

# UNICORN Carbaryl Insecticide

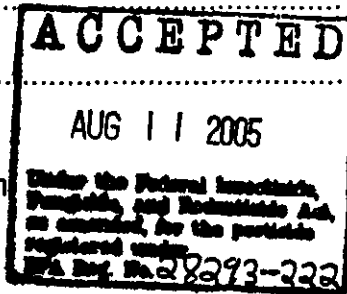
Home and Garden Insecticide

**ACTIVE INGREDIENT:**

Carbaryl (1-naphthyl N-methylcarbamate)..... 21.3% by wt.

**INERT INGREDIENTS:**..... 78.7% by wt.  
100.0%

(Contains 2 Pounds Carbaryl Per Gallon)



**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

**See Side/Back Panel for Additional Precautionary Statements.**

**NET CONTENTS:**

**Manufactured by:**

UNICORN LABORATORIES  
12385 AUTOMOBILE BLVD.  
CLEARWATER, FL 33762

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**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed or if absorbed through the skin. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation. Harmful if inhaled. Avoid breathing vapors or spray mist. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling. Keep out of the reach of children and domestic animals. Avoid contamination of food and feed.

<b>USER SAFETY REQUIREMENTS</b>	
<ul style="list-style-type: none"> <li>▶ Wear long-sleeved shirt, long pants, shoes plus socks and household latex or rubber gloves when mixing and applying this product.</li> <li>▶ Wear a hat and eye protection when making overhead applications.</li> <li>▶ Remove clothing immediately if pesticide soaks clothing. Change clothing as soon as possible after use.</li> <li>▶ Wash the outside of gloves before removing. As with any pesticide product, wash hands thoroughly immediately after handling and before eating, smoking or using the toilet.</li> <li>▶ Do not allow children or pets to contact treated area until sprays have dried.</li> </ul>	

<b>FIRST AID</b>	
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticides Information Center (NPIC): 1-800-858-7378 for emergency medical treatment information.</p>	
<b>NOTE TO PHYSICIAN</b>	
<p>Carbaryl is an N-methyl carbamate that inhibits cholinesterase. Atropine is antidotal. Do not use 2-PAM, opiates, or cholinesterase inhibiting drugs.</p>	

### **Environmental Hazards**

This product is extremely toxic to aquatic and estuarine invertebrates. Do not apply directly to water and areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning equipment or disposal of wastes. Do not apply when weather conditions favor drift from area treated.

**BEE CAUTION: MAY KILL HONEYBEES IN SUBSTANTIAL NUMBERS.** 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. Contact your Cooperative Agricultural Extension Service or your local representative for further information.

### **DIRECTIONS FOR USE**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

Shake all containers prior to use. Do not reuse empty containers or measuring devices for other purposes. Apply when insects or damage appear. Apply when air is calm to avoid drift and contact with eyes and skin. Start spraying at the farthest corner of the treatment area and work backward to avoid contact with wet surfaces. Allow spray to dry in treated areas before reentering. For trees taller than 10 feet, consider hiring a licensed professional. Spray thoroughly to wet upper and lower leaf surfaces, stems and branches. Do not repeat applications more than once a week.

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

### **PLANT RESPONSE PRECAUTIONS**

Carbaryl insecticide injures Boston Ivy, Virginia creeper, and maidenhair fern. During early season, it may also injure Virginia and sand pines.

### **HOSE END SPRAYER USE**

This product readily disperses in water to form a spray that can be applied with garden hose applicators (hose-end sprayers) to the crops listed. To ensure adequate coverage, use moderate to high water pressure when applying through hose-end sprayers. Calibrate to deliver 1 fluid ounce per gallon of spray mixture.

**VEGETABLE CROPS:** For control of all the vegetable pests listed below, apply this product in adequate volume to effectively cover both the upper and lower surfaces of the plant.

**NOTES:** 1) This product is not registered for use on celery and sweet potato in California; 2) Do not treat asparagus more than once every 7 days as excessive residues may result; and 3) The number in parenthesis following each vegetable crop grouping refers to the minimum number of days that must be observed between the date of the last application and the date of harvest.

