34704-447 12/17/98





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CARBARYL

Insecticide

or Agricultural And Commercial Use Only N-Methyl Carbamate Insecticide

ACTIVE INGREDIENT:

KEEP OUT OF REACH OF CHILDREN CAUTION

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

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, syes and clothing. Do not use this product in food areas of commercial food-handling establishments, 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 man-ner 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, 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.

Oo not apply this product in a way that will contact workers or other per-sons, 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 instructions 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 pes-ticides (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, lood, or tend by shringe or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversity affect the container or its ability to function property.

STORAGE: Store in a sale manner. Store in original container only. Store in cool, dry place. Keep container tightty 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.

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: highlity.

CONTAINER DISPOSAL: METAL: Triple hinde (or equivalent). Then offer for recycling or reconditioning, or principle and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities: PLASTIC: Triple rinse (or equivalent). Then offer itd recycling or reconditional authorities: PLASTIC: Triple rinse (or equivalent). Then offer itd recycling and the procedure approved by state and local authorities: PLASTIC: Triple rinse (or equivalent). cling or reconditioning, or puncture and dispose of in a sacrary landfill, or incineration, or, if allowed by state and local authorities, by burning. 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 1/2 to 1/4 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, 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 1/2 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 solid set. Do not apply this product through any other type of imigation 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 impation 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 pestidides and capable of being fitted with a system interlock. Do not apply when wind speed lavors 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

which nozzes up not proved upon distinction when the schooling the product must be dismanifed and draffied.

Crop injury, lack 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-imigation water. A person knowledgeable of the chemigation systern 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, F where indicated otherwise, this product is not registered for the control of a irmyworm species. Regional differences have been noted in the susceptibility of certain strains of fall armyworm, diamondback moth, Colorado potato beetle and Southern green stink bug to carbaryl. If local experience 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 foliage or during periods of high humidity may cause injury to tender foliage. Do not use on Boston Ivy, Virginia creeper and maidenhair fern as injury may result. Carbaryl 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 carbaryt 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.

CROP	INSECT	OTS, OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Asperagus	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 lead on the upper portions of the opart.
	more than a total of 6 gue	2 to 4	Application to fems 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 fems 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.

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, Collards, Kale, Kohlards, Mustard Greens	Armyworm, Aster Leafhopper, Corn earworm, Diarmond- back moth, Fall armyworm, Irrported cabbageworm, Lygus bugs, Spittlebugs, Stink bugs, Tarnished	1 to 2	Do not apply more than a total of 6 quarts per acre per crop.

plant bug 1

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

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

Cabbage, Cauliflower, and Kohlrabi, do not apply within 3 days

Carrots, Parsnips, Garden Beets, Horseradish,	Flea beetles, Leaf hoppers	3/4 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 beelle, Corn eanvorm, Cutworms, European corn borer, Fall armyworm, Laca bugs, Lygus bugs, Spittlebugs, Stink bugs, Tarnished	1 to 2	For curworm control, this product is most effective against species which feed on the upper portions of the plant.

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

. Do not apply within 7 days of harvest.

CARBAF 4L EPA REG. NO. 34704-447

CROP	INSECT	QTS. OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Cucumber, Melons, Pumpkins, Squash		1/2 to 1	Repeat applications as necessary up to a total of 6 times but not more often than once every 7 days.
	Cucumber beetles, Files beetles, Leaf- hoppers, Squash bugs	1	For optimum control of squash bugs, apply sufficient apray volume for thorough coverage and time sprays for early morning or late afternoon.
 Observe plant res 	s than a total of 6 quart ponse precautions. n 3 days of harvest.	s per acre per o	сгор.
Celery, Dandelion, Endive, Lettuce (head and leaf), Parsley, Spinach,	Flea beatles, Harlequin bug, Leathoppers	½ to 1	Repeat applications as necessary up to a total of 5 times but not more often than once every 7 days.
Swiss Chard	Armyworm, Aster leafhopper, Corn earworm, Fall armyworm, imported cabbageworm, Lygus bugs, Spittle bugs, Stink bugs, Tarnished plant bug	1 to 2	
	than a total of 6 quart	per acre per o	гор
Do not apply withit Legume Vegetables: Soybeans, Fresh	n 14 days of harvest Bean leaf beetle, Bilster beetle, Cucumber beetles, Grape colapsis,	1/2 to 1	Repeat applications as necessary up to a total of 4 times but not more often than once every 7 days.
and Dried Beans (including shap, navy and kidney)	Green cloverworm, Japanese beetle, Mexican bean beetle, Velvetbean		For cutworm control, this product is most effective against species which feed on the upper portions of the plant.
Fresh and Dried Peas,	caterpillar	<u> </u>	Use lower rates for light to moderate
Lentils, Cowpeas, Southern Peas Do not use on fentils in California	Corn earworm Alfalfa caterpillar, Colonado potatoto bestie, Flea bestles, Leathoppers, Three cornered alfalfa hopper, Thrips, Western bean cutworm	½ to 1½	populations and smaller instars and provide maximum survival of beneficial insects and spiders. Use the higher rates for heavy populations and larger instars.
:	Armyworm, Cutworms, European corn borer, Fall armyworm Stink bugs, Tarnished plant bug, Webworms	1 to 1%	
	Afatfa looper (suppression), Cowpea curculio (suppression), Painted lady (Thistle catapitlar), Pea leaf weevil, Pea weevil, Saltmarsh caterpitlar, Vifoollybean cater pitlar, Yellow-striped armyworm	11%	
• Do not apply more	California only: Corn earworm (suppression), Lima bean podborer (suppression), Lygus bugs (suppression) stink bugs (suppression) stran at lotal of 6 quart	11/2 s per acre per cot and 2.4-D8 h	oropa.

Do not apply a combination of this product and 2 may result.
 Observe plant response precautions.
 Do not explain within 14 flows of greating or harpest.

