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Systems Integration Group, Inc.



CARBAR

Insecticide

हर बहार वर्षेत्री, देश प्राप्त registered und 874 Feb. 1 34764-447

For Agricultural And Commercial Use Only N-Methyl Carbamate Insecticide

ACTIVE INGREDIENT: Carbaryi (1-naphthyl N-methylcarbamate) 43.0% INERT INGREDIENTS 57.0%<u>57.0%</u> i 100.0% Total

KEEP OUT OF REACH OF CHILDREN CAUTION

EPA REG NO. 34704-447 EPA EST. NO. KG) EXP08Y99 NET CONTENTS _GALS. (__

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 ciothing. Do not use this product in food areas of commercial food-handling establishment. lishments, restaurants or other places where food is prepared or

Personal 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 CFA 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 immediate ly. 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 medical attention

IF ON SKIN: Wash skin with soap and water.

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

NOTE FOR PHYSICIAN: Carbaryl is a moderate, cholinesterase inhibitor. Atropine is antidotal. Do not use 2-PAM opiates, or cholinesterase-inhibiting drugs. FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-228-5635, 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, notification, 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 restrict-

ed 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 properly.

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

good pesticide handling

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. CONTAINER DISPOSAL: METAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture 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 land-fill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CARBARYL 4L **EPA REG. NO. 3470** 17

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 1/2 to 3/4 with desired amount of water. Begin acitating 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 diuted 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, lime-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, trailers, 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 1/4 fl. 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.

Sprinkler Irrigation Systems

Apply this product only through sprinkler irrigation systems including center pivot and sold set. Do not apply this product through any other type of irrigation system. General Precautions for Applications through Sprinkler Irrigation Systems Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of more dilute solution per unit time.

The system must contain a functional check valve, vacuum relief valve, and lowpressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. 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 interlock to prevent fluid from being withdrawn from the supply tank when the Irrigation system is either automatically or manually shutdown. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pumps 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. Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution when lines containing the product must be dismantled and drained.

Crop injury, tack of effectiveness, or illegal pesticide residues in the crop may result from nonuniform distribution treated water.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to public water system unless the label-prescribed safety devices for public water supplies are in place.

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 arm worm species. Regional differences have been noted in the susceptibility of () strains of fall armyworm, diamondback moth, ern green stink bug to carbaryl. If local experi-Colorado potato beetle and Su. ence indicates inadequate control, use an alternative pesticide.

CAUTIONS AND RESTRICTIONS

Carbaryl 4L insecticide is a suspension of microfine brand carbaryl insecticide in an aqueous medium. It readily disperses in water to form a spray which may be applied by air or ground.

PLANT RESPONSE PRECAUTIONS

Application to wet toliage or during periods of high humidity may cause injury to tender foliage. Do not use on Boston Ivy, Virginia creeper and maidenhair tern as injury may result. Carbaryl may also injure Virginia and sand pines. The use of adiuvants 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 intestations, 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.

CROP	INSECT	QTS, OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Asparagus	Asparagus beetle, cutworms, Apache cicada	1102	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 curvorm control, this product is most effective against species which feed on the upper portions of the plant.
		2 to 4	Application to ferns or brush growth following harvest of spears: Repeat applications as necessary but not more often than every 7 days. Do not make more than a total of 5 applications per year to spears and ferns combined.

Do not apply more than a total of 6 quarts per acre before harvest of spears.

Do not apply more than a total of 10 quarts per acre per year.

	me unan a total of 10 quant hin 1 day of harvest.	s per acre p	er year.
Broccoli, Brussels Sprouts, Cauliflower,	Flea beetles, Harlequin bug, Leafhoppers,	⅓ 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, Collerds, Kale, Kohirabi, Mustard Greens	Armyworm, Aster Leafhopper, Corn earworm, Diamond- back moth, Fall armyworm, Imported cabbageworm, Lygus bugs, Spittlebugs, Stink bugs, Tarnished plant bug	1 to 2	Do not apply more than a total of 6 quarts per acre per crop.

. Do not apply more than a total of 6 quarts per acre per crop.

• For Chinese Cabbage, Collards, Kale, and Mustard Greens, do not apply within 14 days of harvest.

Carrots, Parsnips, Garden Beets, Horseradish,	Flea beetles, Leaf hoppers	1/2 to 1	Repeat applications as necessary up to a total of 8 times but not more often than once every 7 days.
Radishes, Rutabagas, Salsify, Potatoes	Armyworm, Aster leafhopper, Colorado potato beetle, Corn earworm, Cutworms, European corn borer, Fall armyworm, Lace bugs, Lygus bugs, Spittlebugs, Stink bugs, Tamished olant bug	1 to 2	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 6 quarts per acre per crop.

