DRAGON CARBARYL 4L CONCENTRATE INSECTICIDE

For Agricultural or Commercial Use Only.

ACTIVE INGREDIENT:

Carbaryl (1-naphthyl N-methylcarbamate)...... 43.4%

INERT INGREDIENTS:<u>56.6%</u>

Total

100.0% parvi per gallon

This product contains 4 pounds of Carbaryl per gallon. EPA Reg. No.16-178 EPA Est. No. 16-VA-1

KEEP OUT OF REACH OF CHILDREN
CAUTION
SHAKE WELL BEFORE USING
See First Aid Below

ACCEPTED

DEC 3 0 2004

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under BPA Reg. No. 16-172

Net contents

FIRST AID

IF SWALLOWED:

Call a poison control center or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow.

Do not induce vomiting unless told to do so by a poison control center or doctor.

Do not give anything by mouth to an unconscious or convulsing person.

IF IN EYES:

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

IF ON SKIN OR CLOTHING:

Take off contaminated clothing.

Rinse Skin immediately with plenty of water for 15 to 20 minutes.

IF 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, the National Pesticide Information Center (800-858-7378) or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

GENERAL: Contact a physician immediately in all cases of suspected poisoning. Transport to a physician or hospital immediately and SHOW A COPY OF THIS LABEL TO THE PHYSICIAN. If poisoning is suspected in animals, contact a veterinarian.

NOTE TO PHYSICIAN: Carbaryl 4L contains an N-methyl carbamate insecticide that inhibits cholinesterase. Overexposure to this substance may cause toxic signs and symptoms due to stimulation of the cholinergic nervous system. Gastric lavage may be used if this product has been swallowed. Carbaryl poisoning may occur rapidly after ingestion and prompt removal of stomach contents is indicated.

Specific treatment consists of parenteral atropine sulfate. Caution should be maintained to prevent overatropinization. Improve tissue oxygenation as much as possible before administering atropine to minimize the risk of ventricular fibrillation. Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended. To aid in confirmation of diagnosis, urine samples should be obtained within 24 hours of exposure and immediately frozen.

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed, absorbed through the skin, inhaled, or if in eyes. Avoid breathing spray mist. Avoid contact with eyes, skin or clothing. Keep out of reach of children and domestic animals. OVEREXPOSURE MAY CAUSE: Salivation, watery eyes, pinpoint eye pupils, blurred vision, muscle tremors, difficult breathing, excessive sweating, abdominal cramps, nausea, vomiting, diarrhea, weakness, headache. IN SEVERE CASES: CONVULSION, UNCONSCIOUSNESS AND RESPIRATORY FAILURE MAY OCCUR. SIGNS AND SYMPTOMS MAY OCCUR RAPIDLY FOLLOWING OVEREXPOSURE TO THIS PRODUCT.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC) or viton, shoes plus socks and chemical resistant headgear for overhead exposure. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Workers 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.

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 further information.

DIRECTIONS FOR USE

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

Read the entire label before using this product. Strictly observe label directions and precautions. 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, County 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, 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), restricted entry interval (REI), and notification to workers. 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, chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC) or viton, shoes plus socks and chemical-resistant headgear for completed exposure.

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.

GENERAL PRECAUTIONS AND RESTRICTIONS

DRAGON CARBARYL 4L Concentrate Insecticide is a suspension of microfine carbaryl insecticide in an aqueous medium. It readily disperses in water to form a spray which may be applied by ground equipment. Do not apply this product by aircraft.

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.

PRE-HARVEST AND GRAZING RESTRICTIONS AND LIMITATIONS

Tolerances established under the Federal Food, Drug and Cosmetic Act permit the sale of crops bearing probable carbaryl residues when this product is used in accordance with 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 on crops for which carbaryl tolerances are not established. Do not plant rotational food and feed crops not listed on this or other carbaryl labels in carbaryl treated soil.

APPLICATION STATEMENTS

Calibrate and adjust application equipment to ensure proper rate and accurate placement. To clean spray system after use, drain and flush with 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 as stucco, brick, cinder block and wood. Spray deposits on painted or stained 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.

RESISTANT SPECIES NOTICE: All references to armyworms on the crops listed on this label refer to the species, *Pseudaletia unipuncta*, often called the "true armyworm". Except where indicated otherwise, this product is not registered for the control of other armyworm species. Regional differences have been noted in the susceptibility of certain strains of Colorado potato beetles, diamondback moths, fall armyworms and Southern green stink bugs to carbaryl. If local experience indicates inadequate control, use an alternative pesticide.

MIXING, LOADING AND HANDLING INSTRUCTIONS

TO ASSURE A UNIFORM SUSPENSION, AGITATE, STIR OR RECIRCULATE ALL CONTAINERS OF THIS PRODUCT PRIOR TO USE. Remove oil, rust, scale, pesticide residues and other foreign matter from mix tanks and entire spray system. Flush with clean water. Fill spray or mix tank with ½ to ¾ the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of this product and then the remaining volume of water. Include rinse water from container. Prepare only as much spray mixture as can be applied on the day of mixing. MAINTAIN CONTINUOUS AGITATION DURING MIXING AND APPLICATION TO ASSURE A UNIFORM SUSPENSION. DO NOT STORE SPRAY MIXTURE FOR PROLONGED PERIODS OR DEGRADATION OF CARBARYL MAY OCCUR. Local water conditions may also accelerate the degradation of spray mixtures containing carbaryl. See the following "COMPATIBILITY STATEMENT".

COMPATIBILITY STATEMENT

CARBARYL 4L CONCENTRATE INSECTICIDE, when diluted with at least an equal volume of water, is compatible with a wide range of pesticides. It is not compatible with diesel fuel, kerosene, fuel oil or aromatic solvents. If compatibility of CARBARYL 4L CONCENTRATE with another product and the resulting crop response is unknown, the mixture should be first tested on a small scale. Curdling, precipitation, greasing, layer formation or increased viscosity are symptoms of incompatibility. Incompatibility will reduce insect control and may cause application and handling difficulties or plant injury. Observe all precautions and limitations on labeling of all products used in mixtures. WHEN PREPARING COMBINATION SPRAYS, FIRST ADD CARBARYL 4L CONCENTRATE TO AT LEAST AN EQUAL VOLUME OF WATER, MIX THOROUGHLY AND THEN ADD COMBINATION PRODUCTS TO THE MIXTURE. DO NOT APPLY TANK MIX COMBINATIONS UNLESS YOUR PREVIOUS EXPERIENCE INDICATES THE MIXTURE IS EFFECTIVE AND WILL NOT RESULT IN APPLICATION PROBLEMS, EXCESSIVE RESIDUES OR PLANT INJURY.

