19713-49

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460-0001

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

JAN 2 7 2011

Attn: Luz Chan Drexel Chemical Company P.O. Box 13327 Memphis, TN 38113-0327

Subject:

DREXEL CARBARYL 4L EPA Reg. No. 19713-49 Your Application Dated December 3, 2010 Minor Label Corrections (Add Uses under Citrus and Pistachios)

Dear Ms. Chan;

The label referred to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. Within 45 days from the date of this notice, two copies of a final printed label must be submitted. A copy of the stamped label is enclosed for your records. If you have any questions, contact Joanne Edwards at 703-305-6736, or electronically at Edwards joanne@epa.gov.

Sincerely yours.

John Hebert, product Manager 1 Insecticide-Rodenticide Branch Registration Division (7504P)

ACCEPTED January 27, 2011 Under the Federal Insecticide. Fungicide, and Rodenticide Act, as amended, for the pesticide Registered under Drexel EPA Reg. No. 1971 3-

Carbaryl 4L

Insecticide

Intended For Agricultural or Commercial Use.

ACTIVE INGRÉDIENT:	
Carbaryl	43.4%
OTHER INGREDIENTS:	<u>56.6%</u>
TOTAL:	100.0%

This product contains 4 pounds of Carbaryl per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

See FIRST AID Below SHAKE WELL BEFORE USING [Optional: RECIRCULATE CONTENTS BEFORE USE]

EPA Reg. No. 19713-49

EPA Est. No. 19713-XX-XXX

Net Content:

IF SWALLOWED:

· Immediately call a poison control center or doctor for treatment advice.

FIRST AID

- · 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 ON SKIN OR CLOTHING:

- · Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- · Call a poison control center or doctor for treatment advice.

IF INHALED:

- · Move person to fresh air.
- · If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible
- · Call a poison control center or doctor for further treatment advice. 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.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378

Note to Physician: Carbaryl is an N-methyl carbamate that inhibits cholinesterase. Drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended.

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. OVEREXPOSURE MAY CAUSE: Salivation, watery eyes, pinpoint eye pupils, blurred vision, muscle tremors, difficult breathing, excessive sweating, abdominal cramps, nausea, vomiting, diarrhea, weakness or headache.

IN SEVERE CASES, CONVULSIONS, UNCONSCIOUSNESS, AND RESPIRATORY FAILURE MAY OCCUR. SIGNS AND SYMPTOMS MAY OCCUR RAPIDLY FOLLOWING OVEREXPOSURE TO THIS PRODUCT.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for Category A on an EPA chemical-resistance category selection chart

Handlers applying with open cab airblast equipment at application rates equal to or greater than 5 quarts of this product (5 lbs. a.i.) must wear: Coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, chemical-resistant footwear plus socks. chemical-resistant headgear, and a NIOSH-approved dust/mist filtering respirator with NIOSH/MSHA approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P or HE filter.

All other mixers, loaders, applicators, and handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, and a chemical-resistant apron when mixing, loading or cleaning up spills or equipment. In addition, mixers and loaders supporting aerial or chemigation applications must wear a NIOSHapproved dust/mist filtering respirator with NIOSH/MSHA approval number prefix TC-21C or a NIOSH-approved respirator with any N. R, P or HE filter.

See engineering controls for additional requirements and exceptions.

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.



Manufactured By: **Drexel Chemical Company** P.O. BOX 13327, MEMPHIS, TN 38113-0327 SINCE 1972

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ENGINEERING CONTROLS

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for agricultural pesticides [40 CFR 170.240(d)(6)]. Applicators using airblast equipment for application to Citrus in California and for wide area mosquito adulticide applications must use an enclosed cab that meets the definition in the WPS for agricultural pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, such applicators must:

· wear long-sleeved shirt, long pants, shoes and socks;

- either wear a NIOSH-approved dust/mist filtering respirator with NIOSH/MSHA approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter or use an enclosed cab that is declared in writing by the manufacturer or by a government agency to provide at least as much respiratory protection as this type of respirator;
- be provided, have immediately available for use, and wear in an emergency when they must exit the cab in the treated area coveralls, chemical-resistant gloves, chemical-resistant footwear and chemical-resistant headgear (if overhead exposure) plus – if not already using one – the respirator specified above;
- take off any PPE that was worn in the treated area before reentering the cab, and
- store all such PPE in a chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

Human flagging is prohibited, except for flagging to support ultra low volume aerial applications for Rangeland Grasshopper and Mormon Cricket Suppression through the Animal and Plant Health Inspection Service (APHIS) Program or affiliated state programs. Flagging to support aerial application for all other use patterns is limited to the use of Global Positioning System (GPS) or mechanical flaggers.

Flaggers supporting ultra low volume aerial applications for Rangeland Grasshopper and Mormon Cricket Suppression through APHIS program or affiliated state programs must use an enclosed cab that meets the definition in the WPS for agricultural pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, flaggers must:

· wear long-sleeved shirt, long pants, shoes, and socks;

- either wear a NIOSH-approved dust/mist filtering respirator with NIOSH/MSHA approval number prefix TC-21C or NIOSH-approved respirator with any N, R, P or HE filter or use an enclosed cab that is declared in writing by the manufacturer or by government agency to provide at least as much respiratory protection as this type of respirator;
- be provided, have immediately available for use, and wear in an emergency when they must exit the cab in the treated area: chemical-resistant gloves and chemical-resistant headgear, and, if using an enclosed cab that provides respiratory protection, a respirator of the type specified above;
- take off any PPE that was worn in the treated area before reentering the cab; and
- store all such PPE in a chemical-resistant container, such as plastic bag, to prevent contamination of the inside of the cab.

When applicators use enclosed cabs in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic 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. Drift and runoff may kill aquatic invertebrates in water adjacent to treated areas. Do not contaminate water by cleaning equipment or disposal of wastes. Do not contaminate water when disposing of washwaters.

BEE CAUTION: May kill honeybees and other bees in substantial numbers. This product is highly toxic to bees exposed to direct treatment or residues on crops or weeds in bloom.

Notifying beekeepers within 1 mile of treatment area at least 48 hours before product is applied will allow them to take additional steps to protect their bees.

Limiting applications to times when bees are least active, e.g., within 2 hours of sunrise or sunset, will minimize risk to bees.

For crops in bloom (except corn and soybeans):

Do not apply this product to target crops or weeds in bloom. For corn and soybeans:

If application cannot be avoided when target crop or weeds are in bloom, limiting applications to times when bees are least active, e.g., within 2 hours of sunrise or sunset, will minimize risk to bees. **DIRECTIONS FOR USE**

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 Worker Protection Standard (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), 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 WPS.

Do not enter or allow worker entry into treated areas during the REI. The REI for carbaryl is 12 hours unless otherwise specified in the directions for use associated with each crop.

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 over short-sleeved shirt and short pants, chemical-resistant gloves made of any waterproof material, chemical-resistant footwear plus socks, and chemicalresistant headgear if overhead exposure.

When the REI for a crop is 7 days or longer, you must notify workers of the application by warning them orally and by posting warning signs at entrances to treated area.

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. Do not enter or allow others to enter the treated area until sprays have dried.

USE INFORMATION

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 period 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

For all listed crops and uses, do not apply at greater rates or at more frequent intervals than stated on the label. If forage is grazed or used as feed for dairy and meat animals, follow all use restrictions in order to avoid illegal residues in crops, meat or milk.

Do not use reclaimed irrigation water from crops treated with carbaryl on crop for which carbaryl tolerances are not established.

APPLICATION INFORMATION

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. For outdoor use only.

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 product performance, 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 one-half to threefourths 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 INFORMATION".

COMPATIBILITY INFORMATION

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 product performance 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 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 product performance.

APPLICATION PROCEDURES

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.

Aerial Application: For adequate distribution, use at least 10 gallons of spray mixture per acre for application to tree and orchard crops or at least 2 gallons of spray mixture per acre for application to other crops. EXCEPTION: For use on Rangeland as a pest management approach for grasshoppers under the Reduced Area and Agent Treatment (RAATs) program only, use at least 16 fl. ozs. of finished spray mixture per acre for aerial application.

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 Preparation: First prepare a suspension of this product in a mix tank. Fill tank with one-half to three-fourths 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 de-liver 0.1 to 0.3 inches of water per acre. Start sprinkler and uniformly in-

ject 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.

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 beyond the area intended for treatment, 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 Groupings: Asparagus, Brassica leafy vegetable crops, Cereal grain crops (Field and Popcorn, Grain sorghum, Rice, Sweet corn), Cucurbit vegetables, Flax, Forage crops (Alfalfa, Birdsfoot trefoil, Clovers, Pasture and Grasses grown for hay and/or seed, Rangeland), Fruiting vegetables (Eggplant, Peppers, Tomato), Leafy vegetables (Dandelion, Endive, Lettuce, Parsley, Spinach, Leaf Petiole Subgroup 4B), Legume vegetables (Edible-Podded Legume Vegetables; Dried Shelled Pea and Bean (except Soybean); Soybean; Foliage of Legume Vegetables), Non-cropland (Conservation Reserve Program, Ditchbanks, Hedgerows, Rights-of-way, Roadsides, Set-Aside Program Acreage, Wasteland), Okra, Peanuts, Prickly pear cactus, Root and Tuber crops, Sugar beets, Sweet potatoes, Small Fruits and Berries (Bushberries, Caneberries, Cranberries, Grapes, Strawberries), Sunflowers, Tobacco, Tree fruit crops (Citrus fruits, Olives, Pome fruits, Stone fruits), Tree nut crops (Pistachios, Tree nuts), Forested areas and Rangeland trees, Ornamental trees and plants, Turfgrass, Specific pests across multiple sites (Grasshoppers, Imported fire ants, Ticks which may vector Lyme disease, and Nuisance Pests).

