45735-25

01/03/2003

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460



OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

JAN - 3 2003

Mr. Thomas McEntee Burlington Scientific Corp. 71 Carolyn Blvd Farmingdale. NY 11735-1527

Dear Mr. McEntee:

Subject: Revised Labeling - Addition of Environmental Hazards Statement Carbaryl 4L Flowable EPA Registration No. 45735-25 Your Submission Dated December 12, 2002

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided you make the following change indicated below before you release the product for shipment bearing the amended labeling:

- Under the Restrictions and Precautions for rice please clarify why the areas "Mississippi Delta and Texas" are listed. Do these precautions only apply to rice grown in these areas?

Submit two copies of your final printed labeling before you release the product for shipment. A stamped copy is enclosed for your records. If you have any questions, please contact me at (703) 308-6249 or <u>hebert.john@epa.gov.</u>

Regards, en Kelent

John Hebert Insecticide-Rodenticide Branch Registration Division (7505C)

## CARBARYL 4L FLOWABLE

Controls Listed Insects on Vegetables, Lawns, Ornamentals and Fruits

### ACCEPTED with COMMENTS In EPA Letter Dated:

JAN - 3 2003 Under the Fodoral Insecticide, Congieido, and Rodernide Act. as amended, for the production registered under EPA Res. No. 48735-25

Active Ingredient: This product contains 4 pounds of carbaryl per gallon

EPA REG. NO. 45735-25 EPA Est. NO. 74134-CHN-0011, 16-VA-12 Subscript following Est. No. Corresponds to first digit in Lot No.

## **KEEP OUT OF REACH OF CHILDREN** CAUTION

	FIRST AID
This product is a	n N-methyl carbamate and is a cholinesterase inhibitor.
lf inhaled	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If on skin or `lothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
lf in eyes	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>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>
If swallowed	<ul> <li>Call 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 the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
	HOT LINE NUMBER
	t container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National mmunication Network at 1-800-858-7378 for emergency medical treatment information.
	NOTE TO PHYSICIAN
	methyl carbamate insecticide, that inhibits cholinesterase. Atropine is antidotal. Do not use 2-PAM (pyridene-2-aldoxine methiodide esterase inhibiting drugs. Probable mucosal damage may contraindicate the use of gastric lavage.

**Burlington Scientific Corp.** 

71 Carolyn Blvd.

armingdale, NY 11735

Notice: Buyer assumes all responsibility for safety and use not in accordance with label directions.

### **Precautionary Statements**

### Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed, inhaled, or absorbed through the skin... Avoid contact with skin, eyes, or clothing, Avoid breathing spray drift. ... Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

### Personal Protective Equipment:

### Applicators and Other Handlers Must Wear:

- · Long-Sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- · Chemical resistant head gear for overhead protection

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

### 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.

### **ENVIRONMENTAL HAZARDS**

This product is extremely toxic to aquatic and estuarine invertebrates. 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 apply when weather conditions favor drift from area treated. Do not contaminate water by cleaning equipment or disposal of wastes. Do not contaminate water when disposing of equipment washwaters.

### BEE CAUTION: MAY KILL HONEYBEES IN SUBSTANTIAL NUMBERS

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 crops or weeds if bees are visiting the treatment area. Contact your Cooperative Agricultural Extension Service. For maximum honeybee hazard reduction, apply from late evening to early morning when bees are not foraging.

### DIRECTIONS FOR USE

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

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific 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 restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is: Coveralls, Waterproof gloves, and Shoes plus socks, and chemical resistant head gear for overhead exposure.

Subsequent planting of food and feed crops in treated soil must be made with crops on this or other carbaryl labels.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

The area being treated must be vacated by unprotected persons.

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

MIXING INSTRUCTIONS: To insure a uniform product, gently SHAKE CONTENTS BEFORE POURING. Be sure sprayer tank, spray tips and screens are clean before use. Fill the sprayer with ½ to ¾ the desired amount or clean water. Pour the recommended amount of product into the tank and complete filling to desired level with water. Before and frequently during use, agitate the spray mixture in the tank to prevent settling. It is recommended that spray equipment be thoroughly cleaned after each day's use.