Olives	Scale insects (olive scale, black scale)	5 to 71/2	Up to 2 applications per crop may be made but not more often than once every 14 days.
			For optimum scale control, a tank moture with 1½ galkons of summer oil per 100 galkons of spray mixture can be applied when crawlers are present. Refer to summer oil product label for additional use directions and perti

Do not apply more than a total of 15 quarts per acre per crop.
 Do not apply within 14 days of harvest.

		OTS, OF THIS PRODUCT/	
ROP omato, Eggplant,	Colorado potato	ACRE 1 to 2	SPECIFIC DIRECTIONS
abbet owner, radbons	beetle, European comborer, Fall army-	1102	Repeat applications as necessary up to a total of 7 times but not more ofter than once every 7 days.
	worm, Lace bugs, Stink bugs, Tarnished plant bug, Thrips		Thorough coverage is essential to effectively suppress stink bugs.
	(suppression), Tomato truit worm, Tomato hornworm, Tomato		When disease transmission is suspected, monitor fields following
	pinworm Flea beetles, Leaf-	% to 1	application and retreat if reinfestation occurs but not more often than once every 7 days.
	hoppers		For cutworm control, this product is
	Cutworms	2	most effective against species which lead on the upper portions of the plant.
	e than a total of 6 quarts	s per crop.	
Do not apply with	in 3 days of harvest. [Armyworm, Chinch	1 to 2	OBSERVE BEE CAUTION.
opcom	bugs, Corn earworm, Corn rootworm adults.	102	Repeat applications as needed up to
	European com borer, Fall armyworm, Flea beetles, Japanese	ļ	a total of 4 times but not more often than once every 14 days.
	beetle, Sap beetles, Southwestern corn borer, Leathoppers		Optimum timing and good coverage are essential for effective control.
	European corn borer	1½ to 2	For optimum chinch bug control, use ground equipment to apply at least
	0.4		20 gallons of water per scre and
	Cutworms, Western been cutworms	2	direct apray toward stalk to provide thorough coverage.
			for optimum European com borer control, do not apply in less than 3
	}		gallons of water per sore by air and 15 gallons of water by ground.
	j l		For western bean cutworm, treat when infestation averages 15% and
	}	ļ	at 90% to 100% tassel emergence. Treatment after 100% silk emer-
	ĺ	!	gence will reduce effectiveness. For optimum outworm control, apply
			in a 12-inch band, over the row, using sufficient volume of water to
	}		obtain thorough coverage. For broadcast application, use at least 20 galions by ground or 5 galions by
			air per acra. For cutworm control, this product is most effective against species which
			leed on the upper portions of the
Do not apply with grazing of forage	or silage.	grain and fodd	ler or within 14 days of harvest or
		% 10 T	For optimum control of early season pests, use banded and/or directed
	Cotton Bahopper, Cotton leafhopper, Flea beetles, Striped blister beetle, Thrips		sprays. Total coverage is essential for maximum control.
	Cotton fleahopper, Cotton leaflopper, Flea beetles, Striped bilister beetle, Thrips Boll weevil, Cotton	1 to 11/2	sprays. Total coverage is essential for maximum control. Repeat applications as necessary up
	Cotton fleathopper, Cotton feathopper, Flea beetles, Striped blister beetle, Thrips	1 to 1½	sprays. Total coverage is essential for maximum control.
	Cotton fleahopper, Cotton leafhopper, Flea bestlex, Striped bilster beetle, Thrips Boll weevil, Cotton bollworm, Fall army- worm, Leaf rollers,	1 to 1½	sprays. Total coverage is essential for maximum control. Repeat applications as necessary up a total of 4 times but not more often than once every 7 days
	Cotton fleahopper, Cotton leafhopper, Cotton leafhopper, Flea beetles, Striped bilster beetle, Thrips Boll weevil, Cotton bollworm, Fall army- worm, Leaf rollers, Leafhoppers, Tarrished plant bug, Yesow-striped army- worm (cotton cutworm),		sprays. Total coverage is essential for maximum control. Repeat applications as necessary up a total of 4 times but not more often than once every 7 days. Use for light to moderate populations of Lygus bugs in Western irrigated cotton only. Aphid populations may be
	Cotton fleahopper, Cotton leafhopper, Flea bestles, Striped blister beetle, Thrips Boll weevil, Cotton bollworm, Fall army- worm, Leaf rollers, Leafhoppers, Tarrished plant bug, Yellow-striped army- worm (cotton	1 to 1½	sprays. Total coverage is essential for maximum control. Repeat applications as necessary up a total of 4 times but not more often than once every 7 days. Use for light to moderate populations of Lygus bugs in Western irrigated cotton only.
	Cotton fleahopper, Cotton fleahopper, Cotton leafhopper, Flea beetles, Striped bilister beetles, Thrips Boll weevil, Cotton bollworm, Fall army- worm, Leaf rollers, Leafhoppers, Tarnished plant bug, Yellow-striped army- worm (conton cutworm), Cutworms, Pink boll- worm, Stink bugs,		sprays. Total coverage is essential for maximum control. Repeat applications as necessary up a total of 4 times but not more often than once every 7 days. Use for light to moderate populations of Lygus bugs in Western irrigated cotton only. Aphid populations may be suppressed by application of this insecticide. For culworm control, this product is most effective against species which
otton	Cotton fleahopper, Cotton leafhopper, Cotton leafhopper, Flea bestles, Striped bilster beetle, Thrips Boll weevil, Cotton bollworn, Fall army- worm, Leaf rollers, Leafhoppers, Tarnished plant bug, Yellow-striped army- worm (cotton cutworm), Cutworms, Pink bolt- worm, Stink bugs, Saltmarsh caterpillar	1%	sprays. Total coverage is essential for maximum control. Repeat applications as necessary up a total of 4 times but not more often than once every 7 days. Use for light to moderate populations of Lygus bugs in Western irrigated cotton only. Aphild populations may be suppressed by application of this insecticide. For culworm control, this product is most effective against species which teed on the upper portions of the plant.
On not apply mor	Cotton fleahopper, Cotton fleahopper, Cotton leafhopper, Flea beetles, Striped bilister beetle, Thrips Boll weevil, Cotton bollworm, Fall army- worm, Leaf rollers, Leafhoppers, Tarnished plant bug, Yellow-striped army- worm (cotton cutworm), Cutworms, Pink boll- worm, Stink bugs, Saltmarsh caterpillar	1½	porays. Total coverage is essential for maximum control. Repeat applications as necessary up a total of 4 times but not more often than once every 7 days. Use for light to moderate populations of Lygus bugs in Western irrigated cotton only. Aphid populations may be suppressed by application of this insecticide. For culworm control, this product is most effective against species which lead on the upper portions of the plant, crop.
Do not apply mor Do not apply with lax	Cotton fleahopper, Cotton fleahopper, Cotton leafhopper, Flea beetles, Striped bilister beetle, Thrips Boll weevil, Cotton bollworm, Fall army- worm, Leaf rollers, Leafhoppers, Tarnished plant bug, Yellow-striped army- worm (cotton cutworm), Cutworms, Pink boll- worm, Stink bugs, Saltmarsh caterpillar	1½	sprays. Total coverage is essential for maximum control. Repeat applications as necessary up a total of 4 times but not more often than once every 7 days. Use for light to moderate populations of Lygus bugs in Western irrigated cotton only. Aphid populations may be suppressed by application of this insecticide. For curvorm control, this product is most effective against species which feed on the upper portions of the plant. crop. 14 days of harvest for forage. Up to 3 pp3/pp1/pns per crop may be made but not more often than once