APPLICATION TIMING AND DIRECTIONS

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 and timing for treatment 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 product performance.

REI = Restricted Entry Interval.

ASPARAGUS

Pest	This Product Per Acre (qts.)
Apache cicadas, Asparagus beetles, Cutworms	1
SPECIFIC DIRECTIONS: Apply prior to applications as necessary up to a total of harvest or a total of 5 applications per yes ferns combined. Do not apply more that days. Do not apply within 1 day of harves this product is most effective against spe on the upper portions of the plant.	f 3 times prior to ar to spears and in once every 3 st. For Cutworm,
Apache cicadas, Asparagus beetles, Cutworms	2
SPECIFIC DIRECTIONS: Applications Apply to ferns or brush growth follow spears. Repeat applications as necess 7 day intervals. Do not make more than plications per year to spears and ferns	ving harvest of ary at minimum n a total of 5 ap-
	Apache cicadas, Asparagus beetles, Cutworms SPECIFIC DIRECTIONS: Apply prior to applications as necessary up to a total o harvest or a total of 5 applications per yea ferns combined. Do not apply more that days. Do not apply within 1 day of harves this product is most effective against spe on the upper portions of the plant. Apache cicadas, Asparagus beetles, Cutworms SPECIFIC DIRECTIONS: Applications Apply to ferns or brush growth follow spears. Repeat applications as necess 7 day intervals. Do not make more than

RESTRICTIONS: BEE CAUTION: Do not apply this product to target crops or weeds in bloom.

BRASSICA (LEAFY VEGETABLES)

Repeat applications as needed up to a total of 4 times per year at minimum 7 day intervals.

Crop	Pest	This Product Per Acre (qts.)
All members of the Brassica leafy vegetable Group 5	Flea beetles, Harlequin bugs, Leafhoppers	0.5 to 1
including: Broccoli, Broccoli raab (rapini), Brussels sprouts, Cauliflower, Cabbage, Cavalo broccolo, Chinese broccoli (gaí Ion), Chinese cabbage (bok choy), Chinese cabbage (napa), Chinese mustard cabbage (gai choy), Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens, Turnip greens	Armyworms, Aster leafhoppers, Corn earworms, Diamondback moth, Fall armyworms, Imported cabbageworms, Lygus bugs, Spittlebugs, Stink bugs, Tarnished plant bugs	1 to 2

RESTRICTIONS: BEE CAUTION: Do not apply this product to target crops or weeds in bloom.

For Head and Stem Brassica Subgroup 5A including Broccoli, Chinese broccoli (gai Ion), Brussels sprouts, Cabbage, Chinese cabbage (napa), Chinese mustard cabbage (gai choy), Cauliflower, Cavalo broccolo, and Kohlrabi, do not apply within 3 days of harvest. For Leafy Brassica Greens Subgroup 5B including Broccoli raab (rapini), Chinese cabbage (bok choy), Collards, Kale, Mizuna, Mustard greens, Mustard spinach, Rape greens, Turnip greens, do not apply within 14 days of harvest. Application is only permitted within 30 days from date of crop emergence or the date of transplanting. Do not apply more than a total of 6 qts. per acre per crop per year.

CEREAL GRAIN CROPS

Corn (Field, Pop) (REI = 24 hours)

Repeat applications as needed up to a total of 4 times per year at minimum 14 day intervals. Good timing and good coverage are essential for effective product performance.

·		This Product	
Сгор	Pest	Per Acre (qts.)	
Field corn,	Armyworms, Chinch bugs,	1 to 2	
Popcorn	Corn earworms, Corn		
	rootworm adults, Fall		
	armyworms, Flea beetles,		
	Japanese beetles, Sap		
	beetles, Southwestern corn	i	
	borers, Leafhoppers		
	SPECIFIC DIRECTIONS: For		
,	Chinch bug, use ground equip		
	least 20 gals. of water per acre		
	toward stalk to provide thoroug		
	European corn borers	1.5 to 2	
	SPECIFIC DIRECTIONS: For b		
	ropean corn borer, do not app		
	gals. of water per acre by air	and 15 gals. of	
	water by ground.		
	Cutworms, Western bean	2	
	cutworms		
	SPECIFIC DIRECTIONS: For		
	Cutworm, apply in a 12-inch b		
	using sufficient volume of wat		
	ough coverage. For broadcast		
	at least 20 gals. by ground or		
	acre. For Cutworm, this produc		
	against species which feed on t		
	of the plant. For Western bear		
	when infestation averages 15		
	100% tassel emergence. Treat		
DESTRICTIONS	silk emergence will reduce effe		
	BEE CAUTION: If application ca		
	hen target crops or weeds are in bloom, limiting applications to		
	s are least active, e.g. within 2 hours of sunrise or		
	mize risk to bees. Notifying beekeepers within 1 mile		
of treatment area at least 48 hours before product is applied will allow them to take additional steps to protect their bees.			
Do not apply more than a total of 8 gts. per acre per crop per year.			
	t apply within 48 days of harvest of grain and fodder or within		
14 days of harvest or grazing forage or silage.			
Prohibition: Do not enter or allow workers to enter treated areas to			
perform hand detasselling tasks 21 days after application. Hand har-			
vesting is prohibited.			

Corn (Sweet) (REI = 24 hours)

Repeat applications as necessary up to a total of 8 times per year at minimum 3 day intervals. Good timing and good coverage are essential for effective product performance.

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.

Crop	Pest	This Product Per Acre (qts.)
Sweet corn	Armyworms, Chinch bugs, Com earworms, Corn rootworm adults, Fall armyworms, Flea beetles, Japanese beetles, Leafhoppers, Sap beetles, Southwestern corn borers	1 to 2
	SPECIFIC DIRECTIONS: For best r bug, use ground equipment to apply a water per acre and direct spray towar thorough coverage.	t least 20 gals. of
		(Continued)

(Cont.)			
Crop	Pest	This Product Per Acre (qts.)	
	European com borers	1.5 to 2	
	SPECIFIC DIRECTIONS: For best results on European corn borer, do not apply in less than 3 gals. of water per acre by air and 15 gals. of water by ground.		
Sweet	Cutworms, Western bean cutworms	2	
corn	Cutworms, Western bean cutworms 2 SPECIFIC DIRECTIONS: For best results on Cutworm, apply in a 12-inch band over the row using a sufficient volume of water to obtain thorough coverage. For broadcast application, use at least 20 gals. by ground or 5 gals. by air per acre. For Cutworm, this product is most effective against species which feed on the upper portions of the plant. For Western bean cutworms, treat when infestation averages 15% and at 90 to 100% tas- sel emergence. Treatment after 100% silk emergence will reduce effectiveness.		
RESTRICTIONS: BEE CAUTION: If application cannot be avoided			

RESTRICTIONS: BEE CAUTION: If application cannot be avoided when target crops or weeds are in bloom, limiting applications to times when bees are least active, e.g. within 2 hours of sunrise or sunset, will minimize risk to bees. Notifying beekeepers within 1 mile of treatment area at least 48 hours before product is applied will allow them to take additional steps to protect their bees.

Do not apply within 2 days of harvest of ears, within 14 days of harvest or grazing of forage or within 48 days of harvest of fodder. Do not apply more than a total of 16 qts. per acre per crop per year. **Prohibition:** Do not enter or allow workers to enter treated areas to perform hand detasselling tasks until 21 days after application. Hand harvesting is prohibited.

Grain Sorghum

Repeat applications as necessary up to a total of 4 times per year at minimum 7 day intervals. Direct spray into forming heads for best results on of insects attacking heads.

Crop	Pest	This Product Per Acre (qts.)
Grain sorghum	Armyworms, Chinch bugs, Corn earworms, Fall armyworms, Stink bugs, Webworms	1 to 2
	SPECIFIC DIRECTIONS: For Chinch bug, use high gallonage at the base of the plants.	
	Southwestern corn borers	1.5
	Cutworms	2
	SPECIFIC DIRECTIONS: For Cutworm, this prod- uct is most effective against species which feed on the upper portions of the plant.	

RESTRICTIONS: BEE CAUTION: Do not apply this product to target crops or weeds in bloom.

Do not apply within 21 days of harvest for grain or fodder or within 14 days of harvest or grazing of forage or silage. Do not apply more than a total of 6 qts. per acre per crop per year.

Rice

Up to 2 applications can be made per year per crop at minimum 7 day intervals.