Do not apply within 7 days of harvest

CARBARYL 41. EPA REG. NO. 347

		QTS. OF THIS	
		PRODUCT/	
CROP	INSECT	ACRE	SPECIFIC DIRECTIONS
Cucumber, Melons,		1/2 to 1	Repeat applications as necessary
Pumpkins, Squash	Melonworm		up to a total of 6 times but not more
			often than once every 7 days.
	Cucumber beetles,	1	6
	Flea beetles, Leat-		For optimum control of squash bugs, apply sufficient spray
	hoppers, Squash bugs	j	volume for thorough coverage and
	5093	i	time sprays for early morning or late
			alternoon.
	than a total of 6 quarts	per acre per o	crop.
 Observe plant res 			
	n 3 days of harvest.	, , ,	10
Celery, Dandelion,	Flea beetles, Harlequin bug.	1/₂ to 1	Repeat applications as necessary up to a total of 5 times but not more
Endive, Lettuce (head and leaf),	Leathoppers	}	often than once every 7 days.
Parsley, Spinach,	Country		
Swiss Chard	Armyworm, Aster	1 to 2	1
	leathopper, Corn	•	1
	earworm, Fall army-		Į.
	worm, imported	,	1
	cabbageworm,		1
	Lygus bugs, Spittle bugs, Stink bugs,	}	ł
	Tarnished plant bug		
Do not apply more	than a total of 6 quart	s per acre per o	crop.
	in 14 days of harvest		<u> </u>
Legume	Bean leaf beetle,	1/2 10 1	Repeat applications as necessary
Vegetables:	Blister beetle,	ł	up to a total of 4 times but not more
C Farab	Cucumber beetles, Grape colapsis,		often than once every 7 days.
Soybeans, Fresh and Dried Beans	Green cloverworm,	1	For cutworm control, this product is
(including snap.	Japanese beetle,	•	most effective against species which
navy and kidney)	Mexican bean	ł	feed on the upper portions of the
-	beetle, Velvetbean	1	plant.
Fresh and Dried	caterpillar	1	1.1
Peas,	l	16 Am 116	Use lower rates for light to moderate populations and smaller instars and
Lentils, Cowpeas,	Com earworm	1/2 10 11/2	provide maximum survival of
Southern Peas	Allaita caterpillar,	1	beneficial insects and spiders. Use
	Colorado potetoto		the higher rates for heavy
Do not use on	beetle, Flea beetles,		populations and larger instars.
lentils in	Learnoppers, Three	ļ	1
California	comered alfalfa	ļ	
	hopper, Thrips, Western bean		1
	cutwon	}	
		<u> </u>	_
	Armyworm, Cutworms,	1 to 11/2	1
	European com borer,	1	•
	Fall armyworm	ľ	
	Stink bugs, Tarnished plant bug,	1	1
	Webworms	1	1
	Alfalfa looper	13/2	1
	(suppression),	1	1
	Cowpea curculio	ſ	1
	(suppression),	J	1
	Painted lady (Thistle caterpillar), Pea leaf	1	
	weevil, Pea weevil,	1	}
	Saltmarsh caterpillar,]	1
	Woollybean cater	1	Í
	pillar, Yellow-striped	}]
	аттужотт	Į.	1
	California cales	11/2	- _
	California only:	i '"	1
	(suppression), Lima	i	1
	bean podborer	1	1
	(suppression), Lygus	ŀ	1
	bugs (suppression)	1	1
	stink bugs	l	1
	(suppression)	1	_

| (suppression) |

Do not apply more than a total of 6 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.

Observe plant response precaring or harvest for forage or within 3 days of harvest of fresh beans or peas or within 21 days of harvest for forage or within 25 days of harvest of fresh beans or peas or within 21 days of harvest of dried beans or peas, seed, or hay.

Olives Scale insects 5 to 7½ Up to 2 applications per crop may be made but not more often than once every 14 days. (olive scale, black

scale) even

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

Do not apply within 14 days of harvest.

	,	r	r
]	QTS. OF THIS	
	l	PRODUCT/	
CROP	INSECT	ACRE	SPECIFIC DIRECTIONS
Tomato, Egoplant,	Colorado pol	1 to 2	Repeat applications as necessary up
Pepper	beetle, European comborer, Fall army-		to a total of 7 times but not more often than once every 7 days.
	worm, Lace bugs,		man drice every / days.
	Stink bugs, Tarnished		Thorough coverage is essential to
	plant bug, Thrips		effectively suppress stink bugs.
	(suppression), Tomato-		1
	fruit worm, Tornato hornworm, Tornato		When disease transmission is
			suspected, monitor fields following
	pinworm]	application and retreat if reinfestation occurs but not more often than once
	Flea beetles, Lear-	1/2 to 1	every 7 days.
	hoppers	, ,	
	.,,,		For cutworm control, this product is
	Cutworms	2	most effective against species which
	Į.	İ	feed on the upper portions of the
	<u> </u>	<u> </u>	plant
	e than a total of 8 quart	s per crop.	
Field Com,	in 3 days of harvest. [Armyworn, Chinch	1 to 2	OBSERVE BEE CAUTION.
Popcom	bugs, Corn earworm,	1 '"2	OBSETTE BEE CAUTION.
	Corn rootworm adults,	1	Repeat applications as needed up to
	European com borer,	1	a total of 4 times but not more often
	Fall armyworm, Flea		than once every 14 days.
	beetles, Japanese)	
	beetle, Sap beetles, Southwestern corn	1	Optimum timing and good coverage
	borer, Leafhoppers	}	are essential for effective control.
	poler, cealifuppers	1	For optimum chinch bug control, use
	European corn borer	11/2 to 2	ground equipment to apply at least
			20 gallons of water per acre and
	Cutworms, Western	2	direct spray toward stalk to provide
	bean cutworms	1	thorough coverage.
	İ	({·
	ł .	i	for optimum European com borer
	1	1	control, do not apply in less than 3 gallons of water per acre by air and
•		1	15 pallons of water by ground.
		1	15 gallors or maler by ground
	J	ļ	For western bean cutworm, treat
		i	when infestation averages 15% and
	1	1	at 90% to 100% tassel emergence.
	1	į	Treatment after 100% silk emer-
	Į.	}	gence will reduce effectiveness.
		1	For optimum cutworm control, apply
	1	ł	in a 12-inch band, over the row,
		1	using sufficient volume of water to
	ł	ł	obtain thorough coverage. For
	1	ì	broadcast application, use at least
	1	ł	20 gallons by ground or 5 gallons by
		1	air per acre.
	1	(1
		1	For cutworm control, this product is
	ľ	1	most effective against species which
	1	1	feed on the upper portions of the
• Do not apply mo	re than a total of 8 quar	ts per acre per	CMD.
		forain and tod	ider or within 14 days of harvest or
grazing of forage	a or silage.		
 Do not apply with grazing of forage Flax 	Armyworm	1 10 11/2	Up to 2 applications per crop may be
		1	made but not more often than once
Do not use in	1	ļ	in every 14 days.
California.	<u> </u>		<u> </u>
	re than a total of 3 quar		
	nin 42 days of harvest fo		W.
Grain sorghums	Armyworms, Chinch bugs, Corn earworm,	1 to 2	Repeat applications as necessary up to a total of 4 times but not more
	Fall armyworm, Stink	1	often than once every 7 days.
	bugs, Webworms	1	Chart than Once every / days.
	Jugo, Houmonina	.L	Direct spray into forming heads for
	Southwestern com	13%	optimum control of insects attacking
	borer	1	heads.
	1	1	1