**CROPS**

Asparagus – (1 day until harvest)

Sweet corn – (2 days until harvest)

Beans (fresh, including: Black-eyed peas, Crowder or Southern peas, Green beans, Lima beans, Navy beans, and Snap beans), Broccoli, Brussels sprouts, Cabbage, Cauliflower, Cowpeas (fresh), Cucumber, Eggplant, Kohlrabi, Melons, Okra, Peas (fresh), Pepper, Pumpkin, Squash, Tomato - (3 days until harvest)

Carrots, Garden beet roots, Horseradish, Parsnips, Potato, Radishes, Rutabagas, Salsify roots, Sweet Potato, Turnip roots – (7 days until harvest)

Celery, Chinese cabbage, Collards, Dandelion, Endive (Escarole), Garden beet tops, Hanover salad, Kale, Mustard greens, Lettuce (head and leaf), Parsley, Peanuts, Salsify tops, Spinach, Swiss chard, Turnip tops - (14 days until harvest)

Dried beans or peas – (21 days until harvest)

PESTS		
Alfalfa caterpillar	Green cloverworm	Stink bugs
Apache cicada	Harlequin bug	Sweet potato hornworm
Armyworm	Imported cabbageworm	Sweet potato weevil
Asparagus beetle	Japanese beetle	Tarnished plant bug
Aster leafhopper	Lace bugs	Three cornered alfalfa hopper
Bean leaf beetle	Leafhoppers	Thrips
Blister beetles	Limabean pod borer	Tomato hornworm
Chinch bug	Lygus bugs	Tomato pinworm
Colorado potato beetle	Melonworm	Tortoise beetles
Corn earworm	Mexican bean beetle	Velvetbean caterpillar
Corn rootworm (adults)	Pea leaf weevil	Webworms
Cowpea curculio	Pea weevil	Western bean cutworm
Cucumber beetles	Pickeworm	Whitefringed beetle (adults)
Cutworms	Red necked peanut worm	Yellowstriped armyworm
European corn borer	Sap beetles	
Fall armyworm	Southwestern corn borer	
Flea beetles	Spittlebugs	
Grasshoppers	Squash bugs	

**FRUIT AND NUT CROPS**

For control of all fruit and nut pests listed below, use sufficient spray volume to obtain thorough coverage (spray until run-off). Direct applications toward the lower and upper leaf surfaces, between fruit and nut clusters, and limbs and tree trunks to optimize insect control.

**NOTES:** 1) To avoid undesired apple thinning, delay use until at least 30 days after full bloom; 2) Carbaryl insecticide may injure early dawn and sunrise strawberries varieties on the Delmarva Peninsula; 3) When used on cranberries, carbaryl may kill shrimp and crabs; and 4) The number in parenthesis following each fruit and nut crop grouping refers to the minimum number of days that must be observed between the date of the last application and the date of harvest.

**CROPS:**

Apples, Apricots, Cherries, Nectarines, Peaches, Pears, Plums, Prunes - (3 days until harvest).

Citrus fruits (such as Grapefruit, Lemons, Limes, Oranges, Tangelos, Tangerines, Citrus citron, Kumquats and Hybrids) - (5 days until harvest).

Blackberries, Blueberries, Boysenberries, Cranberries, Dewberries, Grapes, Loganberries, Raspberries, Strawberries - (7 days until harvest).

Almonds, Filberts, Pecans, Walnuts - (14 days until harvest)

<b>PESTS</b>
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Apple aphid	European raspberry aphid	Pear leaf blister mite
Apple maggot	Eyespotted budmoth	Pear psylla
Apple mealybug	Fall webworm	Pear rust mite
Apple pandemis	Filbert aphid	Pecan leaf phylloxera
Apple rust mite	Filbert leafroller	Pecan nut casebearer
Apple sucker	Filbertworm	Pecan spittlebug
Avocado leafroller	Forbes scale	Pecan weevil
Bagworms	Fruittree leafroller	Periodical cicada
Black cherry aphid	Frosted scale	Plum curculio
Black margined aphid	Grape berry moth	Prune leafhopper
Black Scale	Grape leafhopper	Raspberry sawfly
Blueberry maggot	Grape leafroller	Redbanded leafroller
Brown soft scale	Green fruitworm	Rose chafer
Calico scale	Hickory shuckworm	Rosy apple aphid
California orangedog	Japanese beetle	Saltmarsh caterpillar
California pearslug (pear sawfly)	June beetles	San Jose scale
California red scale	Leafhoppers	Snowy tree cricket
Cherry fruitworm	Leafrollers	Strawberry weevil
Cherry maggot	Lecanium scales	Tarnished plant bug
Citricola scale	Lesser appleworm	Tentiform leafminers
Citrus cutworm	Lesser peachtree borer	Twig girdler
Citrus room weevil	Lesser webworm	Tussock moth
Citrus snow scale	Meadow spittlebug	Variiegated leafroller
Coding moth	Mealy plum aphid	Walnut caterpillar
Cranberry fireworms	Naval orangeworm	Western grapeleaf skeletonizer
Cranberry fruitworm	Olive scale	Western tussock moth
Cucumber beetles	Omnivorous leaftier (strawberry fruitworm)	Western yellowstriped armyworm
Cutworms	Omnivorous leafroller	West Indian sugarcane borer (adults)
Eastern tent caterpillar	Orange tortrix	White apple leafhopper
Eightspotted forester	Oriental fruit moth	Wolly apple aphid
European apple sawfly	Oystershell scale	Yellowheaded fireworm
European earwig	Peach twig borer	
European fruit lecanium		