### Vegetables

Сгор	Pest	Qts. of This Product Per Acre
Asparagus, beans, including	Alfalfa caterpillar, bean leaf beetle,	1
cowpeas, crowder or Southern peas,	cucumber beetle, Colorado potato	
dry beans, green beans, lima beans,	beetle, harlequin bug, Japanese	
navy beans, snap beans (succulent,	beetle, leafhopper, melon worms,	
dry and hay, forage), broccoli,	Mexican bean beetle, red-necked	
Brussels sprouts, beets, cabbage,	peanutworm, squash bug, three-	
cauliflower, Chinese cabbage,	cornered alfalfa hopper, thrips,	
collards, carrots, corn (sweet, field	velvetbean caterpillar and Western	
and pop, forage, silage, grain and	bean cutworm.	
fodder), cucumbers, dandelion,	Armyworms, aster leafhopper, corn	1½
endive (escarole), eggplant, Hanover salad, horseradish, kale,	earworm, cutworms, grasshopper,	
kohlrabi, leaf and head lettuce,	pea leaf weevil, pea weevil, spittlebug	1
mustard greens, melons, okra,	and yellow striped armyworm Asparagus beetle, chinch bug, corn	2
peanuts, peas (succulent, dried,	rootworms, cowpea curculio.	2
hay, forage ), peppers, potatoes ,	European corn borer, fall armyworm,	
pumpkin, radish, rutabaga, squash,	imported cabbageworm, lace bug,	
salisfy, spinach and tomatoes	lima beanpod borer, lygus bug, stink	
	bug, sap beetle, Southwestern corn	
	borer, tarnished plant bug, tomato	
	fruitworm, tomato hornworm and	
	tomato pinworm	
	SPECIFIC DIRECTIONS:	
		range of vegetable insect pests. Begin
	applications when insects first appear a	
		ery 7 days. Do not apply to any crop not
		oper and lower leaf surfaces is essential
	for good control. Use sufficient gallona	ge to obtain control.

### RESTRICTIONS AND PRECAUTIONS:

Do not apply within 1 day of harvest for asparagus.

Do not apply within 3 days of harvest for: cabbage, cauliflower, beans, including cowpeas, crowder or Southern peas, dry beans, green beans, lima beans, navy beans, broccoli, brussels sprouts, peppers, melons, okra, cucumbers, squash, pumpkin, eggplant, tomatoes, kohlrabi.

Do not apply within 7 days of harvest for: carrots, horseradish, potatoes, radish, rutabaga.

Do not apply within 14 days of harvest for: Chinese cabbage, collards, dandelion, endive (escarole), Hanover salad, kale leaf and head lettuce, mustard greens, peanuts and spinach.

For snap beans: do not apply within 3 days of harvest for succulent, within 21 days for dried and hay and 14 days for forage.

For beets and salisfy: do not apply within 7 days of harvest for roots and 14 days for tops.

For peas: do not apply within 3 days of harvest for succulent, within 21 days for dried and hay and 14 days for forage.

For corn: do not apply within 2 days for sweet, within 14 days for forage and silage and within 48 days for grain and fodder of sweet, field and popcorn.

Сгор	Pest	Qts. of This Product Per Acre
Alfalfa, clovers, forage grasses	Blister beetle, Mexican bean beetle.	1
pasture and rangelands	alfalfa caterpillar, bean leaf beetle,	
	cucumber beetle, green cloverworm,	
	Japanese beetle, leafhopper, three-	
	cornered alfalfa hopper, thrips,	
	velvetbean caterpillar, striped blister	
	beetle, red-necked peanutworm, flea	
	beetles, grape colaspis and cereal	
	leaf beetle.	
	Armyworm, corn earworm, fall	1 1/2
	armyworm, webworm, lygus bug,	
	chinch bug, sorghum midge,	
	Southwestern corn borer, beet weevil,	
	Egyptian alfalfa weevil larvae, Essex	
	skipper.	· · · · · · · · · · · · · · · · · · ·
	Whitefringed beetle adult, painted	2
	lady (thistle caterpillar), sweet potato	
	weevil, leafhopper, stink bug,	
	saltmarsh caterpillar, stern weevil,	
	sweet potato hornworm, tarnished	
	plant bug, white grub (green June	
	beetle), cutworm, yellowstriped	
	armyworm, sunflower beetle, tortoise	
	beetle, leafroller.	
	SPECIFIC DIRECTIONS:	
		pear. Repeat applications at 7 to 14 day
	intervals, if necessary, to maintain contr	of Thorough and uniform coverage is
	essential for effective control.	
	Alfolfa and Clover, Fee alfolfa warvilla	nee if are treatment demone in
	Alfalfa and Clover: For alfalfa weevil la	
	extensive, cut alfalfa and treat the stubb	
	gallons of water per acre with ground ed	unpritent to insure adequate coverage.
	Forane grasses, pasture and rangeland	To control thrips in grasses grown for
	seed, use high spray pressure to improv	
<b>RESTRICTIONS AND PRECAUTIO</b>	INS: For alfalta, clover and forage grasses	do not apply within / days of harvest