For optimum chinch bug control, use high gallonage ground application at the base of plants. Cutworms For cutworm control, this product is most effective against species which feed on the upper portions of the Po not apply more than a total of 6 quarts per acre per crop.

Do not apply within 21 days of harvest for grain or fodder or within 14 days of harvest or grazing of forage or sitage.

SPECIFIC DIRECTIONS
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 leed on the upper portions of the

CARBARYL 41. EPA REG. NO. 347

QTS. OF THIS PRODUCT/

ACRE

SPECIFIC DIRECTIONS

CROP

INSECT

Peanuts !	Blister beetles, Mexican bean beetle	1/2 to 1	Repeat applications as necessary up to a total of 5 times but not more
	Alfalta caterpillar,	3	often than once every 7 days.
	Bean leat beetle,		For optimum control of thrips, use
	Cucumber beetles,		directed or banded sprays with
	Green cloverworm,		hollow cone spray nozzles. Ensure
	Japanese beetle,		adequate coverage for the underside
	Leafhoppers, Red-		of leaves.
	necked ocanut worm, Three cornered alfalfa		
	hopper, Thrips, Velvet		
	bean caterpillar		
		_	}
	Armyworm, Corn ear-	1 to 11/2	For cutworm control, this product is
	worm, rail armyworm,	1	most effective against species which
	Stink bugs, Webworms		feed on the upper portions of the
			plant.
	Whitefringed beetle adults, Cutworms	2	1
• Do not apply mote	than a total of B quarts	per acre per i	cron
Observe plant res		. р тол ро	
	n 14 days of harvest.		
Rice	Armyworm, Chinch	1 10 1/2	Up to 2 applications per crop may be
	bugs, Fali armyworm,		made but not more often than once
	Leathoppers, Stink		every 7 days.
	bugs		}
	Tadpole shrimp	11/2	California only:
-	raupole snimp	1/2	For optimum tadpole shrime control.
			apply to water when pest first
	!		appears.
• Do not apply more	than a total of 4 quarts	per acre per	
	ill shrimp, crabs and cra		
. Do not apply prop	anil herbicides within 15	days before o	or after application of this product or
plant injury will re			
	n 14 days of harvest for		! *
Small Fruits and	European Iruit	1 to 2	OBSERVE BEE CAUTION
Berries:	lecanium, European		B
Caneberries, Blueberries,	raspberry aphid, Flea beetles, Grape leaf		Repeat applications as necessary up to a total of 5 times but not more
Cranberries,	tolder, Grape leaf	ĺ	often than once every 7 days.
Grapes,	roller, Japanese)	Silon dia, orong over, r days.
Strawberries	beetle, Leathoppers,		For cutworm control, this product is
	Leafrollers, Meadow		most effective against species which
	spittlebug, Omnivorous	l	feed on the upper portions of the
	leattier, Rose chater,	{	plant.
	Snowy tree cricket,	i	
	Strawberry bud	f	In grapes for grape leatfolder control,
	weevil, Strawberry	ļ	apply before first brood larvae
	clipper, Strawberry Iruitworm, Strawberry	ĺ	emerge from rolls.
	leafroller, Strawberry	}	in grapes, do not concentrate spray
	weevil, Western grape		on the bunch or visible residues
	leaf skeletonizer,	}	may result.
	Western yellowstriped	1	1
	armyworm	ł	ł
		ļ	1
	Blueberry maggot,	1% to 2	İ
	Cherry fruitworm,	1	i
	Cranberry fireworth,	{	[
	Cranberry fruitworms,	J	
	Cranberry twig girdler, Elm spanworm, Gypsy	ł .	
	moth, Spaganothus	Į	}
	worm, Tarnished plant		ľ
	bug	}	•
		<u> </u>	1
	Eight-spotted forester,	2	1
	Cutworms, Grape]	i e
	berry moth, June	1	
	beetles, Omnivorous]	ļ
	leatroller, Orange	1	i
	tortrix, Raspberry	Į	1
	fruitworm, Raspberry sawfty, Redbanded		
	leafroller, Saltmarsh	ł	1
	caterpillar	1	1
• Do not early mor	e than a total of 10 qua-	rts ner acre ne	f cron
			s. Do not use in areas where these are
important resource		,	
 Carbaryl may inju 	ire Early Dawn and Sun	rise varieties d	of strawberries.
	in 7 days of harvest.		
Sugar beets	Armyworm, Beet leaf	1 to 11/2	Repeat applications as necessary
	beetle, Fall armyworm,	1	up to a total of 2 times but not more
	Flea beetles, Leaf	l	often than once every 14 days.
	hoppers, Webworms	1	F
	Cuture	 	For culworm control, this product is
1	Cutworms	1/2	most effective against species which
•		ì	teed on the upper portions of the plant.
		<u> </u>	Thum it:

. Do not apply more than a total of 3 quarts per acre per crop. . Do not apply within 28 days of harvest for roots or forage.

	, ,		feed on the upper portions of the plant.
	e than a total of 3 quarts		стор.
 Do not apply within Sweet Com 	n 30 days of grazing or h Armyworm, Chinch	arvest for forag	e or within 60 days of harvest for seed. OBSERVE BEE CAUTION
Gweet Cont	bugs, Corn earworm,	1102	Repeat applications as necessary
	Corn rootworm adults,		up to a total of 8 times but not more
	Fall armyworm, Flea beetles, Japanese		often than once every 3 days.
	beetle, Sap beetles,		Optimum timing and good coverage
	Southwestern corn borer, Leathoppers		are essential for effective control.
	borer, Learnoppers	<u> </u>	For insects attacking silks and ears,
	European com borer	1½ to 2	insecticide sprays should be applied
	Western bean	2	starting when first silks appear and continuing until silks begin to dry
	cutworm, Cutworms		During silking, the minimum retreat-
			ment interval (3 days) may not pro-
			vide adequate levels of protection under conditions of rapid growth or
			severe pest pressure. The use of an
	1		alternative product should be consid- ered in conjunction with this product.
	Ì		For optimum chinch bug control, use ground equipment to apply at least
	1	l	20 gallons of water per acre and
]]	direct spray toward stalk to provide thorough coverage.
	1		
	· I	ł	For optimum European comborer control, do not apply in less than 3
	•	}	gallons of water per acre by air and
	1		15 gallons of water by ground.
		Į.	For western bean cutworm, treat
	ļ	!	when intestation average 15% and at 90% to 100% tasset emergence.
		ł	Treatment after 100% silk emer-
	1	ľ	gence will reduce effectiveness.
	1]	For optimum cutworm control, apply
	1		in a 12-inch band, over the row, using sufficient volume of water to
	1	ł	obtain thorough coverage.
	1	j	For broadcast application, use at
		1	least 20 gallons by ground or 5
	{	(gallons by air per acre. For cutworm control, this product is
	1	ļ.	most effective against species which
	1	ŀ	leed on the upper portions of the plant.
Do not apply mo	re than a total of 15 qua	rts per acre pe	
 Do not apply with 	nin 2 days of harvest of	ears, within 14	days of harvest or grazing of forage,
Sweet potatoes	of harvest of fodder. [Com earworm,	1 10 2	Preplant dip for control of sweet
	Cucumber beetles,	ļ	potato weevil: Just prior to planting,
	Flea beetles, Sweet potate hornworm,	ł	dip sweet potato cuttings in a suspension containing 2 gallons of
	Sweet potato weevil,]	this product in 100 gallons of water
	Whitefringed beetle, Tortoise beetles		(2.6 fluid ounces per gallon of water).
		 	4 '
	Yellowstriped army-	2	For toliar sprays, repeat applications as necessary up to a total of 8 times
	1		but not more often than once every
• Do not each mo	n than a total of 8 quart	E DAY 3CM DOF	7 days. crop with in-season sprays.
• Do not apply mo	re than a total of 1.2 qua	arts per acre a:	s a preplant dip treatment.
 Do not apply with Tobacco 	hin 7 days of harvest. Budworms, Fall army-	1 1 to 2	I Plant bed and Field Treatment
1008000	worm, Tobacco flea	1.02	Francisco and Fleid Treatment
	beetles, Hornworms,	1	Repeat treatments as necessary up
	Japanese beetle, June beetle, Suckliy	ļ	to a total of 4 times per crop but not more often than once every 7 days.
	,	l	1
		į	Use lower rate on young plants (up to knee height). Use at least 10 gallons
	}	1	of prepared spray per acre. Begin
• Do not apply mo	re than a total of 8 quar	Is per acre so	treatments when worms are small.
 Observe plant re 	esponse precautions.	,	
 Tobacco may be Wheat. 	harvested on the day of		Illo to 2 applications as a second
vvneat, Proso Millet	Cereal leaf beetle	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Up to 2 applications per crop may be made but not more often than once
Do not use in	<u> </u>	1 to 11/2	every 14 days.
California	Armyworm, Fall	1 10 192	Application is effective against eggs,
		1	larvae, and adults of the cereal leaf
		ţ	beetle.
	(1	Application for armyworm pontrol
	Į.	}	should be made when armyworms are actively feeding on the upper
	1	1	foliage and night temperature and not
	1	{	expected to drop below 55°F. If apply-
	1	1	ing by air to lush growth, use a mini- mum spray volume of 5 gallons per
	<u> </u>	1	acre to opimize coverage.
	ore than a total of 3 quar thin 21 days of harvest t		ricrop w or vithir. 7 days of harvest or grazing
of lorage.			u. s.mm uo, o or san voor or grazing
4			•
4			$\hat{\mathbf{r}} = \hat{\mathbf{r}} = \hat{\mathbf{r}} + \hat{\mathbf{r}} = \hat{\mathbf{r}}$