Carbaryl is unstable under highly alkaline conditions and mixtures with strong bases, such as Bordeaux, lime-sulfur and casein-lime spreaders and will result in chemical degradation of the insecticide. Do not use this product in water with pH values above 8.0 unless a buffer is added. If necessary, water should be buffered to neutral (pH = 7.0) before adding this product to the spray tank. Overhead irrigation with alkaline or muddy water after application will also accelerate chemical degradation and may result in reduced insect control.

APPLICATION PROCEDURES AND PRECAUTIONS

On all crops, use sufficient gallonage to obtain thorough and uniform coverage. Observe crop label instructions for **SPECIFIC DIRECTIONS** regarding spray volume where they occur. Calibrate spray equipment to deliver the required amount. The flow rate of CARBARYL 4L CONCENTRATE diluted 1:1 with water is similar to the flow rate of water. Use of 50 mesh slotted strainers in spray system and 25 mesh slotted strainers behind nozzles is recommended.

Ground Application: Apply in sufficient volume for adequate coverage on all crops and sites. To prepare small volumes of spray mixture, use 1/3 fluid ounce (approximately 2 teaspoons) of this product in an adequate amount of water and apply to 500 square feet, where rates of 1 quart per acre are indicated.

Sprinkler !rrigation 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 irrigation system.

Spray Preparation: First prepare a suspension of this product in a mix tank. Fill tank with ½ to ¾ the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of this product and then the remaining volume of water. (Suspension concentrations using the appropriate dosage per acre recommended on this label, per 1 to 4 gallons of water, are recommended.) Then set sprinkler to deliver 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the suspension of this product into the irrigation water line so as to deliver the desired rate per acre. The suspension of this product should be injected with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. If you should have any other questions about calibration, you should contact your State Extension Service Specialists, equipment manufacturers or other experts.

Note: When treatment with this product has been completed, further field irrigation over the treated area should be avoided for 24 to 48 hours to prevent washing the chemical off the crop.

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 a more dilute solution per unit time.

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide

distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when wind speed favors drift, when system connection or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained.

Crop injury, lack of effectiveness or illegal pesticide residues in the crop may result from non-uniform distribution of treated water.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.

SPECIFIC USE DIRECTIONS

Crop/Site Grouping: Asparagus, Brassica leafy vegetable crops, Cereal grain crops (Field and Popcorn, Sweet corn,), Cucurbit vegetables, Flax, Pasture grass, Rangeland, Fruiting vegetables, Leafy vegetables, Le

INSECT CONTROL

Begin application when insect populations reach recognized economic threshold levels. Consult the Cooperative Extension Service, consultants 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 overage is essential for effective control.

ASPARAGUS

Crop	Pest	Qts. of This Product Per Acre	
Asparagus	Apache cicadas, Asparagus	1 to 2	
	beetles, Cutworms		
	SPECIFIC DIRECTIONS: Repeat	application as necessary up to a total of	
	3 times prior to harvest or a total of	of 5 times per crop, but not more often	
	than once every 3 days. For cutwo	rm control, this product is most effective	
	against species which feed on the u	pper portions of the plant.	
	Apache cicadas, Asparagus	2 to 4	
	beetles, Cutworms		
	SPECIFIC DIRECTIONS: Applica	tion to ferns or brush growth following	
		tions as necessary, but not more often	
	than once every 7 days. Do not m	than once every 7 days. Do not make more than a total of 5 applications	
	per year to spears and ferns combin	per year to spears and fems combined.	
RESTRICTIONS AND P	RECAUTIONS: Do not apply within 1 day of harv	DNS: Do not apply within 1 day of harvest. Do not apply more than a total of 6	
	est of spears. Do not apply more than a total of 10		

BRASSICA LEAFY VEGETABLE CROPS

Repeat applications as needed, up to a total of 4 times, but not more often than once every 7 days.

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Crop	Pest	Qts. of This Product Per Acre
Broccoli, Brussels sprouts,	Flea beetles, Harlequin bugs,	½ to 1
Cauliflower, Cabbage, Kale,	Leafhoppers	

Kohlrabi, Mustard greens	Armyworms, Aster leafhoppers, Corn earworms, Diamondback moths, Fall armyworms, Imported cabbageworms, Lygus bugs, Spittle bugs, Stink bugs, Tarnished plant	1 to 2
	bugs	

RESTRICTIONS AND PRECAUTIONS: For Broccoli, Brussels sprouts, Cabbage, Cauliflower and Kohlrabi, do not apply within 3 days of harvest. For Kale and Mustard greens, do not apply within 14 days of harvest. Do not apply more than a total of 6 qts. per acre per crop.

CEREAL GRAIN CROPS

Repeat applications as needed, up to a total of 4 times, but not more often than once every 14 days. Optimum timing and good coverage are essential for effective control.

Crop	Pest	Qts. of This Product Per Acre
Field corn, Popcorn	Armyworms, Chinch bugs, Corn	
	earworms, Corn rootworm adults,	
	Fall armyworms, Flea beetles,	1 to 2
	Japanese beetles, Sap beetles,	
	Southwestern com borers,	
	Leafhoppers	
	SPECIFIC DIRECTIONS: For optimu	m chinch bug control, use ground
	equipment to apply at least 20 gals. o	f water per acre and direct spray
	toward stalk to provide thorough cove	rage.
	European corn borers	1½ to 2
	SPECIFIC DIRECTIONS: For optimu	
	not apply in less than 15 gals, of water	r per acre.
	Cutworms, Western bean cutworms	2
	SPECIFIC DIRECTIONS: For optimu	m cutworm control, apply in a 12-inch
	band over the row using sufficient vol	
	coverage. For broadcast application,	
	cutworm control, this product is most	
	on the upper portions of the plant. For	
		100% tassel emergence. Treatment
	after 100% silk emergence will reduce	e effectiveness.

Field corn, Popcorn (continued)

RESTRICTIONS AND PRECAUTIONS: Observe Bee Caution. Do not apply more than a total of 8 qts per acre per crop. Do not apply within 48 days of harvest of grain and fodder or within 14 days of harvest or grazing of forage or silage.

SWEET CORN

Observe Bee Caution. Repeat applications as necessary up to a total of 8 times, but not more than once every 3 days. Optimum timing and good coverage are essential for effective control.

For insects attacking silks and ears, insecticide sprays should be applied starting when first silks appear and continuing until silks begin to dry. During silking, the minimum re-treatment interval (3 days) may not provide adequate levels of protection under conditions of rapid growth or severe pest pressure. The use of an alternative product should be considered in conjunction with this product.

