It is dispersible in water and may be applied by ground or air.

PREPARATION OF SPRAY

Before using, agitate, stir or recirculate product in container to assure product uniformity. Be certain mix tanks and entire spray system are clean and free from foreign matter. Flush with clean water. Fill tank ½ to ¾ with desired amount of water. Begin agitating tank and slowly add the required amount of this product. Add the remaining volume of water. Continually agitate spray during mixing and application to assure a uniform suspension. Do not store spray mix for prolonged periods. Prepare only as much spray mix as can be applied on the day of mixing.

PRODUCT COMPATIBILITY

When diluted with an equal volume of water, this product may be tank mixed with a wide range of pesticides. If compatibility with another product and the resulting crop response are unknown, the combination should be tested on a small scale. Do not mix this product with diesel fuel, kerosene, fuel oil or aromatic solvents.

When tank mixing, first add this product to at least an equal volume of water, mix thoroughly, and then add combination products. Do not apply this product in a tank mix unless previous experience indicates that the mixture is effective and will not result in application problems, excessive residues, or plant injury. Observe all precautions and limitations on labeling of all products used in mixtures.

This product is unstable under highly alkaline conditions and is not effective if used with alkaline materials such as Bordeaux, time-sulfur and casein-lime spreaders.

APPLICATION

For all applications, use sufficient spray volume to obtain thorough and uniform coverage. Calibrate spray equipment to deliver the required volume. Use 50 mesh strainers in spray system and 25 mesh slotted strainers behind nozzles.

To clean spry system after use, drain and flush with a water and detergent mixture. Rinse thoroughly with clean water. Refer to the storage and Disposal section for disposal instructions.

Note: Staining may occur on certain surfaces such a stucco, brick, cinder block, and wood. Spray deposits on painted or strained surfaces or finishes (i.e., cars, houses, traiters, boats, etc.) should be immediately removed by washing to prevent discoloration. Avoid applications to surfaces where visible spray residues are objectionable. Ground Application

Apply in sufficient volume for adequate coverage on all crops and sites. To prepare small volumes of spray mixture, use % ft. oz. (approximately 2 teaspoons) of this product in an adequate amount of water and apply to 500sq.ft. where rates of 1 quart per acre are indicated.

Aerial Application

For adequate distribution, use at least 10 gallons of spray mixture per acre for application for tree and orchard crops or at least 2 gallons of spray mixture per acre for application to other crops.

APPLICATION THROUGH IRRIGATION SYSTEMS-CHEMIGATION

Apply this product only through sprinkler, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin); furrow; border; or drip (trickle) imgation system(s). Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform 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 an irrigation system (including greenhouse systems) 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 should the need arise.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note: Ptatte Chemical Company does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

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 requilarly serves an average of at least 25 individuals daily at least 60 days out of the year.

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.

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 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, or in cases where there is no water pump, 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., disphragm pump) effectively designed and constructed of material 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.

SPRINKLER CHEMIGATION

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 pump and consected 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 posticide 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.

Mix in clean supply tank the recommended amount of this product for acreage to be covered, and needed quantity of water.

This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use.

Follow precautionary statements and directions for all tank-mix products.

On all crops, use sufficient gationage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will vary depending on equipment, peet problem and stage of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or illegal pesticide residues.

Meter this product into the irrigation water uniformly during the period of operation.

Do not overlap application. Follow recommended label rates, application timing, and other directions and precautions for crop being treated.

Provide constant mechanical agitation in supply tank to keep this product suspended throughout application operations.

Resistant Species

All references to armyworm on the crops listed below refer to the species, Pseudaletia unipuncta. Except where indicated otherwise, this product is not registered for the control of other armyworm species. Regional differences have been noted in the succeptibility of certain strains of fall armyworm, diamondback moth, Colorado potato beetle and Southern green stink bug to carbary! **'ccal experience indicates inadequate control, use an alternative pesticide.

CAUTIONS AND RESTRICTIONS

Carbaryl 41 insecticide is a suspension of microfine brand carbaryl meedicide in an aqueous medium. It readily dispenses in water to form a spray which may be applied by air or ground.

PLANT RESPONSE PRECAUTIONS

Application to wet foliage or during periods on high numidity may cause injury to tender toliage. Do not use on Boston by, Virginia emeper and mindenhair fem as injury may result. Carbanyl may also injure Virginia and sand pines. The use of adjuvants may increase the potential for crop injury to sensitive crops.

PREHARVEST AND GRAZING RESTRICTIONS AND LIMITATIONS

Tolerances established under the Federal Food, Drug and Cosmetic Act permit the sale of labeled crops bearing probable carbaryl residues when this product is used in accordance with the label directions. If used as directed, treated forage may be grazed or used as feed for dairy and meat animals without causing illegal residues in meat or milk. Do not apply at greater rates or at more frequent intervals than stated on the label. To do so may result in illegal residues in crops, meat, and milk.

Do not use reclaimed irrigation water from crops treated with carbaryl or crops for which carbaryl tolerances are not established.

Do not plant rotational food and feed crops not listed on this or other carbaryl labels in carbaryl treated soil.

FRUIT, VEGETABLE, GRAIN CROPS, & TOBACCO

Begin application when insect populations reach recognized economic threshold levels. Consult the Cooperative Extension Service, or other qualified authorities to determine appropriate threshold levels for treatment and specific use information in your area. Where a dosage range is indicated, use the lower rate on light to moderate infestations, young plants and early instars and use the higher rate on heavy infestations, mature plants, advanced instars and adults. Thorough and uniform spray coverage is essential for effective control.

QTS. OF THIS

CROP	INSECT	PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Asparagus	Asparagus beetle, cutworms, Apache cicada	1 to 2	Repeat applications as necessary up to a total of 3 times prior to harvest or a total of 5 times per crop but not more often than once every 3 days.
			For cutworm control, this product is most effective against species which feed on the upper portions of the plant.
		2 to 4	Application to ferne or brush growth following harvest of spears: Repeat applications as necessary but not more other than every 7 days. Do not make more than a total of 5 applications per year to spears and ferns combined.
. Do not apply m	ore than a total of 6 quari ore than a total of 10 qua thin 1 day of harvest.		
Broccoli. Brussels Sprouts, Caulillower.	Flea beetles. Harlequin bug, Leathoppers.	½ to 1	Repeat applications as needed up to a total of 4 times but not more often than once every 7 days.
Cabbage, Chinese Cabbage, Collards, Kale, Kohlrabi, Mustard Greens	Armyworm, Aster Learhopper, Corn earworm, Diamond- back moth, Fall armyworm, Imported cabbageworm, Lygus bugs, Spittlebugs, Stirk bugs, Tamished plant bug	1 to 2	Do not apply more than a total of 6 quarts per acre per crop.

- Dent Dual
 Diagram
 Do not apply more than a total of 6 quarts per acre per crop.
 For Chinese Cabbage, Collards, Kele, and Mustard Greens, do not apply within 14 days of harvest.
 For Broccoli, Brussals Sprouts, Cabbage, Cauliflower, and Kohirabi, do not apply within 3 days.
- of harvest. Carrots, Parsnips, Repeat applications as necessary up to a total of 8 times but not more Flee beetles, Leaf 1/2 to 1 Garden Beets, noppers Horseradish. often than once every 7 days. 1 to 2 Rutabagas leafhooper, Colorado potato beatle, Corn For cutworm control, this product is earworm, Cutworms most effective against species which feed on the upper portions of the plant. European com borer Fall armyworm, Lace bugs, Lygus bugs. Spittlebugs, Stink bugs, Tarnished plant bug

Do not apply within 7 days of harvest.				
Cucumber. Malons. Pumpkins.	Pickleworm, Melonworm	12 to 1	Repeat applications as necessary up to a total of 6 times but not more often than once every 7 days.	
Squash	Cucumber beetles, Flea beetles, Leaf- hoppers, Squash bugs	1	For optimum control of squash bugs, apply sufficient spray volume for thorough coverage and time sprays for early morning or late afternoon.	