QTS. OF THIS PRODUCT/

ACRE 1 to 1½

11/2

CROP

Do not use in California.

INSECT

Stern weevil,
Sunflower beetle
Cutworms, Armyworm,
Fall armyworm, Sunflower moth

CARBARYL 41 EPA REG. NO. 347 47

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.

OTS. OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
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 apples between 90% petal fall and up to 18mm fruit size. Use sufficient water volume to ensure thorough coverage. Avoid spraying to runoff. Direct spray volume to upper % of tree canopy and reduce spray coverage to lower % 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 lemperatures exceed 85°F. Consult with your County Extension Service or other experts for advice on the proper use of this product.
than a total of 15 quar	
	PRODUCT PER ACRE 1 to 3

<sup>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 harvest.</sup>

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. It weeds (particularly dandelions) 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. Remove 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.

Dandelions on the orchard floor are a main attractant to bees during and shortly after the apple blooming period. To control dandelions and other broadleaf 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	QTS. OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Apples, Pears, Loquats, Crabapples,	White apple leafhopper	1/2 to 11/2	OBSERVE BEE CAUTION
Oriental pears	Apple aphid, Codling moth	1 to 3	On apples, avoid use during the 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 pearslug (pear sawfly), European apple sawfly, Eyespotted bud moth, Fruittree leatroller, Gypsy moth,		Repeat applications as necessary up to a total of 8 times per crop (including thinning sprays on apples) but not more often than once every 14 days.
	Japanese beetle, Lesser appleworm, Lyous bugs, Orange		For psylla control, apply when eggs hatch or young hymphs are present.
	toririx, Pearleal blister mite, Pear psylia, Pear rust mite, Periodical cicada, Plum curculio, Red- banded leafroller, Rosy		For scale control, apply when crawlers are present.
	apple aphid, Scale insects (Forbes scale, Lecanium scale, San	}	•
	Jose scale), Tamished plant bug, Tentiform lealminers, Woolly apple aphid, Yellow-		
Do not use on per	headed fireworm ars between the tight flo	wer cluster up	to the 20 mm fruit size.

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 make mon	e natura routano ro o abbluc	ations per crop	.
. Do not apply within	n 3 days of harvest.		
Apricots, Chemies,	Apple pandemis,	2 to 3	OBSERVE SEE CAUTION
Nectarines,	Black cherry aphid,	'	
Peaches, Plums,	Cherry fruitworm,		Repeat applications as necessary
and 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 beetles,		the dormant or delayed donnant
	Eastern tent caterpillar,		timing may be made.
	Eyespotted bud moth,		
3	European earwig,		For optimum scale control, apply
	Fruittree leafroller,		when crawlers are present.
	Green fruitworm,		ļ
	Gypsy moth, Japanese		For lesser peachtree borer, best
	beetle, June beetle.		results have been found by
	Lesser peachtree		thoroughly spraying limbs and tree
	borer, Mealy plum		trunks at weekly intervals during
	aphid, Orange tortrix,		moth flight.
]		l

		DTS. OF THIS PRODUCT/	
CROP	INSECT	ACRE	SPECIFIC DIRECTIONS
CROP Apricots, Chemies, Nectarines, Nectarines, Peaches, Plums, and Prunes cont'd.	Oriental fruit	ACRE	SPECIFIC DIRECTIONS
	Variegated leahroller California only: Black cherry sphid, Cherry fruitworm, Cherry magot (Cherry fruit fly), Codling moth, Cucumber beetles, Eyespotted bud moth, European earwig, Fruittree leafroller, Green fruitworm, Mealy plum aphid, Orange tortint, Oriental Irut moth, Peach twig borer, Scale insects (Brown soft scale, Forbes scale, Lecanium scale, Olive scale, Oystershell scale, San Jose scale), Tarnished plant bug, Tussock moth,	3 to 4	OBSERVE BEE CAUTION Repeat applications as necessary up to a total of 3 times per crop but not more often than once every 14 days. An additional application at the dormant or delayed dormant timing may be made. For optimum scale control, apply when crawlers are present.
	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 mon 	e than a total of 14 quare than a total of 5 quart	s per acre at the	crop. e dormant or delayed dormant timing, ig the production season,
			t apply within 1 day of harvest.
Citrus Fruits	Avocado leafroller, California grangedog,	2 to 3	OBSERVE BEE CAUTION.

			ng the production season, of apply within 1 day of harvest.
ts	Avocado teafrolfer, Calitornia orangedog, Citrus cutworm, Fruit- tree teafrolfer, Orange Tortrix, Western tussock moth	2 to 3	OBSERVE 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, Erlophyid mites, Plant bugs, Scale insects (Black scale, brown soft scale, California red scale (except in California), otrus snow scale, yellow scale (except in California)	3 to 5	crawiers are present. For best control of Eriophyld mites including citrus rust mite, apply when pest populations are low.
	Apopka weevil (adult), Citrus root weevils (adults), Fuller Rose Beetle, Little leal notcher (adult)	5 to 71/4	
	California only: California red scale, Yellow scale	5 to 16	Do not make more than 1 application per season for California red scale. Apply when crawlers are present.