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Do not apply mor Do not apply with lax Do not use california. Do not apply with	Cotton fleahopper, Cotton leafhopper, Cotton leafhopper, Flea bestles, Striped bilster bestles, Thrips Boll weevil, Cotton bollworm, Fall army- worm, Leaf rollers, Leafhoppers, Tarnished plant bug, Yellow-striped army- worm (conton cutworm), Cutworms, Pink bolt- worm, Stink bugs, Saltmarsh caterpillar a than a total of 6 quart in 42 days of harvest to Armyworms, Chinch bugs, Corn earworm, Fall armyworms, Chinch bugs, Corn earworm, Fall armyworms, Chinch bugs, Corn earworm, Fall armyworm, Stink	s per acre per seed or withle to 1½ s per acre per seed or straw	sprays. Total coverage is essential for maximum control. Repeat applications as necessary up a total of 4 times but not more often than once every 7 days. Use for light to moderate populations of Lygus bugs in Western irrigated cotton only. Aphid populations may be suppressed by application of this insecticide. For culworm control, this product is most effective against species which feed on the upper portions of the plant. crop. 14 days of harvest for forage. Up to 3 ppglipplips per crop may be made but not more often than once in every 14 days.
Do not apply mor Do not apply with lax Do not use california. Do not apply with	Cotton fleahopper, Cotton leafhopper, Cotton leafhopper, Flea beetles, Striped bilster beetle, Thrips Boil weevil, Cotton bollworm, Fall army- worm, Leafhoppers, Tarnished plant bug, Yesow-striped army- worm (cotton cutworms, Pink boll- worm, Stink bugs, Saltmarsh caterpillar e than a total of 6 quart in 42 days of harvest for Armyworm Fall armyworm, Shink bugs, Corn earworm, Fall armyworm, Shink bugs, Webworms	s per acre per seed or within 1 to 1½ s per acre per reed or straw	sprays. Total coverage is essential for maximum control. Repeat applications as necessary up a total of 4 times but not more often than once every 7 days. Use for light to moderate populations of Lygus bugs in Western irrigated cotton only. Aphild populations may be suppressed by application of this insecticide. For culworm control, this product is most effective against species which lead on the upper portions of the plant. crop. 14 days of harvest for forage. Up to 3 applications per crop may be made but not more often than once in every 14 days. crop. 14 days. Crop. 15 Depet applications as necessary up to a total of 4 times but not more often than brick every 7 days. Circut spray into followers attacking the continue monts of of insects attacking the continuement of t
Do not apply mor Do not apply with lax Do not use california. Do not apply with	Cotton fleahopper, Cotton leafhopper, Cotton leafhopper, Plea bestles, Striped bilster beetle, Thirips Boll weevil, Cotton bollworn, Fall army- worm, Leaf rollers, Leafhoppers, Tarnished plant bug, Yellow-striped army- worm (cotton cutworm), Cutworms, Pink bolt- worm, Stink bugs, Saltmarsh caterpillar a than a total of 8 quart in 42 days of harvest to Armyworms, Chinch bugs, Corn earworm, Fall armyworm, Stink bugs, Webworms Southwestern corn borer	s per acre per seed or within 1 to 1% seed of straw	sprays. Total coverage is essential for maximum control. Repeat applications as necessary up a total of 4 times but not more often than once every 7 days. Use for light to moderate populations of Lygus bugs in Western irrigated cotton only. Aphild populations may be suppressed by application of this insecticide. For culworm control, this product is most effective against species which teed on the upper portions of the plant. crop. 14 days of harvest for forage. Up to 3 pp/lip/lights per crop may be made but not more often than once in every 14 days. Crop. Repeat applications as necessary up to a total of 4 times but not more often than brick every 7 days. Direct spray into forming heads for optimum conti of insects attacking heads; 2 2 3 1 1
Do not apply more po not apply with lax Do not use california. Do not apply with po not apply more po not apply with lax layers.	Cotton fleahopper, Cotton leafhopper, Cotton leafhopper, Flea beetles, Striped bilister beetles, Thrips Boll weevil, Cotton bollworm, Fall army- worm, Leaf rollers, Leafhoppers, Tarnished plant bug, Yellow-striped army- worm (conton cutworm), Cutworms, Pink bolt- worm, Stink bugs, Saltmarsh caterpillar a than a total of 6 quart in 28 days of harvest for Armyworm e than a total of 3 quart in 42 days of harvest for Armyworms, Chinch bugs, Corn earworm, Fall armyworm, Sink bugs, Webworms Southwestern corn	s per acre per seed or within sper acre per seed or straw	sprays. Total coverage is essential for maximum control. Repeat applications as necessary up a total of 4 times but not more often than once every 7 days. Use for light to moderate populations of Lygus bugs in Western irrigated cotton only. Aphild populations may be suppressed by application of this insecticide. For culworm control, this product is most effective against species which lead on the upper portions of the plant. crop. 14 days of harvest for forage. Up to 3 policopions per crop may be made out not more often than once in every 14 days. crop. Repeat applications as necessary up to a total of 4 times but not more often than brick every 7 days. Otherst spray into 10 insects affaction of pression of the post of insects affaction of this product is continued to the post of insects affaction of the post of insects affaction of the post of insects affaction of the product of the post of insects affaction of the post of the post of insects affaction of the post
Do not apply more Do not apply with Flax Do not use Callornia.	Cotton fleahopper, Cotton leafhopper, Cotton leafhopper, Plea bestles, Striped bilster beetle, Thirips Boll weevil, Cotton bollworn, Fall army- worm, Leaf rollers, Leafhoppers, Tarnished plant bug, Yellow-striped army- worm (cotton cutworm), Cutworms, Pink bolt- worm, Stink bugs, Saltmarsh caterpillar a than a total of 8 quart in 42 days of harvest to Armyworms, Chinch bugs, Corn earworm, Fall armyworm, Stink bugs, Webworms Southwestern corn borer	s per acre per seed or within 1 to 1% seed of straw	parays. Total coverage is essential for maximum control. Repeat applications as necessary us a total of 4 times but not more often than once every 7 days. Use for light to moderate populations of Lygus bugs in Western irrigated cotton only. Aphid populations may be suppressed by application of this insecticide. For culworm control, this product is most effective against species which lead on the upper portions of the plant. Crop. 10 to 3 harvest for forage. 10 to 3 harvest for forage. 10 to 3 harvest for forage. The peat applications as necessary us a total of 4 times but not more often than brick every 7 days. Direct spray into forming heads for optimum cont is of insects attacking heads? For optimum cont is of insects attacking heads? For optimum cont is of insects attacking heads?