Crop	Pest	This Product Per Acre (qts.)
Rice	Armyworms, Chinch bugs, Fail armyworms, Leafhoppers, Stink bugs	1 to 1.5
	SPECIFIC DIRECTIONS: Up to 2 a per year may be made, but not mo every 7 days.	• • • • •
	Tadpole shrimp (CA Only)	1.5
	SPECIFIC DIRECTIONS: For best shrimp, apply to water when pest fi	
RESTRICTIONS : BEE CAUTION: Do not apply this product to target crops or weeds in bloom.		
more than a rice fields n herbicides	y within 14 days of harvest for grain or a total of 3 qts. per acre per crop per y nay kill shrimp, crabs and crayfish. Do within 15 days before or after applica ury may result.	ear. Discharge from o not apply propani

CUCURBIT VEGETABLES

Repeat applications as necessary up to a total of 6 times per year at minimum 7 day intervals.

minimum / day intervals.		
Сгор	Pest	This Product Per Acre (qts.)
All members of the	Melonworms,	0.5 to 1
Cucurbit Vegetables	Pickleworms	
Crop Group 9 including:	Cucumber beetles.	1
Momordica spp. (includes	Flea beetles.	
Balsam apple, Balsam	Leafhoppers.	
pear, Bitter melon,	Squash bugs	
Chinese cucumber),	SPECIFIC DIRECTIC	NO. For heat as
Chayote, Chinese	sults on of Squash b	
waxgourd (Chinese	cient spray volume	
preserving melon), Citron	coverage and time	
melon, Cucumber,	morning or late aftern	
Gherkin, Edible gourd	morning of late altern	00n.
(includes hyotan, cucuzza,		
hechima, Chinese okra),		
Muskmelon (includes		
hybrid and/or cultivars of		
Cucumis melo including		
Cantaloupe, true		. [
Cantaloupe, Casaba,		
Crenshaw melon, Golden		
pershaw melon,		[
Honeydew melon, Honey		
balls, Mango melon, Persian melon, Pineapple		
melon, Santa Claus		
melon, snake melon),		
Pumpkin, Squash		
(includes Summer squash		
types such as: crookneck		
squash, scallop squash,		
straightneck squash,		
vegetable marrow,		
Zucchini and Winter		
squash types such as		
Acorn squash, Butternut		
squash, Calabaza,		
Cushaw, Hubbard squash,		
and Spaghetti squash),		
Watermelon (includes		
hybrids and/or varieties of		
Citrullus lanatus)		
RESTRICTIONS: Do not apply within 3 days of harvest. Do not apply more than a total of 6 qts. per crop per acre per year. Observe "PLANT RESPONSE PRECAUTIONS". BEE CAUTION: Do not apply this prod-		

FLAX

uct to target crops or weeds in bloom.

Up to 2 applications can be made per crop per year at minimum 14 day intervals.

Сгор	Pest	This Product Per Acre (qts.)	
Flax (Except CA)	Armyworms	1 to 1.5	

RESTRICTIONS: Do not use in California. Do not apply within 42 days of harvest for seed or straw. Do not apply more than a total of 3 qts. per acre per crop per year. BEE CAUTION: Do not apply this product to target crops or weeds in bloom.

FORAGE CROPS

Alfalfa, Birdsfoot Trefoil, Clovers

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

Crop	Pest	This Product Per Acre (qts.)
Alfalfa, Birdsfoot trefoil,	Blister beetles, Mexican bean beetles	0.5 to 1
Clover	Alfalfa caterpillars, Bean leaf beetles, Cucumber beetles, Green cloverworms, Japanese beetles, Leafhoppers, Potato leafhoppers, Three-cornered al- falfa hoppers, Thrips, Vel- vetbean caterpillars	1
Alfalfa, Birdsfoot trefoil, Clover	Alfalfa blotch leafminers, Armyworms, Cloverhead weevils, Corn earworms, Cutworms, Egyptian alfalfa weevil larvae, Essex skippers, European alfalfa beetles, Fall armyworms, Lygus bugs, Stink bugs, Webworms, Yellowstriped armyworms SPECIFIC DIRECTIONS: For Cut	
	uct is most effective against spe on the upper portions of the plant	
	Alfalfa weevil larvae (West of the Rocky Mountains)	1 to 1.5
	SPECIFIC DIRECTIONS: For Al vae, if pre-treatment damage is e falfa and treat the stubble. This effective against adult Alfalfa wee	xtensive, cut Al- product is not
	Alfalfa weevil larvae (East of the Rocky Mountains)	1.5
	SPECIFIC DIRECTIONS: For Al vae, if pre-treatment damage is e falfa and treat the stubble. This effective against adult Alfalfa wee	xtensive, cut Al- product is not
RESTRICTIONS: BEE CAUTION: Do not apply this product to target crops or weeds in bloom. Observe <i>PLANT RESPONSE PRECAU</i> -		
<i>TIONS"</i> . Do not apply more than once per cutting per year. Do not apply within 7 days of baryest or grazing. Do not exceed 1.5 gts, per		

TIONS". Do not apply more than once per cutting per year. Do not apply within 7 days of harvest or grazing. Do not exceed 1.5 qts. per acre per cutting. Carbaryl may cause temporary bleaching of tender Alfalfa foliage.

Pastures and Grasses Grown for Hay and/or Seed

Up to 2 applications per year can be made at minimum 14 day intervals. Accurately mark swaths to avoid overapplication.

Crop	Pest	This Product Per Acre (qts.)
Pasture and Grasses grown for hay and/or seed	Armyworms, Cereal rust mite, Chinch bugs, Essex skippers, Fall armyworms, Striped grass loopers, Thrips, Range caterpil- lars, Range crane flies	1 to 1.5
	SPECIFIC DIRECTIONS: To kill Thrips in grasses grown for hay and/or seed, use high spray pres- sure to improve penetration into the boot.	
[Ticks	1
	SPECIFIC DIRECTIONS: Will kill ent at the time of application ar tacted by product.	
RESTRICTIONS: BEE CAUTION: Do not apply this product to target crops or weeds in bloom. Do not apply within 14 days of harvest or grazing. Do not exceed a total of 3 qts. per acre per year.		

RANGELAND

Do not make more than 1 application per year. Accurately mark swaths to avoid overapplication.

Site	Pest	This Product Per Acre (qts.)
Rangeland	Black grass bugs, Range caterpillars, Range crane flies	0.5 to 1
	Grasshoppers, Mormon crickets	0.5
	SPECIFIC DIRECTIONS: Aerial ar only through USDA APHIS ar grasshopper and Mormon cricke grams. Reduced Area and Agent is required. See the following w www.sidney.ars.usda.gove/Resear	nd affiliated state t suppression pro- Treatment (RAATs) rebsite for details:
	Ticks SPECIFIC DIRECTIONS: Will only	kill Ticks present at
	the time of application and directly co	
RESTRICTIONS: BEE CAUTION: Do not apply to target crops or weeds in bloom.		
May be harvested or grazed the same day of treatment. Do not apply more than 1 qt. per acre per crop per year.		

FRUITING VEGETABLES

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

Сгор	Pest	This Product Per Acre (qts.)
All members of the Fruiting Vegetables Crop Group 8 Including: Eggplant, Groundcherry, Pepinos, Pepper (includes: bell pepper, chili pepper, cooking pepper,	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
pimento, sweet pepper), Tomatillo, Tomato	SPECIFIC DIRECTIONS: age is essential to effective bugs.	~
	Flea beetles, Leafhoppers	0.5 to 1
•	Cutworms	2
	SPECIFIC DIRECTIONS: I product is most effective aga feed on the upper portions of	inst species which
RESTRICTIONS: BEE CAUTION: Do not apply to target crops or weeds in bloom. Do not apply within 3 days of harvest. Do not apply more than a total		

Do not apply within 3 days of harvest. Do not apply more than a total of 8 qts. per acre per crop per year.

LEAFY VEGETABLES

Repeat applications as necessary up to a total of 5 times per year at minimum 7 day intervals.

Сгор	Pest	This Product Per Acre (qts.)
Dandelion, Endive (escarole), Lettuce	Flea beetles, Harlequin bugs, Leafhoppers	0.5 to 1
(head and leaf), Parsley, Spinach, and All members of the	Armyworms, Aster leafhoppers, Corn earworms, Fall	1 to 2
Leaf Petioles Vegetables Subgroup 4B including: Cardoon, Celery, Celtuce, Chinese celery, Florence fennel	armyworms, Imported cabbageworms, Lygus bugs, Spittlebugs, Stink bugs, Tarnished plant bugs	
(including sweet anise, sweet fennel, Finocchio), Rhubarb, Swiss chard		

RESTRICTIONS: BEE CAUTION: Do not apply to target crops or weeds in bloom.

Do not apply within 14 days of harvest. Do not apply more than a total of 6 qts. per acre per crop per year.

LEGUME VEGETABLES

Repeat applications as necessary up to a total of 4 times per year at minimum 7 day intervals. Use lower rates for light to moderate populations and smaller instars. Use the higher rates for heavy populations and larger instars.

Use on fresh/succulent shelled beans and peas (Crop Subgroup 6B) is prohibited.

