19713 -49



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

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JUN .

06/08/2000

Luz G. Piwonka Drexel Chemical Company P.O. Box 13327 Memphis, TN 38113-0327

Subject: Drexel Carbaryl 4L EPA Registration No. 19713-49 Resubmission dated April 19, 2000 in response to EPA Letter dated 2 March 2000. Revised Label

Dear Ms. Piwonka:

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

1. On page 5 for the crop "Okra" you must include the "Restrictions and Precautions" statement that includes the PHI of 3 days.

2. On page 5 for the crop "Prickly Pear Cactus" you must correct the PHI to be 3 days.

3. On page 11 for Indoors treatment of Cockroaches change the word "roach" to "cockroach" after "American, Australian, Brown, and Smoky brown" so that it reads "American cockroach, Australian cockroach, Brown cockroach, Smoky-brown cockroach and others." Please specify if you desired the label to contain the Brown cockroach (<u>Periplaneta</u> <u>brunnea</u>) or the Brownbanded cockroach (Supella longipalpa) to be- on this label.

Submit two copies of your final printed labeling before you release the product for shipment. A copy of the labeling stamped "Accepted with Comments" is enclosed for your records.

Sincerely,

George Compto

George Tompkins, Ph.D., Entomologist Insecticide-Rodenticide Branch Registration Division (7505C)

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ACCEPTED with COMMENTS In EPA Letter Dated:

JUN 8 2000

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. [9713-49]



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Carbary 4L For Agricultural or Commercial Use Only

ACTIVE INGREDIENT: Carbaryi (1-naphthyi N-methylcarbamate) 43.4%

 OTHER INGREDIENTS:
 56.6%

 TOTAL:
 *00.0%

 This product contains 4 pounds of Carbaryl per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See FIRST AID Below SHAKE WELL BEFORE USING

EPA Reg. No. 19713-49 EPA Est. No. 19713-GA-1

Net Contents: ____

FIRST AID

Carbaryl is an N-methylcarbamate insecticide.

IF SWALLOWED: Never give anything by mouth to an inconscious or convulsing person. If conscious and not conrulsing, drink 1 to 2 glasses of water and induce vomiting by touching back of throat with finger. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Get medica attention if irritation persists.

IF ON SKIN: Wash thoroughly with soap and water.

IF INHALED: Move from contaminated atmosphere and call a physician.

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

ANTIDOTE STATEMENT: Atropine sulfate is highly effective as an antidote. Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended. See "NOTE TO PHYSICIAN".

NOTE TO PHYSICIAN: Treat symptomatically. Overexposure to materials other than this product may have occurred.

Carbaryl is an N-methylcarbamate insecticide, which is a cholinesterase inhibitor. Overexposure to this substance may cause toxic signs and symptoms due to stimulation of the choinergic nervous system. These effects of overexposure are spantaneously and rapidly reversible. 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 over atropinization. Improve tissue oxygenation as much as possible before administering atropine to minimize the risk of ventricular fibrillation. Mild cases may be given 1 to 2 mg intramuscularly every 10 minutes until full atropinization has been achieved and repeated thereafter whenever symptoms reappear. Severe cases should be given 2 to 4 mg intramuscularly every 30 to 60 minutes as meeded to maintain the effect for at least 12 hours. Dosages for children should be appropriately reduced. Complete recovery from overexposure is to be expected within 24 hours.

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 a 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 skin, inhaled or if in eyes. Avoid breathing vapors or 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, UNCONSCIOUS-NESS 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, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) 4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing immediately if pesticide gets inside. 3) Wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic and estuarine invertebrates. For terrestrial uses, do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Discharge from Rice fields may kill aquatic and estuarine invertebrates. Do not 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. This product is less hazardous to Honeybees when direct application is avoided and the spray residues have dried. For maximum Honeybee hazard reduction, apply from late evening to early morning or when bees are not foraging. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging in the treatment area. However, applications may be made during foraging periods if the beekeeper takes one of the following precautionary measures prior to bee flight activity on the day of treatment: (1) Confine the Honeybees to the hives by covering the colony or screening the entrance; (2) locate hives beyond bee flight range from the treated area. Precautionary measures may be discontinued after spray residues have dried. Contact your Cooperative Agricultural Extension Service for further information.

> Manufactured By. Drexel Chemical Company P 0 BOX 13327, MEMPHIS, TN 38113-0327 SINCE 1972

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 or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the WPS, 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) and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, chemicalresistant 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.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the WPS 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

CARBARYL 4L 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 air or ground.

Plant Response Precautions: Application to wet foliage or during periods of high humidity may cause injury to tender foliage.

Do not use on Boston ivy, Virginia creeper and Maidenhair fern as injury may result. Carbaryl may also injure Virginia and Sand pines. The use of adjuvants may increase the potential for crop injury to sensitive crops.

PRE-HARVEST AND GRAZING RESTRICTIONS AND LIMITATIONS

Tolerances established under the Federal Food, Drug and Cosmetic Act permit the sale of labeled crops bearing probable carbaryl residues when this product is used in accordance with the label directions. If used as directed, treated forage may be grazed or used as feed for dairy and meat animals without causing illegal residues in meat or milk. Do not apply at greater rates or at more frequent intervals than stated on the label. To do so may result in illegal residues in crops, meat and milk. Do not use reclaimed irrigation water for 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 carbary labels in carbaryl treated soit.

APPLICATION STATEMENTS

Calibrate and adjust application equipment to insure proper rale 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 polato 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 RECIR-CULATE 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 k to 4 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 "COMPATIBILITY STATEMENT" below.

COMPATIBILITY STATEMENT

This product, 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 with another product and the resulting crop response is unknown, the mixture should be 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 THIS PRODUCT 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 OR PLANT INJURY.

Carbaryl is unstable under highly alkaline conditions and mixture with strong bases, such as Bordeaux, lime-sulfur and casein-lime spreaders, will result in chemical degradation of the insecticide. Do not use this product in water with pH values above 6.0 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 volume. The flow rate of this product diluted 1:1 with water is similar to 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 % 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.

Aeriat Application: For adequate distribution, use at least 10 gallons of spray mixture per acre for application for tree and orchard crops or at least 2 gallons of spray mixture per acre for application to other crops. Sprinkler Irrigation Systems: Apply this product only through sprinkler irrigation systems including center pivot and solid set. Do not apply this product through any other type of irrigation system.

Spray Freparation: 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 insure adequate mixing. If you should have any other questions about calibration, you should contact 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 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 public water system unless the label-prescribed safety devices for public water supplies are in place. SPECIFIC USE DIRECTIONS

Crop/Site Groupings: Asparagus, Brassica leafy vegetable crops, Cereal grain crops (Field and Popcorn, Grain sorghum, Rice, Sweet corn, Wheat and Proso millet); Cucurbit vegetables, Flax, Forage crops (Alfalfa, Birdsfoot trefoil, Clovers, Pasture and Grasses grown for seed, Rangeland), Fruiting vegetables, Leafy vegetables, Legume vegetables, Non-cropland (Conservation Reserve Program—Ditchbanks, Hedgerows, Right-of-ways, Roadsides, Wasteland), Peanuls, Prickly pear cactus, Root and Tuber crops, Sugar beets, Sweet potatoes, small Fruits and Berries, Sunflower, Tobacco, Tree fruit crops (Citrus fruits, Olives, Pome fruits, Stone fruits), Tree nut crops (Pistachios, Tree nuts), Forested areas and Rangeland trees, Trees and Ornamentals, Turfgrass, control of specific pests across multiple sites (adult Mosquito control, Grasshoppers, Imported fire ants, Ticks which vector lyme disease), Poultry insect control and pest control in and around buildings.