- . Do not apply more than a total of 6 quarts per scre per crop.
- erve plant response precautions
- Do not apply within 3 days of harvest

		PRODUCT/	
CROP	INSECT	ACRE	SPECIFIC DIRECTIONS
Celery, Dandellon.	Hea beetles.	⅓-to1	Repeat applications as necessary up to a total of 5 times but not more
Endive, Lettuce	Hariequin bug,		
(head and leaf), Pareley, Spinach,	Leathoppers		often than once every 7 days.
Pansway, Spinwon, Swiss Chard	Armyworm, Aster	1 to 2	1
	leafhopper, Corn		
	earworm, Fall army-	,	1
	worm, Imported		
	cabbageworm.]	
	Lyous bugs, Spittle		
	bugs, Stink bugs,	İ	
	Tarnished plant bug		1
	e than a total of 6 quar	s per acre per	crop,
	in 14 days of harvest		
Legume	Bean leaf beatle,	1/2 to 1	Repeat applications as necessary
Vegetables:	Blister beetle,		up to a total of 4 times but not more
	Cucumber beetles.		often than once every 7 days.
Soybeans, Fresh	Grape colapsis.	ł	Ì
and Dried Beans	Green cloverworm,	l	For cutworm control, this product is
(including snap,	Japanese beetle.		most effective against species which
navy and kidney)	Maxican bean	1	feed on the upper portions of the
	beetle, Velvelbean	i	plant.
Fresh and Dried	caterp#lar	ľ	
Peas,			Use lower rates for light to moderat
	Corn earworm	1/2 to 11/2	populations and smaller instars and
Lentils, Cowpeas,			provide maximum survival of
Southern Peas	Alfalfa caterpiller,	1	beneficial insects and spiders. Use
	Colorado potatoto		the higher rates for heavy
Do not use on	beetle, Flea beetles,		populations and larger instars.
lentils in	Leafhoppers, Three		_
California	comered alfalfa	1	
	hopper, Thrips,	1	
	Western bean		
	culworm		1
	,		4
	Armyworm, Cutworms.	1 to 11/2	į.
	European corn borer,	l	
	Fall armyworm	l	
	Stink bugs,	1	
	Tamished plant bug.		
	Webworms		
	Alfalia looper	11/6	
	(suppression),		!
	Cowpea curculio	•	1
	(suppression),		1
	Painted lady (Thistle		İ
	caterpillar), Pen lenf		1

QTB. OF THIS

bugs (suppression) (suppression)

veevil. Pen weevil Saltmarsh caterpillar Woollybean cater pillar, Yellow-striped

California onfo

Com earworm (suppression), Lima been podborer (suppression), Lygus

Do not apply more than a total of 8 quarts per acre per crop.
 Do not apply a combination of this product and 2.4-DB herbicides to soybeans as crop injury may result.

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- Observe plant reaponse precautions.
- Do not apply within 14 days of grazing or harvest for forage or within 3 days of harvest of freeh beans or peas or within 21 days of harvest of died beans or peas grazing or have

	TIGET DEGITS OF POOR OF WILLIAM LE COPYS OF THE VALUE OF PROS. 5000, O' 1035			
Olivea	Scale insects		Up to 2 applications per crop may be	
	(olive scale, black		made but not more often than once	
	scale)		every 14 days.	
 Do not apply mo 	re than a total of 15 quar	ts per acre per	стор.	

	e than a total of 15 quat in 14 days of harvest.	ts per acre pe	ет стор.
Tomato, Eggplant, Pepper		1 to 2	Repeat applications as necessary up to a total of 7 times but not more often than once every 7 days. Thorough coverage is essential to effectively suppress stink bugs. When disease transmission is suspected, monitor fields following application and retreat it reintestation occurs but not more often than once
	Flea beetles, Leaf- hoppers	1/2 to 1	every 7 days. For cutworm control, this product is
	Cutworms	2	most effective against species which feed on the upper; c ti r; of the plant.

. Do not apply more than a total of 8 quarts per crop.

Do not apply within 3 days of harvest.

		OTS. OF THIS	
CROP	INSECT	PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Field corn, Popcorn	Armyworm, Chinch bugs, Corn earworm,	1 to 2	OBSERVE BEE CAUTION.
гороон	Corn rootworm adults.	,	Repeat applications as needed up to
	European corn borer,	}	a total of 4 times but not more often
	Fall armyworm, Flea beetles, Japanese	İ	than once every 14 days.
	beete. Sap beetles,	Į	Optimum liming and good coverage
	Southwestern corn borer, Leafhoppers	ŀ	are essential for effective control.
	European com borer	1% to 2	For optimum chinch bug control, use
	<u> </u>		ground equipment to apply at least 20 gallons of water per acre and
	Culworms, Western bean cutworms	2	direct spray toward stalk to provide thorough coverage.
	, and a second		1.
			for optimum European corn borer control, do not apply in less than 3
			gallons of water per acre by air and 15 gallons of water by ground.
			For western bean culworm, treat
	}		when infestation averages 15% and
			at 90% to 100% tassel emergence. Treatment after 100% silk emer-
			gence will reduce effectiveness.
			For optimum cutworm control, apply
	1	}	In a 12-inch band, over the row,
	[using sufficient volume of water to obtain thorough coverage. For
			broadcast application, use at least
	İ		20 gallons by ground or 5 gallons by air per acre.
			For cutworm control, this product is
			most effective against species which
	ļ		feed on the upper portions of the
Do not apply mor	e than a total of 8 quart	s per acre per	crop. Jer or within 14 days of harvest or
grazing of forage	or siace.		
lax	Annyworm	1 to 11/2	Up to 2 applications per crop may be made but not more often than once
lo not use in California	ŀ		in every 14 days.
Do not apply mon	than a total of 3 quarts		
Do not apply with Insin sorghums	in 42 days of harvest for Armyworms, Chinch	sand or straw	Repeat applications as necessary up
- I a a a a a a a a a a a a a a a a a a	bugs, Corn sarworm.	. ,52	to a total of 4 times but not more
	Fall armyworm, Slink bugs, Webworms		often than once every 7 days.
			Direct spray into forming heads for
	Southweatern corn borer	11/2	optimum control of insects attacking heads.
	Cutworms	2	For aptimum chinch bug control, use
	out.noa	_	high gallonage ground application at
	1		the base of plants.
	,		For cutworm control, this product is
		,	most effective against species which feed on the upper portions of the
No not analy man	e than a total of 6 quarts	Dev Dove dov	piant.
Do not apply with	in 21 days of harvest for	grain or todde	er or within 14 days of harvest or
orazino of forace. Yeanula	Blister beetles,	% to 1	Repeat applications as necessary up
	Mexican been beets	'	to a total of 5 times but not more
	Alfalia caterpillar,	1	often than once every 7 days.
	Bean leaf beetle, Cucumber beetles.		For optimum control of thrips, use directed or banded sprays with
	Green doverworm.		hollow cone spray nozzles. Ensure
	Japanese beetle,	ĺ	adequate coverage for the underside
	Leafhoppers, Red-		of feaves.
	necked peanut worm. Three cornered alfalfa		
	hopper, Thrips, Velvet	· ·	
	hean caternillar	1 to 11/2	For cutworm control, this product is
	Armyworm, Corn ear- worm, Fall armyworm,	, m 1,12	most affective against species which
	Stink bugs, Webworms		feed on the upper portions of the
	Whitefringed beatle	2	plant.
Do not cool	adults, Culworms		
	e than a total of B quarte ponse precautions.	per acre per	ы ор.
Do not apply with	in 14 days of harvest.	1 to 11/2	Un to 3 applications are area or the
lice	Armyworm, Chinch bugs, Fall armyworm,	10 172	Up to 2 applications per crop may be made but not more often than once
	Learhoppers, Stink		every 7 days.
	bugs		
	Tadpole shrimp	11/2	Galifornia only:
			For optimum tadpole shrimp control,
]		apply to water when pest first appears.
Do not speck man	than a total of 4 overte		