[•] Do not apply within 21 days of grazing of forage or silage.

CARBARY! \$L. EPA REG. NO. 34 4-447

CROP	INSECT_	QTS. OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Peanuts	Blister beetles, Mexican bean beetle	1/2 to 1	Repeat applications as necessary up to a total of 5 times but not more often than once every 7 days.
	Altalta caterpillar, Bean leaf beetle, Cucumber beetles, Green clowerworm, Japanese beetle, Leathoppers, Red- necked peanut worm, Three comered altalfa hopper, Thrips, Velvet bean caterpillar	1	For optimum control of thrips, use directed or banded sprays with hollow cone spray nozzles. Ensure adequate coverage for the underside of leaves.
	Armyworm, Corn ear- worm, Fall armyworm, Stink bugs, Webworms	1 to 11/2	For cutworm control, this product is most effective against species which lead on the upper portions of the folant.
	Whitefringed beetle adults, Cutworms	2	

Observe plant response precautions.

Do not apply within 14 days of harvest 1 to 11/2 Up to 2 applications per crop may be Armyworm, Chinch bugs, Fall armywom made but not more often then once Leathcopers, Stink every 7 days. buas Tachole shrimo 11/ California only: For optimum tedpole shrimp control, apply to water when pest first appears.

. Do not apply more than a total of 4 quarts per acre per crop.

CAUTION: May kill shrimp, crabs and craylish.

. Do not apply propanil herbicides within 15 days before or after application of this product or plant injury will result

Berries: Canabarries. Blueberries. Cranberries, Grapes, Strawbernes

On not apply within 14 days of hervest for grain or straw Small Fruits and European fruit 1 to 2 OBSERVE BEE CAUTION lecanium, European Receat applications as necessary raspberry aphid, Fles beerles, Grape leaf up to a total of 5 times but not more folder, Grape leaf often than once every 7 days roller, Japanese beetle, Leathoppers, For cutworm control, this product is Learrollers, Meadow most effective against species which spittlebug, Omnivorous leaftier, Rose challer, feed on the upper portions of the plant. Snowy tree cricket, In grapes for grape leaffolder control, apply before first brood farvae Strawberry bud weevs, Strawberry clipper, Strawberry emerge from rolls. fruitworm, Strawberry în grapes, do not concentrate spray leafroiler, Strawberry on the bunch or visible residues weevil, Wastern graps leaf skeletonizer, may result.

Western yellowstriped aimyworin Blueberry maggot, 11/4 lo 2 Cherry fruitworm, Cranberry fireworm, Cranberry fruitworms, Cranberry twig girdler, moth, Spaganothus worm. Tarnished plan bug Eight-spotted lorester Cutworms, Grape

berry moth, June beeties, Omnivorous leatroller, Orange wrtrix Rasoberry fluitworm, Raspberry sawfly, Redbanded majroter, Saltmarsh

Caterpillar • Do not apply more than a total of בוני prts per acre per crop.

CAUTION: Use in cranberrieumay kill syrimp and crabs. Do not use in areas where these are important resultides.
 Carbaryi may, injuge Early Daym, and Sunitse varieties of strawberries.

Do not apply within 7 days of harvest.

Sugar beets* Armyworm, Beet leaf Sugar beets Repeat applications as necessary 1 10 11/2 up to a total of 2 times but not more feete, Fall armyworm Flee beetles, Lezi often than once every 14 days. hoppers, Weimbittis For cutworm control, this product is Culworms 11/2 most effective against species which feed on the upper portions of the

. Do not agoly more than a total of 3 quarts per acre per crop.

Do not apply within 28 days of harvest for roots or forage.