Сгор	Pest	This Product Per Acre (qts.)
All members of the Edible Podded Legume Vegetables Crop Subgroup 6A including: Phaseolus spp. including Runner bean, Snap bean, and Wax bean; Vigna spp.	Bean leaf beetles, Blister beetles, Cucumber beetles, Grape colapsis, Green cloverworms, Japanese beetles, Mexican bean beetles, Velvetbean caterpillars	0.5 to 1.0
Wax bean; <i>Vigna</i> spp. including Asparagus bean, Chinese longbean, Moth bean, and Yardlong bean; <i>Pisum</i> spp. including Dwarf pea, edible-pod Pea, Snow pea, Sugar snap pea; Jackbean; Pigeon pea; Soybean (immature seed); Sword bean All members of the Dried Shelled Legume Vegetables (except soybeans) Crop Subgroup 6C including: Lupinus spp.	Corn earworms Alfalfa caterpillars, Colorado potato beetles, Flea beetles, Leafhoppers, Threecornered alfalfa hoppers, Thrips, Western bean cutworms	0.5 to 1.5 1
	Armyworms, Cutworms, European corn borers, Fall armyworms, Stink bugs, Tarnished plant bugs, Webworms SPECIFIC DIRECTIONS this product is most e species which feed on the of the plant.	ffective against

This Product Crop Pest Per Acre (qts.) including Grain lupin, Alfalfa loopers 1.5 Sweet lupin, White (suppression), Cowpea lupin, and White sweet curculios (suppression), lupin; Phaseolus spp. Painted ladies (Thistle caterpillars), Pea leaf including Field bean, Kidney bean, dry Lima weevils, Pea weevils, bean, navy bean, pinto Saltmarsh caterpillars, Woollybear caterpillars, bean, tepary bean; Vigna spp. including Yellowstriped Adzuki bean, Blackarmyworms eved pea, Catjang, CA ONLY: 1.5 Cowpea, Crowder Corn earworms pea, Moth bean, Mung (suppression), bean, Rice bean, Limabean podborers Southern pea, Urd (suppression), Lygus bean; Pisum spp. bugs (suppression), including Dwarf pea, Stink bugs edible-podded pea, (suppression) English pea, Field pea, Garden pea, Green pea, Snow pea, Sugar snap pea; Broad bean (dry); Chickpea (dry); Guar (dry); Lablab bean (dry); Lentil (dry); Pigeon pea (dry) All members of the Foliage of Legume Vegetables Crop Group 7: Plant parts of any legume vegetables included in the legume vegetable (Crop Group 6) that will be used as animal feed; and Soybeans RESTRICTIONS: Do not apply within 14 days of grazing or harvest for forage or within 3 days of harvest of fresh edible-podded Beans or Peas or within 21 days of harvest of Dried beans or peas, seed or

(Cont.)

for forage or within 3 days of harvest of fresh edible-podded 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 per year. Do not apply a combination of this product and 2,4-DB herbicides to Soybeans, as crop injury may result. Observe "PLANT RE-SPONSE PRECAUTIONS". BEE CAUTION: For crops in bloom (except Soybeans): Do not apply this product to target crops or weeds in bloom. For Soybeans, if application cannot be avoided when target crops or weeds are in bloom, limiting applications to times when bees are least active, e.g. within 2 hours of sunrise or sunset, will minimize risk to bees. Notifying beekeepers within 1 mile of treatment area 48 hours before product is applied will allow them to take additional steps to protect their bees.

NON-CROPLAND

Up to 2 applications can be made per year at minimum 14 day intervals. Accurately mark swaths to avoid overapplication.

Site	Pest	This Product Per Acre (qts.)
Conservation Re-	Black grass bugs	0.25 to 0.5
serve Program		(0.2 to
Acreage, Set-Aside		0.4 fl. oz./
Program Acreage,		1,000 sq.ft.)
Wasteland, Rights-	Range caterpillars,	0.5 to 1.0
of-Way, Hedge	Range crane flies	(0.4 to
rows, Ditchbanks,		0.75 fl. oz./
Roadsides		1,000 sq. ft.)
	Mormon crickets	0.5 (0.4 fl. oz.
		per 1,000 sq. ft.)
	Ticks	1
		(0.75 fl. oz./
		1,000 sq. ft.)
	SPECIFIC DIRECTIONS present at the time of app contacted by product.	

RESTRICTIONS: 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. BEE CAUTION: Do not apply this product to target crops or weeds in bloom.

OKRA

Up to 4 applications can be made per year at minimum 6 day intervals.

Crop	Pest	This Product Per Acre (qts.)
Okra	Corn earworms, Stink bugs	1 to 1.5
	SPECIFIC DIRECTIONS: Apply using ground equipment in sufficient volume to ensure good coverage. For Grasshopper, refer to the "SPECIFIC PESTS ACROSS MULTIPLE SITES" section.	
RESTRICTIONS: Do not apply within 3 days of harvest. Do not apply		

more than a total of 6 qts. per acre per crop per year. BEE CAU-TION: Do not apply this product to target crops or weeds in bloom.

PEANUTS

Repeat applications as necessary up to a total of 5 times per year at minimum 7 day intervals.

Crop	Pest	This Prod- uct Per Acre (qts.)
Peanuts	Blister beetles, Mexican bean beetles	0.5 to 1
	Alfalfa caterpillars, Bean leaf beetles, Cucumber beetles, Green cloverworms, Japanese beetles, Leafhoppers, Red-necked peanutworms, Three-cornered alfalfa hoppers, Thrips, Velvetbean caterpillars	1
	SPECIFIC DIRECTIONS: For best resi use directed or banded sprays with spray nozzles. Ensure adequate covera derside of leaves.	hollow cone
	Armyworms, Corn earworms, Fall armyworms, Stink bugs, Webworms	1 to 1.5
	Whitefringed beetle adults, Cutworms	2
	SPECIFIC DIRECTIONS: For Cutworn is most effective against species whic upper portions of the plant.	
RESTRICTIONS: Observe "PLANT RESPONSE PRECAUTIONS". Do not apply within 14 days of harvest. Do not apply more than a total of 8 qts. per acre per crop per year. BEE CAUTION: Do not apply this product to target crops or weeds in bloom.		

PRICKLY PEAR CACTUS

Apply using ground equipment in sufficient volume to ensure good coverage. Up to 3 applications can be made per year at minimum 7 day intervals.

Сгор	Pest	This Product Per Acre (qts.)
Prickly pear	Cochineal scales (crawlers)	2
cactus	SPECIFIC DIRECTIONS: For Grasshopper, refer to the "SPECIFIC PESTS ACROSS MULTIPLE SITES" section.	
RESTRICTIONS: BEE CAUTION: Do not apply this product to target		
crops or weeds in bloom.		

Do not apply within 3 days of harvest. Do not apply more than a total of 6 qts. per acre per year.

ROOT AND TUBER CROPS (EXCEPT SUGAR BEETS AND SWEET POTATOES)

Repeat applications as necessary up to a total of 6 times per year at minimum 7 day intervals.

Сгор	Pest	This Product Per Acre (qts.)
All members of the Root and Tuber Veg-	Flea beetles, Leafhoppers	0.5 to 1
etables Crop Group 1 except sugar beets and sweet potatoes: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (sugar, root), Burdock (edible), Canna (edible, Queensland arrowroot), Carrot, Cassava (bitter & sweet), Celeriac (cel- ery root), Chayote (root), Chervil (turnip- rooted), Chicory, Chufa, Dasheen (taro), Ginger, Ginseng, Horseradish, Leren, Parsley (turnip- rooted), Parsnip, Po- tato, Radish, Oriental radish (daikon), Rutabaga, Salsify (black), Salsify (oyster plant), Salsify (Span- ish), Skirret, Tanier (co- coyam), Turmeric, Turnip, Yam bean (ji- cama, manoic pea), Yam (true) RESTRICTIONS: BEE C.	Armyworms, Aster leafhoppers, Colorado potato beetles, Com earworms, Cutworms, European corn borers, Fall armyworms, Lace bugs, Lygus bugs, Spittlebugs, Stink bugs, Tarnished plant bugs SPECIFIC DIRECTION this product is most species which feed on t of the plant.	effective against

RESTRICTIONS: BEE CAUTION: Do not apply this product to target crops or weeds in bloom.

Do not apply within 7 days of harvest. Do not apply more than a total of 6 qts. per acre per crop per year.

SMALL FRUITS AND BERRIES

(REI for Grapes Only–West of the Rocky Mountains = 6 days; East of the Rocky Mountains = 2 days for all activities except for grape girdling and cane turning. The REI is 6 days for grape girdling and cane turning.)

Repeat applications as necessary up to a total of 5 times per year at minimum 7 day intervals.