	of 4 quarts per acre	

CALITION: May kill shrimp, crabs and crayfish.
 Do not apply proparili herbicides within 15 days before or after application of this product or plant injury will result.
 Do not apply within 14 days of harvest for grain or straw.

CROP	INSECT	QTS. OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
GROP Small Fruks and Berries: Caneberries, Blueberries, Cranberries, Grapes, Strawberries	European fruit lecanium, European fruit lecanium, European raspberry aphid, Flea beefles, Grape leaf folder, Grape leaf folder, Grape leaf roller, Japanese beefle, Leafmoppers, Leafmoppers, Meadow spitflebug, Omnivorous leaffiler, Rose chafer, Snowy tree cricket, Strawberry bud weevil, Strawberry bud weevil, Strawberry fruitworm, Strawberry fruitworm, Strawberry leaffolder, Strawberry weevil, Western grape leaf skeletonizer, Western yellowstriped armyworm	1 to 2	OBSERVE BEE CAUTION Repeat applications as necessary up to a total of 5 times but not more often than once every 7 days. For cutworm control, this product is most effective against species which feed on the upper portions of the plant. In grapes for grape featfolder control, apply before first brood farvae emerge from rolls. In grapes, do not concentrate spray on the bunch or visible residues may resulft.
	Blueberry maggot, Cherry fruitworm, Cranberry fireworm, Cranberry fruitworms, Cranberry twig girdler, Elm spanworm, Gypsy moth, Spaganothus worm, Tarnished plant bug	1% to 2	0
	Eight-spotted forester. Cutworms, Greepe berry moth, June beetes, Omnivorous leafroller, Orange torthix, Raspberry multworm, Raspberry sawfly, Redbanded leafroller, Saltmarsh catlerollar.	2	

. CAUTION: Use in cranberries may kill shrimp and crabs. Do not use in areas where these are

Carbaryl may injure Early Dawn and Sunrise varieties of strawberries.

 Do not apply w 	thin 7 days of harvest.		
Sugar beets	Armyworm, Beet leaf beetle, Fall armyworm, Flea beetles, Leaf hoppers, Webworms	1 to 11/1	Repeat applications as necessary up to a total of 2 times but not more often then once every 14 days. For cutworm control, this product is
	Cutworms	11/2	most effective against species which feed on the upper portions of the plant.

. Do not apply more than a total of 3 quarts per acre per crop. Do not apply more than a lotte of 3 quarts per acre per
 Do not apply within 28 days of harvest for roots or forse
 Sumflower Stem weevs, 1 to 1's
 Sumflower beatte
 Do not use in California. Falt armyworm, Sunflower moth Up to 2 applications may be made but not more often than once every 7 days.

For cutworm control, this product is most effective against species which feed on the upper portions of the plant. Do not apply more than a total of 3 quarts per acre per crop.
 Do not apply within 30 days of grazing or harvest for forage or within 60 days of harvest for speed.

Sweet Corn
 Armyworm, Chinch bugs, Corn enveryorm, Corn rootworm adults, Fall armyworm, Flea beetless, Japanese

Control of 8 times but not more often than once every 3 days.

Ottower times and countries

beetles, Japanese beetle, Sap beetles, Southwestern com Optimum timing and good coverage are essential for effective control. For insects attacking silks and sens, insecticide sprays should be applied starting when first silks appear and continuing until silks begin to dry. During silking, the minimum retreatment interval (3 days) may not provide adequate levels of protection under conditions of rapid growth or severe peet pressure. The use of an atternative product should be considered in conjunction with this product. borer, Leathoppers 1% to 2 European com borer Western bean cutworm, Cutworms

For optimum Uninoh bug control, use ground equipment to apply at least 20 gallons of water per are and direct spray toward stalk to provide thorough coversor

For optimum European comboner control, do not apply in less than 3 gallons of water per ac. e by air and 15 gallons of water by ground.

For western bean cutworm, treat when infestation average 15% and at 90% to 100% tasset emergence.