**TREES AND ORNAMENTAL PLANTS**

Thorough coverage of upper and lower leaf surfaces and trunks, stems and twigs is necessary for optimum control of tree and ornamental pests. Apply to each of these areas until run-off is observed.

**CROPS:** Trees (including Shade trees, Shelter belts, Plantations, Parks and Recreational areas), Ornamentals (including Roses and other Herbaceous plants), Woody plants, and Shrubs.

PESTS		
Ants	Gall midges	Pine spittlebug
Apple aphid	Gall wasps	Pitch pine tip moth
Armyworm	Grasshoppers	Plant bugs
Azalea leafminer	Greenstriped mapleworm	Poinsettia hornworm
Bagworms	Gypsy moth	Psyllids
Birch leafminer	Hackberry nipplegall maker	Puss caterpillar
Blister beetle	Holly budmoth	Redhumped oakworm
Boxelder bug	Holly leafminer	Rose aphid
Boxwood leafminer	Jackpine budworm	Rose chafer
Browntail moth	Japanese beetle	Roseslug
Cankerworms	Jeffrey pine needleminer	Saddled prominent
Catalpa sphinx	Lace bugs	Sawflies (exposed)
Chiggers	Leafhoppers	Scale insects
Cooley spruce gall adelgid	Leafrollers	Sowbugs
Cutworms	Locust borer	Spiny elm caterpillar
Cypress tip moth	Maple leafcutter	Springtails
Douglas-fir tussock moth	Mealybugs	Spruce budworm
Eastern spruce gall adelgid	Mimosa webworm	Spruce needleminer
Elm leaf aphid	Nantucket pine tip moth	Subtropical pine tip-moth
Elm leaf beetle	Oak leafminers	Tent caterpillar
Elm spanworm	Oak leaf skeletonizer	Thrips (exposed)
Eriophyid mites	Oakworm complex	Ticks
European pine shoot moth	Oleander caterpillar	Tree hoppers
Fall armyworm	Olive ash borer	Walnut caterpillar
Flea beetle	Orangestripped oakworm	Webworm
Fuller rose beetle	Orange tortrix	Western hemlock looper
	Periodical cicada	Western spruce budworm
	Pine sawfly	Willow leaf beetles
		Yellow poplar weevil

**LAWNS AND RECREATIONAL AREAS**

For optimum control of lawn pests it is essential to ensure good penetration of the turf. For best results mow lawn and make applications after watering or rain. Following application, additional watering of lawn will enhance white grub control. For imported fire ant control, apply directly to the mound and surrounding area. (Do not disturb mounds prior to treatment). Treat new mounds as they appear. A volume of 16 to 24 fluid ounces of this product will cover approximately 3500 square feet when diluted as directed.

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**PEST CONTROL**

Apply 16 fluid ounces of this product to cover 3000 sq. ft. (32 fluid ounces per 6000 sq. ft.) for control of: Ants, Armyworm, Centipede, Chiggers, Cutworms, Earwigs, Essex skipper, European chafer, Fall armyworm, Fiery skipper, Grasshoppers, Green June beetles grubs, June beetles, Leafhoppers, Lucerne moth, Millipedes, Adult mosquitoes, Sowbugs, Spittlebugs, Springtails, Ticks, Yellowstriped armyworm.

Apply 16 fluid ounces of this product to cover 1,350 sq.ft. (32 fluid ounces per 2,700sq.ft.) for control of: Chinch bugs, Sod webworms, Bluegrass billbug, European crane fly, Fleas and White grubs (such as Japanese beetle, Chafer beetle and Phyllophaga spp. larvae).

**ADULT MOSQUITO CONTROL**

For optimum results, treatments should be made in the early morning or late evening, when adult mosquitoes are most active. In yards and recreational areas, apply to ornamentals, woody plants, shrubs, and other areas where adult mosquitoes congregate. (NOTE: CARBARYL MAY KILL SHRIMP AND CRABS. OBSERVE BEE CAUTION.)