INSECT CONTROL

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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 coverage is essential for effective control.

ASPARAGUS

Crop	Pest	Qts. of This Product Per Acre
Asparagus	Apache cicadas, Asparagus beetles, Culworms	1 to 2
	SPECIFIC DIRECTIONS: For Cutworm control, this product is most effective against species which feed on the upper portions of the plant. Repeat application as necessary up to a total of 3 times prior to harvest, but not more often than every 3 days.	
	Apache cicadas, Asparagus beetles, Cutworms	2 to 4
	SPECIFIC DIRECTIONS: Apply to ferms or brush growth following harvest of spears. Repeat applica- tions as necessary but not more often than every 7 days. Do not make more than a total of 5 applica- tions per year to spears and ferms combined.	
harvest. Do not ap	AND PRECAUTIONS: Do not apply of ply more than a total of 6 qts. per acre ply more than a total of 10 qts. per acr	before harvest of

BRASSICA LEAFY VEGETABLES CROPS

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

Сгор	Pest	Qts. of This Product Per Acre
Broccoli, Brussels sprouts, Cauliflower,	Flea beetles, Harlequin bugs, Leafhoppers)∕₂ to 1
Cabbage, Chinese cabbage, Collards, Kale, Kohirabi, Mustard greens	Armyworms, Aster leafhoppers, Corn earworms, Diarnondback moths, Fall armyworms, Imported cabbageworms, Lygus bugs, Spittlebugs, Stink bugs, Tarnished plant bugs	1 lo 2

RESTRICTIONS AND PRECAUTIONS: For Broccoli, Brussels sprouts, Cabbage, Cauliflower and Kohlrabi, do not apply within 3 days of harvest. For Chinese cabbage, Collards, 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.

Стор	Pest	Qts. of This Product Per Acre
Field com, Popcom	Armyworms, Chinch bugs, Com earworms, Com rootworm adults, Fall armyworms, Flea beetles, Japanese beetles, Sap beetles, Southwestern com bogers, Leafhoppers	1 to 2
	SPECIFIC DIRECTIONS: For optim control, use ground equipment to a gals. of water per acre and direct s provide thorough coverage.	pply at least 20
	European com borers	11/2 to 2
	SPECIFIC DIRECTIONS: For optimum European com borer control, do not apply in less than 3 gals, of water per acre by air and 15 gals, of water by ground.	
	Cutworms, Western bean cutworms	- 2
	SPECIFIC DIRECTIONS: For optimum Culworm control, apply in a 12 inch band over the row, using sufficient volume of water to obtain thorough cover- age. For broadcast application, use at least 20 gals. by ground or 5 gals, by air per acre. For Cutworm control, this product is most effective against species which feed on the upper portions of the plant. For Western bean cutvorms, treat when infestation averages 15% and at 90 to 100% tasset emergence. Treatment after 100% silk emergence will reduce effectiveness.	

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 forage or silage.

GRAIN SORGHUM

Repeat applications as necessary up to a total of 4 times, but not more often than once every 7 days. Direct spray into forming heads for optimum control of insects attacking heads.

Crop	Pest	Qts. of This Product Per Acre
Grain sorghum	Armyworms, Chinch bugs, Com earworms, Fall armyworms, Stink bugs, Webworms	1 to 2
	SPECIFIC DIRECTIONS: For optimum Chinch bug control, use high gallonage ground application at the base of the plants.	
	Southwestern com borers	11/2
	Cutworms	2
	SPECIFIC DIRECTIONS: For Cutworm control, this product is most effective against species which feed on the upper portions of the plant.	
harvest for grain o	AND PRECAUTIONS: Do not apply v r fodder or within 14 days of harvest or ly more than a total of 6 gts. per acre p	grazing of forage or

RICE

Сгор	Pest	Qts. of This Product Per Acre
Rice	Armyworms, Chinch bugs, Fall armyworms, Leafhoppers, Stink bugs	1 to 1½
	SPECIFIC DIRECTIONS: Up to 2 crop may be made, but not more 7 days.	
	Tadpole shrimp (CA Only)	1½
	SPECIFIC DIRECTIONS: For optimum Tadpole shrimp control, apply to water when pests first appear.	
RESTRICTIONS	AND PRECAUTIONS: Do not apply v	within 14 days of

harvest for grain or straw. Do not apply more than a total of 4 qts. per acre per crop. May kill shrimp, crabs and crayfish. Do not apply propanil herbicides within 15 days before or after application of this product or plant injury may result.

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 retreatment 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 com	Armyworms, Chinch bugs, Com earworms, Corn rootworm adults, Fall armyworms, Flea beetles, Japanese beetles, Sap beetles, Southwestern corn borers, Leafhoppers	1 to 2
	SPECIFIC DIRECTIONS: For opti- control, use ground equipment to a gals. of water per acre and direct provide thorough coverage.	pply at least 20
	European com borers	1½ to 2
	SPECIFIC DIRECTIONS: For optimum Europear borer control, do not apply in less than 3 gals, of per acre by air and 15 gals, of water by ground.	
	Cutworms, Western bean cutworms	2
	SPECIFIC DIRECTIONS: For optimum C control, apply in a 12 inch band, over the sufficient volume of water to obtain thoror For broadcast application, use at least 2 ground or 5 gals, by air per acre. For Cutworm control, this product is mos against species which feed on the upper the plant. For Western bean cutworms, treat when averages 15% and at 90 to 100% tassel Treatment after 100% silk emergence wi effectiveness.	
harvest of ears, w	AND PRECAUTIONS: Do not apply w ithin 14 days of harvest or grazing of fo fodder. Do not apply more than a total	rage or within 48

WHEAT AND PROSO MILLET

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

Сгор	Pest	Qts. of This Product Per Acre
Wheat, Proso millet	Flea beetles	½ to 1
(DO NOT	Cereal leaf beetles	1
USE N CA)	SPECIFIC DIRECTIONS: Application is effective against eggs, larvae and adults of the Cereal leaf beetles.	
	Armyworms, Fall armyworms	1 to 11/2
	SPECIFIC DIRECTIONS: Application for Armyworm control should be made when Armyworms are actively feeding on the upper foliage and night temperatures are not expected to drop below 55°F. If applied by air to lush growth, use a minimum spray volume of 5 gals, per lacre to optimize coverage.	

harvest for grain or straw or within 7 days of harvest or grazing for forage. Do not apply more than a total of 3 qts. per acre per crop.

CUCURBIT VEGETABLES

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

Сгор	Pest	Qts. of This Product Per Acre
Cucumbers, Melons, Pumpkins, Squash	Melonworms, Pickleworms	1/2 to 1
	Cucumber beetles, Flea beetles, Leafhoppers, Squash bugs	1
•	SPECIFIC DIRECTIONS: For opti- Squash bugs, apply sufficient spra- rough coverage and time sprays for late afternoon.	y volume for tho-
	ND PRECAUTIONS: Do not apply the y more than a total of 6 qts. per acre autions.	

FLAX

per crop.