		PRODUCT/	
CROP	INSECT	ACRE	SPECIFIC DESCRIONS
Sweet Com	Macui	AGAIG	SPECIFIC DIRECTIONS Freelment after 100% sik emer-
cont'd.	{	}	gence will reduce effectiveness.
	ŀ		1-
	ı		For optimum cutworm control, soph in a 12-inch band, over the row.
	ı	ļ	using sufficient volume of water to
		Į.	obtain thorough coverage.
		ĺ	I
	1		For broadcast application, use at
	į		least 20 gallons by ground or 5 gallons by air per scre.
	ł	:	For cutworm control, this product is
		į.	most effective against species which
	İ	i	feed on the upper portions of the
			plant
	ore than a total of 16 quar		
		sars, within 14	days of harvest or grazing of forage,
or within 48 day	re of harvest of fodder. ICom earworm.	1 to 2	I Breadent design control of count
THOSE PURINGS	Cucumber beetles.	1	Preplant dip for control of sweet potato weevil: Just prior to planting
	Flee beetles, Sweet	{	dip sweet potato cuttinos in a
	potato homworm,	ł	suspension containing 2 gallons of
	Sweet potato weevil.	ļ	this product in 100 gallons of water
	Whitefringed beetle,		(2.6 fluid ounces per gallon of
	Tortoise besties		water).
	Yellowstriped army-	2	For foliar sprays, repeat application
		_	
		1 .	
	worm		
	worm		but not more often than once every 7 days.
Do not apply m	worm ore than a total of 8 quart ore than a total of 1.2 qua	s per acre per e	but not more often than once every 7 days. crop with in-season sprays.
Do not apply m Do not apply w	worm ore than a total of 8 quart ore than a total of 1.2 qua ithin 7 days of harvest.	rts per acre as	but not more often than once every 7 days. or on with in-eason sprays. a preplant dip treatment.
Do not apply m Do not apply w	worm ore than a total of 8 quart ore than a total of 1.2 qua thin 7 days of harvest. [Budworms, Fall army-	s per acre per orts per acre as	but not more often than once every 7 days. crop with in-seeson spreys.
Do not apply m Do not apply w	worm ore than a total of 8 quart ore than a total of 1.2 qua ithin 7 days of harvest.	rts per acre as	but not more often than once every 7 days. 7 days. rop with in-season sprays. a preplant dip treatment. Plant bed and Field Treatment
Do not apply m Do not apply w	worm ore than a total of 8 quert ore than a total of 1.2 qua thin 7 days of harvest Budworms, Fall army- worm, Tobacco fies beetles, Horrworms,	rts per acre as	but not more often than once every 7 days. Top with in-eesson sprays. a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up
Do not apply m Do not apply w	worm ore than a total of 8 quart ore than a total of 1.2 qua thin 7 days of harvest. Budworms, Fall army- worm, Tobacco fise	rts per acre as	crop with in-season sprays. a preplant dip treatment.
Do not apply m Do not apply w	worm ore than a total of 8 quert ore than a total of 1.2 qua thin 7 days of hannes. Budworms, Fall army- worm, Tobacco flea beelles, Hornworms, Japanese beetle,	rts per acre as	but not more often than once every 7 days. To with in-season sprays, a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but not more often than once every 7 days.
Do not apply m Do not apply w	worm ore than a total of 8 quert ore than a total of 1.2 qua thin 7 days of hannes. Budworms, Fall army- worm, Tobacco flea beelles, Hornworms, Japanese beetle,	rts per acre as	but not more often than once every 7 days. 7 days. 7 days. a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but no more often than once every 7 days. Use lower rate on young plants (up to the control of the contro
Do not apply m Do not apply w	worm ore than a total of 8 quert ore than a total of 1.2 qua thin 7 days of hannes. Budworms, Fall army- worm, Tobacco flea beelles, Hornworms, Japanese beetle,	rts per acre as	but not more often than once every 7 days. Top with in-season sprays, a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but no more often than once every 7 days. Use lower rate on young plants (up i knee height). Use at least 10 gallors.
Do not apply m Do not apply w	worm ore than a total of 8 quert ore than a total of 1.2 qua thin 7 days of hannes. Budworms, Fall army- worm, Tobacco flea beelles, Hornworms, Japanese beetle,	rts per acre as	but not more often than once every 7 days. 7 days. 7 days. 7 days. 8 preplant dip treatment. Plant bed and Field Treatment Repeat treatmente as necessary up to a total of 4 times per crop but no more often than once every 7 days. Use lower rate on young plants (up knee height). Use at least 10 gallor of prepared apray per acre. Begin
Do not apply m Do not acoby w obacco	worm ore than a total of 8 quert ore than a total of 1.2 qua thin 7 days of hannes. Budworms, Fall army- worm, Tobacco flea beelles, Hornworms, Japanese beetle,	rts per acre as	but not more often than once every 7 days. Top with in-season sprays, a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but no more often than once every 7 days. Use lower rate on young plants (up knee height). Use at least 10 gallor of prepared apray per acre. Begin freatments are small, are similar when worms are small.
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Do not apply m Do not apply w Observe plant Tobacco may be	worm ore than a total of 8 quart ore than a total of 1.2 qua thin 7 days of harvest. Budworms, Fall army- worm, Tobacco fies beetles, Horrworms, Japanese beetle, June beetle, Suckfly ore than a total of 8 quart es harvested on the day of	ts per acre as	but not more often than once every 7 days. Top with in-season sprays, a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but no more often than once every 7 days. Use lower rate on young plants (up times height). Use at least 10 gallor of prepared spray per acre. Begin treatments when worms are small, crop.
Do not apply m Do not apply w Obacco Do not apply m Observe plant r Tobacco may be Mheet.	worm ore than a total of 8 quart ore than a total of 1.2 qua- titin 7 devs of harvest. Buckworms, Fall army- worm. Tobacco flea beelles, Horrworms, Japanese beelle, June beetle, Suckfly one than a total of 8 quart seponse precautions. In arvested on the day of Tibea beetles.	s per acre per creatment.	but not more often than once every 7 days. 7 days. 2 days. 2 preplant dip treatment. Plant bed and Field Treatment. Plant bed and Field Treatment. Repeat treatments as necessary up to a total of 4 times per crop but no more often than once every 7 days. Use lower rate on young plants (up iknee height). Use at least 10 gallor of prepared apray per acre. Begin treatments when worms are small. 2 prop. Up to 2 applications per crop may be
Do not apply m Do not apply w Obacco Do not apply m Observe plant r Tobacco may be Mheet.	worm ore than a total of 8 quart ore than a total of 1.2 qua thin 7 days of harvest. Budworms, Fall army- worm, Tobacco fies beetles, Horrworms, Japanese beetle, June beetle, Suckfly ore than a total of 8 quart es harvested on the day of	ts per acre as	but not more often than once every 7 days. Top with in-season aprays, a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but not more often than once every 7 days. Use lower rate on young plants (up ince heigh). Use at least 10 gallor of prepared apray per acre. Begin treatments when worms are small, crop. Up to 2 applications per crop may be made but not more often than once
Do not apply m Do not apply m Observe plant r Tobacco may be Wheat, Proso Millet	worm ore than a total of 8 quart ore than a total of 1.2 qua thin 7 days of harvest. Budworms, Fall army- worm, Tobecco fies beetles, Hornworms, Japanese beetle, June beetle, Suckfly ore than a total of 8 quart esponse preceutions. a parested on the day of Fies bestles Cereal lest beetle	s per acre per creatment.	but not more often than once every 7 days. a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but not more often than once every 7 days. Use lower rate on young plants (upon knee height). Use at least 10 gallon of prepared apray per acre. Begin treatments when worms are small, crop. Up to 2 applications per crop may be
Do not apply m Do not apply m Observe plant r Tobsero may be Wheel, Proso Millet Do not use in	worm ore than a total of 8 quart ore than a total of 1.2 qua- titin 7 devs of harvest. Buckworms, Fall army- worm. Tobacco flea beelles, Horrworms, Japanese beelle, June beetle, Suckfly one than a total of 8 quart seponse precautions. In arvested on the day of Tibea beetles.	s per acre per creatment	but not more often than once every 7 days. 7 days. 7 days. 7 days. 8 preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but no more often than once every 7 days. Use lower rate on young plants (up knee height). Use at least 10 gallor freatments when worms are small. I've to 2 applications per crop may be made but not more often than once every 14 days.
Do not apply m Do not apply m Observe plant r Tobsero may be Wheel, Proso Millet Do not use in	worm ore than a total of 8 quart ore than a total of 1.2 qua thin 7 days of harvest. Buckworms, Fall army- worm. Tobacco fise beelles, Horrworms, Japanese beelle, June beetle, Suckfly ore than a total of 8 quart esponse precautions. a harvested on the day of Elsa beelles (Armyworm, Fall	s per acre per creatment	but not more often than once every 7 days. 7 days. 2 preplant dip treatment. Plant bed and Field Treatment. Plant bed and Field Treatment. Repeat treatments as necessary up to a total of 4 times per crop but no more often than once every 7 days. Use lower rate on young plants (up times height). Use at least 10 gallor of prepared apray per acre. Begin treatments when worms are small, prop. Up to 2 applications per crop may be made but not more often than once every 14 days. Application is effective against eggs larvae, and adults of the cereel leaf
Do not apply m Do not apply m Obacco Do not apply m Obacco Do not apply m Obacco may be Mheat. Proso Millet Do not use in	worm ore than a total of 8 quart ore than a total of 1.2 qua thin 7 days of harvest. Buckworms, Fall army- worm. Tobacco fise beelles, Horrworms, Japanese beelle, June beetle, Suckfly ore than a total of 8 quart esponse precautions. a harvested on the day of Elsa beelles (Armyworm, Fall	s per acre per creatment	but not more often than once every 7 days. Top with in-season sprays, a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but no more often than once every 7 days. Use lower rate on young plants (up to the height). Use at least 10 gallor of prepared spray per acre. Begin treatments when worms are small, rop. Up to 2 applications per crop may be made but not more often than once every 14 days. Application is effective against eggs.
Do not apply m Do not apply m Obacco Do not apply m Obacco Do not apply m Obacco may be Mheat. Proso Millet Do not use in	worm ore than a total of 8 quart ore than a total of 1.2 qua thin 7 days of harvest. Buckworms, Fall army- worm. Tobacco fise beelles, Horrworms, Japanese beelle, June beetle, Suckfly ore than a total of 8 quart esponse precautions. a harvested on the day of Elsa beelles (Armyworm, Fall	s per acre per creatment	but not more often than once every 7 days. Top with in-season sprays, a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but no more often than once every 7 days. Use lower rate on young plants (up) knee height). Use at least 10 gallor of prepared apray per acre. Begin treatments when worms are small, crop. Up to 2 applications per crop may be made but not more often than once every 14 days. Application is effective against eggs larves, and adults of the cereal leaf beetle.
Do not apply m Do not apply m Do not apply m Do not apply m Observe plant r Tobacco may be Mhest. Proso Millet Do not use in	worm ore than a total of 8 quart ore than a total of 1.2 qua thin 7 days of harvest. Buckworms, Fall army- worm. Tobacco fise beelles, Horrworms, Japanese beelle, June beetle, Suckfly ore than a total of 8 quart esponse precautions. a harvested on the day of Elsa beelles (Armyworm, Fall	s per acre per creatment	but not more often than once every 7 days. Top with in-season aprays, a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but no more often than once every 7 days. Use lower rate on young plants (up knee height). Use at least 10 gallor of prepared apray per acre. Begin treatments when worms are small, rop. Up to 2 applications per crop may be made but not more often than once every 14 days. Application is effective against eggs larvae, and adults of the cereel leaf beefle. Application for armyworm control
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Do not apply m Do not apply m Do not apply m Do not apply m Observe plant r Tobacco may be Mhest. Proso Millet Do not use in	worm ore than a total of 8 quart ore than a total of 1.2 qua thin 7 days of harvest. Buckworms, Fall army- worm. Tobacco fise beelles, Horrworms, Japanese beelle, June beetle, Suckfly ore than a total of 8 quart esponse precautions. a harvested on the day of Elsa beelles (Armyworm, Fall	s per acre per creatment	but not more often than once every 7 days. Top with in-season sprays, a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but not more often than once every 7 days. Use lower rate on young plants (up to knoe height). Use at least 10 gallon of prepand apray per acre. Begin treatments when worms are small, prop. Up to 2 applications per crop may be made but not more often than once every 14 days. Application is effective against eggs larvas, and adults of the cereal leaf beetle. Application for armyworm control should be made when armyworms are actively feeding on the upper foliage and night emperature and ne expected to drop below \$5°F. If application for prefer \$5°F. If application for prefer \$5°F. If application to drop below \$5°F. If
Do not apply m Do not apply m Do not apply m Do not apply m Observe plant r Tobacco may be Mhest. Proso Millet Do not use in	worm ore than a total of 8 quart ore than a total of 1.2 qua thin 7 days of harvest. Buckworms, Fall army- worm. Tobacco fise beelles, Horrworms, Japanese beelle, June beetle, Suckfly ore than a total of 8 quart esponse precautions. a harvested on the day of Elsa beelles (Armyworm, Fall	s per acre per creatment	but not more often than once every 7 days. Top with in-season aprays, a preplant dip treatment. Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop but not more often than once every 7 days. Use lower rate on young plants (up times height). Use at least 10 gallor of prepared apray per acrs. Begin treatments when worms are small, crop. Up to 2 applications per crop may be made but not more often than once every 14 days. Application is effective against eggs larvae, and adults of the cereal leaf beetle. Application for armyworm control should be made when armyworms are actively feeding on the upper foliage and night temperature and night temperature and night temperature and night temperature and reconstructions.