**PEST CONTROL AROUND BUILDINGS**

This product may be used around building such as homes, apartments, warehouses, barns and municipal and recreational areas to control the pests listed below. Thoroughly wet the outside perimeter of dwellings and other areas where pests tend to congregate.

**PESTS**

Brown dog tick, earwigs, fleas and millipedes.

**CONTROL OF TICKS WHICH TRANSMIT LYME DISEASE**

For control of juvenile and adult Ixodes spp. Ticks (Deer tick, Bear tick, and Black legged tick).

Begin application in late spring or early summer (May/June). Thoroughly treat entire lawn, perimeter wooded areas, and property boundaries including shrub beds, ornamental planting, and wooded areas where exposure to ticks may occur. Retreat at 3 to 4 week intervals since ticks may be reintroduced from surrounding areas by animals.

**VEGETABLE CROPS**

All dosages refer to teaspoonsful of this product per gallon water. Do not exceed maximum dosage rate.

CROP	INSECT	TEASPOONFUL/ GALLON	PRE HARVEST	SPECIFIC DIRECTIONS
			INTERVAL (DAYS)	
Asparagus	Asparagus beetles Grasshoppers	4 to 8	1	Treat ferns or brush growth. Do not treat more than once every 7days.
	Apache cicada Asparagus beetle	8 to 16	Post harvest application only	

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**Vegetable Crops (continued)**

CROP	INSECT	TEASPOONFUL/ GALLON	PRE HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Beans (Including black-eyed peas, cowpeas crowder or southern peas, green beans, lima beans, navy beans and snap beans)	Blister beetles	2 to 4			
	Mexican bean beetle				
	Alfalfa caterpillar	Leafhoppers			
	Bean leaf beetle	Three cornered alfalfa			
	Cucumber beetles	hopper			
	Flea beetles	Thrips	4	3	
	Green cloverworm	Velvetbean caterpillar		(Fresh beans)	
	Japanese beetle	Western bean cut-worm		21	
	Armyworm	Fall armyworm		(Dried beans)	
	Cutworms	Grasshoppers	4 to 6		
European corn borer	Tarnished plant bug				
Corn earworm	Webworms				
Cowpea curculio	Limabean pod borer	8			
	Lygus bugs				
	Stink bug				
Broccoli	Flea beetles	Leafhoppers	2 to 4	DO NOT USE ON CELERY IN CALIFORNIA	
Brussels sprouts	Harlequin bug				
Cabbage					
Carrots					
Cauliflower					
Celery					
Chinese cabbage	Aster leaf-hopper	Lygus bugs	4 to 6	3	
Collards	Grasshoppers			(broccoli, brussels sprouts, cabbage, cauliflower, kohlrabi, okra)	
Dandelion				Observe plant response precautions. Lettuce: treat on a 7 day schedule after heads begin to form.	
Endive (Escarole)					
Garden beet	Armyworm	Imported cabbageworm	4 to 8		
Hanover salad	Corn earworm			7	
Horseradish	Fall armyworm	Stink bugs		(carrots, garden beet roots, horseradish, parsnips, radishes, rutabagas, turnip roots)	
Kale	Tarnished plant bug				
Kohlrabi					
Lettuce					



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**Vegetable Crops (continued)**

CROP	INSECT	TEASPOONFUL/ GALLON	PRE HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Mustard greens Okra Parsnips Parsley Radishes Rutabagas Salsify Spinach Swiss chard Turnips	(See previous page)	(See previous page)	14	(celery, Chinese cabbage, collards, dandelion, endive (escarole), garden beet tops, Hanover salad, kale, lettuce (head & leaf), mustard greens, parsley, salsify, spinach, Swiss chard, turnip tops)
Sweet corn	Armyworm Chinch bug Corn earworm Corn rootworm (adults) European corn borer Fall armyworm Flea beetles	Grasshoppers Japanese beetle Leafhoppers Sap beetles Southwestern corn borer	4 to 8     2	OBSERVE BEE CAUTION For insects attacking silks and ears, apply at 7 day intervals starting when first silks appear and continuing until silks begin to dry. For larvae in whorl and foliage feeders, apply as necessary but not more than once a week. Optimum timing and good coverage are essential for effective control.
	Western bean cutworm	8	Treat when infestation averages 15% and at 90 to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness.	
Cucumber Melons Pumpkin Squash	Pickleworm Cucumber beetles Flea beetles	Melonworm Grasshoppers Leafhoppers Squash bugs	2 to 4  4  3	
Potato Tomato Eggplant Pepper Peanuts Peas	Bean leaf beetle Blister beetles Colorado potato beetle Cucumber beetles Flea beetles Green cloverworm	Leafhoppers Mexican bean beetle Red-necked peanutworm Three cornered alfalfa hopper Thrips Velvetbean caterpillar Japanese beetle	  4       21	3 (eggplant, peas – fresh, pepper, tomato)  7 (potato)  14 (peanuts)  21 (peas – dried)