Сгор	Pest	Qts. of This Product Per Acre
Sweet corn	Armyworms, Chinch bugs, Corn earworms, Corn rootworm adults, Fall armyworms, Flea beetles, Japanese beetles, Leafhoppers, Sap beetles, Southwestern corn borers	1 to 2

L ADRAUTIA DIRECTIA			
	For optimum chinch bug control, use ground		
	at least 20 gals. of water per acre and direct spray		
toward stalk to provide	toward stalk to provide thorough coverage.		
European com borers	European com borers 1½ to 2		
	TIONS: For optimum European corn borer control, do		
not apply in less than	an 15 gals. of water per acre.		
Cutworms, Western be	Cutworms, Western bean cutworms 2		
	SPECIFIC DIRECTIONS: For optimum cutworm control, apply in a 12-inch		
band over the row usir	band over the row using sufficient volume of water to obtain thorough		
	coverage. For broadcast application, use at least 20 gals. per acre. For		
	cutworm control, this product is most effective against species which feed		
on the upper portions	ns of the plant. For western bean cutworms, treat when		
infestation averages 1	s 15% and at 90 to 100% tassel emergence. Treatment		
after 100% silk emerge	after 100% silk emergence will reduce effectiveness.		
RESTRICTIONS AND PRECAUTIONS: Do not apply within	S AND PRECAUTIONS: Do not apply within 2 days of harvest of ears, within 14 days of harvest		
	f harvest of fodder. Do not apply more than a total of 16 qts. per acre per		
сгор.			

CUCURBIT VEGETABLES

Repeat applications as necessary, up to a total of 6 times, but not more often than once every 7 days

Crop	Pest	Qts. of This Product Per Acre
Cucumbers, Melons, Squash	Melonworms, Pickleworms	½ to 1
	Cucumber beetles, Flea beetles, Leafhoppers, Squash bugs	1
	SPECIFIC DIRECTIONS: For optimum control of squash bugs, apply sufficient spray volume for thorough coverage and time sprays for early morning or late afternoon.	
RESTRICTIONS AND PRECAUT	IONS: Do not apply within 3 days of har	vest. Do not apply more than a total of
6 qts. per acre per crop. Observe		

FLAX

Up to 2 applications per crop may be made, but not more often than once every 14 days.

Crop	Pest	Qts. of This Product Per Acre
Flax	Armyworms	1 to 1½
(DO NOT USE IN CALIFORNIA)		
RESTRICTIONS AND PRECAUTION	NS: Do not apply within 42 days of har	vest for seed or straw. Do not apply
more than a total of 3 qts. per acre p	er crop.	

PASTURE GRASS

Up to 2 applications per year may be made, but not more often than once every 14 days.

Сгор	Pest	Qts. of This Product Per Acre
Pasture grass	Armyworms, Chinch bugs, Essex	
	skippers, Fall armyworms, Striped	1 to 1½
	grass loopers, Thrips, Range	<u> </u>
	caterpillars, Range crane flies, Ticks	
	SPECIFIC DIRECTIONS: To control	thrips in grasses grown for seed, use
	high spray pressure to improve penet	ration into the boot. Carefully mark
	swaths to avoid over-application.	·
RESTRICTIONS AND PR	ECAUTIONS: Do not apply within 14 days of harv	est or grazing. Do not exceed a total
of 3 gts. per acre per year.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-

RANGELAND

Do not make more than 1 application per year. Carefully mark swaths to avoid over-application.

Site	Pest	Qts. of This Product Per Acre
Rangeland (non-grazing)	Black grass bugs, Grasshoppers, Mormon crickets, Range caterpillars, Range crane flies	½ to 1
	Ticks	1
RESTRICTIONS AND PRECAU more than 1 qt. per acre per year	ITIONS: May be harvested or grazed the s	ame day of treatment. Do not apply

FRUITING VEGETABLES

Repeat applications as necessary up to a total of 7 times, but not more often than once very 7 days. When disease transmission is suspected, monitor fields following application and re-treat if reinfestation occurs, but not more often than once every 7 days.

Crop	Pest	Qts. of This Product Per Acre
Eggplant, Peppers, Tomatoes	Colorado potato beetles, European corn borers, Fall armyworms, Lace bugs, Stink bugs (suppression), Tarnished plant bugs, Thrips (suppression), Tomato fruitworms, Tomato hornworms, Tomato pinworms	1 to 2
	SPECIFIC DIRECTIONS: Thorough suppress Stink bugs.	coverage is essential to effectively
	Flea beetles, Leafhoppers	½ to 1
	Cutworms	2
	SPECIFIC DIRECTIONS: For cutworm control, this product is most effective against species which feed on the upper portions of the plant.	
RESTRICTIONS AND PRECAUTE 8 qts. per crop.	ONS: Do not apply within 3 days of harve	

LEAFY VEGETABLES

Repeat applications as necessary, up to a total of 5 times, but not more often than once every 7 days.

Crop	Pest	Qts. of This Product Per Acre
Celery, Dandelion, Endive, Lettuce (Head and Leaf), Spinach	Flea beetles, Harlequin bugs, Leafhoppers	½ to 1
	Armyworms, Aster leafhoppers, Corn earworms, Fall armyworms, Imported cabbageworms, Lygus bugs, Spittlebugs, Stink bugs, Tarnished plant bugs	1 to 2
RESTRICTIONS AND PRECAUTIO	NS: Do not apply within 14 days of ha	vest. Do not apply more than a tota

of 6 qts. per acre per crop.

LEGUME VEGETABLES

Repeat applications as necessary, up to a total of 4 times, but not more often than once every 7 days. Use lower rates for light to moderate populations and smaller instars and to provide maximum survival of beneficial insects and spiders. Use the higher rates for heavy populations and larger instars.

and spiders. Use the higher rates for Crop	Pest	Qts. of This Product Per Acre
resh and Dried beans (Phaseolus	Bean leaf beetles, Blister beetles,	
species including Kidney, Navy and	Cucumber beetles, Grape colapsis,	
Snap), Fresh and Dried peas	Green cloverworms, Japanese	1/2 to 1
Pisum species)	beetles, Mexican bean beetles,	
	Velvetbean caterpillars	
	Corn earworms	½ to 1½
	Alfalfa caterpillars, Colorado potato	
	beetles, Flea beetles, Leafhoppers,	1
	Three cornered alfalfa hoppers,	
	Thrips, Western bean cutworms	
	Armyworms, Cutworms, European	
	corn borers, Fall armyworms, Stink	1 to 1½
	bugs, Tarnished plant bugs,	
	Webworms	
	SPECIFIC DIRECTIONS: For cutwor	m control, this product is most
	effective against species which feed of	on the upper portions of the plant.
	Alfalfa loopers (suppression),	
	Cowpea curculios (suppression),	
	Painted ladies (Thistle caterpillars),	1½
	Pea leaf weevils, Pea weevils,	
	Saltmarsh caterpillars, Woollybean	
	caterpillars, Yellowstriped	
	armyworms	
	CALIFORNIA ONLY:	
	Corn earworms (suppression),	
	Limabean podborers (suppression),	11/2
	Lygus bugs (suppression), Stink	
	bugs (suppression)	

days of harvest of fresh beans or peas or within 21 days of harvest of dried beans or peas, seed or hay. Do not apply more than a total of 6 qts. per acre per crop. Observe plant response precautions.