CROP	INSECT)	QTS. OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Sunflower	Stem weevil.	10 1%	Up to 2 applications may be made
	Sunflower beetle		but not more often than once every
Do not use in	Cutworms, Armyworm,	11/2	7 days.
California.	Fall armyworm, Sun-	1	,
	flower moth		For cutworm control, this product is most effective against species which leed on the upper portions of the
- D- 201	1		plant.
* Do not apply more	s than a total of 3 quart	be screber	crop.
Sweet Corn	Armyworm, Chinch		e or within 60 days of harvest for seed.
SWEEK COM	bugs, Corn earworm,	1 to 2	OBSERVE BEE CAUTION
	Com rootworm adults.		Repeat applications as necessary
	Fall armyworm, Flea		up to a total of 8 times but not more
	beetes, Japanese	l	often than once every 3 days.
	beetle, Sap beetles,	ĺ	Optimum timing and good coverage
	Southwestern corn		are essential for effective control.
	borer, Leafhoppers	1	are essential for engicine control.
	CONTRACTOR		Cor because asserting allter and annual
	European corn borer	1½ to 2	For insects attacking silks and ears,
	Loropean com oca	172 10 2	insecticide sprays should be applied starting when first silks appear and
	Western bean	2	continuing until silks begin to gry.
	cutworm, Cutworms	-	During silking, the minimum retreat-
			ment interval (3 days) may not pro-
	[ĺ	vide adequate levels of protection
	1		under conditions of rapid growth or
	ł i		severe pest pressure. The use of an
			alternative product should be consid-
] 	ŀ	ered in conjunction with this product.
			For optimum chinch bug control, use ground equipment to apply at least 20 gallons of water per acre and direct spray toward stalk to provide thorough coverage.
	i 1		For optimum European comborer
			control, do not apply in less than 3 gallone of water per acre by air and 15 gallons of water by ground.
			For western bean cusworm, treat when injestation average 15% and at 90% to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness.
			For optimum cutworm control, apply in a 12-inch band, over the row, using sufficient volume of water to obtain thorough coverage.
			For broadcast application, use at least 20 gallons by ground of 5 gallons by ground of 5 gallons by air per acre. 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 16 quarts per acre per crop.

. Do not apply within 2 days of harvest of ears, within 14 days of harvest or grazing of forage,

or within 48 days of harvest of todder. Prepiant dip for control of sweet potato weevii: Just prior to planting, dip sweet potato cuttings in a suspension containing 2 gallons of Cucumber beetles. Flee beetles, Swe potato hornworm. Sweet potato we this product in 100 gallons of water Whitefringed beetle. (2.6 fluid ounces per gallon of Tortoise beatles For foliar sprays, repeat applications as necessary up to a total of 8 times but not more often than once every Yellowstriped army-

7 days. Do not apply more than a total of 8 quarts per acre per crop with in-season sprays.

Do not apply more than a total of 1.2 quarts per acre as a preplant dip treatment.

 Do not apply within 7 days of harvest.

Tobacco | Budworms, Fall army Plant bed and Field Treatment worm, Tobacco flea beetles, Hornworms, Repeat treatments as necessary up Japanese beetle, June beetle, Suckfly 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 knee height). Use at least 10 gallons of prepared spray per acre. Begin

treatments when worms are small. . Do not apply more than a total of 8 quarts per acre per crop.

Observe plant response precautions.

Tobacco may be harvested on the day of treatment
Wheat, Flea beetles 1/2 to Up to 2 applications per crop may be 12 10 Proso Millet Cereal leaf beetle made but not more often than once Amyworm, Fall 1 10 114 Do not use in Application is effective against eggs, larvae, and adults of the cereal leaf Application for armyworm control should be made when armyworms are ectively leading on the upper foliage and night temperature and not expected to drop below 55°F. If applying by air to lush growth, use a minispray volume of 5 gallons per

acre to optimize coverage. Do not apply more than a total of 3 quarts per acre per crop.

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

CARBAF)4L EPA REG. NO. 34704-447

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.

	l	· · · — —
CROP	OTS, OF THIS	
	PRODUCT PEN ACKE	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 apples between 90% petal fall and up to 9mm 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 temperatures exceed 85%. Consult with your County Extension Service or other experts for advice on the proper use of this product.

- Do not apply more than a total of 15 quarts per scre per crop.
 Do not make more than a total of 8 applications per crop.
- Do not apply within 3 days of harvest.

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 dandelions) are in bloom, mow the cover crop on the orchard floor and borders prior to the application to amove 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. hours in advance.

Dandelions on the orchard floor are a main attractant to bees during and shortly after the apple blooming period. To control dandellons and other broadlest weeds, apply a labeled 2.4-D in the latt 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, Loquets, Crabapples, Oriental pears	White apple leafhopper	1/2 to 11/2	On apples, avoid use during the
,	Apple aphid, Codling moth	1 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 pearstug (pear sawfly), European apple sawfly, Eyespotted bud moth, Fruittrae		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.
!	leafroller, Gypsy moth, Japanese beetle, Lesser appleworm, Lygus bugs, Orange		For psylla control, apply when eggs hatch or young nymphs are present.
	tortrix, Pearleaf blister mite, Pear psylia, Pear rust mite, Periodical cicada.		For scale control, apply when crawlers are present.
	Plum curculio, Red- banded leafroller, Rosy apple aphid, Scale		
	insects (Forbes scale, Lecenium scale, San		
	Jose scale), Tamished plant bug, Tentiform leafminers, Woolly		
	apple aphid, Yellow- headed fireworm		

- . Do not use on pears between the tight flower cluster up to the 20 mm fruit size.
- . Do not use on quince.