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**Vegetable Crops (continued)**

CROP	INSECT	TEASPOONFUL/ GALLON	PRE HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
(See Previous Page)	Alfalfa caterpillar	Pea leaf weevil	6		
	Armyworm	Pea weevil			
	Corn earworm	Webworms			
	Grasshoppers	Yellowstriped armyworm			
	European corn borer	Tarnished plant bug			4 to 8
	Fall armyworm	Tomato hornworm			
	Lace bugs	Tomato pinworm			6 to 8
	Stink bugs	White fringed beetle (adults)			
	Cutworms				
	Sweet Potato	Corn earworm			Sweet potato hornworm
Cucumber beetles		Tortoise beetles			
Flea beetles		beetles			
Grasshoppers					
Yellowstriped armyworm			8		
	Sweet potato weevil		4 to 8		

Apply as a foliar spray as needed. Full coverage is essential. Use lower rate on young plants and higher rates on mature plants.  
**DO NOT USE IN CALIFORNIA.**

**FRUIT AND NUT CROPS**

All dosages refer to teaspoonsful of this insecticide per gallon of water. Use sufficient spray gallonage to obtain thorough coverage. (Six teaspoons equal one fluid ounce).

CROP	INSECT	TEASPOONFUL/ GALLON	PRE HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Apple thinning (Apples only)		1 to 2	3	Apply 1 full coverage dilute spray between 10 and 25 days after full bloom. If factors such as tree age, variety, nutrition, previous crop, pruning, bloom and degree of set favor excessive fruit thinning with this product, exercise caution to avoid possible yield reduction. For easily thinned varieties including Cortland, Grimes, Jonathan, McIntosh, Orleans, Rome, Puritan, Red Delicious, Winesap, Yellow Newton
		2 to 4		For difficult to thin varieties including Baldwin, Ben Davis, Delicious, Lady Appie, Northern Spy, Rhode Island Greening, Steele Red, Turley, Wealthy, Yellow Transparent and York Imperial.

CROP	INSECT	TEASPOONFUL/ GALLON	PRE HARVEST		SPECIFIC DIRECTIONS
			INTERVAL (DAYS)		
Almond	Peach twig borer	Fruittree leafroller	4	14	Apply in "popcorn" or petal fall stages and again when the May brood of the peach twig borer begins to hatch or thereafter as needed.
	San Jose scale				
	Naval orangeworm				Time early and mid season applications to correspond to moth flight peaks. Make a late season application at initiation of hull split or up to 10% hull split.
Apples	Apple aphid	Lesser appleworm	4	3	To avoid undesired apple thinning, delay use until at least 30 days after full bloom.
Pears	Apple maggot	Oystershell scale			
	Apple mealybug	scale			
	Apple rust mite	Orange tortrix			
	Apple sucker	Pear leaf blister mite			
	Bagworms	Pear psylla			For psylla control, apply when eggs hatch or young nymphs are present.
	California pearslug	Pear rust mite			
	(pear sawfly)	Periodical cicada			
	Coding moth	Redbanded leafroller			For optimum scale control, apply when crawlers are present.
	Eastern tent caterpillar	Rosy apple aphid			
	European apple sawfly	San Jose scale			
	Eyespotted bud moth	Tarnished plant bug			
	Forbes scale	Tentiform leafminers			
	Fruittree leafroller	White apple leafhopper			
	Green fruitworm	Wooly apple aphid			
	Japanese beetle	Yellowheaded fireworm			
	Lecanium scales				

EPA REG.NO. 28293-222 (RSBMT: 9/14/04) 11

EPA EST.NO. 62478-FL-1A  
44616-MO-1BSubscript used is first letter of  
run code on container.

EPA REG.NO. 28293-222 (RSBMT: 9/14/04) 12

EPA EST.NO. 62478-FL-1A  
44616-MO-1BSubscript used is first letter of  
run code on container.