Сгор	Pest	This Product Per Acre (qts.)
All members of the	European fruit	1 to 2
Caneberry Crop	lecaniums,	
Subgroup 13-07A	European raspberry	
including: Blackberry	aphids, Flea beetles,	
(Rubus spp. including	Grape leaffolders,	
Andean blackberry, Artic	Grape leafrollers,	
blackberry, bingleberry,	Japanese beetles,	
black satin berry,	Leafhoppers,	
boysenberry,	Leafrollers, Meadow	
Brombeere, California	spittlebugs,	
		(Continued)

Сгор	Pest	This Product Per Acre (qts.)	
blackberry, Cherokee	Omnivorous		
blackberry,	leaftiers, Rose		
Chesterberry, Cheyenne	chafers, Snowy tree crickets, Strawberry		
blackberry, Common blackberry, Coryberry,	bud weevils,		
Darrowberry, Dewberry,	Strawberry clippers,		
Dirksen thornless berry,	Strawberry		
Evergreen blackberry,	fruitworms,		
Himalayaberry,	Strawberry		
Hullberry, Lavacaberry,	leafrollers,		
Loganberry, Lowberry, Lucretiaberry, Mammoth	Strawberry weevils, Western grapeleaf		
blackberry, Marionberry,	skeletonizers,		
Mora, Mures deronce,	Western		
Nectarberry, Northern	yellowstriped		
dewberry, Olallieberry,	armyworms		
Oregon evergreen berry,	SPECIFIC DIRECTIO		
phenomenalberry,	Grape leaffolder, app		
rangeberry, Ravenberry, Rossberry, Shawnee	brood larvae emerge f		
blackberry, Southern	Blueberry maggots,	1.5 to 2	
dewberry, Tayberry,	Cherry fruitworms, Cranberry fire-		
Youngberry, Zarzamora	worms, Cranberry		
plus cultivars, varieties	fruitworms,		
and/or hybrids of these);	Cranberry twig		
Raspberry (<i>Rubus</i> spp. including Bababerry,	girdlers, Elm		
black and red raspberry,	spanworms, Gypsy moths, Sparganothis		
Blackcap, Caneberry,	fruitworms,		
Framboise, Frambueso,	Tarnished plant bugs		
Himbeere, Keriberry,	Eightspotted	2	
Mayberry, Purple	foresters, Cutworms,		
raspberry, Thimbleberry,	Grape berry moths, June beetles,		
Tulameen, Wild raspberry, Yellow	Omnivorous		
raspberry plus cultivars,	leafrollers, Orange		
varieties and/or hybrids	tortrix, Raspberry		
of these).	fruitworms, Raspberry sawflies,		
All members of the	Redbanded		
Bushberry Crop	leafrollers,		
Subgroup 13-07B	Saltmarsh		
including: Aronia berry,	caterpillars		
Blueberry (<i>Vaccinium</i> spphighbush, lowbush	SPECIFIC DIRECTION this product is most	,	
and cultivars, and/or	species which feed on		
hybrids of these	of the plant.	-FF F	
[=blueberry species]),			
Chilean guava, Currant			
(black, buffalo, native,			
red), European barberry, Elderberny, Gooseberny			
Elderberry, Gooseberry, Highbush cranberry,			
Honeysuckle (edible),			
Jostaberry, Huckleberry,			
Juneberry, Lingonberry,			
Salal, Sea buckthorn,			
plus varieties and/or			
hybrids of these.			
Cranberries; Grapes; Strawberries			
RESTRICTIONS: BEE CA	UTION: Do not apply f	his product to tar-	
get crops or weeds in bloo			
mow orchard floor or betw	een rows prior to applyi	ing this product.	
Do not apply within 7 days		/ more than a total	
of 10 qts. per acre per cro		abe. Do not use in	
Note: Use on Cranberries areas where these are in			
Early dawn and Sunrise va	arieties of Strawberries.	In Grapes, do not	
concentrate spray on the bunch or visible residues may result.			

concentrate spray on the bunch or visible residues may result.

SUGAR BEETS

Repeat applications as necessary up to a total of 2 times per year at minimum 14 days intervals.

Сгор	Pest	This Product Per Acre (qts.)	
Sugar beets	Armyworms, Beet leaf beetles, Fall armyworms, Flea beetles, Leafhoppers, Webworms	1 to 1.5	
	Cutworms	1.5	
	SPECIFIC DIRECTIONS: F product is most effective again feed on the upper portions of	ainst species which	
RESTRICTIONS: BEE CAUTION: Do not apply this product to target crops or weeds in bloom.			

Do not apply within 28 days of harvest of roots or forage. Do not apply more than a total of 3 qts. per acre per crop per year.

SUNFLOWERS

Up to 2 applications can be made per year at minimum 7 day intervals

Crop	Pest	This Product Per Acre (qts.)
Sunflowers	Stem weevils, Sunflower beetles	1 to 1.5
	Armyworms, Cutworms, Fall armyworms, Sunflower moths	1.5
	SPECIFIC DIRECTIONS: F product is most effective which feed on the upper por	against species
RESTRICTIONS: BEE CAUTION: Do not apply this product to target crops or weeds in bloom. Do not apply within 30 days of grazing or harvest for forage or within 60 days of harvest for seed. Do not apply more than a total of 3 qts. per acre per crop per year.		

SWEET POTATOES

Up to 8 foliar applications can be made per year at minimum 7 day intervals.

Сгор	Pest	This Product Per Acre (qts.)
Sweet potatoes	Corn earworms, Cucumber beetles, Flea beetles, Sweet potato hornworms, Sweet potato weevils, Tortoise beetles, Whitefringed beetles	1 to 2
	Yellowstriped armyworms	2
RESTRICTIO	ONS: BEE CAUTION: Do not apply this	product to target

crops or weeds in bloom.

Do not apply within 7 days of harvest. Do not apply more than a total of 8 qts. per acre per crop per year.

TOBACCO (REI = 48 hours)

Plant Bed and Field Treatment – Repeat treatments as necessary up to a total of 4 times per year at minimum 7 day intervals. 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	This Product Per Acre (qts.)
Tobacco	Budworms, Fall armyworms, Hornworms, Japanese beetles, June beetles, Suckflies, Tobacco flea beetles	1 to 2
RESTRICTIONS: Do not apply within 2 days of harvest. Do not apply		
more than a total of 8 qts. per acre per crop per year. Observe		

"PLANT RESPONSE PRECAUTIONS". BEE CAUTION: Do not apply this product to target crops or weeds in bloom.

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. By air, use at least 10 gallons of spray mixture per acre for adequate distribution.

Citrus

(REI for Citrus in All States Other Than CA = 12 hours)

(REI for Citrus in CA = 3 days for application rates greater than or equal to 5 qts. per acre)

Сгор	Pest	This Product Per Acre (qts.)
All members of the Citrus Fruit Crop Group 10 includ- ing: Calamondin,	Avocado leafrollers, Cali- fornia orangedogs, Citrus cutworms, Fruittree leafrollers, Orange tortrix,	2 to 3
Citrus citron, Citrus	Western tussock moths	
hybrids (<i>Citrus</i> spp., includes chironja,	Citrus rust mites, Erio- phyid mites, Plant	3 to 5
tangelo and tangor), Grapefruit, Kumquat, Lemon, Lime, Man- darin (tangerine), Orange (sweet and sour), Pummelo,	bugs, Scale insects (Black scales, Brown soft scales, California red scales [except in CA], Citrus snow scales, Yellow scales	
Tangelo, Satsuma mandarin, White	[except in CA])	
sapote (<i>Casimiroa</i> spp.) and other culti- vars and/or hybrids	SPECIFIC DIRECTIONS when crawlers are presen phyid mites, including Citu when pest populations ar	t. For results on Erio- rus rust mites, apply
of these.	Apopka weevils (adult), Citrus root weevils	5
i	(adults), Fuller rose beetles, Little leaf notchers (adult)	
	Psyllid 1.5 to 3	
	SPECIFIC DIRECTIONS: Apply at the be- ginning and at the end of the overwintering period before the first spring flush of the year. Additional sprays are needed during the year just before each major flush in the grove or when an increase in Psyllid populations is observed. Use the lower rate on light to moderate in- festations, young plants and early instars. Use the higher rate on heavy infestations, mature plants, advanced instars and adults. Thorough and uniform spray coverage is es- sential for effective control.	
	CA Only: California red scales, Yellow scales	5 to 12
	SPECIFIC DIRECTIONS than 1 application per crc California red scale. Appl present.	p per year in CA for
	Florida Only: Adult citrus weevils (such as <i>Diaprepes</i> abbreviatus, <i>Pantomorus cervinus</i> , <i>Artipes floridanus</i> , and	5 to 8
	Pachnaeus spp.) SPECIFIC DIRECTIONS spray by ground as dil spray or by air in 10 to 2	ute or concentrate
	per acre.	
crops or weeds in bloc application will reduce Do not apply within 5 d	CAUTION: Do not apply to m. Mowing weed or cover hazard to bees. lays of harvest. Do not app r crop per year. Minimum	crop bloom prior to
is 14 days. All States except CA acre per application.	and FL: Do not apply m y more than 12 qts. per ac	ore than 5 qts. per

FL Only: Do not apply more than 8 qts. per acre per application.

Olives (REI = 72 hours)

(

Up to 2 applications can be made per crop per year at minimum 14 day intervals.

1/17

Crop	Pest	This Product Per Acre (qts.)
Olives	Scale insects (Black scales, Olive scales)	5 to 7.5
apply more the CAUTION: Do bloom. If weed	NS: Do not apply within 14 days an a total of 15 qts. per acre per not apply this product to target or cover crop bloom is present, m prior to applying this product.	crop per year. BEE crops or weeds in

Pome Fruits

Repeat applications as necessary up to a total of 8 times per crop per year including thinning sprays on Apples at minimum 14 day intervals.