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

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Сгор	Pest	Qts. of This Product Per Acre
Flax (DO NOT USE IN CA)	Armyworms	1 to 1½
	AND PRECAUTIONS: Do not or Straw. Do not apply more than	

FORAGE CROPS

On dense growth, use 25 to 40 gallons of water per acre with ground equipment to ensure adequate coverage.

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Crop	Pest	Qts. of This Product Per Acre
Alfalfa, Birdsfoot trefoil, Clovers	Blister beetles, Mexican bean beetles	1/2 to 1
	Alfalfa caterpillars, Bean leaf beetles, Cucumber beetles, Green cloverworms, Japanese beetles, Leafhoppers, Potato leafhoppers, Threecornered alfalfa hoppers, Thrips, Velvetbean caterpillars	1
	Alfalfa blotch leafminers, Army- worms, Cloverhead weevils, Corn earworms, Cutworms, Egyptan alfalfa weevil larvae, Essex skip- pers, European alfalfa beetles, Fall armyworms, Lygus bugs, Stink bugs, Webworms, Yellowstriped armyworms	1 to 1½
	SPECIFIC DIRECTIONS: For Cutw product is most effective against sp the upper portions of the plant.	
	Alfalfa weevil larvae (West of the Rocky Mountains)	1 to 1½
	SPECIFIC DIRECTIONS: For Atfalfa pre-treatment damage is extensive, the stubble. This product is not effer Alfalfa weevis.	cut Alfalfa and treat
	Alfalfa weevil larvae (East of the Rocky Mountains)	11/2
	SPECIFIC DIRECTIONS: For Alfalfa pre-treatment damage is extensive, the stubble. This product is not effer Alfalfa weevils.	cut Alfalfa and treat
plant response pre	AND PRECAUTIONS: Observe Bee cautions. Do not apply more than once of harvest or grazing. Do not exceed	per cutting. Do not

PASTURE AND GRASSES GROWN FOR SEED

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

cutting. Carbaryl may cause a temporary bleaching of tender Alfalfa foliage.

Pest 🐣	Qts. of This Product Per Acre
Armyworms, Chinch bugs, Essex skippers, Fall armyworms, Striped grass loopers, Thrips, Range caterpillars, Range crane files, Ticks	1 to 1½
SPECIFIC DIRECTIONS: To control Thrips in grasses grown for seed, use high spray pressure to improve penetration into the boot. Carefully mark swaths to avoid over-application.	
	Armyworms, Chinch bugs, Essex skippers, Fall armyworms, Striped grass loopers, Thrips, Range caterpilars, Range crane flies, Ticks SPECIFIC DIRECTIONS: To contro grown for seed, use high spray pre penetration into the boot. Carefully

RANGELAND

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

Сгор	Pest	Qts. of This Product Per Acre
Rangeland	Black grass bugs, Grasshop- pers, Mormon crickets, Range caterpillars, Range crane files	1⁄2 to 1
	Ticks	1
	AND PRECAUTIONS: May be harve ment. Do not apply more than 1 qt. pe	

FRUITING VEGETABLES

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

Crop	Pest	Qts. of This Product Per Acre
Eggplani, Peppers, Tomatoes	Colorado potato beetles, Euro- pean com borers, Fall army- worms, Lace bugs, Stink bugs (suppression), Tarnished plant bugs, Thrips (suppression), Tomato fruitworms, Tomato hornworms, Tomato pinworms	1 to 2
	SPECIFIC DIRECTIONS: Thoroug essential to effectively suppress St	
	Flea beetles, Leafhoppers	1/2 to 1
	Cutworms	2
	SPECIFIC DIRECTIONS: For Cutv product is most effective against s on the upper portions of the plant.	
	D PRECAUTIONS: Do not apply v more than a total of 8 qts. per crop.	
Okra	Com earworms, Stink bugs	1 to 2
	SPECIFIC DIRECTIONS: Treat on schedule.	a 5 to 7 day

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LEAFY VEGETABLES

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

Стор	Pest	Qts. of This Product Per Acre
Celery, Dandelion, Endive, Lettuce	Flea beetles, Harlequin bugs, Leafhoppers	1/2 to 1
(Head and Leaf), Parsley, Spinach, Swiss chard	Armyworms, Aster leafhoppers, Corn earworms, Fall armyworms, Imported cabbageworms, Lygus bugs, Spittlebugs, Stink bugs, Tamished plant bugs	1 to 2

harvest. Do not apply more than a total 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.

Сгор	Pest	Qts. of This Product Per Acre
Cowpeas, Fresh and Dried beans (<i>Phaseolus</i> species including Kidney, Navy and	Bean leaf beetles, Bister beetles, Cucumber beetles, Grape colaspis, Green cloverworms, Japanese beetles, Mexican bean beetles, Velvetbean caterpilars	½ to 1
Snap), Fresh and Dried peas	Com earworms	1/2 to 11/2
(Pisum species), Lentils, Southern peas, Soybeans (DO NOT USE ON LENTILS IN CA)	Alfalfa caterpillars, Colorado potato beetles, Flea beetles, Leafhoppers, Threecornered alfalfa hoppers, Thrips, Western bean cutworms	1
	Armyworms, Cutworms, European com borers, Fall armyworms, Stink bugs, Tarnished plant bugs, Webworms	1 to 1½
	SPECIFIC DIRECTIONS: For Cutwo product is most effective against spe the upper portions of the plant.	
	Atfatfa loopers (suppression), Cowpea curculios (suppression), Painted ladies (Thistle caterpillars), Pea leaf weevits, Pea weevits, Saltmarsh caterpillars, Woollybear caterpillars, Yellowstriped armyworms	11/2

LEGUME VEGETABLES

Crop	Pest	Qts. of This
Crop (Continued) Cowpeas, Fresh and Dried beans (Phaseolus species including Kidney, Nawy and Snap), Fresh and Dried peas (Pisum species), Lentils, Southem peas, Soybeans	Pest CA ONLY: Corn earworms (sup- pression), Limabean podborers (suppression), Lygus bugs (suppression), Stink bugs (suppression)	11/2
(DO NOT USE ON LENTILS IN CA)		
grazing or harvest fo peas or within 21 da not apply more than combination of this p	ND PRECAUTIONS: Do not apply v or forage or within 3 days of harvest of tys of harvest of Dried beans or peas a total of 6 qts. per acre per crop. Do product and 2,4-D8 herbicides to Soy serve plant response precautions.	Fresh beans or , seed or hay. Do) not apply a

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 over-application.

lack grass bugs	1/4 to 1/2
	/4 00 //2
lormon crickets, Range aterpillars, Range crane flies	1/2 to 1
icks	1 to 1½
i	terpi llars , Range crane flies

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 beetles	½ to 1
	Alfalfa caterpillars, Bean leaf beetles, Cucumber beetles, Green cloverworms, Japanese beetles, Leafhoppers, Red- necked pearutworms, Three- cornered alfalfa hoppers, Thrips, Velvetbean caterpillars SPECIFIC DIRECTIONS: For optin Thrips, use directed of banded spi cone spray nozzles. Ensure adequi underside of leaves.	rays with hollow
	Armyworms, Com earworms, Fall armyworms, Stink bugs, Webworms	1 to 1½
	Whitefringed beetle adults, Cutworms	2
	SPECIFIC DIRECTIONS: For Cutw product is most effective against s on the upper portions of the plant.	
	AND PRECAUTIONS: Observe plant oply within 14 days of harvest. Do not ap acre per crop.	