Do not apply within 21 days of harvest for grain or straw or within 7 days of harvest or grazing

TREE FRUIT AND NUT CROPS

For all tree fruit and nut crops, apply in sufficient volume for adequate coverage. This will vary depending on the pest and its severity, the tree conditions, size, density, and other factors.

CROP	QTS. OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
APPLES ONLY For Fruit Thinning	1 to 3	Apply 1 to 3 quarts per acre. Use higher rates on difficult to thin varieties and lower rates on easy to thin varieties.
		Apply to applies between 90% petal fall and up to 18mm fruit size. Use sufficient water volume to sensure through coverage. Avoid spraying to runoff. Direct spray volume to upper ½ of tree canopy and reduce spray coverage to lower ½ of tree canopy or possible over-thinning may occur. Tree age, variety, nutrition, previous crop, pruning, bloom, and degree of set Influence fruit thinning results. Exercise caution to avoid possible over thinning. Avoid application when temperatures exceed 85°F. Consult with your County Extension Service or other experts for activity on the proper use of this product.

. Do not apply more than a total of 15 quarts per acre per crop.

. Do not make more than a total of 8 applications per crop.

. Do not apply within 3 days of hervest.

Note: This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming trees or weeds if bees are visiting the treatment area. Applications must be timed to coincide with periods of minimum bee activity, between late evening and midnight. If weeds (particularly dandelione) are in bloom, mow the cover crop on the orchard floor and borders prior to the application to remove weed

blooms and reduce bee foraging. Pernove all bee hives from the orchard area to be treated prior to the application. Notify beekeepers and surrounding orchardists of planned applications 24-48 hours in advance.

nours in soverce.

Dandelions on the orchard floor are a main attractant to bees during and shortly after the apple blooming period. To control dandelions and other broadlest weeds, apply a labeled 2,4-D in the fall after apple harvest or in the spring prior to bloom. Refer to restrictions pertaining to 2,4-D applications.

CROP	INSECT	QTSL OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Apples, Pears, Loquets, Crabapples. Oriental pears	White apple leathopper	1/2 to 11/2	OBSERVE BEE CAUTION On apples, avoid use during the
Опептав реаля	Apple aphid, Codling moth	f to 3	period from full bloom until 30 days after full bloom unless fruit thinning is desired. Use for pest control
	Apple aphid, Apple maggot, Apple mealy bug, Apple rust mite.	1½ to 3	during this period also may result in fruit removal.
	Bagworms, California peansing (pear sawily),		Repeat applications as necessary up to a total of 8 times per crop
	European apple sawfly, Eyespotted bud moth, Fruittree	[(Including thinning sprays on apples) but not more often than once every 14 days.
	leafroller, Gypsy moth, Japanese beetle,	<u> </u>	For psylla control, apply when eggs
	Lesser appleworm, Lygus bugs, Orange		hatch or young nymphs are presen
	tortrix, Pearlest blister mite, Pear psylla, Pear rust mite,		For scale control, apply when crawlers are present.
	Periodical cicada, Plum curculio, Red- banded leafroller, Rosv		
	apple aphid, Scale insects (Forbes acale,] [
	Lecanium scale, San Jose scale), Temished plant buc, Tentform		
	lealminers, Woolly apple aphid, Yellow-		
. Do not use on qui	apple aphid, Yellow- headed fireworm are between the tight flo		to the 20 mm fruit size.