• Do

tachios	Brown soft scale Lecanium scale Navel orangeworm	3 to 5	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.
		i	For dormant or delayed dormant timing, apply in combination with a recommunued dormant oil. Refer to the dormant oil abel for additional use directions and

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

• Do not apply within 14 days of harvest.

[.] Do not use on quince.

CARBARYL &I. EPA REG. NO. 347 147

	[DTS. OF THIS .	
ROP	INSECT	ACRE	SPECIFIC DIRECTIONS
Vmonos.	Black margined aphid,	2 to 5	OBSERVE BEE CAUTION
Chestnuts,	Calico scale, Codling	1	
ilberts. Pecans,	moth, European Iruit	ł	Repeat applications as necessary u
Valnuts	lecanium, Fall web-		to a total of 4 times per crop (includ
	worm, Filbert aphid,	1	ing any applications at the dormant
	Filbert leatroiler.		or delayed dormant timing) but not
	Filbertworm, Frosted	1	more often than once every 7 days.
	scale, Fruittree leaf-	ĺ	
	roller, Hickory shuck-	Ì	Use lower rates for pests attacking
	worm, Lesser web-	i	leaves. Use higher rates for pests
	worm, Navel orange-	Ì	attacking fruit and for higher
	worm, Peach twig	ļ	infestations.
	borer, Pecan leaf	ì	.
	phytloxera, Pecan nut		For scale control, apply when
	casebearer, Pecan	ì	crawiers are present.
	spittlebug, Pecan	ļ	
	weevil, San Jose scale.	i	For peach twig borer, best results
	Twig girdler, Walnut		with foliar applications have been
	caterpillar)	found by making applications in
	1	ŀ	"popcorn" or petal fall stages when
	}	ļ	the May brood begins to hatch.
	l	1	For navel orangeworm in airnonds
	í	ļ	and walnuts, best results have bee
	ſ	í	found by timing early and midsea-
	1	ļ	son applications to correspond with
	1)	moth fright peaks.
	į	Į	riout ingra peaks.
-	1	J	For filbert leafroller, best results
	1	ļ	have been found by making applica
	Į.		tions when eggs are hatching,
	i	{	repeating application on first
	1		appearance of moths and again 3
	1	{	4 weeks fater.
	1	ì	For codling moth in walnuts, best
		1	results have been found by making
	1)	applications when average cross-
	1	1	sectional diameters of developing
	1	i	nuts are 0.5 to 0.75 inches and
	i .	[again during middle or later June a
	Chestnut weevil.	4 to 5	For chestnut weevil, best results
	European sarwig	1 7.03	have been found with 4 application
		1	at weekly intervals beginning in lat
	1	}	July. The last application should be
	1	1	made prior to shuck split.
	1	1	<u> </u>
			For European earwig, thorough
	J	ļ	coverage of trunks, branches, and
		L	nuts is needed for best results.
Amonas anly	Peach twig borer,	4 to 5	For dormant or delayed dormant
	Scale insects	ì	timing, apply in combination with a
	1	1	recommended dormant oil. Refer
	1	1	the dormant oil product label for
		1	additional use directions and
	1		restrictions.

On not apply more than a total of 13 que
 dormant or delayed dormant timing.
 Do not apply within 14 days of harvest.

FOR	$\wedge \sim E$	$\sim 10^{\circ}$	100
FUH	AUIC	UNU	-

FORAGE C	ROPS		
Alfalfa, Clovers, Birdsfoot trefoil	Blister Beetles, Mexican been Beetle	1½ to 1	OBSERVE BEE CAUTION. Observe plant response precautions.
	Altatia caterpillar, Bean leaf beetle, Cucumber beetles, Green cfoverworm, Japanese beetle, Leafhoppers, Three comered altata 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.
	Altalfa weevil larvae, Armyworm, Clover head weevil, Corn earworm, Egyptian aitalfa weevil larvae, Essex skipper, European altalfa beetle, Fall army worm, yellow stinged armyworm	1 10 11/4	For altatta weevit larvae, it pretreat- ment damage is extensive, cut altalta and treat the stubble. This product is not effective against adult altalta weevits. For cutworm control, this product is most effective against species which leed on the upper portions of the plant.
	Altalia weevil larvae (west of the Rocky Mountains)	1 to 11/2	
	Atalta weevil larvae	17/2	

	, ,	PRODUCT/	
CROP	INSECT .	ACRE	SPECIFIC DIRECTIONS
Pasture, Grasses	Armyworm, Guich	1 to 11/2	Up to 2 applications per year may
Grown for Seed	bugs, Essex skipper,		be made but not more often than
	Fall armyworm, Striped	Y	once every 14 days.
	grass tooper, Thrips,		
	Range caterpillar,		To control thrips in grasses grown
	Range cranelly, Ticks		for seed use high spray pressure to improve penetration into boot.
			Carefully mark swaths to avoid over-
	total of 3 quarts per acre in 14 days of harvest or		
			Do not make more than 1
 Do not apply with 	in 14 days of harvest or	grazing.	Do not make more than 1 application per year.
 Do not apply with 	in 14 days of harvest or Black grass bug.	grazing.	
 Do not apply with 	in 14 days of harvest or Black grass bug, Grasshoppers,	grazing.	
 Do not apply with 	in 14 days of harvest or Black grass bug, Grasshoppers, Mormon cricket,	grazing.	