Сгор	Pest	This Product Per Acre (qts.)
Members of	White apple leafhoppers	0.5 to 1.5
the Pome	Apple aphids, Codling moths	1 to 3
Fruit Group 11 including: Apples, Crab- apples, Pears, Loquats, Mayhaw, Oriental pears	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 cicadas, Plum curculios, Redbanded leafrollers, Rosy apple aphids, Scale insects (Forbes scales, Lecanium scales, San Jose scales), Tarnished plant bugs, Tentiform leafminers, Woolly apple aphids, Yellowheaded	1.5 to 3
	fireworms SPECIFIC DIRECTIONS: On A during the period from full bloom full bloom unless fruit thinning is pesticidal activity during this period fruit removal. For Psylla, apply w young nymphs are present. For crawlers are present.	until 30 days after s desired. Use for d also may result in hen eggs hatch or Scale, apply when
Apples Only, for fruit	SPECIFIC DIRECTIONS: Apply b	1 to 3
thinning	fall and 16 mm fruit size. Use the hard to thin varieties at the early 80% petal fall to 6 mm fruit size. L on easy to thin varieties and at the riod which is the 10 to 16 mm fruit use per acre will depend on varie spacing, weather conditions at the lowing applications. The most e lonage will depend on the size, pl spacing and amount of foliage. U volume to ensure adequate cov- gals. per acre). Avoid spray to the Reduce spray coverage to the the tree since overthinning ma Factors such as climatic temperation frost, tree age, variety, nutrition, p ing and bloom may influence fru- with the product. Exercise precau- sible overthinning. For most effect under good drying conditions a temperatures (°F) will be 70 to to lowing 1 to 3 days. Application peratures in excess of 80°F overthinning.	ne higher rates on timing which is the Jse the lower rates e later thinning pe- it size. The rate to tities, tree size, row the time of and fol- ffective spray gal- anting density, row les sufficient spray erage (100 to 400 he point of runoff. Iower portion of y occur here. ture, high humidity, revious crop, prun- uit thinning results titons to avoid pos- ctive results, apply and when daytime tow 80's for the fol- with daytime tem-
		(Continue d)
L		(Continued)

Crop	Pest This Prod Per Acre (
	This product may be mixed with however, use precautions to avoid other adverse effects. Consult wining experts in your area for rec appropriate tank mixing partners product labels for specific use di NOTE: The use of this product may formity under certain environmer fore using on any variety of App weigh the risk versus benefits while uct, particularly when using betwand 6 mm fruit size. Red Delicion tive to this phenomenon and in eties Bisbee, Red Chief and Va susceptible to conditions causi Precipitation and temperatures be the possibility of fruit deformity. mer spray oils and wetting agents risk of fruit deformity and injury. Consult with fruit thinning exper advice on using this product on eties under local growing conditi tions. Observe all restrictions of product for apple thinning.	d overthinning and vith local fruit thin- commendations or . Refer to the other rections. ay result in fruit de- ntal conditions. Be- les, the user musi- len using this prod- veen 80% petal fail- us are more sensi- particular, the vari- llee Spur are very ng fruit deformity elow 65°F increase the use with Sum- s may increase the ts in your area for specific apple vari- ons or other ques- on the use of this
tween the tigh fruit. Do not a a total of 15 of BEE CAUTIO n bloom. If v floor or betwo FOR APPLE bee hives fro	INS: Do not apply to Quince. Do not int flower cluster up to the 20 mm fru- ay result in undesirable fruit thinning upply within 3 days of harvest. Do no fts. per acre per crop per year. DN: Do not apply this product to targ weed or cover crop bloom is pres- een rows prior to applying this prod THINNING USE: Do not apply durin m orchard to be treated before app re hives from adjacent orchards wi	it size. Use during g and/or deformed ot apply more than let crops or weeds ent, mow orchard luct. Ig bloom. Remove lying this product.
Adjust defi rected into	AGEMENT: olication, follow the following drift mar ectors and aiming devices so that t the canopy. pward pointed nozzles when there	he spray is only di

. Do not allow the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows). For applications to the outside rows, only spray inward, toward the orchard.

STONE FRUITS

Up to 3 applications can be made per crop per year at minimum 7 day intervals. An additional application can be made during the dormant or delayed dormant timing.

Сгор	Pest	This Product Per Acre (qts.)
All members of the Stone Fruits Crop Group 12 including: Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh)	Apple pandemis, Black cherry aphids, Cherry fruitworms, Cherry maggots (Cherry fruit flies), Codling moths, Cucumber beetles, Eastern tent 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 twig borers, Periodical cicadas, Plum curculios, Prune leafhoppers,	2 to 3
		(Continued)

(Co

(Cont.)			
Сгор	Pest	This Product Per Acre (qts.)	
(Cont.)	Redbanded leafrollers,		
All members of	Rose chafers, Scale insects		
the Stone Fruits	(Brown soft scales, Forbes		
Crop Group 12	scales, Lecanium scales,		
including: Apricot,	Olive scales, Oystershell		
Cherry (including	scales, San Jose scales),		
sweet and tart),	Tarnished plant bugs,		
Nectarine, Peach,	Tussock moths, Variegated		
Plum (including	leafrollers		
Chickasaw,	SPECIFIC DIRECTIONS: Re	peat applications	
Damson and	as necessary, up to a total of		
Japanese),	but not more often than once		
Plumcot, Prune	additional application at the do		
(fresh)	dormant timing may be made		
	on Scale, apply when crawlers		
	Lesser peachtree borers, be		
	been found by thoroughly sp		
	tree trunks at weekly interv	als during moth	
	flight.		
	Peach twig borers, Scale	4 to 5	
	insects (Brown soft scales,		
	Forbes scales, Lecanium		
	scales, Olive scales,		
	Oystershell scales, San		
	Jose scales)		
	SPECIFIC DIRECTIONS: Fo	r dormant or de-	
	layed dormant timing, apply		
	with a recommended dorman	t oil. Refer to the	
	dormant oil product label for a	dditional use di-	
	rections and restrictions.		
	CA ONLY: Black cherry	3 to 4	
	aphids, Cherry fruitworms,		
	Cherry maggots (Cherry	ł	
	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,		
	Olive scales, Oystershell		
	scales, San Jose scales),		
	Tarnished plant bugs,		
	Tussock moths		
	SPECIFIC DIRECTIONS: Rep	eat applications	
	as necessary up to a total of 3		
	but not more often than once	1 1 1 1	
	An additional application at the		
	layed dormant timing may		
	Scale, apply when crawlers a		
RESTRICTIONS:			
	A: Do not apply within 3 days o		
apply more than 3 qt season.	s. per acre per application durin	g the production	
	ply within 1 day of harvest. Do	not apply more	
than 4 qts. per application during the production season.			
All States including CA: Do not apply more than a total of 14 gts.			
per acre per crop per year. 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.		

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per more than a total of 9 qts. per acre during the production season. BEE CAUTION: Do not apply this product to target crops or weeds in bloom. If weed or cover crop bloom is present, mow orchard floor or between rows prior to applying this product.

TREE NUT CROPS

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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.