 
 Crop
 Pest
 Qts. of This Product Per Acre

 Peanuts
 Blister beetle, Mexican bean beetle, alfalfa caterpillar, bean leaf beetle, cucumber beetle, green cloverworm, Japanese beetle, leafhopper, threecornered alfalfa hopper, thrips, velvetbean caterpillar, striped blister beetle, red-necked peanutworm, flea beetles, grape colaspis and cereal leaf beetle.
 1

	Armyworm, corn earworm, fall armyworm, webworm, lygus bug, chinch bug, sorghum midge, Southwestern corn borer, beet weevil, Egyptian alfalfa weevil larvae, Essex skipper.	1 1/2
	Whitefringed beetle adult, painted lady (thistle caterpillar), sweet potato weevil, leafhopper, stink bug, saltmarsh caterpillar, stern weevil, sweet potato hornworm, tarnished plant bug, white grub (green June beetle), cutworm, yellowstriped armyworm, sunflower beetle, tortoise	2
	beetle, leafroller. SPECIFIC DIRECTIONS: Apply when it	nsects or their damage appear. Repeat
	applications at 7 to 14 day intervals, if n	ecessary, to maintain control. Thorough
	and uniform coverage is essential for ef	
RESTRICTIONS AND PRECAUTION	S: Do not apply within 14 days of harvest.	

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Crop	Pest	Qts. of This Product Per Acre
Rice	Blister beetle, Mexican bean beetle, alfalfa caterpillar, bean leaf beetle, cucumber beetle, green cloverworm, Japanese beetle, leafhopper, three- cornered alfalfa hopper, thrips, velvetbean caterpillar, striped blister beetle, red-necked peanutworm, flea beetles, grape colaspis and cereal leaf beetle.	1
	Armyworm, corn earworm, fall armyworm, webworm, lygus bug, chinch bug, sorghum midge, Southwestern corn borer, beet weevil, Egyptian alfalfa weevil larvae, Essex skipper.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Whitefringed beetle adult, painted lady (thistle caterpillar), sweet potato weevil, leafhopper, stink bug, saltmarsh caterpillar, stern weevil, sweet potato hornworm, tarnished plant bug, white grub (green June beetle), cutworm, yellowstriped armyworm, sunflower beetle, tortoise beetle, leafroller.	2
	SPECIFIC DIRECTIONS: Apply when applications at 7 to 14 day intervals, if n and uniform coverage is essential for ef PRECAUTIONS: Do not apply within 14 days of harvest	ecessary, to maintain control. Thoroug fective control.

RESTRICTIONS AND PRECAUTIONS: Do not apply within 14 days of harvest. CAUTION! May kill shrimp and crabs. Do not use in areas where these are important resources. DO NOT APPLY PROPANIL HERBICIDES WITHIN 15 DAYS BEFORE OR AFTER APPLICATION OF THIS PRODUCT OR PLANT INJURY WILL RESULT. MISSISSIPPI DELTA AND TEXAS.

Сгор	Pest	Qts. of This Product Per Acre
Sorghums (Milo and grain sorghum)	Blister beetle, Mexican bean beetle, alfalfa caterpillar, bean leaf beetle, cucumber beetle, green cloverworm, Japanese beetle, leafhopper, three- cornered alfalfa hopper, thrips, velvetbean caterpillar, striped blister beetle, red-necked peanutworm, flea beetles, grape colaspis and cereal leaf beetle.	1
	Armyworm, corn earworm, fall armyworm, webworm, lygus bug, chinch bug, sorghum midge, Southwestern corn borer, beet weevil, Egyptian alfalfa weevil larvae, Essex skipper.	1 1⁄2