NON-CROPLAND

Up to 2 applications per year may be made, but not more often than once every 14 days. Carefully mark swaths to avoid overapplication.

Site	Pest	Qts. of This Product Per Acre
Wasteland, Rights-of-Way, Hedgerows, Roadsides	Black grass bugs	1/4 to 1/2
	Morman crickets, Range caterpillars, Range crane fly	½ to 1
	Ticks	1 to 1½

RESTRICTIONS AND PRECAUTIONS: Do not apply within 14 days of grazing or harvest for forage or hay. Do not apply more than a total of 3 qts. per acre per year.

OKRA

Apply in sufficient volume to ensure good coverage.

Crop	Pest	Qts. of This Product Per Acre
Okra	Corn earworms, Stink bugs	1 to 1½
		as needed at 6 to 8 day intervals. For "CONTROL OF SPECIFIC PESTS ction.
RESTRICTIONS AND 6 qts. per acre per se	PRECAUTIONS: Do not apply within 3 days of hason.	narvest. Do not apply more than a tota

PEANUTS

Repeat applications as necessary, up to a total of 5 times, but not more often than once every 7 days.

Crop	Pest	Qts. of This Product Per Acre
Peanuts	Blister beetles, Mexican bean	½ to 1
	beetles	
	Alfalfa caterpillars, Bean leaf	1
	beetles, Cucumber beetles, Green	
	cloverworms, Japanese beetles,	
	Leafhoppers, Rednecked	
	peanutworms, Three cornered	
	alfalfa hoppers, Thrips, Velvetbean	
	caterpillars.	
	SPECIFIC DIRECTIONS: For optimu	
	banded sprays with hollow cone spray nozzles. Ensure adequ	
	coverage for the underside of leaves.	
	Armyworms, Corn earworms, Fall	1 to 1½
	armyworms, Stink bugs, Webworms	
*	Whitefringed beetle adults,	2
	Cutworms	
	SPECIFIC DIRECTIONS: For cutworm control, this product is most	
	effective against species which feed of	
	IS: Observe plant response precaution	s. Do not apply within 14 days of
harvest. Do not apply more than a to	tal of 8 qts. per acre per crop.	

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

ROOT AND TUBER CROPS

(Except Sugar beets and Sweet potatoes)

Repeat applications as necessary, up to a total of 6 times, but not more often than once every 7 days.

Crop	Pest	Qts. of This Product Per Acre
Carrots, Garden beets, Parsnips, Potatoes, Radishes	Flea beetles, Leafhoppers	½ to 1
	Armyworms, Aster leafhoppers, Colorado potato beetles, Corn earworms, Cutworms, European com borers, Fall armyworms, Lace bugs, Lygus bugs, Spittlebugs, Stink bugs, Tarnished plant bugs	1 to 2
	SPECIFIC DIRECTIONS: For cutworm control, this product is most effective against species which feed on the upper portions of the plant.	

SMALL FRUITS AND BERRIES

Repeat applications as necessary, up to a total of 5 times, but not more often than once every 7 days.

	to a total of 3 times, but not more often than	Qts. of This
Crop	Pest	Product Per Acre
Grapes, Raspberries, Strawberries	European fruit lecaniums, European	
	raspberry aphids, Flea beetles, Grape	
	leaffolders, Grape leafrollers, Japanese	
	beetles, Leafhoppers, Leafrollers,	1 to 2
	Meadow spittlebugs, Omnivorous	
	leafftiers, Rose chafers, Snowy tree	
	crickets, Strawberry bud weevils,	
	Strawberry clippers, Strawberry	
	fruitworms, Strawberry leafrollers,	
	Strawberry weevils, Western grapeleaf	
	skeletonizers, Western yellowstriped	
	armyworms	
	SPECIFIC DIRECTIONS: In grapes, for gra	pe leaffolder control, apply
	before the first brood larvae emerge from ro	
	Blueberry maggots, Cherry fruitworms,	
	Cranberry fireworms, Cranberry	
	fruitworms, Cranberry twig girdlers, Elm	1½ to 2
	spanworms, Gypsy moths, Spaganothus	
	worms, Tarnished plant bugs	
	Eight-spotted foresters, Cutworms, Grape	
	berry moths, June beetles, Omnivorous	" -
	leafrollers, Orange tortrix, Raspberry	2
	fruitworms, Raspberry sawflies,	
	Redbanded leafrollers, Saltmarsh	
	caterpillars	
	SPECIFIC DIRECTIONS: For cutworm con	trol, this product is most
	effective against species which feed on the	
DESTRICTIONS AND DESCRIPTION	IS: Observe Rea Caution Do not apply within	

RESTRICTIONS AND PRECAUTIONS: Observe Bee Caution. Do not apply within 7 days of harvest. Do not apply more than a total of 10 qts. per acre per crop.

Caution: Carbaryl may injure Early dawn and Sunrise varieties of strawberries. In grapes, do not concentrate spray on the bunch or visible residues may result.

TOBACCO

Plant bed and Field Treatment - Repeat treatments as necessary, up to a total of 4 times per crop, but not more often than once every 7 days. Use lower rate on young plants (up to knee height). Use at least 10 gallons of

prepared spray per acre. Begin treatments when worms are small.