PRICKLY PEAR CACTUS

Site	Pest	Qts. of This Product Per Acre
Prickly pear cactus	Cochineal scales (crawlers)	2
	SPECIFIC DIRECTIONS: Apply as needed at 7 to 10 day intervals.	
	D PRECAUTIONS: Do not apply	within 1 day of

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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.

Pest	Qts. of This Product Per Acre
Flea beetles, Leafhoppers	1/2 to 1
Armyworms, Aster leafhoppers, Colorado potato beetles, Com earworms, Cutworms, European com borers, Fall armyworms, Lace bugs, Lygus bugs, Spittlebugs, Stirk bugs, Tarnished plant bugs	1 to 2
SPECFIC DRECTIONS: For Cutworm control, this product is most effective against species which feed on the upper portions of the plant.	
	Flea beetles, Leafhoppers Armyworms, Aster leafhoppers, Colorado potato beetles, Com earworms, Cutworms, European com borers, Fall armyworms, Lace bugs, Lygus bugs, Spittlebugs, Stink bugs, Tarnished plant bugs SPECIFIC DRECTIONS: For Cutwo product is most effective against sp

SUGAR BEETS

Repeat applications as necessary up to a total of 2 times, but not more often than once every 14 days.

Pest	Qts. of This Product Per Acre
Armyworms, Beet leaf beetles, Fall armyworms, Flea beetles, Leafhoppers, Webworms	1 to 11/2
Cutworms	11/2
SPECIFIC DRECTONS: For Cutworm control, this product is most effective against species which feed on the upper portions of the plant.	
	Armyworms, Beet leaf beetles, Fail armyworms, Flea beetles, Leafhoppers, Webworms Cutworms SPECIFIC DIRECTIONS: For Cu product is most effective against

harvest for roots or forage. Do not apply more than a total of 3 qts, per acre per crop.

SWEET POTATOES

Crop	Pest	Qts. of This Product Per Acre
Sweet potatoes	Com earworms, Cucumber beetles, Flea beetles, Sweet potato hornworms, Sweet potato weevils, Tortoise beetles, Whitefringed beetles	1 to 2
	Yellowstriped armyworms	2
<i>.</i>	SPECIFIC DIRECTIONS: Pre-plar Sweet potato weevis: Just prior to potato cuttings in a suspension co this product in 100 gals. of water (of water). For foliar sprays, repeat application to a total of 8 times, but not more every 7 days.	planting, dip Sweet ntaining 2 gals, of 21% fl. ozs. per gal. Ins as necessary up

harvest. Do not apply more than a total of 8 qts. per acre per crop with inseason sprays. Do not apply more than a total of 1% qts. per acre as a preplant dip treatment.

SMALL FRUITS AND BERRIES

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

Сгор	Pest	Qts. of This Product Per Acre
Blueberries, Caneberries, Cranberries, Grapes, Strawberries	European fruit lecaniums, Euro- pean raspberry aphids, Flea beetles, Grape leaffolders, Grape leafroliers, Japanese beetles, Leafhoppers, Leafroliers, Meadow spittlebugs, Omnivorous leaftiers, Rose chafers, Snowy tree crickets, Strawberry bud weevils, Strawberry clippers, Strawberry fruitworms, Strawberry leafroliers, Strawberry weevils, Western grapeleaf skele- tonizers, Western yellowstriped armyworms	1 to 2
	SPECIFIC DIRECTIONS: In Grapes control, apply before the first brood to rolls.	
(Continued)	Blueberry maggots, Cherry fruit- worms, Cranberry fireworms, Cranberry fuilworms, Cranberry wig girdlers, Elm sparworms, Gypsy moths, Spargancthis fruitworms, Tarnished plant bugs	1½ to 2

SMALL FRUITS AND BERRIES

Note: Use in Cranberries may kill shrimp and crabs. Do not use in areas where these are important resources. Carbaryl may injure Early dawn and Sunrise varieties of Strawberries.

SUNFLOWERS

Up to 2 applications may be made, but not more often than once every 7 days.

Сгор	Pest	Qts. of This Product Per Acre
Sunflowers	Stem weevils, Sunflower beetles	1 to 11/2
(DO NOT USE	Armyworms, Cutworms, Fall armyworms, Sunflower moths	11/2
IN CA)	SPECIFIC DIRECTIONS: For Cutworm control, this product is most effective against species which feed on the upper portions of the plant.	

grazing or harvest for forage or within 60 days of harvest for seed. Do not apply more than a total of 3 gts. per acre per crop.

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, Horrworms, Japanese beetles, June beetles, Suckflies, Tobacco flea beetles	1 to 2
RESTRICTIONS	AND PRECAUTIONS: Tobacco may	be harvested on the

day of treatment. Do not apply more than a total of 8 qts. per acre 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.

Сгор	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
	SPECIFIC DIRECTIONS: Repeat applications as necessary up to a total of 8 times, but not more often than once every 14 days.	
	Citrus rust mites, Eriophyld mites, Plant bugs, Scale insects (Black scales, Brown soft scales, Cali- fornia red scales (except in CA). Citrus snow scales, Yellow scales (except in CA))	3 to 5
	SPECFIC DIRECTIONS: For Scale control, apply when crawlers are present. For best control of Eriophyid mites, including Citrus rust mites, apply when pest populations are low.	
	Apopka weevils (adult), Citrus root	5 to 71/2
	weevils (adults), Fuller rose beetles, Little leaf notchers (adult)	510772
	weevils (adults), Fuller rose	5 to 16

OLIVES

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

Сгор	Pest	Qts. of This Product Per Acre
Olives	Scale insects (Black scales, Olive scales)	5 to 7½
	AND PRECAUTIONS: Do not appli oply more than a total of 15 qts, per a	

POME FRUITS

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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.

Сгор	Pest	Qts. of This Product Per Acre
Apples,	White apple leafhoppers	1/2 to 11/2
Crabapples, Pears, Loguats,	Apple aphids, Codling moths	1 to 3
Oriental pears	Apple aphids, Apple maggots, Apple mealybugs, Apple rust mites, Bagworms, California pearslugs (Pear sawflies) Euro- pean apple sawflies, Eyespotted bud moths, Fruitree leafrollers, Gypsy moths, Japanese beetles, Lesser appleworms, Lygus bugs, Orange tortrix, Pearleaf bister mites, Pear psylas, Pear rust mites, Periodical cicadas, Plum curculios, Redbanded leafrollers, Rosy apple aphids, Scale insects (Forbes scales, Lecanium scales, San Jose scales), Tamished plant bugs, Tentiform leafrollers, Woolly apple aphids, Yellow- headed fireworms	1½ to 3
	SPECIFIC DIRECTIONS: On Apples, avoid use during the period from full bloom until 30 days after full bloom unless fruit thinning is desired. Use for pest control during this period also may result in fruit removal. For Psylla control, apply when eggs hatch or young nymphs are present. For Scale control, apply when crawlers an present.	