lady (thistle caterpillar), sweet potato weevil, leafhopper, stink bug, saltmarsh caterpillar, stern weevil, sweet potato hornworm, tarnished plant bug, white grub (green June beetle), cutworm, yellowstriped armyworm, sunflower beetle, tortoise	
saltmarsh caterpillar, stern weevil, sweet potato hornworm, tarnished plant bug, white grub (green June beetle), cutworm, yellowstriped	
sweet potato hornworm, tarnished plant bug, white grub (green June beetle), cutworm, yellowstriped	
plant bug, white grub (green June beetle), cutworm, yellowstriped	
beetle), cutworm, yellowstriped	
armyworm sunflower beetle, tortoise	
beetle, leafroller.	
SPECIFIC DIRECTIONS	
Apply when insects or their damage ap	pear. Repeat applications at 7 to 14 day
intervals, if necessary, to maintain cont essential for effective control.	rol. Thorough and uniform coverage is
in bloom. Repeat 7 days later if adults	ads have emerged form the boot and are are still active. A third application may
be necessary in late planted sorghum of	or if midges are abundant. For chinch
 bugs, use high gallonage ground applic	ation directed at the base of plants.

### within 21 days of harvesting.

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Crop	Pest	Qts. of This Product Per Acre
Soybeans	Blister beetle, Mexican bean beetle, alfalfa caterpillar, bean leaf beetle, cucumber beetle, green cloverworm, Japanese beetle, leafhopper, three- cornered alfalfa hopper, thrips, velvetbean caterpillar, striped blister beetle, red-necked peanutworm, flea beetles, grape colaspis and cereal leaf beetle.	1
	Armyworm, corn earworm, fall armyworm, webworm, lygus bug, chinch bug, sorghum midge, Southwestern corn borer, beet weevil, Egyptian alfalfa weevil larvae, Essex skipper.	1 ½
	Whitefringed beetle adult, painted lady (thistle caterpillar), sweet potato weevil, leafhopper, stink bug, saltmarsh caterpillar, stern weevil, sweet potato hornworm, tarnished plant bug, white grub (green June beetle), cutworm, yellowstriped armyworm, sunflower beetle, tortoise beetle, leafroller.	2
	SPECIFIC DIRECTIONS: Apply when insects or their damage app intervals, if necessary, to maintain contr essential for effective control.	

apply within 21 days of harvest. For forage: do not apply within 14 days of grazing. For grain and fodder: do not apply within 21 days of harvesting. DO NOT APPLY A COMBINATION OF Carbaryl 4L AND 2,4-DB HERBICIDE TO SOYBEANS.

Сгор	Pest	Qts. of This Product Per Acre
Sugar beets	Blister beetle, Mexican bean beetle, alfalfa caterpillar, bean leaf beetle, cucumber beetle, green cloverworm, Japanese beetle, leafhopper, three- cornered alfalfa hopper, thrips, velvetbean caterpillar, striped blister beetle, red-necked peanutworm, flea beetles, grape colaspis and cereal leaf beetle.	1
	Armyworm, corn earworm, fall armyworm, webworm, lygus bug, chinch bug, sorghum midge, Southwestern corn borer, beet weevil, Egyptian alfalfa weevil larvae, Essex skipper.	1 ½

	Whitefringed beetle adult, painted lady (thistle caterpillar), sweet potato weevil, leafhopper, stink bug, saltmarsh caterpillar, stern weevil, sweet potato hornworm, tarnished plant bug, white grub (green June beetle), cutworm, yellowstriped armyworm, sunflower beetle, tortoise beetle, leafroller.	2
	intervals, if necessary, to maintain contressential for effective control.	
RESTRICTIONS AND PRECAUTION	S: For roots and forage: do not apply with	in 28 days of harvest or grazing.