Crop	Pest	Qts. of This Product Per Acre
Tobacco	Budworms, Fall armyworms, Hornworms, Japanese beetles, June beetles,	1 to 2
	Suckflies, Tobacco flea beetles	
RESTRICTIONS AND PREC	AUTIONS: Tobacco may be harvested on the day of tre	eatment. Do not apply more
	per crop. Observe plant response precautions.	, , ,

TREE FRUIT CROPS

On all tree fruit crops, apply in sufficient volume for adequate coverage. This will vary depending on the pest and its severity, the tree condition, size, density and other factors. Repeat applications as necessary, up to a total of 8

Crop	Pest	Qts. of This Product Per Acre	
Citrus fruits	Avocado leafrollers, California orangedogs, Citrus cutworms, Fruittree leafrollers, Orange tortrix, Western tussock moths	2 to 3	
	Citrus rust mites, Eriophyid mites, Plant bugs, Scale insects [Black scales, Brown soft scales, California red scales (except in California), Citrus snow scales, Yellow scales (except in California)]	3 to 5	
	SPECIFIC DIRECTIONS: For scale control, a present. For best control of Eriophyld mites, in apply when pest populations are low.		
	Apopka weevils (adult), Citrus root weevils (adults), Fuller rose beetles, Little leaf notchers (adult)	5 to 7½	
	California Only: California red scales, Yellow scales	5 to 16	
	season for California red scales. Apply when o	SPECIFIC DIRECTIONS: Do not make more than 1 application per season for California red scales. Apply when crawlers are present.	
RESTRICTIONS AND PRECA apply more than a total of 20 c	AUTIONS: Observe Bee Caution. Do not apply within 5	days of harvest. Do not	

POME FRUITS

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.

Crop	Pest	Qts. of This Product Per Acre
Apples	White apple leafhoppers	½ to 1½
, .	Apple aphids, Codling moths	1 to 3
	Apple aphids, Apple maggots, Apple mealybugs, Apple rust mites, Bagworms, California pearslugs (Pear sawflies), European apple sawflies, Eyespotted bud moths, Fruittree leafrollers, Gypsy moths, Japanese beetles, Lesser appleworms, Lygus bugs, Orange tortrix, Pearleaf blister mites, Pear psyllas, Pear rust mites, Periodical cleades, Plum curculios, Redbanded leafrollers, Rosy apple aphids, Scale insects (Forbes scales, Lecanium scales, San Jose scales), Tarnished plant bugs, Tentiform leafminers, Wooly apple aphids, Yellowheaded fireworms	1½ to 3
	SPECIFIC DIRECTIONS: On apples, avoid	
	bloom until 30 days after full bloom unless f pest control during this period also may resi	
	control apply when eggs hatch or young nyr control, apply when crawlers are present.	
Apples Only, for fruit thinning		1 to 3

SPECIFIC DIRECTIONS: Observe Bee Caution. Apply between 80% petal fall and 16 mm fruit size. Use the higher rates on hard to thin varieties at the early timing which is the 80% petal fall to 6 mm fruit size. Use the lower rates on easy to thin varieties and at the later thinning period which is the 10 to 16 mm fruit size. The rate to use per acre will depend on varieties, tree size, row spacing, weather conditions at the time of and following applications. Consult with the local fruit thinning experts in your area for the proper rate to use under your conditions.

The optimum spray gallonage will depend on the tree size, planting density, row spacing and amount of foliage. Use sufficient spray volume to ensure adequate coverage (100 to 400 gals. per acre). Avoid spraying to the point of runoff. Reduce spray coverage to the lower portion of the tree since overthinning may occur here. Factors such as climatic temperature, high humidity, frost, tree age, variety, nutrition, previous crop, pruning and bloom may influence fruit thinning results with the product. Exercise caution to avoid possible overthinning. For the most effective results, apply under good drying conditions and when daytime temperatures (°F) will be 70 to low 80's for the following 1 to 3 days. Application with daytime temperatures in excess of 80°F may result in overthinning. This product may be mixed with other fruit thinners; however, use caution to avoid overthinning and other adverse effects. Consult with local fruit thinning experts in your area for recommendations. Refer to the other product labels for specific use directions.

Consult with local fruit thinning experts in your area for advice on the proper use of this product on your varieties under your growing conditions.

PRECAUTIONS: The use of this product may result in fruit deformity under certain environmental conditions. Before using on any variety of apples, the user must weigh the risk versus benefits when using this product, particularly when using between 80% petal fall and 6 mm fruit size. Red Delicious are more sensitive to this phenomenon and in particular, the varieties Bisbee, Red Chief and Vallee Spur are very susceptible to conditions causing fruit deformity. Precipitation and temperatures below 65°F increase the possibility of fruit deformity. The use with summer spray oils and wetting agents may increase the risk of fruit deformity and injury.

POME FRUITS Continued

RESTRICTIONS AND PRECAUTIONS: Do not apply within 3 days of harvest. Do not apply more than a total of 15 qts. per acre per crop. Do not make more than a total of 8 applications per crop.

FOR PROTECTION OF HONEYBEES: Remove all bee hives from orchard to be treated prior to application. Do not apply this product if bees are actively foraging in orchard. If weed bloom is present, mow the cover crop on the orchard floor prior to applying this product.

STONE FRUITS

_		Qts. of This
Стор	Pest	Product Per Acre
Apricots, Cherries, Nectarines,	Apple pandemis, Black cherry aphids,	
Peaches, Plums	Cherry fruitworms, Cherry maggots	
	(Cherry fruit flies), Codling moths,	İ
	Cucumber beetles, Eastern tent	2 to 3
	caterpillars, Eyespotted bud moths,	
	European earwigs, Fruittree leafrollers,	
	Green fruitworms, Gypsy moths,	
	Japanese beetles, June beetles, Lesser	
	peachtree borers, Mealy plum aphids,	
	Orange tortrix, Oriental fruit moths, Peach	İ
	twig borers, Periodical cicadas, Plum	
	curculios, Prune leafhoppers, Redbanded	
	leafrollers, Rose chafers, Scale Insects	
	(Brown soft scales, Forbes scales,)
	Lecanium scales, Olive scales,	
	Oystershell scales, San Jose scales),	
	Tarnished plant bugs, Tussock moths,	
	Variegated leafrollers	
	SPECIFIC DIRECTIONS: Observe Bee Ca	
	necessary, up to a total of 3 times per crop,	
	every 7 days. An additional application at the	
	timing may be made. For optimum scale co	
	present. For lesser peachtree borers, best	
	thoroughly spraying limbs and tree trunks at	t weekly intervals during moth
	flight.	
	CALIFORNIA ONLY: Black cherry	
	aphids, Cherry fruitworms, Cherry	
	maggots (Cherry fruit flies), Codling	Ì
	moths, Cucumber beetles, Eyespotted	3 to 4
	bud moths, European earwigs, Fruittree	1
	leafrollers, Green fruitworms, Mealy plum	Í
	aphids, Orange tortrix, Oriental fruit	
	moths, Peach twig borers, Scale insects	
	(Brown soft scales, Forbes scales,	
	Lecanium scales, Olive scales,	
	Oystershell scales, San Jose scales),	
	Tarnished plant bugs, Tussock moths	
	SPECIFIC DIRECTIONS: Observe Bee Ca	ution. Repeat applications
	necessary, up to a total of 3 times per crop,	
. •	every 14 days. An additional application at t	
	dormant timing may be made. For optimum	
	crawlers are present.	. Justic Common upply Willow
	Peach twig borers, Scale insects (Brown	
	soft scales, Forbes scales, Lecanium	4 to 5
	scales, Olive scales, Oystershell scales,	
	San Jose scales)	
		played domant timing and
	SPECIFIC DIRECTIONS: For dormant or d	
	combination with a recommended dormant	
	product label for additional use directions ar	
	ONS: Do not apply within 3 days of harvest, exc	
	 Do not apply more than a total of 14 qts. per a 	
	at the dormant or delayed dormant timing. Do r	not apply more than a total of
ts. per acre during the production	season.	