POME FRUITS (Continued)

Apples Only	
	1 to 3
for fruit thinning SPECIFIC DIRECTIONS: Observe Be between 80% petal fall and 16 mm fru- higher rates on hard to thin varieties a which is the 80% petal fall to 6 mm fru- lower rates on easy to thin varieties and thinning period which is the 10 to 16 r rate to use per acre will depend on wa row spacing, weather conditions at the following applications. Consult with 1 thinning experts in your area for th use under your conditions. The oping galonage will depend on the size, plane spacing and amount of foliage. Use si volume to insure adequate coverage 1 per acre). Avoid spray to the point of 1 spray coverage to the lower portion since overthinning may occur herri- Factors such as climatic temperature, frost, tree age, variety, nutrition, previd and bloom may influence fruit thinning product. Exercise caution to avoid poer For the mose effective results, apply 1 conditions and when daytime tempera 70 to bw 80's for the following 1 to 3 with daytime temperatures in excess of in overthinning. This product may be mixed with other however, use caution to avoid overthin adverse effects. Consult with local fruit in your area for recommendations. Re product labels for specific use direction Consult with local fruit thinning ex- area for advice on the proper use on your varieties under your grow PRECAUTIONS: The use of this prod fruit deformity under certain environm Before using this product, particularly tween 80% petal fall and 6 mm fruit s are more sensitive to this phenomenon the varieties Bisbee, Red chief and V susceptible to conditions causing fruit Precipitation and temperatures below the possibility of fruit deformity. The us spray ois and wetting agents may inc	ee Caution. Apply at size. Use the at the early timing at size. Use the at the early timing at size. Use the mod at the later mm fruit size. The an efficies, tree size, a time of and the local fruit he proper rate to timum spray nting density, row ufficient spray (100 to 400 gals. runoff. Reduce on of the tree e. high humidity, bus crop, pruning results with the ssible overthinning. under good drying atures ("F) will be days. Application of 80"F may result of 80"F may result fruit thinners, noning and other it thinning sperts effect to the other ons. uct may result in ental conditions. When using be- tize. Red delicious on and in particular, /allee spur are very t deformity.

RESTRICTIONS AND PRECAUTIONS: Do not apply to Quince. Do not use on Pears between the tight flower cluster up to the 20 mm fruit size. Use during this period may result in undesirable fruit thinning and/or deformed fruit. 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.

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.

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CARBARYL 4L Page 7 of 12 --- PENDING

STONE FRUITS

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Repeat applications as necessary up to a total of 3 times per crop but not more often than once every 7 days. An additional application at the dormant or delayed dormant timing may be made.

Сгор	Pest	Qts. of This Product Per Acre
Apricots, Cherries, Vectarines, Peaches, Plums, Prunes	Apple pandemis, Black cherry aphids, Cherry fruitworms, Cherry maggots (Cherry fruit flies), Codling moths, Cucumber beetles, Eastern tent caterpilars, 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 twig borers, Periodical cicadas, Plum curculios, Prune leafnoppers, Redbanded leafrollers, Rose chafers, Scale hsects (Brown soft scales, Forbes scales, Lecanium scales, Olive scales, Oystershell scales, San Jose scales), Tarrished plant bugs, Tussock moths, Variegated leafrollers	2 to 3
	SPECIFIC DIRECTIONS: Observe E applications as necessary up to a lo crop, but not more often than once e additional application at the dormani timing may be made. For optimum S when crawlers are present. For Less borers, best results have been found spraying limbs and tree trunks at we moth flight. CA ONLY: Black cherry aphids, Cherry fruit flies), Codling moths, Cucumber beetles, Eyespotted bud moths, European earwigs, Fruittree leafrollers, Green fruitworms, Mealy plum aphids, Orange tortrix, Oriental fruit moths, Peach twig borers, Scale insects (Brown soft scales, Forbes scales, Lecanium scales, San Jose scales), I	tal of 3 times per very 7 days. An t or delayed dormant Scale control, apply ser peachtree I by thoroughty
	Tamished plant bugs, Tussock moths SPECIFIC DIRECTIONS: Observe E applications as necessary up to a to crop but not more often than once er additional application at the dorman timing may be made. For optimum S when crawlers are present. Peach twig borers, Scale insects (Brown soft scales, Forbes scales, Lecanium scales, Olive scales, Oystershell scales, San Jose	tal of 3 times per very 14 days. An t or delayed dormant
	scales) SPECIFIC DIRECTIONS: For dorma dormant timing, apply in combination mended dormant oil. Refer to the do label for additional use directions ar	with a recom- mant oil product

harvest, except in CA. In CA, do not apply within 1 day of harvest. Do not apply more than a total of 14 qts. per acre per crop. Do not apply more than a total of 5 qts. per acre at the dormant or delayed dormant timing. Do not apply more than a total of 9 qts. per acre during the production season.

TREE NUT CROPS

On all tree nut crops, apply in sufficient volume for adequate coverage. This will vary depending on the pest and its severity, the tree condition, size and density and other factors.

Сгор	Pest	Qts. of This Product Per Acre
Pistachios	Brown soft scales, Lecanium scales, Navel orangeworms	3 to 5
	SPECIFIC DIRECTIONS: Repeat an necessary up to a total of 4 times pe any applications at the formant or d timing), but not more often than once Scale control, apply when crawlers a	elayed dormant elayed dormant elevery 7 days. For
	Scale insects	4 to 5
	SPECIFIC DIRECTIONS: For dorma domant timing, apply in combination mended dormant oil. Refer to the do label for additional use directions an	n with a recom- rmant oil product d restrictions.
harvest. Do not apj	ND PRECAUTIONS: Do not apply v bly more than a total of 15 qts. per acre he dormant or delayed dormant timing	per crop, including
Almonds, Chestnuts, Filberts, Pecans, Walnuts	Black margined aphids, Calico scales, Coding moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Fibert aphids, Filbert leafrollers, Fruitree leafrollers, Hickory shuckworms, Lesser webworms, Navel orangeworms, Peach twig borers, Pecan leaf phythoxeras, Pecan stem phythoxeras, Pecan nut casebearers, Pecan spittlebugs, Pecan stem phythoxeras, Pecan nut casebearers, Pecan spittlebugs, Pecan weevits, San Jose scales, Twig girdlers, Walnut caterpillars SPECIFIC DRECTIONS: Observe E applications as necessary up to a to crop (including any applications at the delayed dormant timing), but not mo every 7 days. Use lower rates for pe leaves. Use higher rates for pests a higher infestations. For Scale contro crawlers are present. For Peach twi results with foliar applications have I making applications in popcom or p the May brood begins to hatch. For in Almonds and Walnuts, best results by timing early and mid-season app correspond with moth flight peaks. F best results have been found by mai when eggs are hatching, repeating i appearance of moths and again 3 to Coding moths in Walnuts, best results by making applications when averag diameters of developing nuts are 2/during middle or late June as needed	tal of 4 times per e domant or re often than once ists attacking ttacking fruit and for al, apply when g borers, best been found by etal fall stages when Navel orangeworms s have been found lications to or Filbert leaffoller, king applications application in first o 4 weeks later. For its have been found je cross-sectional to 34 inch and again
	Chestrut weevils, European earwigs	4 to 5
	SPECIFIC DIRECTIONS: For Ches results have been found with 4 appli intervals beginning in tate July. The 1 should be made prior to shuck split, earwigs, thorough coverage of trunk is needed for best results.	cations at weekly ast application For European
Almonds Only	Peach twig borers, Scale insects	4 to 5
	SPECIFIC DIRECTIONS: For domain domaint timing, apply in combinatio mended domaint oil. Refer to the do label for additional use directions ar	n with recom- ormant oil product nd restrictions.
harvest. Do not app	AND PRECAUTIONS: Do not apply w by more than a total of 15 qts. per acro the dormant or delayed dormant timin	e per crop, including

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.