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Crop	Pest	Qts. of This Product Per Acre
Sunflower	Blister beetle, Mexican bean beetle, alfalfa caterpillar, bean leaf beetle, cucumber beetle, green cloverworm, Japanese beetle, leafhopper, three- cornered alfalfa hopper, thrips, velvetbean caterpillar, striped blister beetle, red-necked peanutworm, flea beetles, grape colaspis and cereal leaf beetle.	1
	Armyworm, corn earworm, fall armyworm, webworm, lygus bug, chinch bug, sorghum midge, Southwestern corn borer, beet weevil, Egyptian alfalfa weevil larvae, Essex skipper.	1 1/2
	Whitefringed beetle adult, painted lady (thistle caterpillar), sweet potato weevil, leafhopper, stink bug, saltmarsh caterpillar, stern weevil, sweet potato hornworm, tarnished plant bug, white grub (green June beetle), cutworm, yellowstriped armyworm, sunflower beetle, tortoise beetle, leafroller.	2
	SPECIFIC DIRECTIONS: Apply when insects or their damage ap intervals, if necessary, to maintain cont essential for effective control.	pear. Repeat applications at 7 to 14 day rol. Thorough and uniform coverage is
RESTRICTIONS AND PR		

Сгор	Pest	Qts. of This Product Per Acre
Sweet potato	Blister beetle, Mexican bean beetle, alfalfa caterpillar, bean leaf beetle, cucumber beetle, green cloverworm, Japanese beetle, leafhopper, three- cornered alfalfa hopper, thrips, velvetbean caterpillar, striped blister beetle, red-necked peanutworm, flea beetles, grape colaspis and cereal leaf beetle.	1
	Armyworm, corn earworm, fall armyworm, webworm, lygus bug, chinch bug, sorghum midge, Southwestern corn borer, beet weevil, Egyptian alfalfa weevil larvae, Essex skipper.	1 1/2
	Whitefringed beetle adult, painted lady (thistle caterpillar), sweet potato weevil, leafhopper, stink bug, saltmarsh caterpillar, stern weevil, sweet potato hornworm, tarnished plant bug, white grub (green June beetle), cutworm, yellowstriped armyworm, sunflower beetle, tortoise beetle, leafroller.	2
	intervals, if necessary, to maintain conti	pear. Repeat applications at 7 to 14 day rol. Thorough and uniform coverage is a foliage spray. Full coverage of plant is

### RESTRICTIONS AND PRECAUTIONS: Do not apply within 7 days of harvest: Do not use in California.

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Сгор	Pest	Qts. of This Product Per Acre
Wheat	Blister beetle, Mexican bean beetle, alfalfa caterpillar, bean leaf beetle, cucumber beetle, green cloverworm, Japanese beetle, leafhopper, three- cornered alfalfa hopper, thrips, velvetbean caterpillar, striped blister beetle, red-necked peanutworm, flea beetles, grape colaspis and cereal leaf beetle.	1
	Armyworm, corn earworm, fall armyworm, webworm, lygus bug, chinch bug, sorghum midge, Southwestern corn borer, beet weevil, Egyptian alfalfa weevil larvae, Essex skipper.	1 1⁄2
	Whitefringed beetle adult, painted lady (thistle caterpillar), sweet potato weevil, leafhopper, stink bug, saltmarsh caterpillar, stern weevil, sweet potato hornworm, tarnished plant bug, white grub (green June beetle), cutworm, yellowstriped armyworm, sunflower beetle, tortoise beetle, leafroller.	2
	SPECIFIC DIRECTIONS: Apply when insects or their damage application intervals, if necessary, to maintain control essential for effective control.	

Crop	Pest	Qts. of This Product Per Acre
Tobacco	Tobacco flea beetle (in plant beds)	2 tablespoons/gallon or 1 quart/50 gallons per 100 square yards
	SPECIFIC DIRECTIONS: To prevent p	tant injury, avoid excessive applications.
	Green June beetle grubs	1 ½ quarts per 100 gallons
	SPECIFIC DIRECTIONS: Apply to are sprinkling as a drench with 50 to 100 g	
	budworms, fall armyworm, flea beetle, hornworm, Japanese beetle, June beetle and shuckfly.	1 to 2
	SPECIFIC DIRECTIONS: Use lower ra Use at least 10 gallons of prepared spr worms are small. If late season applicate before pruning or cutting.	ay per acre. Begin treatments when

Сгор	Pest	Qts. of This Product Per Acre
Chestnuts	Chestnut weevil	2 or 3 quarts per 100 gallons of water
	late July for adult chestnut w to shuck split.	take 4 applications at weekly intervals beginning in neevil control. Last application should be made prior
RESTRICTIONS AND PRECAUTIONS: Do not apply within 14 days of harvest. Do not use in California.		of harvest. Do not use in California.