Do not use on peers between the tight flower duster up to the 20 mm fruit size.				
Do not use on qui	NCB.			
Do not apply more	than a total of 15 quar	ts per acre per	crop.	
	than a total of B applic	ations per crop	λ.	
	n 3 days of harvest.			
pricots, Chemies,	Apple pandemis,	2 to 3	OBSERVE BEE CAUTION	
lectarines,	Black cherry aphid,			
esches, Plums,	Cherry fruitworm,		Repeat applications as necessary	
nd Prunes	Cherry maggot		up to a total of 3 times per crop but	
	(Cherry fruit fly),		not more often than once every 7	
	Codling moth,		days. An additional application at	
	Cucumber beefes		the dormant or delayed dormant	
	Eastern tent caterpillar,		timing may be made.	
	Eyespotted bud moth,		[
	European earwig,		For optimum scale control, apply	
	Fruittres leafroller.		when crawlers are present.	
	Green fruitworm,		1	
	Gypsy moth, Japanese		For lesser peachtree borer, best	
	beate, June beatle.		results have been found by	
	Leaser peachtree		thoroughly spraying limbs and tree	
	borer, Meely plum		trunks at weekly intervals during	
	aphid, Oranga tortrix,		moth flight.	
	Oriental fruit moth,		Į	
	Peach twig borer,			
	Penodical cicada,			
	Plum curculio, Prune			
	leafhopper, Red-		ł	
	banded feafroller,		i	
	Rose chafer, Scale			
	insects (Brown soft			
	scale, Forbes scale,			
	Lecanium scale,			
	Olive scale, Oyster-			
	shell scale, San Jose			
	ecale), Tamished plant			
	bug, Tussock moth,			
	Variegated leafroller			
	California only:			
	Black chemy aphid,	3 to 4	OBSERVE BEE CAUTION	
	Cherry fruitworm.	- UN C	COSENIE DEE CAUTION	
	Cherry magget		Repeat applications as necessary	
	(Cherry fruit fly),		up to a total of 3 times per crop but	
	Coding noth.		not more often than once every 14	
			davs. An additional acalication at	
	Cucumber beetles,	l i	ORAN WILLIAM TO ACONCESSON ST	

Eyespotted bud moth, European earwig, Fruittree leafroller, Green fruitworm. Meely plum aphid, Orange tortrix, Orienta fruit moth. Peach twice borer, Scale insects (Brown soft scale. Forbes scale, Lecanium scale. Ofive

scale, Oystershell scale, San Jose scale). Tarniehed plant bug.

Tussock moth,

COREACV r crop but every 14 the dormant or delayed dormant سلم...

For optimum scale control, apply when crawlers are present.

CROP	INSECT	QTS. OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Apricots, Cherries, Nectarines, Peaches, Plums, and Prunes cont'd.	Peach twig borer, Scale insects (Brown soft scale, Forbes scale, Lecanium scale, Olive scale, Oyster- shell scale, San Jose scale)	4 to 5	For dormant or delayed dormant timing, apply in combination with recommended dormant oil. Refer to the dormant oil product label or additional use directions and restrictions.
 Do not apply more Do not apply more 	than a total of 9 quart	s per acre at the per acre durin	crop. e dormant or delayed dormant timing. ig the production season. It apply within 1 day of harvest.
Citrus Fruits	Avocado leafroller, California orangedog, Citrus cutworm, Fruit- tree leafroller, Orange Tortrix, Western Iussock moth	2 to 3	CBSERVE BEE CAUTION. Repeat applications as necessary up to a total of 8 times but not more often than once every 14 days. For scale control, apply when
	Citrus rust mite, Eriophyld mites, Plant bugs, Sosie Insects (Black sosie, brown soft sosie, California	3 to 5	crawlers are present. For best control of Eriophyld mites including citrus rust mite, apply when pest populations are low.

5 to 716

5 to 16

present. Do not apply more than a total of 20 quarts per acre per crop.

Yellow scale

California), citrus snov scale, yellow scale (except in California) Appoka weevil (adult).

Citrus root weevils (adults), Fuller Rose Boetle, Little leaf notcher (adult) California only:

Do not apply within 5 days of harvest.

cateroillar

Lecanium scale Navel orangeworm	3105	repeat applications as necessary up to a total of 4 times per crop (Including any applications at the dormant or delayed dormant
Scale insects	4 to 5	timing) but not more often than once every 7 days.
[For scale control, apply when

crawlers are present. For dormant or delayed dormant timing, apply in combination with a recommended dormant oil. Refer to the dormani oil product label for additional use directions and

Do not make more than 1 application per season for California

red scale. Apply when crawlers are

 Po not apply more than a total of 15 quarts per scre per crop, including any application at the dormant or delayed dormant timing.

 Do not apply within 14 days of harves
 Amonds. IBlack margined aph Chastnuts, Filberts, Pecans,

OBSERVE BEE CAUTION Black margined aphio, Calico scale, Codling moth, European fruit Repeat applications as necessary up to a total of 4 times per crop (includlecanium. Fall web-Ing any applications at the dorman or delayed dormant timing) but not worm. Filbert aphid. Fibert leafroller, Filbertworm, Frosted more often than once every 7 days. roller Hickory shuck-Use lower rates for pests attacking leaves. Use higher rates for pesta attacking fruit and for higher infestations. worm. Navel crance worm, Peach twig borer, Pecan lear For scale control, apply when casebearer, Pecan crawlers are present. spittlebug, Pecan weevil, San Jose scale Twig girdler, Walnut

For peach twig borer, best results with foliar applications have been found by making applications in "popoorn" or petal fall stages when the May brood begins to hatch.

For navel orangeworm in almonds and walnuts, best results have been found by timing early and midsea-son applications to correspond with moth flight peaks.

For filbert leafroller, best results have been found by making applica-tions when eggs are hatching, repeating application on first appearance of moths and again 3 to

CROP	INSECT	QTS OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
			For coding moth in walnuts, best results have been found by making applications when average cross- sectional diameters of developing nuts are 0.5 to 0.75 inches and again during middle or later June as needed.
	Chestnut weevil, European earwig	4 to 5	For chestnut weevil, best results have been found with 4 applications at weeldy intervals beginning in late July. The last application should be made prior to shuck split.
			For European earwig, thorough coverage of trunks, branches, and nuts is needed for best results.
Almonds only	Peach twig borer, Scale Insects	4 to 5	For dormant or delayed dormant timing, apply in combination with a recommended dormant oil. Refer to the dormant oil product label for additional use directions and restrictions.

Do not apply more than a tops of 15 quadormant or delayed dormant timing.
 Do not apply within 14 days of harvest.

FORA	GE CROPS

Alfalfa, Clovers, Birdsfoot trefoil	Blister Beetles, Mexican been Beetle	½ to 1	OBSERVE BEE CAUTION. Observe plant response precautions.
	Alfalfa caterpillar, Bean leaf beetle, Cucumber beetles, Green doverworm, Japanese beetle, Leafttoppers, Three comered alfalfa hopper, Thrips, Velvet bean caterpillar	1	On dense growth, use 25 to 40 gallons of water per acre with ground equipment to ensure adequate coverage.
	Aftalia weevi larvae, Armyworm, Clover head weevil, Corn earworm, Egyptan altalia weevil larvae. Essex skipper, European altalia bede, Fall army worm, yellow striped armyworm	1 to 1½	For altalfa weevil larvae, if pretreatment damage is extensive, cut alfalfa and treat the stubble. This product is not effective against adult elfalfa weevils. For cutworm control, this product is most effective against species which feed on the upper portions of the plant.
	Alfalfa weevil larvae (west of the Rocky Mountains)	1 to 1½	protein.
	Alfalfa weevil tervae (east of the Rocky Mountains) re than once per cutting.	11/4	

Do not apply more than once per cutting.
Do not exceed 1½ quarts per acre per cutting.
Carbaryl may cause a temporary bleaching of tender alfalfa foliage.
Do not apply with 7 days of harvest or grazing.
Pasture, Grasses | Armyworm, Chinoh | 1 to 1½ | Up to 2 apply the control of the contro Up to 2 applications per year may bugs, Essex skipper, Fall armyworm, Striped Grown for Seed be made but not more often than once every 14 days. grass looper, Thrips. Range caterpillar. To control thrips in grasses grown for seed use high apray pressure to improve penetration into boot. Range cranelly, Ticks

sfully mark ewaths to avoid over application - Do not exceed a total of 3 quarts per acre per year

 Do not apply within 14 days of harvest or grazing.