Сгор	Pest	Qts. of This Product Per Acre
lon-urban	Ants, Apple aphids, Armyworms, Ash	1
orests, Tree	whitefies, Azalea leafminers, Bagworms,	
lantations,	Balsam twig aphids, Birch leafminers, Blister beetles, Boxelder bugs, Boxwood	
Planted Christmas	leafminers, Brown tall moths, Canker-	
rees, Parks,	worms, Catalpa sphirx, Chiggers, Cooley	
Rural shelter	spruce gall adelgids, Cutworms, Cypress	
elts,	tip moths, Douglas-fir tussock moths,	
Rangeland	Eastern spruce gall adelgids, Elm leaf	
rees	aphids, Eim 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 maple-	
	worms, Grasshoppers, Hackberry nipple-	
	gall makers, Holly bud moths, Holly leafminers, June beetles, Lace bugs,	
	Leaftoppers, Leafrollers, Locust borers,	
	Mapie leafcutters, Mealybugs, Mimosa	
	webworms, Nantucket pine tip moths, Oak	
	leafminers, Oak moths, Oak skeletonizers,	
	Oakworm complex, Oleander caterpillars,	
	Olive ash borers, Orangestriped oak- worms, Periodical cicadas, Pine bopers.	
	Pine sawflies, Pine spittlebugs, Pitch pine	
	tip moths, Spruce budworms, Plant bugs,	
	Poinsettia horrworms, Psyllids, Puss	
	caterpillars, Redhumped oakworms, Rose	
	aphids, Rose chafers, Rose slugs, Sad- idled prominents, Sawfiles (exposed),	
	Scale insects (crawlers), Sowbugs, Spiney	
	elm caterpillars, Springtails, Spruce	
	needleminers, Subtropical pine tip moths,	
	Tent caterpillars, Thombugs, Thrips	
	(exposed), Ticks, Walnut caterpillars, Web-	
	worms, Western hemiock loopers, Western spruce budworms, Willow leaf beetles,	
	Woolly gall aphids, Yellow-poplar weevils	
	addison of a sticker may improve residual (Scale insects, treat trunks, stems and twigs foliage. For optimum Worm control, treat wi Do not use on syrup-producing Sugar maple harvested. Applications for control of Maple Sugar maple should be made when larvae i after mining and as cases are being former as necessary up to a total of 2 times per ye	in addition to plant then pests are small, es where sap is leafcutters on are in 2nd instar J. Repeat treatments
	often than once every 7 days.	· · · · · · · · · · · · · · · · · · ·
	Gypsy moths	34 to 1
	SPECIFIC DIRECTIONS: For Gypsy moth of higher rate for heavy infestations.	control, use the
	Elm bark beetles, los engraver beetles,	2% solution
	Mountain pine beetles, Roundheaded pine	(5 fl. ozs.
	beetles, Spruce beetles, Western pine	per gal.)
	beetles	L
	SPECIFIC DIRECTIONS: Direct Trunk Trea	
	a preventative treatment only. Repeat annual prevent Beetle attacks. Apply 1 gal. of spra	
	bark prior to Beetle flight or host-tree attack	
	from ground level up, until trunk diameter is	
	For Elm bark beetles; apply approximately	
	spray mixture for each 50 fL of Elm tree for	
	of all bark surfaces on trunks, limbs and twi more than 2 applications per year or repeal	
	often than once every 6 months.	applications more
		ore than 2 and!
		ure unantz appli•
	NS AND PRECAUTIONS: Do not make m	
cations per ye (approx. 2 tsp 500 sq. ft. wh PUBLIC USE	ear. To prepare small volumes of spray mixtur s.) of this product in an adequate amount of ere rates of 1 qt. per acre are indicated. DO OF TREATED AREAS DURING APPLICAT	e, use ½ fl. oz. water and apply to NOT ALLOW
cations per ye approx. 2 tsp 500 sq. ft. wh	ear. To prepare small volumes of spray mixtur s.) of this product in an adequate amount of ere rates of 1 qt. per acre are indicated. DO OF TREATED AREAS DURING APPLICAT	e, use ½ fl. oz. water and apply to NOT ALLOW

ties to determine appropriate threshold levels for treatment in your area. To maintain control, repeat at 7- to 14-day intervals or as necessary unless a shorter interval is specified below. Where a dosage

range is indicated, use the lower rate on light to moderate infesta-

tions, young plants and early instars and adults. Thorough and uni-

form spray coverage is essential for effective control.

Note: All reference to Armyworms on the plants listed below 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.

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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.

Crop	Pest	Qts. of This Product Per Acre
Trees,Oma-	Ants, Apple aphids, Armyworms, Ash white-	1 gL
mentals:	flies, Azalea leafminers, Bagworms, Birch	-OR-
Roses,	leafminers, Blister beetles, Boxelder bugs,	
	Boxwood leafminers, Brown tall moths, Cank-	1 fl. oz per
Herbaceous	erworms, Catalpa sphinx, Chiggers, Cooley	3 gals, of spray
plants), Woody plants	spruce gall adelgids, Cutworms, Cypress tip moths, Eastern spruce gall adelgids, Elm leaf	-OR-
Shrubs in	aphids, Eim leaf beetles, Elm spanworms,	2 tsps. per
commercial	Eriophyld mites, European pine shoot moths,	gal of spray
and residental	Fall armyworms, Flea beetles, Fuchia galf	3,
areas and in	mites, Fuller rose beetles, Gall midges, Gall	
Nursery	wasps, Greenstriped mapleworms, Grass-	
production	hoppers, Hackberry nipplegall makers, Holly	
areas	bud moths, Holly leafminers, June beetles,	
	Lace bugs, Leafhoppers, Leafroliers, Locust	
	borers, Maple leafcutters, Mealybugs, Mirnosa webworms, Nantucket pine tip moths, Oak	
	leafminers, Oak moths, Oak skeletonizers,	
	Oakworm complex, Oleander caterpillars,	
	Olive ash borers, Orange-striped oakworms,	
	Periodical cicadas, Pine loopers, Pine saw-	
	flies, Pine spittlebugs, Pitch pine tip moths,	
	Plant bugs, Poinsettia homworms, Psyllids,	
	Puss caterpillars, Redhumped oakworms,	
	Rose aphids, Rose chafers, Rose slugs,	
	Saddled prominents, Sawflies (exposed),	
	Scale insects (crawlers), Sowbugs, Spiney	
	elm caterpillars, Springtails, Spruce needle- miners, Subtropical pine tip moths, Tent cat-	
	erpillars, Thombugs, Thrips (exposed), Ticks,	
	Walnut caterpillars, Webworms, Western	
	hemlock loopers, Willow leaf beetles, Woolly	
	gall aphids, Yellow-poplar weevils	
	SPECIFIC DIRECTIONS: Observe plant respon	nse precautions
	Obtain thorough coverage of upper and lower la	
	The addition of a sticker may improve residual	control. To
	control scale insects, treat trunks, sterns and tw	
	to plant foliage. For optimum Worm control, tre	
	are small. Do not use on syrup-producing Suga	
	sap is harvested. Applications for control of Ma	
	on Sugar maple should be made when larvae a	
	after mining and as cases are being formed. R treatments as necessary up to a total of 2 time	
	not more often than once every 7 days.	s per year, our
	Haisam Mid aphids. Cooley sprice dail	1 to 2 ats
	Balsam twig aphids, Cooley spruce gall adeloids, Douglas-fir tussock moths, Soruce	1 to 2 qts. -OR-
	adelgids, Douglas-fir tussock moths, Spruce	-OR-
		-OR-
	adelgids, Douglas-fir tussock moths, Spruce	-OR- 2 to 4 tsps. pe gal. of spray
	adelgids, Douglas-fir tussock moths, Spruce budworms, Western spruce bydworms SPECFIC DIRECTIONS: Use higher rate when heavy populations are present.	-OR- 2 to 4 tsps. per gal. of spray
	adelgids, Douglas-fir tussock moths, Spruce budworms, Western spruce bydworms SPECFIC DIRECTIONS: Use higher rate when heavy populations are present. Gypsy moths	+OR- 2 to 4 tsps. pe gal. of spray harge larvae or <u>34</u> to 1
	adelgids, Douglas-fir tussock moths, Spruce budworms, Western spruce bydworms SPECFIC DIRECTIONS: Use higher rate when heavy populations are present. Gypsy moths SPECIFIC DIRECTIONS: For Gypsy moth cont higher rate for heavy infestations.	-OR- 2 to 4 tsps, pe gal. of spray h large larvae or 34 to 1 rol, use the
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ations per year. To prepare small volumes of spray mixture, use & 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