### ADULT MOSQUITO CONTROL

Сгор	Pest	Qts. of This Product Per Acre
Pastures, rangelands, yards, parks, recreational areas, logging camps,	Adult mosquito	½ to 1 quart per 100 gallons of water (½ to 1 tablespoons per gallon)
military posts and adjacent forested lands or wastelands		Freat shrubbery and areas where adult mosquitoes asure ground sprayers when adult mosquitoes are
		nd crabs. Do not use in area where there are lic use of treated areas during applications or until

	Qts. of This Product Per Acre
ea, ner, od	1 quart to 100 gallons of water
as gall tie,	
en	
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Crop	Pest	Qts. of This Product Per Acre
Ornamentals and lawns	Ants, apple aphid, armyworm, azalea,	1 quart to 100 gallons of water
	leafminer, bagworms, birch leaf miner,	
	blister beetle, boxelder bug, boxwood	
	leafminer, browntail moth,	
	cankerworms, catalpa sphinx,	
	chiggers, cooley spruce gall aphid,	
	cutworms, cypress tip moth, Douglas	
	Fir Tussock moth, Eastern spruce gall	
	aphid, Elm leaf aphid, Elm leaf beetle,	
	Elm spanworm, Eriophid mites,	
	European Pine shoot moth, fall	
	armyworm, flea beetle, fuller rose	
	beetle, gall midges, gall wasps, green	
	striped mapleworm, grasshoppers,	
	gypsy moth, hackleberry hipplegall	ļ
	maker, holly bud moth, holly	
	leafminer, jackpine budworm,	
	budworm, Japanese beetle, Jeffrey	
	pine needleminer, June beetles, lace	
	· · · · · · · · · · · · · · · · · · ·	
	bug, leafhoppers, leafrollers, locust	
	borer, Maple leafcutter, mealy bugs,	
	mimosa webworm, Nantucket Pine tip	
	moth, Oak leafminers, Oak leaf	
	skeletoniser, oakworm complex,	
	Oleander caterpillar, olive ash borer,	
	orange striped oakworm, orange	
	tortix, periodical cicada, pine sawfly,	
	pine spittlebug, pitch pine tip moth,	
	plant bugs, poinsettia hornworm,	
	psyllids, puss caterpillar, red-humped	
	oakworm, rose aphid, rose chafer,	
	rose slug, saddled prominent, sawflies	<b>`</b>
	(exposed), scale insects, sowbugs,	
	spiny elm caterpillar, springtails,	-
	spruce budworm, spruce	
	needleminer, subtropical pine tip	
	moth, tent caterpillars, thorn bugs,	
	thrips (exposed), ticks, walnut	
	caterpillars, webworms, Western	
	Hemlock looper, Western Spruce	
	budworm, willow leaf beetles, and	
	yellow poplar weevil.	
	SPECIFIC DIRECTIONS: Apply and sp	pray thoroughly covering both upper and
	lower leaf surfaces. Begin applications	
	appear and repeat in 7-10 day intervals	
	addition of DRAGON® Spreader Sticke	r may improve residual control.
COTOLOTIONO AND ODCOAL	TIONS: Do not allow public use of treated area	

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Ants, armyworms, bluegrass billbug, centipedes, chiggers, cutworms, earwigs, Essex skipper, European chafer, fall armyworm, fiery skipper,	To treat 500 sq. ft., use 3 ½ to 5 oz. to 15 gallons of water;
fleas, grasshoppers, June beetles,	treat 1,000 sq. ft. with 7 ½ to 10 oz. per 30 gallons of water,
leafhoppers, Lucerne moth, millipedes, mosquitoes, sod webworms (lawn moths), sowburgs	treat 2,500 sq. ft. with $\frac{1}{2}$ - 2/3 quarts to 75 gallons of water;
springtails, ticks, yellowstriped	treat 5,000 sq. ft. with 1-1 ½ guarts to
grubs.	150 gallons of water.
pressure sprayer such as a knapsack ty similar equipment. For best results, mo If it is impractical to use the quantity of v one gallon of water per 1,000 sq. ft. and	rpe, hose attachment applicator or other w lawn and apply after watering or rain. water listed in the table, apply in at least I sprinkle with the recommended amoun
chinch bugs and white grubs.	Use the higher rate listed to control chinch bugs and white grubs.
SPECIFIC DIRECTIONS	
	millipedes, mosquitoes, sod webworms (lawn moths), sowbugs, springtails, ticks, yellowstriped armyworm, chinch bugs, and white grubs. SPECIFIC DIRECTIONS: Apply as a cc pressure sprayer such as a knapsack ty similar equipment. For best results, mo If it is impractical to use the quantity of v one gallon of water per 1,000 sq. ft. and of water after application to insure good later if necessary. chinch bugs and white grubs.