FORESTED AREAS AND RANGELAND TREES

Apply in sufficient volume for adequate coverage. This will vary depending on the tree size, density and stage of growth.

growth. Crop/Site	Pest	Qts. of This Product Per Acre
Non-urban forests, Tree plantations,	Ants, Apple aphids, Armyworms, Ash	
Planted Christmas trees, Rangeland	whiteflies, Azalea leafminers, Bagworms,	
trees	Balsam twig aphids, Birch leafminers,	1
	Blister beetles, Boxelder bugs, Boxwood	
	leafminers, Browntail moths,	
	Cankerworms, Catalpa sphinx, Chiggers,	
	Cooley spruce gall adelgids, Cutworms,	
	Cypress tip moths, Douglas fir tussock	
	moths, Eastern spruce gall adelgids, Elm	
	leaf aphids, Elm leaf beetles, Elm	
	spanworms, Eriophyld mites, European	
	pine shoot moths, Fall armyworms, Flea	
	beetles, Fuchia gall mites, Fuller rose	
	beetles, Gall midges, Gall wasps,	
	Greenstriped mapleworms,	
	Grasshoppers, Hackberry nipplegall	
	makers, Holly bud moths, Holly	
	leafminers, Jackpine budworms,	
	Japanese beetles, Jeffrey pine	
	needleminers, June beetles, Lace bugs,	
	Leafhoppers, Leafrollers, Locust borers,	
	Maple Leafcutters, Mealybugs, Mimosa	
	webworms, Nantucket pine tip moths, Oak	
	leafminers, Oak moths, Oak	
	skeletonizers, Oakworm (complex),	
	Oleander caterpillars, Olive ash borers,	
	Orangestriped oakworms, Periodical	
	cicadas, Pine loopers, Pine sawflies, Pine	
	spittlebugs, Pitch pine tip moths. Plant	
	bugs, Poinsettia hornworms, Psyllids,	
	Puss caterpillars, Redhumped oakworms,	
	Rose aphids, Rose chafers, Rose slugs,	
	Saddled prominents, Sawflies (exposed),	
	Scale insects (crawlers), Sowbugs,	
	Spiney elm caterpillars, Springtails,	
	Spruce budworms, Spruce needleminers,	
•	Subtropical pine tip moths, Tent	
	caterpillars, Thornbugs, Thrips (exposed),	• •
	Ticks, Walnut caterpillars, Webworms,	
	Western hemlock loopers, Western	
	spruce budworms, Willow leaf beetles,	
	Woolly gall aphids, Yellow-poplar weevils	

FORESTED AREAS AND RANGELAND TREES Continued

SPECIFIC DIRECTIONS; Observe plant response precautions. Obtain thorough coverage of upper and lower leaf surfaces. The addition of a sticker may improve residual control. To control scale insects, treat trunks, stems and twigs in addition to plant foliage. For optimum worm control, treat when pests are small. Do not use on syrup-producing sugar maples where sap is harvested. Applications for control of maple leafcutters on sugar maple should be made when larvae are in 2nd instar after 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.

Gypsy moths

3/4 to 1

SPECIFIC DIRECTIONS: For gypsy moth control, use the higher rate for heavy infestations.

Elm bark beetles, Ips engraver beetles, Mountain pine beetles, Roundheaded pine beetles, Spruce beetles, Western pine beetles 2% solution

(5 fl. ozs. per gal.)

SPECIFIC DIRECTIONS: Direct Trunk Treatment – Effective as a preventative treatment only. Repeat annually as required to prevent beetle attacks. Apply 1 gal. of spray per 50 sq. ft. of bark prior to beetle flight or host-tree attack. Treat tree trunk from ground level up, until trunk diameter is less than 5 inches. For elm bark beetles, apply approximately 20 to 30 gals. of spray mixture for each 50 ft. of elm tree for thorough coverage of all bark surfaces on trunks, limbs and twigs. Do not make more than 2 applications per year or repeat applications more often than once every 6 months.

RESTRICTIONS AND PRECAUTIONS: Do not make more than 2 applications per year. To prepare small volumes of spray mixture, use 1/3 fl. oz. (approx. 2 tsps.) of this product in an adequate amount of water and apply to 500 sq. ft. where rates of 1 qt. per acre are indicated. DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.

NOTE: All references to armyworms on the preceding list of plants refer to the species *Pseudaletia unipuncta*, often called the "true armyworm". Except where indicated otherwise, this product is not registered for control of other Armyworm species. Regional differences have been noted in the susceptibility of certain strains of fall armyworms to carbaryl. If local experience indicates inadequate control, use an alternative pesticide.

TREES AND ORNAMENTALS

Apply in sufficient volume for adequate coverage. This will vary depending on the plant or tree size, density and stage of growth. Do not use on Boston ivy, Virginia creeper and maidenhair fern. During early season, it may also injure Virginia and sand pines.