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

Qts. of This Crop Pest Product Per Acre Golf turf, Sports Ants, Armyworms, Centipedes, Chig-2 to 4 fields, Sod farms, gers, Cutworms, Earwigs, Essex (11/2 to 3 fl. ozs. skippers, European chaters, Fall per 1,000 sq. ft.) Domestic and armyworms, Fiery skippers, Grass-Commercial hoppers, Green June beetle larvae, lawns, Cerneteries, Parks, Leafhoppers, Lucerne moths, Milli-Campsites. pedes, Mosquitoes (adults), Scarab beetle adults (May beetles, June Recreational beetles, Japanese beetles, Green areas June beetles), Sowbugs, Spittlebugs, Springtails, Ticks, Yellowstriped armworms 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 6 to 8 (4% to 6 f). ozs. moths) per 1,000 sq. ft.) SPECIFIC DIRECTIONS: For Chinch bug control: Treat entire grass area rather than just damaged areas. Imigation 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 than once every 7 days. Bluegrass billbug larvae, European 8 crane flies, Fleas, White grubs (6 fl. ozs. (Japanese beetles, Chafer beetles per 1,000 sq. ft.) and Phyllophaga spp. larvae), Black turigrass ataenius beetle larvae, Hyperodes weevils (Bluegrass weevil larvae) SPECIFIC DIRECTIONS: For European Crane Fly Control: Treatments should be applied in early Spring (April 1 to April 15) or as recommended by local Agricultural Extension Service agents. Water or irrigate Turfgrass soon after treatment. For White grub control: Applications 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 agent. 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. White grubs (such as Japanese 6 (4% fl. ozs. beetles, Chafer beetles and per 1,000 sq. ft.) Phyllophaga spp. larvae) SPECIFIC DIRECTIONS: For White grub control -Applications should be made when Grubs are feeding near the soil surface, usually during late March through May or July to early September, or as recommended by local Agricultural Extension Service agents. Water or inigate Turfgrasses thoroughly soon after treatment. RESTRICTIONS AND PRECAUTIONS: DO NOT ALLOW PUBLIC USE OF TREATED AREAS DURING APPLICATIONS OR UNTIL SPRAYS HAVE DRED.

CONTROL OF SPECIFIC PESTS ACROSS MULTIPLE SITES

Crop	Pest	Qts. of This Product Per Acre
All crops	Grasshoppers	½ to 1½*
on this label	SPECIFIC DIRECTIONS: Apply ½ to ¾ qt. per acre of this product for nymphs on small plants or sparse vegetation. Apply 1 to 1½ qts. per acre for mature Grasshoppers or applications to dense foliage or if extended residual control is desired. Be certain spray volumes are appropriate to assure adequate coverage.	
	ndividual site listing elsewhere or estrictions. Do n ot use rates high e restrictions.	

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.

Сгор	Pest	Qts. of This Product Per Acre
All crops on this label: Pastures, Forested areas, Wasteland, Right- of-Ways, Hedge- rows, Ditchbanks, Roadsides, Seta- side and Conser- vation Reserve	Ixodes spp. (Deer ticks, Bear ticks, Black legged ticks), Ambly- omma spp. (Lone star ticks)	1 to 2* (2 to 4 tsps. per gal.)
Program acreage, Trees and Oma- mentals, Turigrass, Lawns and Recre- ational Turigrasses (including Lawns and Perimeters, Golf courses, Sports fields, Cerneteries, Parks and Pastures, Shrubs, Wooded areas, (including: Military posts, Logging camps and Campsites)	SPECIFIC DIRECTIONS: Use the h Tick infestations." Use higher spray ground cover or heavy leaf litter. Tan nymphal control in late Spring or ea of adult Ticks can be obtained with 1 Fall applications. Do not use spot th entire area and perimeter areas wh Ticks may occur. Ticks may be reint surrounding areas on host animals, necessary to maintain adequate con	volumes for dense get applications for thy Summer. Control late Summer and eatments. Treat ere exposure to roduced from Retreat as
"Note: For control of site listings elsewho	ND PRECAUTIONS If Ticks which vector lyme disease: Re are on this label for use limitations an r than listed for the site or exceed oth	d restrictions. Do

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

IMPORTED FIRE ANTS

Crop/Site	Pest	Qts. of This Product Per Volume of Water
Pastures, Range- lands, Forested areas, Trees and Omamentals, Turf- grass, Wasteland, Lawrs, Cemeteries, Recreational areas (including Turf, Golf courses and Parks)	imported fire ants	¾ fl. oz. per gal.
	SPECIFIC DIRECTIONS: Apply a total of 2 gais. of the diluted solution over the surface of each mound or at least 1 qt. per 6 inches of mound diameter using a bucket, can or other appropriate equipment. Thoroughly wet mound and surrounding areas to a 4 ft. diameter (12 sq. ft.). Do not disturb mound prior to treatment. Pour solution from a height of about 3 ft. to give sufficient force to break mound apex and flow into Ant tunnels. For best results apply in cool weather (65 to 80°F) or in early morning or late evening hours. Repeat application if mound activity resumes after 7 days. Treat new mounds as they appear. Pressurized sprays may disturb the Ants and cause migration, reducing product effectiveness.	
Nursery stock, Vegetable trans-	Imported fire ants	1½ qts. per 100 gals.
plants*, 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 ¼ 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.

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ADULT MOSQUITO CONTROL

Apply in sufficient gallonage for thorough coverage.

2Crop	Pest	Qts. of This Product Per Acre
Pastures,	Mosquitoes (adults)	1/4 to 1*
Rangeland, Forested lands, Trees and Omamentals, Turfgrass, Wastelands	Rangeland, Forested lands, Trees and Omamentals, Turgrass,	
	AND PRECAUTIONS: DO NOT AL REAS DURING APPLICATION OR U	

DRIED. May kill shrimp and crabs. Do not use in areas where these are important resources. 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. fL where rates of 1 qt. per acre are indicated.