Crop	Pest	This Product Per Acre (qts.)	
Pistachios	Armyworm (Except in	3 to 5	
	CA), Brown soft scales,		
	Lecanium scales,		
	Navel orangeworms		
	(Except in CA)	0. Downoth and Kore	
	SPECIFIC DIRECTION tions as necessary up to	5: Repeat applica-	
	crop per year (including		
	the dormant or delayed		
	minimum 7 day interval		
	when crawlers are prese		
	California Only:	. 3 to 6	
	Armyworm	1	
	Navel orangeworm SPECIFIC DIRECTIONS:	Apply by air in a min	
	imum of 20 gallons of wa		
	make more than 1 applica		
	rate of 6 quarts per acre		
	needed, make up to 3 ac		
	per crop per year at a ra		
	quarts per acre per appli	• • •	
	plications at the dormant		
	timing) at minimum 7 day		
	Scale insects SPECIFIC DIRECTIONS	4 to 5	
	layed dormant timing: App		
	dormant oil. Refer to dorn		
	for additional use direction	is and restrictions.	
	not apply within 14 days		
	al of 15 qts. per acre per ye		
	nt or delayed dormant timir not apply more than 5		
		ation. In California: Do not make more than 1 application at aximum rate of 6 qts. per acre per crop per year. For any addi-	
tional applications, do not apply more than 5 qts. per acre per appli-			
		. per acre per appli-	
cation. BEE CAUTIO	N: Do not apply this produ	. per acre per appli- ct to target crops or	
cation. BEE CAUTIO weeds in bloom. If w		, per acre per appli- ct to target crops or is present, mow or-	
cation. BEE CAUTIO weeds in bloom. If w	N: Do not apply this produ eed or cover crop bloom n rows prior to applying thi	, per acre per appli- ct to target crops or is present, mow or-	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee	N: Do not apply this produ eed or cover crop bloom n rows prior to applying thi Black margined aphids, Calico scales, Codling	b. per acre per appli- ct to target crops or is present, mow or- is product.	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14	N: Do not apply this produ eed or cover crop bloom n rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit	b. per acre per appli- ct to target crops or is present, mow or- is product.	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond,	N: Do not apply this produ eed or cover crop bloom n rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall	b. per acre per appli- ct to target crops or is present, mow or- is product.	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil	N: Do not apply this produ eed or cover crop bloom n rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit	b. per acre per appli- ct to target crops or is present, mow or- is product.	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut,	N: Do not apply this produ eed or cover crop bloom n rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers,	b. per acre per appli- ct to target crops or is present, mow or- is product.	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut,	N: Do not apply this produ eed or cover crop bloom n rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Frosted	b. per acre per appli- ct to target crops or is present, mow or- is product.	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert	N: Do not apply this produ eed or cover crop bloom n rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers,	e. per acre per appli- ct to target crops or is present, mow or- is product.	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut,	N: Do not apply this produ eed or cover crop bloom n rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser	e. per acre per appli- ct to target crops or is present, mow or- is product.	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan,	N: Do not apply this produ eed or cover crop bloom n rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser webworms, Navel	e. per acre per appli- ct to target crops or is present, mow or- is product.	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including	N: Do not apply this produ eed or cover crop bloom in n rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser webworms, Navel orangeworms, Peach	e. per acre per appli- ct to target crops or is present, mow or- is product.	
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cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including black and English (Persian)	N: Do not apply this produ eed or cover crop bloom in rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser webworms, Navel orangeworms, Peach twig borers, Pecan leaf phylloxeras, Pecan stem phylloxeras,	e. per acre per appli- ct to target crops or is present, mow or- is product.	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including black and English	N: Do not apply this produ eed or cover crop bloom in rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser webworms, Navel orangeworms, Peach twig borers, Pecan leaf phylloxeras, Pecan stem phylloxeras, Pecan nut	b. per acre per appli- ct to target crops or is present, mow or- is product.	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including black and English (Persian)	N: Do not apply this produ eed or cover crop bloom in rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser webworms, Navel orangeworms, Peach twig borers, Pecan leaf phylloxeras, Pecan stem phylloxeras, Pecan nut casebearers, Pecan	e. per acre per appli- ct to target crops or is present, mow or- is product.	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including black and English (Persian)	N: Do not apply this produ eed or cover crop bloom in rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser webworms, Navel orangeworms, Peach twig borers, Pecan stem phylloxeras, Pecan nut casebearers, Pecan spittlebugs, Pecan weevils, San Jose	e. per acre per appli- ct to target crops or is present, mow or- is product.	
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cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including black and English (Persian)	N: Do not apply this produ eed or cover crop bloom in rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser webworms, Navel orangeworms, Peach twig borers, Pecan leaf phylloxeras, Pecan stem phylloxeras, Pecan nut casebearers, Pecan spittlebugs, Pecan weevils, San Jose scales, Twig girdlers, Walnut caterpillars	. per acre per appli- ct to target crops or is present, mow or- is product. 2 to 5	
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cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including black and English (Persian)	N: Do not apply this produ eed or cover crop bloom in rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Navel orangeworms, Peach twig borers, Pecan leaf phylloxeras, Pecan stem phylloxeras, Pecan nut casebearers, Pecan spittlebugs, Pecan weevils, San Jose scales, Twig girdlers, Walnut caterpillars SPECIFIC DIRECTIONS: as necessary up to a tota (including any application delayed dormant timing) a	Repeat applications of 4 times per year is at the dormant or at minimum 7 day in-	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including black and English (Persian)	N: Do not apply this produ eed or cover crop bloom in rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser webworms, Navel orangeworms, Pecan twig borers, Pecan stem phylloxeras, Pecan nut casebearers, Pecan stem phylloxeras, Pecan stem phylloxeras, Pecan nut casebearers, Pecan sittlebugs, Pecan spittlebugs, Pecan spittlebugs, Pecan spittlebugs, Pecan secales, Twig girdlers, Walnut caterpillars SPECIFIC DIRECTIONS: as necessary up to a tota (including any application delayed dormant timing) a	Repeat applications of times per year of the times per year	
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cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including black and English (Persian)	N: Do not apply this produ eed or cover crop bloom in nows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Fosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser webworms, Navel orangeworms, Peach twig borers, Pecan leaf phylloxeras, Pecan stem phylloxeras, Pecan nut casebearers, Pecan stem phylloxeras, Pecan nut casebearers, Pecan stem phylloxeras, SPECIFIC DIRECTIONS: as necessary up to a tota (including any applicatior delayed dormant timip) a tervals. Use lower rates leaves. Use higher rates fruit and for higher infest	Repeat applications of 4 times per year is at the dormant or at minimum 7 day in- for pests attacking stations. For Scale,	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including black and English (Persian)	N: Do not apply this produ eed or cover crop bloom in rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser webworms, Navel orangeworms, Pecan twig borers, Pecan stem phylloxeras, Pecan nut casebearers, Pecan stem phylloxeras, Pecan nut casebearers, Pecan stem phylloxeras, Pecan stem phylloxeras, Pecan spittlebugs, Pecan spittlebugs, Pecan spittlebugs, Pecan spittlebugs, Pecan secales, Twig girdlers, Walnut caterpillars SPECIFIC DIRECTIONS: as necessary up to a tota (including any application delayed dormant timing) a tervals. Use lower rates leaves. Use higher rates	Repeat applications of 4 times per year of a the dormant or at minimum 7 day in- for pests attacking stations. For Scale, present. For Peach	
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cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including black and English (Persian)	N: Do not apply this produ eed or cover crop bloom in rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser webworms, Navel orangeworms, Peach twig borers, Pecan leaf phylloxeras, Pecan stem phylloxeras, Pecan nut casebearers, Pecan stem phylloxeras, Pecan stem phylloxeras, Pecan stem phylloxeras, Pecan stem spittlebugs, Pecan weevils, San Jose scales, Twig girdlers, Walnut caterpillars SPECIFIC DIRECTIONS: as necessary up to a tota (including any application delayed dormant timing) a tervals. Use lower rates leaves. Use higher rates fruit and for higher infer apply when crawlers are twig borers, best results w have been found by ma popcorn or petal fall sta	Repeat applications of 4 times per year of times per year s at the dormant or at minimum 7 day in- for pests attacking for pests attacking stations. For Scale, present. For Peach ith foliar applications inges when the May	
cation. BEE CAUTIO weeds in bloom. If w chard floor or betwee All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including black and English (Persian)	N: Do not apply this produ eed or cover crop bloom in rows prior to applying thi Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Navel orangeworms, Neach twig borers, Pecan leaf phylloxeras, Pecan stem phylloxeras, Pecan nut casebearers, Pecan stem phylloxeras, Pecan stem phylloxeras, Pecan secan spittlebugs, Pecan weevils, San Jose scales, Twig girdlers, Walnut caterpillars SPECIFIC DIRECTIONS: as necessary up to a tota (including any application delayed dormant timing) a tervals. Use lower rates leaves. Use higher rates fruit and for higher infea apply when crawlers are twig borers, best results w have been found by ma	Repeat applications of 4 times per year of times per year s at the dormant or at minimum 7 day in- for pests attacking for pests attacking stations. For Scale, present. For Peach ith foliar applications king applications in ges when the May	

Сгор	Pest	This Product Per Acre (qts.)
Cont.) All members of the Free Nuts Crop Group 14 ncluding: Almond, Beech nut, Brazil hut, Butternut, Cashew, Chestnut, Chinquapin, Filbert hazelnut), Hickory hut, Macadamia nut	in Almonds and Walnuts, best results hav been found by timing early and mid-season ap plications to correspond with moth flight peaks For Filbert leafrollers, best results have bee found by making applications when eggs ar hatching, repeating application in first appear ance of moths and again 3 to 4 weeks later. For Codling moths in Walnuts, best results hav been found by making applications when av erage cross-sectional diameters of developin nuts are one-half to three-fourths inches an	
bush nut), Pecan, Valnut [including black and English Persian)	Chestnut weevils, Eu- ropean earwigs SPECIFIC DIRECTIONS vils, best results have be	
valnuts]	plications at weekly inten July. The last applicatio prior to shuck split. For thorough coverage of tri nuts is needed for best m	vals beginning in late on should be made European earwigs, unks, branches and
Almonds Only	Peach twig borers, Scale insects	4 to 5
	SPECIFIC DIRECTIONS: For dormant or de- layed dormant timing, apply in combination with recommended dormant oil. Refer to the dormant oil product label for additional use di- rections and restrictions.	

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of 15 qts. per acre per crop per year including any applications at the dormant or delayed dormant timing.

FORESTED AREAS AND RANGELAND TREES

Up to 2 spray applications can be made per year at minimum 7 day intervals and 2 direct trunk treatments per year at 6 month intervals. Apply in sufficient volume for adequate coverage by ground or air equipment. This will vary depending on the tree size, density and stage of growth.