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**Fruit & Nut (continued)**

CROP	INSECT	TEASPOONFUL/ GALLON	PRE HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS	
Blackberries Raspberries Dewberries (Including boysenberries and logan- berries) Grapes Strawberries	European fruit lecanium European raspberry Grape leaf- hopper Grape leaf- folder Japanese beetle Leafhoppers Leafrollers Meadow spittlebug Omnivorous leaftier (strawberry fruitworm)	Rose chafer Snowy tree cricket Strawberry weevil Western grapeleaf skeletonizer Yellow striped armyworm	4 to 8	7	Apply before first brood leafroller larvae emerge from rolls.  STRAWBERRIES: Carbaryl may injure Early Dawn and Sunrise varieties on the Delmarva Peninsula.
	Cutworms Eight spotted forester Grape berry moth Japanese beetle Omnivorous leafroller	Orange tortrix Raspberry sawfly Redbanded leafroller Saltmarsh caterpillar	8		
Blueberries	Blueberry maggot Cherry fruit worm Cranberry fruitworm	European fruit lecanium Japanese beetle	6	7	Apply 3 weeks before harvest and repeat as necessary, but not more than once a week.
Citrus fruits (such as grapefruit, lemons, limes, oranges, tangelos, tangerines, citrus citron, kumquats, and hybrids)	Avocado leafroller California orangedog Citrus cutworm Citrus root weevil Fruittree leafroller	Orange Tortrix Western tussock moth West Indian sugarcane borer (adults)	4	5	Do not apply less than 10 gallons of dilute spray mixture per mature tree. May be mixed with petroleum oils commonly used on citrus.
	Black scale Brown soft scale California red scale Citricola scale	Citrus snow- scale Yellow scale scale Yellow scale	3 to 4		

**Fruit & Nut (continued)**

CROP	INSECT		TEASPOONFUL/ GALLON	PRE HARVEST INTERVAL (DAYS)	SPECIFIC DIRECTIONS
Cranberries	Cutworms fireworms Cranberry	Japanese Leafhoppers Rose chafer	6 to 12	7	CAUTION: May kill shrimp and crabs. Do not use in areas where these are important resources. Apply in late bloom and as needed 7 to 10 day intervals.
Filberts	Filbert aphid Filbert leafroller Filbertworm		4	14	Apply when leafroller eggs are hatching. Repeat on first appearance of adult filbert moths and again 3 to 4 weeks later.
Apricots Cherries Nectarines Peaches Plums Prunes	Apple pan- demis Black cherry aphid Brown soft scale Cherry fruitworm Cherry maggot Cucumber beetles European earwig Eyespotted bud moth Forbes scale Fruittree leafroller Green fruitworm Japanese beetle June beetles Lecanium scale Tarnished plant bug Variegated leafroller	Oriental fruit moth Oystershell scale Peach twig borer Periodical cicada Lesser peach- tree borer Mealy plum aphid Olive scale Peach twig borer Periodical cicada Plum curculio Prune leaf- hopper Redbanded leafroller Rose chafer San Jose scale	4	3	For optimum scale control apply when crawlers are present.  For lesser peachtree borer control, spray limbs and tree trunks thoroughly, weekly during moth flight.
	Codling moth Eastern tent Caterpillar	Orange tortrix Tussock moth	3 to 4		
Pecans	Black margined aphid Fall webworm Hickory shuck worm Lesser web- worm Pecan leaf phylloxera	Pecan nut casebearer Pecan spittlebug Pecan weevil Twig girdler Walnut caterpillar	4 to 10	14	

Walnut	Calico scale	Filbertworm worm	2	14	For coding moth apply spray when average cross sectional diameters of developing nuts are 1/2 to 3/4 inch. Repeat during middle or late June as needed. Spray tree trunks to point of run-off.
	Coding moth	Fruittree leafroller			
	European fruit lecanium	Frosted scale			
	European earwig		8		

### TREES AND ORNAMENTALS

For dilute spray applications to trees (including shade trees, shelter belts, plantations, parks and recreational areas), ornamentals, woody plants and shrubs, apply the specified dosage per gallon of water in sufficient spray volume to provide thorough coverage, (six teaspoons equal one fluid ounce). DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.