POULTRY INSECT CONTROL

Site	Pest	Qts. of This Product Per 100 Gals. of Water	
Direct spray on Chickens, Ducks,	Chicken mites, Fleas, Lice, Northern fowl mites	-	
Geese, Game Birds, Pigeors, Turkeys	SPECIFIC DIRECTIONS: For use as a direct spray or birds by. (1) Misting with Electric Fog Machine - Mi qL (9 ³ f fl. ozs.) of this product in 1 gal. of spray. Use 1 gals. per 1,000 Hens in cages, on litter or on slatted floors. Repeat in 4 weeks if necessary. (2) Spraying v knapsack or cylinder type compressed alr spraye Mix ½ qL (5.4 fl. ozs.) of this product in 5 gals. of spray Use 1 gal. per 100 Hens in cage, on litter or on slatted floors. Repeat in 4 weeks if necessary. For Northern fc mite control, ensure pressured spray penetrates feather of vent area on birds. Direct spray misting for Chicken mites and Fleas is a supplement to spraying rooms ar buildings for control of these pests.		
Poutry quarters	Bedbugs, Chicken mites, Fleas, Lice, Northern fowl mites	4 (2½ tbsps, per gal.	
	SPECIFIC DIRECTIONS: Apply 1 to 2 gals, of spray mixture with conventional power spray of knapsack equipment per 1,000 sq. ft. of wall, litter or roost surface. Force spray into cracks. Repeat as needed. Avoid spraying nests, eggs and feeding and water troughs.		
	Fowl ticks	16 (10 tbsps. per gal.)	
	SPECIFIC DIRECTIONS: Ventilate while spraying.		

POULTRY INSECT CONTROL

Darkling beetles (Lesser mealworms or Litter beetles)

Site	Pest	Lbs. of This Product
Poultry quarters	Darkling beetles (Lesser meal- worms or Litter beetles)	.625 to 1.25 lbs. per 1,000 sq. ft.
SPECIFIC DRECTIONS: Apply as a dilute si surface, walls, cracks, posts and crevices wit volume of finished spray to wet all surfaces th Optimum application fiming is immediately af old flock from, or before placing new flock into when Beetles are most active. Ventilate durin tion. Avoid contamination of feeding and wate		vices with sufficient urfaces thoroughly. diately after removing r flock into the house late during applica-
RESTRICTIONS within 7 days of s	AND PRECAUTIONS: Do not treat i laughter.	Birds or premises

PEST CONTROL IN AND AROUND BUILDINGS **GENERAL INFORMATION**

Note: Staining may occur on certain surfaces such as stucco, brick, cinder block and wood. Therefore, applications of this product to surfaces where a noticeable residue or discoloration is objectionable should be avoided. Do not apply to carpets or draperies as staining may occur. Care should also be exercised to avoid spotting of wallpaper and fabrics. Do not use this product in commercial food areas of food handling establishments, restaurants or other places where food is prepared or processed. Do not use in serving areas while food is exposed.

INDOORS

INDOORS	
Pest	Rate
Crickets, Firebrats, Silverfish	31/2 fl. ozs. per gal. of water
SPECIFIC DIRECTIONS: Apply as fine, low pressure (20 as crack and crevice application to areas where these pe baseboards, storage areas, closets, around water pipes, behind and under refrigerators, cabinets, sinks, stoves, di water heaters, the underside of shelves, drawers and sim	sts hide, such as doors and windows, shwashers, hot
Bees and Wasps	31/2 fl. ozs. per gal, of water
SPECFIC DIRECTIONS: Thoroughly spray nest and entra ing areas where insects alight. It is generally advisable to the evening when the insects are less active and have ret For best results, check nest carefully one or two days afte complete kill, then remove and destroy nest to prevent em hatched insects.	spray the nests in urned to the nest. r spraying to ensure
Brown dog ticks, Fleas	31/2 fl. ozs. per gal. of water
SPECIFIC DIRECTIONS: Thoroughly spray infested areas cracks and crevices, along and behind baseboards, wind and other areas where these pests may be present.	
Carpenter ants	7 fl. ozs. per gal. of water
SPECFIC DIRECTIONS: Apply to Ant traits, around door other places where Ants enter premises. Where possible, directly to Ant nest or infested wood.	
Centipedes, Earwigs, Millipedes, Scorpions	31/2 fl. ozs. per gal. of water
SPECIFIC DIRECTIONS: Apply around water pipes, door other places where these pests enter premises. Spray ba carports, basements and other areas where these pests a	seboards, garages,
Cockroaches	7 fl. ozs. per gal. of water
SPECFIC DIRECTIONS: Apply as a fine, low pressure (2 as a crack and crevice application to areas where these baseboards, storage areas, closets, around water pipes, behind and under refrigerators, cabinets, sinks, stoves, di water heaters, the underside of shelves, drawers and sim Note: Efficacy varies with species sensitivity. This produc not highly effective in controlling German cockroaches. Ho may be controlled with the rates as stated: American road Brown roach, Smoky brown roach and others.	pests hide, such as doors and windows, shwashers, hot ilar areas, t is generally owever, the following
Spiders	31/2 fl. ozs. per gal. of water
CRECEIC DRECTIONS: Apply to infected basebaseds	بالمعامدة والمعامية

S: Apply to infested baseboards, window and do frames, corners, pipes, storage areas, attics and under eaves. Make spot applications to other areas where these pests are present.

OUTDOORS

PERIMETER TREATMENT-Residual spray for control of Ants, Bees and Wasps, Brown dog ticks, Carpenter ants, Centipedes, Cockroaches, Crickets, Darkling beetles (Lesser mealworms or Litter beetles), Earwigs, Firebrats, Silverfish, Fleas, Millipedes, Scorpions and Spiders. Mix 6½ fluid ounces of this product per gallon of water and apply via power spray or other spray methods.

To help prevent infestations of buildings by the above pests, outside perimeter treatment should be in a band 6 to 10 feet wide and confined to shrub beds, foundation plantings and lawn or soil areas immediately adjacent to the structure. Diffect applications to the structures should be minimal and restricted to cracks and crevices and other areas where insects tend to congregate.

WHEN PREPARING COMBINATION SPRAYS, FIRST ADD THIS PRODUCT TO AT LEAST AN EQUAL VOLUME OF WATER AND THEN ADD COM-BINATION PRODUCTS TO THE MIXTURE. DO NOT APPLY TANK MIX COMBINATIONS UNLESS YOUR PREVIOUS EXPERIENCE INDICATES THE MIXTURE IS EFFECTIVE AND WILL NOT RESULT IN APPLICA-TION PROBLEMS OR PLANT INJURY.

Carbaryl is unstable under highly alkaline conditions and mixtures with strong bases, such as Bordeaux, lime-sulfur and casein-lime spreaders, 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: For all applications, use sufficient gallonage to obtain thorough and uniform coverage. Observe label instructions for specific directions regarding spray volume where they occur. Calibrate spray equipment to deliver the required volume. Use 50 mesh slotted strainers in spray system and 25 mesh slotted strainers behind nozzles.

To clean spray system after use, drain and flush with a water and detergent mixture. Rinse thoroughly with clean water. Refer to "STORAGE AND DISPOSAL* directions for disposal instructions.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Store unused product in original container only, in cool, dry areas 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: 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 of in a sanitary landfill, by 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 application, 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 assumes 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 a condition of sale by the Seller and is accepted as such by the Buyer.