QTS. OF THIS

NONCROPLAND

CROP	INSECT	QTS. OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Conservation Reserve Program,	Black grass bug	1/4 to 1/2	Up to 2 applications per year may be made but not more often than
Acreage Set-aside Program, Acreage Wasteland, Rights-of-Way.	Mormon cricket, Range caterpillar, Range crane fly	1/2 to 1	once every 14 days. Carefully mark swaths to avoid over-
Hedgerows, Ditch- banks, Roadsides	Ticks	1 to 1½	

POULTRY INSECT CONTROL

		QUARTS OF THIS	
		PRODUCT/100	
POULTRY	INSECT	GALLONS OF WATER	SPECIFIC DIRECTIONS
Direct spray on:	Chicken mite,		For use as a direct mist spray on
Chickens, Ducks,	Fleas, Lice,		birds by:
Gaese, Gamebirds, Pigeons, and Turkeys	Northern Fowl Mite		1. Misting with Electric Fog Machine: Mix 10 ounces of this product in 1 gallon of spray. Use 1½ gallons per 1000 hens in cages, 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 statted floor. Repeat in 4 weeks if necessary. For Northern flow mite control, ensure pressured spray penetrates feather of vent area on birds. Direct mist spraying for chicken mitt and fleas is a supplement to spray-
		1	ing roosts and building for control of these pests.
Roosts and Buildings	Chicken mite, Bedbugs, Fleas, Fowl, tick, Lesser mealworms, Lice, Northern frow mite	4 (2½ tablespoons 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.
	I IOM III.G	{	Avoid spraying nests, eggs, and feeding and watering troughs.
	Fowl Tick	16	Ventilate while spraying.
	[(10 tablespoons	
		per gallon) nn 7 davs of slaudhter	<u></u>

GRASSHOPPER CONTROL

CROP	INSECT	OTS, OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
All crops on this label	Grasshopper	½ to 1½*	Apply % to % quarts per acre of this product for nymphs on small plants or sparse vegetation. Apply 1 to 1½ quarts per acre for mature grasshoppers or applications to dense foliage or if extended recidual actirol is desired. Be cei iain 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.

⁽sast of the Rocky Mountains)

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 allalfa foliage.

[.] Do not apply with 7 days of harvest or grazing.

May be harvested or grazed the same day as treatment

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.

CARBARYL 41, EPA REG. NO. 347 147

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 gallons of water. For concentrate spray ground applications, apply the specified dosage per acre in sufficient spray volume to provide thorough coverage. For aerial applications to forest trees (including shade trees, shelter belts, plantations, parks and recreations areas) and commercially 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.

AMOUNT OF 1	THIS PRO	DUCT TO PE	REPARE
INSECT		100 GALS.	SPECIFIC DIRECTIONS
Ants, Apple aphid, Armyworm,	1 Oz.	1 ot	Use sufficient spray volume to
Azalea leatminer, Bagworms, Birch		í '	obtain thorough coverage of
leafminer, Blister beetle, Boxelder bug,	ł i	}	upper and lower leaf surfaces.
Boxwood lealminer, Brown tail moth,)		To control scale insects, treat
Cankerworms, Catalpa sphinx, Chiggers,	!	!	trunks, stems, and twigs in
Cooley spruce gall aphid, Cutworms,	!	ł i	addition to plant foliage.
Cypress tip moth, Douglas fir tussock	,		, -
moth, Eastern spruce gall aphid, Elm	1	1	For optimum worm control, treat
leaf aphid, Eim leaf beetle, Elm span-	(i	when in early instars. Addition
worm, Enophyld mites, European pine	Į	ŀ	of a sticker may improve
shoot moth, Fall armyworm, Flea	1		residual control.
beetles, Fuller rose beetle, Gall midges,	!	ĺ	
Gall wasps, Green striped mapleworm,	ł,	{	Observe plant response
Grasshoppers, Gypsy moth, Hackberry	}	ļ	precautions.
nipplegall maker, Holly bud moth, Holly	1	İ	
leafminer, Jackpine budworm, Japanese	ł	i	Applications for control of Maple
bestia, Jaffrey pine needleminer, June	,	1	leafcutter on sugar maple
beetles, Cace bugs, Leaf hoppers, Leaf-	l	!	should be made when larvae
rollers, Locust borers, Maple leafcutter,	i	i	are in 2nd instar after mining,
Mealy bugs, Mirnosa webworm,	!	}	and as cases are being formed.
Nantucket pine tip moth, Oak leatminers,	ļ	1	1
Oak leaf skeletonizer, Oakworm	ĺ	1	Repeat treatments as
complex, Oleander caterpillar, Olive	ì	l	necessary up to a total of 2
ash borer, Orangestriped oakworm,	j	J	times per year but not more
Orange tortrix, Periodical cicada, Pine		İ	often than once every 7 days.
sawfly, Pine spittlebug, Pitch pine tip	ł .	ì	ľ
moth, Plant bugs, Poinsettia horn worm,	ļ	})
Psyllids, Puss caterpillar, Red humped	l .	\	1
oak worm, Rose aphid, Rose chafer,	í	1	1
Roseslug, Saddled prominent, Sawflies	}	{	}
(exposed), Scale insects, Sow bugs,	1	1	ł
Spiny elm caterpillar, Springtails, Spruce	•	1	[
bugworm, Spruce needlerniner, Sub-	ł	ł	}
tropical pine tip moth, Tent caterpillars,	ļ	}	j
Thornbug, Thrips (exposed), Ticks,	1	1	ነ
Walnut caterpillar, Webworms, Western	{	1	i
hemlock looper, Western spruce bud-	!	į.	1
worm, Willow leaf beetles, Yellow	1	1	Į.
poplar weevil	10		City at the second second
Elm bark beetle, lips engraver beetles,	18 oz.	4 gals.	Effective as a preventive
Mountain pine beetle, Roundheaded	1	1	treatment only. Repeat annually
pine beetle, Western pine beetle	1	1	as required to prevent beetle attacks.
	ł	1	artacks.
	j	1	Apply 1 gallon of spray per 50
	i .	ļ.	square feet of bank in May to
	i	1	early July or prior to beetle
	1	1	attack. Treat tree trunks from
	•	1	ground level up until trunk
	1	Í	diameter is less than 5 inches.
	ł	į .	Applications for control of Elm
	1)	bank beetle should consist of
	1	l .	20-30 gallons of spray for 50
	i	ſ	toot height of elm tree for
	ł	l	thorough coverage of all bank
]	l	surfaces on trunk, limbs and
	1	1	twigs.