Rangeland Black grass bug, % to Do not make more than 1 Grasshoppers. application per year. Mormon cricket Range caterpillar, Range crane fly, Ticks Carefully mark swaths to avoid over

Do not apply more than 1 quart per acre per year
 May be harvested or grazed the same day as treatment

NONCROPLAND

CROP	INSECT		SPECIFIC D'RECTONS
Conservation Reserve Program,	Black grass bug	14 to 14	Up to 2 applications per year may
Acreage Sel-aside Program, Acreage Wasteland, Rights-of-Way,		½ io t	orice every 14 days. Orrefully mark swarhs to avoid over- as plication.
Hedgerows, Ditch- banks, Roadsides	Ticks	1 to 11/2	

. Do not apply more than a total of 3 quarts per acre per year.

* Do not apply within 14 days of grazing or harvest for forage or hay.

POULTRY INSECT CONTROL

POULTRY	INSECT	QUARTS OF THIS PRODUCT/100 GALLONS OF WATER	SPECIFIC DIRECTIONS
Direct apray on: Chickens, Ducks, Geese, Gamebirds, Pigeons, and Turkeys	Chicken mite, Fleas, Lice, Northern Fowl Mite		For use as a direct mist spray on birds by: 1.Misting with Electric Fog Machine: Mix 10 ounces of this product in 1 gallon of spray. Use 1½ gallons per 1000 hens in cagea, on litter or on slatted floor. Repeat in 4 weeks if necessary. 2.Spraying with knapsack or cylinder type compressed air sprayers: Mix 6 ounces of this product in 5 gallons of spray. Use 1 gallon per 100 hens in cages, on litter or on slatted floor. Repeat in 4 weeks if necessary. For Northern fowl mike control, ensure pressured spray penetrates feather of vent area on birds. Direct mist spraying for chicken mite and fleas is a supplement to spraying roosts and building for control of fitness pests.
Roosts and Buildings	Chicken mite, Bedbugs, Fleas, Fowl, tick, Lesser mealworms, Lice, Northern fowl mite	(2½ tablespons per gallon)	Apply 1 to 2 gallons of spray mix- ture with conventional power spray of knapsack equipment per 1000 square feet of wall, litter or roost surface. Force spray into cracks, Repeat as needed. Avoid spraying neets, eggs, and feeding and watering troughs.
_	Fowl Tick	16 (10 tablespoons per gallon)	Ventilate while spraying.

[.] Do not treat birds or premises within 7 days of slaughter.

GRASSHO	PPER	CONT	ROL

СПОР	INSECT	QTS. OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
All crops on this label	Grasshopper	1/2 to 11/2*	Apply ½ to % quarts per acre of this product for nymphs on small plants or spanse vegetation. Apply 1 to 1½ quarts per acre for mature grassivoppers or applications to dense foliage or if extended residual control is desired. Be certain spray volumes are appropriate to asssure adequate coverage.

^{*}Note: Refer to individual site listings elsewhere on this label for use limitations and restrictions. Do not use rates higher than Isited for the site or exceed other use restrictions.

TREES AND ORNAMENTALS

For dilute-spray ground applications to trees (including shade trees, shelter belts, non-urban forests, tree plantations, Christmas trees, rangeland trees, parks and recreations areas, rural shelter belts), ornamentals, woody plants and shrubs, apply in the specified dosage per 100 gallions of water. For concentrate spray apply in the specimed closage per 100 gasons of water, For concentrate spray ground applications, apply the specified dosage per acre in sufficient apray volume to provide thorough coverage. For aerial applications to forest trees (including shade trees, shelter belts, plantations, parks and increations areas) and commer-cially grown ornamentals, woody plants and shrubs apply the specified dosage per acre in sufficient spray volume to provide thorough coverage. Avoid direct application to lakes, streams and ponds.

NSECT AMOUNT OF			SPECIFIC DIRECTIONS
Ants, Apple aphid, Armyworm,	1 02.	1 at.	Use sufficient spray volume to
Azalea lestminer, Bagworms, Birch		. 4-	obtain thorough coverage of
setminer, Blister beetle, Boxelder bug,	i	1	upper and lower leaf surfaces.
Sorwood Isafminer, Brown tail moth.		l	To control scale insects, treat
Cankerworms, Cataloa sphimx, Chiggers,	ļ		trunks, stems, and twigs in
Cooley spruce gelf aphid, Cutworms,	ĺ	Î	addition to plant foliage.
Cypress tip moth, Douglas fir tussock	į.		l ' -
noth, Eastern spruce gall aphid, Elm	ĺ		For optimum worm control, treat
eaf aphid, Elm leaf beatle, Elm span-	ŀ		when in early instars. Addition
worm, Erlophyld mites, European pine			of a sticker may improve
shoot moth, Fall armyworm, Flea			residual control.
peetles. Fuller rose beefle, Gall midges.			
Ball wasps, Green striped mapleworm.	1	1	Observe plant response
Grasshoppers, Gypsy moth, Hackberry	1		precautions.
sipplegali maker, Holly bud moth, Holly	!	i	
safminer, Jackpine budworm, Japanese	l	į	Applications for control of Maple
paetle, Jeffrey pine needleminer, June	ŀ	ł	leafcutter on sugar maple
peetles, Lace bugs, Lest hoppers, Lest-			should be made when larvae
rollers, Locust borers, Maple leafculter,		l .	are in 2nd Instar after mining,
Mealy bugs, Mirnosa webworm,			and as cases are being formed.
Vantucket pine tip moth, Oak leafminers,	1		
Dak leaf skeletonizer, Oakworm	1		Repeat treatments as
complex, Oleander caterpillar, Olive		į l	necessary up to a total of 2
sh borer, Orangestriped cakworm.	Į.		times per year but not more
Orange tortrix, Periodical cicada, Pine	į		often than once every 7 days.
sawfly, Pine spittlebug, Pitch pine tip	f		
noth, Plant bugs, Poinsettia hom worm,	ļ		
Psyllids, Puss caterpillar, Red humbed	!		
sak worm, Rose aphid, Rose chafer	İ		
Rosestug, Saddled prominent, Sawilies			
exposed), Scale insects, Sow bugs,	l .		
Spirny elim catempillar, Springtalls, Spruce			
ugworm, Spruce needleminer, Sub-		1	
ropical pine tip moth, Tent caterpillars,	1 :		
Thornbug, Thrips (exposed), Ticks,	i i		
Valnut caterpillar, Webworms, Western	i		
emick looper, Western spruce bud-			
vorm, Willow leaf beetles, Yellow			
opter weev! on bark beetle, lips engraver beetles.	18 oz.	4 gals.	Effective as a preventive
Aguntain Dine beete. Roundheaded	10 02.	~ yaa.	treatment only. Repeat annually
ine beetle, Western pine beetle			se required to prevent beetle
are beene, western prive beene			attacks.
	ĺ		anacke.
			Apply 1 gallon of spray per 50
			square feet of bank in May to
			early July or prior to beetle
			attack. Treat tree trunks from
			ground level up until trunk
			diameter is less than 5 inches.
			Applications for control of Elm
			bark beetle should consist of
			20-30 gallons of spray for 50
			foot height of eirn tree for
1		ŀ	thorough coverage of all bank
			surfaces on trunk, limbs and
			Andrea