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### TREE FRUIT, NUT CROPS, SMALL FRUIT

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Carbaryl 4L Flowable will control many insect pests on fruit and nut trees. Use sufficient gallonage to obtain coverage. Follow the specific directions for each crop. Follow locally issued spray schedules for timing and frequency of applications in your area.

Crop	Qts. of This Product Per Acre
For easily thinned varieties:	1/2 to 1 pint per 100 gallons of water
Cortland, Grimes, Jonathan, Macintosh, Orleans, Rome Beauty, Puritan, Red Delicious, Winesap, Yellow Newton	SPECIFIC DIRECTIONS: Apply in a full coverage dilute spray between 10 to 25 days after full bloom.
For varieties that are difficult to thin,	1 to 2 pints per 100 gallons of water
including: Baldwin, Ben Davis, Duchess, Early Macintosh, Golden Delicious, Lady Apple, Northern Spy Rhode Island Greening, Steele Red, Turley, Wealthy, Yellow Transparent and York Imperial	SPECIFIC DIRECTIONS: Apply in a full coverage dilute spray between 10 to 25 days after full bloom.

Сгор	Pest	Qts. of This Product Per Acre
Apples and Pear	Apple aphid, apple maggot, apple mealybug, apple rust mite, apple	1 quart per 100 gallons.
	sucker, bagworm, California pear	Apple mealy bugs, apple aphid,
	slug, (pear sawfly), codling moth,	codling moth, and white apple
	Eastern tent caterpillar. European	leafhopper may be controlled with 1
	apple sawfly, eyespotted, bud moth,	pint east of Rocky Mountains only.
	Forbes scale, fruittree leafroller, green	
	fruitworm, Japanese beetle, lecanium	
	scales, lesser appleworm, lygus bugs,	
	orange tortrix, oystershell scale, pear curculio, red-banded leafroller, rosy	
	apple aphid, San Jose scale,	
	tarnished plant bug, tentiform	
	leafminer, white apple leafhopper,	
	wooly apple aphid, and yellow headed	-
	fire worm	
	SPECIFIC DIRECTIONS: For psylla co	ntrol, apply when eggs hatch or young
	nymphs are present. For optimum scale	e control, apply when crawlers are

Сгор	Pest	Qts. of This Product Per Acre
Citrus fruits	Avocado leafroller, black scale, brown soft scale, California orangedog, California Red Scale, Citricola scale, citrus cutworm, citrus rootweevil, citrus snow scale, fruittree leafroller, orange tortrix, Western tussock moth, West Indian sugarcane borer (adult) and yellow scale.	1 quart per 100 gallons.
	SPECIFIC DIRECTIONS: May be mixe citrus.	d with petroleum oils commonly used on

diluted spray mixtures per mature tree.

Сгор	Pest	Qts. of This Product Per Acre
Peaches, Plums, Pears, Cherries, Apricots, Nectarines:	Apple pademas, black cherry aphids, brown soft scale, cherry fruitworm, cherry maggots, cucumber beetle, European earwig, eyespotted bud moth, forbes scale, fruittree leafhopper, green fruitworm, Japanese beetle, June beetle, Lecanium scales, lesser peachtree borer, mealy plum aphid, olive scale, oystershell scale, orange tortrix, Oriental fruit moth, peach twig borer, periodical cicada, plum curculio, prune leafhopper, red-banded leafhopper, rose chafer, San Jose scale, tarnished plant bug, Tussock moth, variegated leafhopper.	1 quart per 100 gallons of water

SPECIFIC DIRECTIONS: Spray for thorough coverage. For optimum scale
control, apply when crawlers are present. For lesser peachtree borer control,
spray limbs and tree trunk thoroughly weekly during moth flight.
RESTRICTIONS AND PRECAUTIONS: Do not apply within 3 days of harvest.