		Qts. of This
Crop/Site	Pest	Product Per Acre
Trees, Ornamentals: (Roses,	Ants, Apple aphids, Armyworms, Ash	
Flowers, Other Herbaceous plants),	whiteflies, Azalea leafminers, Bagworms,	1 qt.
Woody plants, Shrubs in	Birch leafminers, Blister beetles, Boxelder	-or-
commercial and residential areas	bugs, Boxwood leafminers, Browntail	1 fl. oz per
and in nursery production areas	moths, Cankerworms, Catalpa sphinx,	3 gals. of spray
	Chiggers, Cooley spruce gall adelgids,	-or-
	Cutworms, Cypress tip moths, Eastern	2 tsps. per
	spruce gall adelgids, Elm leaf aphids, Elm	gal. of spray
	leaf beetles, Eim spanworms, Eriophyid	
	mites, European pine shoot moths, Fall	
	armyworms, Flea beetles, Fuchia gall	
	mites, Fuller rose beetles, Gall midges,	
	Gall wasps, Greenstriped mapleworms,	
	Grasshoppers, Hackberry nipplegall	
	makers, Holly bud moths, Holly	
	leafminers, Jackpine budworms,	
	Japanese beetles, Jeffrey pine	
	needleminers, June beetles, Lace bugs,	
	Leafhoppers, Leafrollers, Locust borers,	
	Maple leafcutters, Mealybugs, Mimosa	
	webworms, Nantucket pine tip moths, Oak	
	leafminers, Oak moths, Oak	
	skeletonizers, Oakworm (complex),	
	Oleander caterpillars, Olive ash borers,	
	Orangestriped oakworms, Periodical	
	cicadas, Pine loopers, Pine sawflies, Pine	
	spittlebugs, Pitch pine tip moths, Plant	
	bugs, Poinsettia hornworms, Psyllids,	
	Puss caterpillars, Redhumped oakworms,	
	Rose aphids, Rose chafers, Rose slugs,	
	Saddled prominents, Sawflies (exposed),	
	Scale insects (crawlers), Sowbugs, Spiney	
	elm caterpillars, Springtails, Spruce	
	needleminers, Subtropical pine tip moths,	
	Tent caterpillars, Thornbugs, Thrips	
	(exposed), Ticks, Walnut caterpillars,	
•	Webworms, Western hemlock loopers,	
	Willow leaf beetles, Wooly gall aphids,	
	Yellow-poplar weevils	
	SPECIFIC DIRECTIONS: Observe plant res	ponse precautions. Obtain
	thorough coverage of upper and lower leaf s	
	sticker may improve residual control. To co	
	stems and twigs in addition to plant foliage.	
	treat when pests are small. Do not use on s	
	where sap is harvested. Applications for co	ntrol of maple leafcutters on
	sugar maple should be made when larvae a	re in 2 nd instar after mining and
	as cases are being formed. Repeat treatme	ents as necessary, up to a total
	of 2 times per year, but not more often than	
	2. 2 sines per year, sucher more enert man	

TREES AND ORNAMENTALS Continued

AND ORNAMENTALS Cont	inued		
	Balsam twig aphids, Cooley spruce gall	1 to 2 qts.	
	adelgids, Douglas-fir tussock moths,	-or-	
	Spruce budworms, Western spruce	2 to 4 tsps. per gal.	
	budworms	of spray	
	SPECIFIC DIRECTIONS: Use higher rate v	vhen large larvae or heavy	
	populations are present.		
	Gypsy moths	¾ to 1	
	SPECIFIC DIRECTIONS: For Gypsy moth	control, use the higher rate for	
	heavy infestations.	-	
	Elm bark beetles, lps engraver beetles,	2% solution	
	Mountain pine beetles, Roundheaded	(5 fl. ozs.	
	pine beetles, Spruce beetles, Western	per gal.)	
	pine beetles		
	SPECIFIC DIRECTIONS: Direct Trunk Treatment – Effective as a		
	preventative treatment only. Repeat annually as required to prevent beetle		
	attacks. Apply 1 gal. of spray per 50 sq. ft. of bark prior to beetle flight or		
	host tree attack. Treat tree trunk from ground level up, until trunk diameter		
	is less than 5 inches. For elm bark beetles, apply approximately 20 to 30		
	gals. of spray mixture for each 50 ft. of elm tree for thorough coverage of		
	all bark surfaces on trunks, limbs and twigs. Do not make more than 2		
	applications per year or repeat applications more often than once every 6		
	months.		

RESTRICTIONS AND PRECAUTIONS: Do not make more than 2 applications per year. To prepare small volumes of spray mixture, use 1/3 fl. oz. (approx. 2 tsps.) of this product in an adequate amount of water and apply to 500 sq. ft. where rates of 1 qt. per acre are indicated. DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED.

TURFGRASS

Apply the recommended rates using pressure-type equipment in sufficient spray volume for thorough coverage and thatch penetration.

Site	Pest	Qts. of This Product Per Acre	
Golf turf, Sports fields, Domestic and Commercial lawns, Cemeteries	Ants, Armyworms, Centipedes, Chiggers, Cutworms, Earwigs, Essex skippers, European chafers, Fall armyworms, Fiery skippers, Grasshoppers, Green June beetle larvae, Leafhoppers, Lucerne moths, Millipedes, Scarab beetle adults (May beetles, June beetles, Japanese beetles, Green June beetles), Sowbugs, Spittlebugs, Springtails, Ticks, Yellowstriped armyworms	2 to 4 (1½ to 3 fl. ozs. per 1,000 sq. ft.)	
	SPECIFIC DIRECTIONS: For armyworm, cutworm and fall armyworm control: Do not irrigate treated areas within 24 hours following insecticide application. For Green June beetle grub (larvae) control: Make applications when grubs are feeding near the soil surface. Water or irrigate turfgrass soon after treatment. Repeat applications as necessary, up to a total of 4 times a year, but not more often than once every 7 days.		
	Chinch bugs, Sod webworms (Lawn moths)	6 to 8 (4½ to 6 fl. ozs. per 1,000 sq. ft.)	
	SPECIFIC DIRECTIONS: For chinch bug control: Treat entire grass area rather than just damaged areas. Irrigation prior to treatment will aid in penetration of insecticide into turfgrass. Do not irrigate treated areas within 24 hours following insecticide application. Repeat applications as necessary, up to 2 times per year, but not more often that once every 7 days.		
	Bluegrass billbug larvae, European crane flies, Fleas, White grubs (such as Japanese beetles, Chafer beetles and <i>Phyllophaga</i> spp. larvae), Black turfgrass ataenius beetle larvae, Hyperodes weevil (Bluegrass weevil) larvae	8 (6 fl. ozs. per 1,000 sq. ft.)	
	SPECIFIC DIRECTIONS: For European crane fly control: Treatments should be applied early Spring (April 1 to April 15) or as recommended by local Agricultural Extension Serving agents. Water or irrigate turfgrass soon after treatment. For white grub control: Applicate should be made when grubs are feeding near the soil surface, usually during late March through May, or July through early September, or as recommended by local Agricultural Extension Service agents. Water or irrigate turfgrass soon after treatment. Repeat applications as necessary, up to 2 times per year, but not more often than once every 7 days.		
i	AND PRECAUTIONS: DO NOT ALLOW PUBLIC USE OR UNTIL SPRAYS HAVE DRIED.	OF TREATED AREAS DURING	

CONTROL OF SPECIFIC PESTS ACROSS MULTIPLE SITES GRASSHOPPERS

Crop	Pest	Qts. of This Product Per Acre
All crops on this	Grasshoppers	½ to 1½ *
label	SPECIFIC DIRECTIONS: Apply ½ to ¾ qt. p plants or sparse vegetation. Apply 1 to 1½ q applications to dense foliage or if extended revolumes are appropriate to assure adequate	ts. per acre for mature grasshoppers or esidual control is desired. Be certain spray
* Note: Refer to i	ndividual site listing elsewhere on this label for	use limitations and restrictions. Do not use
	listed for the site or exceed other use restriction	

CONTROL OF TICKS WHICH VECTOR LYME DISEASE

For control of juvenile and adult ticks which vector Lyme disease, apply the recommended amount in sufficient volume for thorough coverage.