SITE		PEST		SPECIFIC DIRECTIONS	
<b>GROUND APPLICATION</b>	Ants	Fall armyworm	Oakworm	Springtails	Use 4 teaspoons of this product per gallon of water. Observe plant response precautions.
<b>Trees</b>	Apple aphid	Flea beetles	complex	Sruce bud-worm	
(Including shade trees, shelter belts, plantations parks and recreational areas)	Armyworm	Fuller rose beetle	Oleander caterpillar	Spruce needle-miner	Apply dilute sprays 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.
	Azalea leaf-miner	Gall midges	Olive ash borer	Subtropical pine tip moth	
	Bagworms	Gall wasps	Orange striped	Tent caterpillar	
	Birch leaf-miner	Grasshoppers	oakworm	Thrips (exposed)	
<b>Ornamentals</b>	Blister beetle	Greenstriped mapleworm	Orange tortrix	Ticks	
(Including roses and other herbaceous plants)	Boxelder bug	Gypsy moth	Periodical cicada	Tree hoppers	
	Brownail moth	Hackberry nippegall maker	Pine sawfly	Walnut caterpillar	
<b>Woody Plants and Shrubs</b>	Cankerworms	Holly leaf-miner	Pine spittlebug	Webworms	
	Catalpa sphinx	Jackpine budworm	Pitch pine tip moth	hemlock looper	
	Chiggers	Japanese beetle	Plant bugs	Western spruce budworm	
	Cooley spruce gall adelgid	Jeffrey pine needleminer	Poinsettia hornworm	Willow leaf beetles	
	Cutworms	June beetles	Pysllids	Yellow poplar weevii	
	Cypress tip moth	Lace bugs	Puss caterpillar		
	Douglas-fir tussock moth	Leafhoppers	Redhumped oakworm		
	Eastern spruce gall adelgid	Leafrollers	Rose aphid		
		Locust borer	Rose chafer		
		Maple leafcutter	Roseslug		
		Mealybugs	Saddled prominent		
		Mimosa webworm	Sawflies (exposed)		

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44616-MO-1B

Subscript used is first letter of run code on container.

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EPA EST.NO. 62478-FL-1A  
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Subscript used is first letter of run code on container.

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**Trees & Ornamentals (continued)**

SITE	PEST	SPECIFIC DIRECTIONS
(See previous page)	Elm leaf aphid Elm leaf beetle Elm spanworm Eriophyid mites European pine shoot moth Ips engraver beetles Mountain pine beetle Roundheaded pine beetle	Nantucket pine tip moth Oak leafminers Oak Leaf skeletonizer Scale insects Sowbugs Spiny elm caterpillar
		Use 13.3 fluid ounces of this product per gallon of water. Effective as preventative treatment only. Repeat annually as required to prevent beetle attacks. Apply 1 gallon of spray per 50 sq.ft. of bark in late May to early July or prior to beetle attack. Treat tree trunks from ground level up until trunk diameter is less than 5 inches.

SITE	PEST	SPECIFIC DIRECTIONS
<b>Turf grasses</b>	Ants Armyworm Centipedes Chiggers Earwigs Essex skipper European chafer Fall armyworm Fiery skipper Grasshoppers June beetles Chinch bugs	Leafhoppers Lucerne moth Millipedes Mosquitoes (adults) Sod webworm (lawn moths) Sowbugs Springtails Ticks White grubs Yellow striped armyworm Sod webworm (lawn moths)
		Use 3 to 6 fl.oz. of this product per 1000 sq.ft. (4 to 8 qts. per acre) of turf grass. Make application in sufficient spray volume for thorough coverage and turf thatch penetration. Repeat as necessary, but not more than once a week.
		For Armyworm, Cutworm, and Fall Armyworm Control: Do not irrigate treated areas following insecticide application.
		Use 8.8 to 12 fl.ozs. of this product per 1000 sq.ft. (12 to 16 qts. per acre) of turf grass. Make application in sufficient spray volume for thorough coverage and turf thatch penetration. Repeat as necessary, but not more than once a week.
		<b>For Chinch Bug Control:</b> Treat entire area rather than just damaged areas. Irrigation of turf grass areas before insecticide applications will aid in penetration into turf grass.
		<b>For Sod Webworm Control:</b> Do not irrigate treated areas following insecticide application.

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SITE	PEST	SPECIFIC DIRECTIONS
<b>Turf grasses (continued)</b>	Bluegrass billbug European crane fly Fleas	White grubs (such as: Japanese beetle, Chafer beetle and Phyllophaga spp. larvae)
		Use 12 fl.ozs. of this product per 1000 sq.ft. (16 qts. per acre) of turfgrass. Make application in sufficient spray volume for thorough coverage turf thatch penetration. Repeat as necessary, but not more than once a week. <b>For European Crane Fly Control:</b> Treatments should be applied in early spring, April 1 to April 15, or as recommended by local Agricultural Extension Service agents. Water or irrigate turf grasses thoroughly soon after treatment. <b>For White Grub Control:</b> 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 turf grasses thoroughly soon after treatment.

**DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.**

**LAWNS AND RECREATIONAL AREAS  
FOR USE IN CALIFORNIA**

SITE	PEST	SPECIFIC DIRECTIONS
Turf grasses	Ants Armyworm Bluegrass Centipedes Chiggers Chinch bugs Cutworms Earwigs Essex skipper European chafer Fall armyworm Fiery skipper Fleas Grasshoppers	June beetles Leafhoppers Lucerne moth Mosquitoes Sod webworm (lawn moths) Sowbugs Springtails Ticks White grubs Yellowstriped armyworm
		Use 12 fl.oz. of this product per 1000 sq.ft. (16 quarts per acre) of turf grass. Make application in sufficient spray volume for thorough coverage and turf thatch penetration.  <b>For Armyworm, Cutworm, and Fall Armyworm Control:</b> Do not irrigate treated areas following insecticide applicaiton.  <b>For Chinch Bug Control:</b> Treat entire turf grass area rather than just damaged areas. Irrigation of turf grass area before insecticide application will aid in penetration into turf grass.  <b>For White Grub Control:</b> 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 turf grasses thoroughly soon after treatments

**DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.**



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### IMPORTED FIRE ANT CONTROL

For use as a mound treatment to control imported fire ants, apply the specified dosage directly to mound.

SITE	TEASPOONSFUL/ GALLON	SPECIFIC DIRECTIONS
Lawns, Cemeteries and Recreational Areas (including turf, golf courses, and parks), Pastures, Rangeland, Forested lands, and Wasteland	6 teaspoonsful/Gallon (1 fl. oz./gal.)	<p><b>DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.</b></p> <p>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 3 ft. to give sufficient force to break mound apex and flow into ant tunnels. For best result, apply in cool weather, 65 to 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.</p>

1 Tablespoon = 1/2 fluid ounce of product

### CONTROL OF TICKS WHICH TRANSMIT LYME DISEASE

SITE	SPECIFIC DIRECTIONS
Lawns and Recreational Turfgrass (Including: Lawns & Perimeters, Golf Courses, Sports Fields, Cemeteries, Parks and Pastures)	For control of juvenile and adult Ixodes spp. ticks (Deer tick, Bear tick, and apply at the rate of 2 tablespoons (1 fluid ounce) per gallon of water.
Shrubs, Ornamentals, Wooded Areas (Including: Military Posts, Logging camps, and Campsites), Wastelands	Begin applications in late spring or early summer (May/June). Thoroughly treat entire turf area, shrub beds, ornamental plantings, wooded areas and around outside perimeters of homes/buildings where exposure to ticks may occur. Retreat at 3 to 4 week intervals since ticks may be reintroduced from surrounding areas by animals.

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### ADULT MOSQUITO CONTROL

SITE	SPECIFIC DIRECTIONS
Yards and Recreational	<p><b>NOTE:</b> Observe environmental hazards and bee caution. Do not apply directly to water. May kill honey bees in substantial numbers. May kill shrimp and crabs.</p> <p>For dilute-spray ground applications to trees (including shade trees, shelter belts, plantations, parks and recreational areas), ornamentals, woody plants and shrubs, apply 1 to 2 tablespoons of this insecticide per gallon of water. 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. For residual control in subtropical regions use 16 fluid ounces of this product per gallon of water and apply 4 gallons of prepared spray per 2000 square feet of surface area. Repeat in 3 to 6 months or when necessary.</p>

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### PEST CONTROL IN AND AROUND BUILDINGS

Dosages refer to ounces of product per gallon of water.

PEST	OUNCES/GALLON	SPECIFIC DIRECTIONS
Brown dog tick Earwigs, Fleas, Millipedes, Silverfish	7 ounces/gal.	For use in and around buildings such as homes, apartments, warehouses, barns and municipal and recreational areas.  Apply as coarse wet spray or with a paint brush to outdoor sleeping quarters of pets, outside perimeter of dwellings and other areas where insects tend to congregate.
Ants Cockroaches	17 ounces/gal.	Do not use this product in commercial food areas of food handling establishments, restaurants, or other places where food is prepared or processed.

Avoid application to surfaces where visible spray residues are objectionable.

**DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.**

#### STORAGE AND DISPOSAL

**STORAGE:** Store unused product in original container only, in cool, dry area out of reach of children and animals, preferably in a locked storage area. Do not store in areas where temperatures frequently exceed 100°F.

After use, replace cap on insecticide container. Rinse hose end unit outdoors in clear water. Store insecticide and sprayer assembly in a cool place.

**DISPOSAL:** If empty – Do not reuse this container. Place in trash or offer for recycling if available. If partly filled – Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

#### NOTE OF DISCLAIMER

**NOTICE:** Buyer shall be solely responsible for any and all injury, loss or damage which results from the use of this product in any manner which is inconsistent with the label directions, warnings or cautions.