than a total of 15 quart	is per acre per	crop.
than a total of 8 applic	ations per crop	D.
n 3 days of harvest.		
Apple pandemis,	2 to 3	OBSERVE BEE CAUTION
Cherry fruitworm, Cherry maggot (Cherry fruit fly), Codling moth, Cucumber beetles,		Repeat applications as necessary up to a total of 3 times per crop but not more often than once every 7 days. An additional application at the dormant or delayed dormant
Eastern tent caterpillar, Eyespotted bud moth, European earwig, Fruittree leafroller, Green fruitworm.		twing may be made. For optimum scale control, apply when crawlers are present.
Gypsy moth, Japanese beetle, June beetle, Lesser peachtree borer, Meely plum aphid, Orange tortrix		For lesser peachtree borer, best results have been found by thoroughly spraying limbs and tree trunks at weekly intervals during moth flight.
	than a total of 8 application of a days of hervest. Apple pandemis. Black cherry aphid. Cherry fruitworm, Cherry maggot (Cherry fruit fly). Codling moth. Cucumber beetles, Eastern tent caterpillar, Eyespotted bud moth, European earwig, Fruittree leahroller, Green fruitworm, Gypsy moth, Japanese, beetle, June beetle, Lesser peachtree borer, Mealy plum	Apple pandemis. Black cherry aphid. Cherry fruit fly). Codling moth. Cucumber beetles. Eastern tent caterpillar. Eyespotted bud moth. European earwig. Fruittree leafroller, Green fruitworm. Gypsy moth. Japanese beetle, June beetle. Lesser peachtree borer, Mealy plum

CROP	INSECT	QTS. OF THIS PRODUCT!	
Apricots.	Oriental fruit moth.	ACRE	SPECIFIC DIRECTIONS
opraxis. Chemiss.	Peach twig borer.	ł	
Nectarines.	Periodical cicada.	ĺ	1
Peaches, Plums.	Plum curculio, Prune		j
and Prunes contd.			1
DIG F I GIRDS DOWN G.	banded leafroller.		}
	Rose chater, Scale		
	insects (Brown soft		
	scale, Forbes scale.		<u> </u>
	Lecanium scale.		j.
	Olive scale, Ovster-		ļ
	shell scale, San Jose	l	1
	scale), Tarnished plant		l
	bug, Tussock moth,		ł
	Variegated leafroller		
	California only:	• •	l
	Black cherry aphid	3 to 4	OBSERVE BEE CAUTION
	Cherry fruitworm,		{
	Cherry maggot		Repeat applications as necessary
	(Cherry fruit fly), Codling moth.		up to a total of 3 times per crop but
	Cucumber beetles.		not more often than once every 14
	Evespotted bud moth:		days. An additional application at
	European earwig.		the dormant or delayed dormant
	Fruittree leafroller.		timing may be made.
	Green truitworm.		For optimum scale control, apply
	Mealy plum aphid,		when crawlers are present.
	Orange tortrix, Oriental		Miles Commis ale present
	fruit moth, Peach twig		ſ
	borer. Scale insects		}
	(Brown soft scale.		
	Forbes scale.]
	Lecanium scale, Olive		
	scale, Ovstershell		
	scale, San Jose scale).		
	Tarnished plant bug.		
	Tussock moth,		
	Peach twig borer,	4 to 5	For dormant or delayed dormant
	Scale insects (Brown		timing, apply in combination with
	soft scale, Forbes		recommended dormant oil, Refer to
	scale, Lecanium scale,	·	the dormant oil product label or
	Olive scale, Oyster-	'	additional use directions and
	shell scale, San Jose	·	restrictions.
	scale)		

Citrus Fruits	Avocado leafroller, California orangedog, Citrus cutworm, Fruit- tree leafroller, Orange Tortrix, Western tussock moth	2 to 3	ot apply within 1 day of harvest. OBSERVE BEE CAUTION. Repeat applications as necessary up to a lotal of 8 times but not more often than once every 14 days. For scale control, apply when
	Citrus rust mite, Eriophyid mites, Plant bugs, Scale insects (Black scale, brown soft scale, California red scale (except in California), citrus snow scale, yellow scale (except in California)	3 to 5	crawlers are present. For best control of Eriophyid mites including citrus rust mite, apply when pest populations are low.
	Apopka weevil (adult), Citrus root weevila (adults), Fuller Rose Beetle, Little leaf notcher (adult)	5 to 71/2	
	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.

	ore than a total of 20 qua ithin 5 days of harvest.	rts per acre pe	f crop.
listachios .	Brown soft scale Lecanium scale Navel orangeworm	3 to 5	Repeat applications as necessary up to rytotal of 4 limes per crop (including any applications at the dormant or delayed dormant
	Scale insects	7465	timing) but not more often than once every 7 (32)(5). For scale control, apply when crawless are present. For domaint or delayed dormaint timing, apply in combination with a recommended dormaint oil. Refer to the dormaint of product label for additional time greathertons.

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

. Do not apply within 14 days of harvest.