Crop/Site	Pest	Qts. of This Product Per Acre	
All crops on this label, Pastures, Forested areas, Wasteland, Rights-of-Way, Hedgerows, Roadsides, Trees	Ixodes spp. (Deer ticks, Bear ticks, Black legged ticks), Amblyomma spp. (Lone star ticks)	1 to 2 * (2 to 4 tsps. per gal.)	
and Ornamentals, Turfgrass, Lawns and Recreational Turfgrasses (including Lawns and Perimeters, Golf courses, Sports fields, Cemeteries, Parks and Pastures), Shrubs, Wooded areas	Use higher spray volumes for dense grour Target applications for nymphal control in Control of adult ticks can be obtained with Do not use spot treatments. Treat entire a exposure to ticks may occur. Ticks may be	C DIRECTIONS: Use the higher rate for heavy tick infestations*. It spray volumes for dense ground cover or heavy leaf litter. It plications for nymphal control in late spring or early summer. It adult ticks can be obtained with late summer and fall applications are spot treatments. Treat entire area and perimeter areas where to ticks may occur. Ticks may be reintroduced from surrounding nost animals. Re-treat as necessary to maintain adequate control	

RESTRICTIONS AND PRECAUTIONS FOR CONTROL OF TICKS WHICH VECTOR LYME DISEASE:

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

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

IM	POF	PTFC	FIR	FΔ	NTS

Crop/Site	Pest	Qts. of This Product Per Volume of Water
Pastures, Rangelands,	Imported fire ants	¾ fl. oz. per gal.
Forested areas, Trees and Ornamentals, Turfgrass, Wasteland, Lawns, Cemeteries, Golf courses SPECIFIC DIRECTIONS: Apply a total of 2 gals. of the diluted so surface of each mound or at least 1 qt. per 6 inches of mound diabucket, can or other appropriate equipment. Thoroughly wet mosurrounding areas to a 4-ft. diameter (12 sq. ft.). Do not disturb a treatment. Pour solution from a height of about 3 ft. to give sufficient mound apex and flow into ant tunnels. For best results, apweather (65 to 80° F) or in early morning or late evening hours. First mound activity resumes after 7 days. Treat new mounds as the Pressurized sprays may disturb the ants and cause migration, regerence.		t. per 6 inches of mound diameter using a pment. Thoroughly wet mound and (12 sq. ft.). Do not disturb mound prior to a tof about 3 ft. to give sufficient force to unnels. For best results, apply in cool ing or late evening hours. Repeat application s. Treat new mounds as they appear.
Nursery stock, Vegetable	Imported fire ants	1½ qts. per 100 gals.
transplants*, Foliage plants, Bedding plants (Outdoor use only)	SPECIFIC DIRECTIONS: Avoid contact with foliage and treat only the growing media when using on bedding plants. Do not make more than one application either as a root dip or drench treatment (applied to the point of saturation).	

RESTRICTIONS AND PRECAUTIONS: DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL DRENCH HAS DRIED. DO NOT USE IN GREENHOUSES.

To prepare small amounts, use ¾ fl. oz. (approx. 1½ tbsps.) of this product per each gal. of mix where 1½ qts. per 100 gals. are indicated.

* Note: DO NOT USE ON ANY FOOD CROP NOT LISTED ON THIS LABEL.

Refer to specific crop section for additional restrictions and precautions.

NUISANCE PEST CONTROL

For use as a perimeter treatment to prevent infestations of buildings, apply the specified dosage in a band 6 to 10 feet wide around the outside perimeter of the structure.

Pest	Rate
Ants, Bees, Brown dog ticks, Centipedes, Cockroaches, Crickets, Darkling beetle (lesser mealworm or litter beetle), Earwigs, Firebrats, Fleas, Millipedes, Scorpions, Silverfish, Spiders, Wasps	1% solution or 2½ fl. ozs. per gal. of water

SPECIFIC DIRECTIONS: Observe plant response precautions. Apply as a coarse wet spray in a band 6 to 10 feet wide around the outside perimeter of buildings. Confine applications to areas immediately adjacent to the building. Direct application to the structure should be minimal and restricted to cracks, crevices, and areas where insects tend to congregate. For use in and around flowerbeds and ornamental plantings, apply as a coarse wet spray in and around plant beds. May be applied to outdoor sleeping quarters of pets. Do not treat animals. Do not allow animals to use treated area until sprays have dried.

RESTRICTIONS AND PRECAUTIONS: NUISANCE PEST CONTROL

DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRIED. Do not use in commercial food areas of food handling establishments, restaurants, or other places where food is prepared or processed.

Note: Staining may occur on certain surfaces such as stucco, brick, cinder block, wood, fabrics, and carpet. Spray deposits on painted or stained surfaces of finishes (e.g. cars, house trailers, boats, etc.) should be removed immediately by washing to prevent discoloration. Avoid application to surfaces where visible spray residues are objectionable. Staining of fabrics and carpet may be permanent.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from any heat or ignition source. Avoid storage at high temperatures. Do not stack over 2 pallets high. Move containers by handles or cases. Do not move containers from one area to another unless they are securely sealed. Keep container lightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Avoid contamination with acids and alkalis. Store in original containers only. If the contents are leaking or material is spilled, follow these steps:

- 1. Contain spill, absorb with a material such as sawdust, clay granules, or dirt.
- 2. Collect and place in suitable containers for disposal.
- 3. Wash area with soap and water to remove remaining pesticide.
- 4. Following washing with clean water rinse.
- 5. Place a leaking container in a plastic tub and transfer the contents as soon as possible to an empty original container.
- 6. Do not allow runoff to enter sewer or contaminate water supplies.
- 7. Dispose of wastes as indicated below:

PESTICIDE DISPOSAL: Pesticide wastes are hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

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

WARRANTY - CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of applications, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumers all risks of use, storage and handling of this material not in strict accordance with directions given herewith. In no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is condition of sale by the Seller and is accepted as such by the Buyer.