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

LAWNS	AND RECREATION	ONAL AREAS
SITE	INSECT	SPECIFIC DIRECTIONS
Turi grasses	Ants, Armyworm, Bluegrass billbug, Centipedes, Chingoers, Chinch bugs, Cutworms, Earwig, Essex skipper, European crane fty, Fall armyworm, Fiery skipper, Fieas, Grasshoppers, June Beetles, Leathoppers, Lucerne moth, Millipedes, Mosquiñces, Sod webworms (lawn moths), Sowbugs, Spiritgalis, Ticks, White	Use 6 fl. oz. of this product per 1000 square feet (8 quarts per acre) of turt grass. Make application in sufficient spray volume for thorough coverage and turt hatch penetration. Repeat treatment as necessary. For Armyworm, Cutworm, Fall Armyworm and Sod Webworm Control: Oo not intigate treated areas following insecticide application. For Chinch Bug Control: Treat entire turt grass area rather than just damaged areas. Impation of turt grass area before insecticide application will aid in penetration into turt grass.
t	grubs, Yellowstriped army worm	For White Grub Control: Applications should be made when grubs are feeding near the soil surface, usually during late March through May, or July to early September or as recommended by local Agricultural Extension Service Agents. Water or irrigate turlorasses thoroughly soon after freatment.
	Imported Fire Ants	(Refer to OUTDOORS section of PEST CONTROL IN

AND AROUND BUILDINGS)

AUUL	MUSUUIII	U CONTROL
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	HAIE PER	YEPEH	
CROP	10 GALLONS	GALLONS	SPECIFIC DIRECTIONS
Pastures, Rangeland,	1 to 3 oz.	- 1/4 to 1 qt.	OBSERVE BEE CAUTION
Yards, Parks, Recreational Areas, Looping Camps, Military Posts, Forested Lands, Wastelands			Treat shrubbery and areas where adult mosquitoes congregate. Treat when adult mosquitoes are active in early morning or late evening. Repeat at 7 to 10 day intervals. Mix ½ to ½ quart of this product per 100 gallons in mist blower, mix ½ to 1 quart of this product in sufficient volume of water per acre in aerial sprays; mix 1 quart 1 quart of this product in sufficient volume of water per acre in aerial sprays; mix 1 quart 1 quart of this product in sufficient volume of water per acre in aerial sprays; mix 1 quart
	2½ qts.	25 qts.	of this product in sufficient volume of water per acre in low pressure ground surayers. For residual control in subtropical regions apply 4 gallons of prepared spray per 2000 square feet of surface areas. Repeat in 3 to 6 months or when necessary.

· Do not allow public use of treated areas during application or until sprays have dried. May kill shrimp and crabs. Do not use in areas where these are important resources.

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 tabrics. 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

Anta/Crickets/Firebrats/Silverfish: 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 traits, 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 Fleas: Mix 3 oz. this product per gallon of water and thoroughly spray intested 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 Ants: Mix 3 oz. this product per gallon 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/Earwigs/Millipedes/Scorpions: Mix 3 oz. 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.

Perimeter 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 gallons of water (2 fl. oz. per 3 gallons), 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 tawn 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 congregate.

Imported Fire Ants: 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 best results apply in cool weather, 65-80°F, or in early morning or late evening hours. Repeat application it mound activity resumes after 10 days. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.

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NOTICE

TIT 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 DEATHS 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

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