AWNS AND RECREATIONAL AREAS

LAWNS AND RECREATIONAL AREAS			
SITE INSECT	SPECIFIC DIFFECTIONS		
	Use 6 fl. az. of this product per 1000 square feet (8		
billbug, Centipedes,	quarts per acre) of furf grass. Make application in		
Chiggers, Chinch bugs,	sufficient spray volume for thorough coverage and turf		
	hatch penetration. Repeat treatment as necessary.		
skipper, Europeen chafer,			
European crane fly, Fall	For Armyworm, Cutworm, Fall Armyworm and Sod		
	Webworm Control: Do not irrigate treated areas		
	following insecticide application.		
Section, Leathoppers,	For Chines Bur Control Trans anti-		
Mosquitoss, Sod web-	For Chinch Bug Control: Treat entire turl grass area rather than just damaged areas. Imigation of turl grass		
worms (lawn moths).	area before insecticide application will gid in		
Sowbuce, Spittlebuge,	penetration into turt crass.		
Springtails, Ticks, White			
grubs, Yellowstriped army	For White Grub Control: Applications should be made		
worm	when grube are feeding near the soil surface, usually		
} *	during late March through May, or July to early		
1	September or as recommended by local Agricultural		
i	Extension Service Agents. Water or irrigate turf		
	crasses thoroughly soon after treatment.		
Imported Fire Ants	(Refer to OUTDOORS section of PEST CONTROL IN		
	AND AROUND BUILDINGS)		

ADULT MOSQUITO CONTROL			
CROP	RATE PER 16 GALLONS	RATE PER 100 GALLONS	SPECIFIC DIRECTIONS
Pastures, Rangeland,	1 to 3 oz.	⅓ to 1 qt.	OBSERVE BEE CAUTION
Yards, Parks, Recreational Areas, Logging Camps, Military Posts, Forested Lands, Wastelands			Treat shrubbery and areas where adult mosquitoes congregate. Text when adult mosquitoes are active in early morning or late evening. Repeat at 7 to 10 day interviet. Mits 16 to 16 quart of this product per 100 gallons in mist blower; mix 16 to 1 quart of this product. In sufficient volume of water per acre in awrial apraise, mix 1 quart or this product in sufficient volume of water per acre in awrial apraise, mix 1 quart or this product in sufficient volume of water per a in low pressyrs return aprawers.
	21/2 cytes.	25 qts.	For residual control in subtropical regions a_p_y 1 gallons of prepared splay per 2000 square test of surface areas. Repeat in 3 to

[•] Do not allow public use of treated areas during application or until sprays hard fried.

Do not make more than 2 applications per year
 DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.

[.] May kill shrimp and crabs. Do not use in areas where these are import int resourc is.

PEST CONTROL IN AND AROUND BUILDINGS

GENERAL INFORMATION

Note: Staining may occur on certain surfaces such as stucco, brick, cinder block and wood. Therefore, applications of this product to surfaces where a noticeable residue or discoloration is objectionable should be avoided. Do not apply to carpets or draperies as staining may occur. Care should also be exercised to avoid spotting of wallpaper and fabrics. Do not use this product in commercial food areas of food handling establishments, restaurants or other places where food is prepared or processed.

Do not use in serving areas while food is exposed.

iNDOORS (NOT REGISTERED FOR INDOOR USE IN NEW YORK STATE)

Anta/Crickets/Firebrats/Silverdish: Mix 3 oz. this product per gallon of water and apply as fine, low pressure (20 psi) spot spray or as crack and crevice application to areas where these pests hide, such as baseboards, storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves, dishwashers, hot water heaters, the underside of shelves, drawers and similar areas. For ants, apply to ant trails, around doors and windows and other places where ants enter premises.

Bees and Wasps: Mix 3 oz. this product per gallon of water and thoroughly spray nest and entrance and surrounding areas where insects alight. It is generally advisable to spray the nests in the evening when the insects are less active and have returned to the nest. For best results, check nest carefully one or two days after spraying to ensure complete kill, then remove and destroy nest to prevent emergence of newly hatched insects.

Brown Dog Ticks and Fless: Mix 3 oz. this product per gallon of water and thoroughly spray infested areas such as pet beds and resting quarters, nearby cracks and crevices, between and under cushions and upholstered furniture, along and behind baseboards, window and door frames and other areas where these pests may be present.

Carpenter Anta: Mix 3 oz. this product per gallion of water and apply to ant trails, around doors and windows and other places where ants enter premises. Where possible, apply this product directly to ant nest or infested wood.

Centipedes/Enwigs/Milipedes/Scorpions: Mix 3 cz. this product per gallon of water and apply around water pipes, doors and windows, and other places where these pests may enter premises. Spray baseboards, storage areas, garages, carports, basements and other areas, where these pests are found.

Cockroaches: Efficacy varies with species sensitivity. This product is generally not highly effective in controlling German cockroaches. However, the following may be controlled with the rates as stated. American cockroach, Australian cockroach, Brown cockroach, Smoky brown cockroach, and others. Mix 3 oz. this product per gallon of water and apply as a fine, low pressure (20 psi) spot spray or as crack and crevice application to areas where these pests hide, such as baseboards, storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves, dishwashers, hot water heaters, the underside of shelves, drawers and similar areas.

OUTDOORS

Parimeter Treatment: Residual spray for control of ants, bees and wasps, brown dog ticks, carpenter ants, centipedes, cockroaches, crickets, earwigs, firebrats and silverfish, fleas, millipedes, scorpions and spider. Mix 16 oz. this product per 50 gallions of water (2 fl. oz. per 3 gallions), and apply via power spray or other spray methods. To help prevent infestations of buildings by the above pests, outside perimeter treatment should be in a band 6 to 10 feet wide and confined to shrub beds, foundation plantings and lawn or soil areas immediately adjacent to the structure. Direct application to structures should be minimal and restricted to cracks and crevices and other areas where insects tend to concreoate.

imparted Fire Ante: Mix 1½ pints of this product per 50 gallons of water (½ fl. oz. per gallon). Apply a total of 2 gallons of the diluted solution over the surface of each mound or at least 1 quart per 6 inches of mound diameter using a bucket, can or other appropriate equipment. Thoroughly wet mound and surrounding area to a 4 ft. diameter (12 sq. ft.). Do not disturb mounds prior to treatment. Pour solution from a height of about three feet to give sufficient force to break mound apex and flow into ant tunnels. For beet results apply in cool weather, 65-80°F, or in early morning or late evening hours. Repeat application if mound activity resumes after 10 days. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.

NOTICE

IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. CROP INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF PLATTE, THE MANUFACTURER OR SELLER. IN NO CASE SHALL PLATTE, THE MANUFACTURER OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

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