CARBARY L EPA REG. NO. 3-, -04-447

		QTS. OF THIS PRODUCT/	
CROP	INSECT	ACRE	SPECIFIC DIRECTIONS
Almonds, Chestnuts,	Black marginad aphid, Calico scale, Codling	2 to 5	OBSERVE BEE CAUTION
Filberts, Pecans,	moth, European truit	ļ	Repeat applications as necessary up
Walnuts	lecanium, Fall web-		to a total of 4 times per crop (includ-
	worm, Filbert aphid,	J	ing any applications at the dormant
	Filbert leafroller,	1	or delayed dormant timing) but not
	Filbertworm, Frosted		more often than once every 7 days.
	scale, Fruittree leaf-	ĺ	1
	roller, Hickory shuck-	l	Use lower rates for pests attacking
	worm, Lesser web-	ì	leaves. Use higher rates for pests
	worm, Navel orange-	1	attacking fruit and for higher
	worm, Peach twig	ł	infestations
	borer, Pecan leaf	•	
	phylloxers, Pecart nut	J	For scale control, apply when
	casebearer, Pecan	Į	crawlers are present.
	spittlebug, Pecan	1	Commis are present.
	weevil, San Jose scale.	ĺ	For a such build bessed book assume
		ł	For peach twig borer, best results
	Twig girdler, Walnut	ł	with foliar applications have been
	caterpillar	l .	found by making applications in
	1	}	"popcorn" or petal fall stages when
		· ·	the May brood begins to hatch.
	f	ĺ	For navel orangeworm in almonds
	1	ł	and walnuts, best results have been
	i i	ì	found by timing early and midsea-
	1	ŀ	son applications to correspond with
	i i	Ì	moth flight peaks.
		}	For filbert leamoller, best results
			have been found by making applica-
	1	Į.	tions when eggs are hatching,
	1	1	repeating application on first
	•	ł	appearance of moths and again 3 to
	,		4 weeks later.
	1	ĺ	For codling moth in watnuts, best
	5	}	results have been found by making
			applications when average cross-
	l l	1	sectional diameters of developing
	1	ĺ	nuts are 0.5 to 0.75 inches and
	Į.	L	again during middle or later June as
	i	<u></u>	needed
	Chestnut weevil.	4 to 5	For chestnut weevil, best results
	European earwig		have been found with 4 applications
	'	l	at weekly intervals beginning in late
	Į.	ļ	July: The last application should be
			made prior to shuck split.
	1	ĺ	For European earwig, thorough
]	J	coverage of trunks, branches, and
			nuts is needed for best results.
Almonds only	Peach twig borer.	4 to 5	For dormant or delayed dormant 4
randros oraș	Scale insects	l ''	timing, apply in combination with a
		l	recommended dormant oil. Refer to
	1	}	the dormant oil product label for
		l	additional use directions and
	}	}	restrictions.
		<u> </u>	crop, including any application at the

Do not apply more than a total of 15 quadormant or delayed dormant (iming.
 Do not apply within 14 days of harvest.

FORAGE C Alfalfa, Clovers, Birdsfoot trefoil	Blister Beetles, Mexican been Beetle	16 to 1	OBSERVE BEE CAUTION. Observe plant response precautions.
.:	Affaifa caterpillar, Bean leaf beetle, Cucumber beetles, Green cloverworm, Japanese beetle, Cathoppers, Three gomered affalfa 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.
•	Armyworm, Clover head weeth, "Cohin" earworm, Egyptian atlatia weevil larvae, Essex skipter, " " European stigits, beetle, Fall army striped armyworh " "	1 10 11/2	For altalfa weevil larvae, if pretraat- ment damage is extensive, cut altalfa and treat the atubble. This product is not effective against adult altalfa weevils. For cutworm control, this product is most effective against species which feed on the upper portions of the plant.
•	Alfalia weevil larvae (west of the Flocky Mountains)	1 to 1½	
.*.	Alfalfa weevil larvae	11/2	7

CROP	INSECT	OTS, OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Pasture, Grasses Grown for Seed	Armyworm, Chinch bugs, Essex skipper, Fall armyworm, Striped grass looper, Thrips, Range caterpillar, Range cranefly, Ticks	1 to 1%	Up to 2 applications per year may be made but not rapre often than once every 14 days. To control thrips in grasses grown for seed use high agray pressure to improve penetration into boot. Carefully mark swaths to avoid over application.
	total of 3 quarts per acre in 14 days of harvest or		
Rangeland	Black grass bug, Grasshoppers, Mormon cricket, Range caterpillar, Range crane fly,	⅓ to 1	Do not make more than 1 application per year.
	Ticks	1	Carefully mark swaths to avoid over application

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

NONCROPL	AND		
CROP	INSECT	QTS, OF THIS PRODUCT/ ACRE	SPECIFIC DIRECTIONS
Conservation Reserve Program,	Black grass bug	¾ to ½	Up to 2 applications per year may be made but not more often than
Acreage Set-aside Program, Acreage	Range caterpillar,	1/2 to 1	once every 14 days.
Wasteland, Flights-of-Way,	Range crane fly	<u> </u>	Carefully mark swatts to avoid over- application.

POULTRY INSECT CONTROL

	ĺ	QUARTS OF THIS	İ
		PRODUCTAGO	
POULTRY	INSECT	GALLONS OF WATER	SPECIFIC DIRECTIONS
Direct spray on:	Chicken mite,		For use as a direct mist spray on
Chickens, Ducks,	Fises, Lice,		birds by:
Geese, Gamebirds, Pigeons, and Turkays	Northern Fowl		1. Misting with Electric Fog Machine: Mist 10 ounces of this product in 1 gallon of spray. Use 1½ gallons per 1000 hens in cages, on litter or on statted floor. Repeat in 4 weeks it necessary. 2. Spraying with Innapsack 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 it necessary. For Northern fowl mite control, ensure pressured spray penetrates teather of vent area on birds. Direct mist spraying for chicken mite and floas is a supplement to spraying roosts and building for control of
Roosts and	Chicken mite.	 	Apply 1 to 2 gallons of spray mix-
Puildings	Bedbugs, Fleas, Fowl, tick, Lesser meatworms, Lice, Northern lowl mite	(2½ tablespoons per gallon)	ture with conventional power spray of knapsack equipment per 1000 square feet of wall, little or roost surface. Force spray into cracks. Repeat as needed. Void spraying nests, eggs, and feeding and watering troughs.
	Fowt Tick	16	Ventilate while spraying.
	İ	(10 tablespoons	1
		per gallon)	<u> </u>

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

CDASSHOPPED CONTROL

CROP	INSECT	QTS. OF THIS PRODUCT! ACRE	SPECIFIC DIRECTIONS
All crops on this label	Grasshopper	18 to 118.	Apply ½ to ¾ quarts per acre of this product for hymphs on small plants or sparse vegetation. Apply to 1½ quarts per acre for mature grasshoppers or applications to dense foliage or # extended residual control is desired. Be certain spray volumea 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 laited for the site or exceed other use restrictions.

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 alfalfa foliage.
 Do not apply with 7 days of harvest or grazing.

Hights-or-vray,
Hedgerows, DitchDarks, Roadsides
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.