### NUT CROPS

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Crop	Pest	Qts. of This Product Per Acre
Pecans	Black margined aphid, fall webworm, hickory shuckworm, lesser webworm, pecan leaf phylloxera, pecan nut- casebearer, pecan spittlebug, pecan weevil, twig girdler and walnut caterpillar.	Apply 10 ounces per medium sized tree in approximately 20 gallons of water. This is equivalent of 3 1/8 quarts per acre based on 10 trees per acre.
	Apply 5 ounces Carbaryl 4L Flowable water (10 gallons minimum per tree) to the tree canopy 10 feet beyond the dri	not feasible due to lack of proper tion or other factors, a soil application ession of adult pecan weevil populations. per tree, to the soil under tree in sufficient o uniformly cover the entire area beneath pline. Make applications every 7-10 days gin to harden (early August) until the adult
RESTRICTIONS AND P	RECAUTIONS: Do not apply within 14 days from harv	

Сгор	Pest	Qts. of This Product Per Acre	
Walnuts	Calico scale, codling moth, European fruit lecanium, fiberworm, fruit leafroller, and frosted scale.	1 pint per 100 gallons of water.	
	SPECIFIC DIRECTIONS: Spray the entire tree thoroughly,		
	Codling moth	1 pint	
	SPECIFIC DIRECTIONS: apply first spray when average cross sectional diameters of developing nuts are 1/3 to ½ inch. Repeat during middle or late June as needed.		
	European earwig	2 quarts per 100 gallons of water	
	SPECIFIC DIRECTIONS: Spray tree to point of runoff.		
<b>RESTRICTIONS AND F</b>	RECAUTIONS: Do not apply 14 days from harvest.		

### SMALL FRUIT CROPS

Crop	Pest	Qts. of This Product Per Acre
Brambles	European raspberry aphid, Japanese	1-2 quarts per 100 gallons of water
(Blackberries,	beetle, leafhopper, rose chafer, snow	
raspberries,	tree cricket.	
dewberries,	SPECIFIC DIRECTIONS: Spray thoroughly.	
boysenberries, loganberries)		
	ONS: Do not apply within 7 days of harvest.	

Crop	Pest	Qts. of This Product Per Acre
Blueberries	Blueberry maggot, cherry fruitworm,	1 1/2 quarts per 100 gallons of water
	Cranberry fruitworm, European fruit	
	lecanium and Japanese beetle	
DECTRICTIONS AND DE	ECAUTIONS: Do not apply within 7 days of booyant	

### RESTRICTIONS AND PRECAUTIONS: Do not apply within 7 days of harvest.

Pest	Qts. of This Product Per Acre	
Cutworms, eight spotted forester, European fruit lecanium, grape berry moth, grape leaffolder, grape leafhopper, Japanese beetle, June beetle, orange tortrix, omnivorous leafroller, red-banded leafroller, saltmarsh caterpillar, western grapeleaf skeletonizer, and western yellowstriped armyworm	2 quarts per 100 gallons of water	
SPECIFIC DIRECTIONS: Spray thoroughly. Apply before first brood leaffolder larvae emerge from rolls.		
	European fruit lecanium, grape berry moth, grape leaffolder, grape leafhopper, Japanese beetle, June beetle, orange tortrix, omnivorous leafroiler, red-banded leafroiler, saitmarsh caterpillar, western grapeleaf skeletonizer, and western yellowstriped armyworm SPECIFIC DIRECTIONS: Spray thorou	

Pest Crop Qts. of This Product Per Acre Strawberries Flea beetles, meadow spittlebug, Apply 1-2 quarts per 100 gallons of omnivorous leaftier (strawberry water. fruitworm), strawberry leafroller, and strawberry weevil, RESTRICTIONS AND PRECAUTIONS: Carbaryl may injure Early Dawn and Sunrise varieties on the Delmarva Peninsula. Do not apply within 7 days of harvest.

### STORAGE AND DISPOSAL

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Do not contaminate water, food or feed by storage or disposal.

### STORAGE

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Store this product in original container only, in cool, dry area out of reach of children and animals. Do not store in areas where temperatures frequently exceed 100° F.

If container is damaged, before cleaning up, put on Personal Protective Equipment.

### PESTICIDE DISPOSAL

Open dumping is prohibited. Do not reuse empty container. Pesticide, spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of on site or at an approved water disposal facility. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER DISPOSAL

Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose on in sanitary landfill or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DRAFT, NOT EPA Approved. 12-13-2002