EPA REG. NO. 34704-447

TREES AND ORNAMENTALS

For dilute-spray ground applications to trees (including shade trees, shelter belts, non-urban lorests, 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 takes, steams and ponds.

INSECT	3 GALS.	100 GALS.	SPECIFIC DIRECTIONS
Ants, Apple aprild, Armyworm, Azalea leafminer, Basworms, Birch leafminer, Blister beette, Boxelder bug, Boxwood leafminer, Brown tail moth, Cankerworms, Catalpa sphims, Chiggera, Cooley spruce gall aphid, Cutworms, Cypress tip moth, Douglas fir bussood, moth, Eastern spruce gall aphid, Elm leaf sphid, Elm leaf beette, Elm span- worm, Eriophyld mittes, European pine shoot moth, Fall armyworm, Flea beettes, Fuller rose beette, Gall midges, Gall wasps, Green striped mapleworm, Grasshoppers, Gypsy moth, Hackberry nipplegall maker, Holly bud moth, Holly leafminer, Jackpine budworm, Japrese beettes, Lectus borers, Maple leafcutter, Mealy bugs, Mirnosa webworm, Nantucket pine tip moth, Dak leafminers, Oak leaf skeletonizer, Oakworm complex, Oleander caterpillar, Olive ash borer, Orangestriped oakworm, Orange tortrix, Parlodical cicada, Pine sawfly, Pine spittlebug, Pitch pine tip moth, Plant bugs, Polnsettia horn worm, Psyllids, Puss caterpillar, Red humped oak worm, Rose aphid, Rose chaler, Roseslug, Saddled prominent, Sawflies (exposed), Scale Insects, Sow bugs, Spiry elm caterpillar, Red humped oak worm, Rose aphid, Rose chaler, Roseslug, Saddled prominent, Sawflies (exposed), Scale Insects, Sow bugs, Spiry elm caterpillar, Glive bugworm, Spruce needleminer, Sub- tropical pine tip moth, Tent caterpillars, Thornbug, Thrips (exposed), Ticks, Walnut caterpilar, Webworms, Western spruce bud- worm, Willow leaf beettes, Yellow	1 oz.	1 cgt.	Use sufficient spray volume to obtain thorough coverage of upper and lower leaf surfaces. To control scale insects, treat trunks, stems, and twigs in addition to plant foliage. For optimum worm control, treat when in early instars. Addition of a sticker may improve residual control. Observe plant response precautions. Applications for control of Maple leafcutter on sugar maple should be made when larvae are in 2nd instar sher mining, and as cases are being formed. Repeat treatments as necessary up to a total of 2 times per year but not more often than once every 7 days.
ooplar wewit Elm bark beetle, lips engraver beetles, Mountain pine beerle, Roundheaded pine beetle, Western pine beetle	18 02	4 gals.	Effective as a preventive treatment only. Repeat annually as required to prevent beetle, attacks. Apply 1 gallon of apray per 50 square feet of bark in May to early July or prior to beetle attack. Treat tree trunks from ground level up until trunk diameter is leas then 5 inches. Applications for control of Embark beetle should consist of 20-30 gallons of apray for 50 loot height of ehn tree for thorough coverage of all bank surfaces on trunk. Impa and

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

AWNS AND DECREATIONAL AREAS

	AND RECREAD	
SITE	INSECT	SPECIFIC DIRECTIONS
	Ants, Armyworm, Bluegrass billbug, Centipedes, Chiqoes, Chinch bugs, Cutworms, Earwig, Essex skipper, European chafer, European crane fly, Fall armyworm, Fiery skipper, Beattes, Casthoppers, June Beetles, Leathoppers, Lucerne moth, Millipedes, Mosquitoes, Sod webworms (Jawn moths),	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: Do not irrigate treated areas tollowing insecticide application. For Chinch Bug Control: Treat entire turt grass area rather than just damaged areas. Irrigation of turt grass area before insecticide application will aid in
	Sowbugs, Spittlebugs, Springtails, Ticks, White grubs, Yellowstriped army worm	penetration into turt grass. 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 turt grasses thoroughly soon after treatment. (Refer to QUIDOORS section of PEST CONTROL IN
	Imported Fire Ants	(Refer to OUT OUGHS SECTION OF PEST CONTINUE IN

AND AROUND BUILDINGS)

LT MOSQUITO CONTROL				
CROP	RATE PE	RATE PER	SPECIFIC DIRECTIONS	
Pastures, Rangeland, Yarda, Parks, Recreational Areas, Logging Camps, Military Posts, Forested Lands, Wastelands	1 to 3 oz.	% to 1 gt.	OBSERVE BEE CAUTION Treat shrubbery and areas where adult mosquitoes congregate. Treat when adult mosquitoes are active in early moming or late evening. Repeat at 7 to 10 day intervals. Mix ¼ 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 serial sprays; mix 1 quart of this product in sufficient volume of water per acre in serial sprays; mix 1 quart per acre	
	21/2 qts.	25 qts.	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 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.

Ants/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 trails, around doors and windows and other places where ants enter premises.

Bass and Wasps: Mix 3 oz. this product per gallion 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 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 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 roach, Australian roach, Brown roach, Smoky brown roach, 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

Perimeter Treatment: Residual spray for control of ants, bees and wasps, brown dog ticks, carpenter ants, centipedes, cockroaches, crickats, eary igs, 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 intestations of buildings by the economics, 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 De'minimal and rest, icted to cracks and crevices and other areas where insects 'early o congregité.

Imported Fire Ants: Mix 11/2 pints of this product per 50 gallions of water (1/2 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 viewn/lent. Pour solution from a height of about three feet to give sufficient force to hrenk 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 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.

CARBARY' L. EPA REG. NO. 3 4-447

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.

EXCEPT AS EXPRESSLY PROVIDED HEREIN, PLATTE, THE MANUFACTURER OR SELLER MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND PLATTE'S, THE MANUFACTURER'S OR SELLER'S TOTAL LIABILITY, SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

FORMULATED FOR PLATTE CHEMICAL CO.

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