Crop/Site	Pest	This Product Per Acre (qts.)
Forests, Tree plantations, Planted Christmas trees, Parks, Rural shelter belts, Rangeland trees	Ants*, Apple aphids, Armyworms, Ash whiteflies, Azalea leafminers, Bagworms, Balsam twig aphids, Birch leafminers, Blister beetles, Boxelder bugs, Boxwood leafminers, Browntail moths, Cankerworms, Catalpa sphinx, Chiggers**, Cooley spruce gall adelgids, Cutworms, Cypress tip moths, Douglas-fir tussock moths, Douglas-fir tussock moths, Eastern spruce gall adelgids, Elm leaf aphids, Elm leaf beetles, Elm 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, Lace bugs,	1 (0.75 fl. oz./ 1,000 sq. ft.)
		(Continued)

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Crop/Site	Pest	This Product Per Acre (qts.)
·	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 toopers, Pine sawflies, Pine spittlebugs, Pitch pine tip moths, Plant bugs, Poinsettia hornworms, Rose aphids, Rose chafers, Rose slugs, Saddled prominents, Saw- flies (exposed), Scale insects (crawlers), Sowbugs, Spiney elm caterpillars, Spring-tails, Spruce budworms, Spruce needle-miners, Subtropical pine tip moths, Tent caterpillars, Thornbugs, Thrips (exposed), Walnut caterpillars, Webworms,	
	Spruce budworms, Spruce needle-miners, Subtropical pine tip moths, Tent caterpillars, Thornbugs, Thrips (exposed), Walnut	Obtain thorough cover rfaces. The addition ct performance. To l
	tion to plant foliage. For best i when pests are small. Make a leafcutters on Sugar maple w instar after mining and as case *Except carpenter, harvester at **Will kill only pest that are pre plication and directly contacted	results on Worm, tre applications for Mar hen larvae are in 2 es are being formed nd Pharaoh. sent at the time of a
	Gypsy moths	0.75 to 1 (0.5 to 0.75 fl. oz./ 1,000 sq. ft.)
	SPECIFIC DIRECTIONS: For higher rate for heavy infesta ments as necessary, up to a year, but not more often than	ations. Repeat treat treat total of 2 times p
	Ticks	1 (0.75 fl. oz./ 1,000 sq. ft.)
	SPECIFIC DIRECTIONS: Will at the time of application and t	

Elm bark beetles, lps	
engraver beetles, Mountain pine beetles, Roundheaded pine beetles, Spruce beetles, Western pine beetles	5 fl. ozs. per gal.
SPECIFIC DIRECTIONS: Dire - Effective as a preventative annually as required to pre- Apply 1 gal. of spray per 50 s Beetle flight or host-tree atta from ground level up, until tr than 5 inches. For Elm bark b imately 20 to 30 gals. of spra- ft. of bark for thorough coverage on trunks, limbs, and twigs.	treatment only. Trea vent Beetle attack sq. ft. of bark prior t ack. Treat tree trun unk diameter is les eetles, apply approx y mixture for each 5

Do not enter or allow others to enter treated areas until sprays have dried:

ORNAMENTAL TREES AND PLANTS

(REI = 12 hours; EXCEPTION: The REI is 18 days for ornamentals grown for cuttings (cut flowers or cut foliage) where production is in outdoor areas and where average annual rainfall is less than 25 inches a year. Notify workers of the application and REI by warning them orally and by posting warning signs at entrances to treated area. Note: Information on average annual rainfall for your area is available from any nearby weather bureau, such as one located at a local airport or one affiliated with the National Oceanographic and Atmospheric Administration (NOAA).

Up to 6 spray applications can be made per year at minimum 7 day intervals. Up to 2 direct trunk treatments can be made per year at minimum 6 month intervals.

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

Crop/Site	Pest	This Product Per Acre (qts.)
Ornamental Trees and Plants: Roses, Flowers, Other Herbaceous plants, Evergreens, and Woody plants, Shrubs	Ants*, Apple aphids, Armyworms, Ash whiteflies, Azalea leafminers, Bagworms, Balsam twig aphids, Birch leafminers, Blister beetles, Boxelder bugs, Boxwood leafminers, Browntail moths, Cankerworms, Catalpa sphinx, Chiggers**, Cooley spruce gall adelgids, Cutworms, Cypress tip moths, Douglas-fir tussock moth, Eastern spruce gall adelgids, Elm leaf aphids, Elm leaf beetles, Elm 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 nipple-gall makers, Holly bud moths, Holly leafminers, Jack pine budworms, Japanese beetles, Jeffrey pine needleminers, June beetles, Leaf pollers, Locust borers, Maple leafcutters, Mealybugs,	1 qt. per acre -OR- per 100 gal. (0.75 fl. oz./ 1,000 sq. ft.)
		(Continued)

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(Cont.)		
Crop/Site	Pest	This Product Per Acre (qts.)
	Mimosa 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 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, Thrips (exposed), Walnut caterpillars, Webworms, Western spruce budworm, Willow leaf beetles, Woolly gall aphids, Yellow-poplar weevils SPECIFIC DIRECTIONS: Obse <i>SPONSE PRECAUTIONS</i> : Obse <i>SPONSE PRECAUTIONS</i> : Obse addition of a sticker may impr formance. To kill Scale insects, t and twigs in addition to plant fol sults on Worm, treat when pest application for Maple leafcutters when larvae are in 2nd instar af cases are being formed. * Except carpenter, harvester a ** Will only kill pests that are pre- application and directly contact Gypsy moths	tain thorough cov- af surfaces. The ove product per- reat trunks, stems iage. For best re- s are small. Make s on Sugar maple ter mining and as and Pharaoh. sent at the time of
		(0.5 to 0.75 fl. oz./ 1,000 sq. ft.)
	SPECIFIC DIRECTIONS: For G the higher rate for heavy infesta	itions.
	Ticks	1 quart per acre or per 100 gal. (0.75 fl. oz./ 1,000 sq.ft.)
	SPECIFIC DIRECTIONS: Will o ent at time of application and o by product.	
	h	(Continued)

Cont.) Crop/Site	Pest	This Product Per Acre (qts.)	
	Elm bark beetles, Ips en- graver beetles, Mountain pine beetles, Roundheaded pine beetles, Spruce beetles, Western pine beetles	5 fl. ozs. per gal.	
	- Effective as a preventative tree annually to prevent Beetle attact spray per 50 sq. ft. of bark prior host-tree attack. Treat tree trunk up, until trunk diameter is less the Elm bark beetles, apply approx gals. of spray mixture for each 50 thorough coverage of all bark so limbs, and twigs.	RECTIONS: Direct Trunk Treatment a preventative treatment only. Treat revent Beetle attacks. Apply 1 gal. of sq. ft. of bark prior to Beetle flight or ck. Treat tree trunk from ground level diameter is less than 5 inches. For etles, apply approximately 20 to 30 mixture for each 50 ft. of Elm tree for erage of all bark surfaces on trunks,	
crops or weeds i	: BEE CAUTION: Do not apply this n bloom. syrup-producing Sugar maples w	_	

Do not enter or allow others to enter treated areas until sprays have dried.

TURFGRASS

(REI for Turf grown for Sod production = 24 hours)

Do not apply more than a total of 16 qts. per acre per year. Do not apply by air or by chemigation. Broadcast applications to Turfgrass are permitted only on Golf courses, Sod farms, Cemeteries, and Commercial landscapes. Applications to all other lawns or turf (residential settings) are limited to spot treatments. Apply the specified rates using ground pressure-type equipment in sufficient spray volume for thorough coverage and thatch penetration.

Site	Pest	This Product
Golf turf, Sports fields, Sod farms, Domestic and Commercial lawns, Ceme- teries, Parks, Campsites, Recreational areas	Ants (except carpenter, harvester and Pharaoh)*, Armyworms, Cutworms, Essex skippers, Euro- pean chafers, Fall army- worms, Fiery skippers, Grasshoppers, Green June beetle larvae, Leafhoppers, Lucerne moths, Millipedes, Mos- quitoes (adults)*, Scarab beetle adults (May bee- tles, June beetles, Japanese beetles, Green June beetles), Sowbugs, Spittlebugs, Springtails, Yellowstriped army- worms	Per Acre (qts.) 2 to 4 (1.5 to 3 fl. ozs. per 1,000 sq. fl.)
	SPECIFIC DIRECTIONS: F and Fall armyworm: Do no within 24 hours following ins Green June beetle grub (lau when grubs are feeding nee or irrigate turfgrass within 4 Ticks*	ot irrigate treated areas secticide application. For rvae): Make applications ar the soil surface. Water 18 hours after treatment. 1 (0.75 fl. oz.
	Centipedes*, Chigger*, Earwigs*	per 1,000 sq. ft.) 4 (3 ft.ozo
	, , , , , , , , , , , , , , , , , , ,	(3 fl. ozs. per 1,000 sq. ft.)
in bloom.	S: BEE CAUTION: Do not ap tions as necessary up to 4	

more often than once every 7 days. Do not allow public use of treated areas during applications or until sprays have dried. *Will kill only pests that are present at the time of application and directly contacted by product.

⁽Continued)

(Cont.)		
Site	Pest	This Product Per Acre (qts.)
Golf turf, Sports fields, Sod farms, Domestic and Commercial lawns, Cemeteries, Parks.	Chinch bugs, Sod web- worms (Lawn moths) SPECIFIC DIRECTIONS: For Chinch bug: Treat entire grass area rather than just damaged areas. Irrigatior prior to treatment will aid in penetration of insecticide into Turfgrass. Do not irrigate treated areas within 24 hours following insecticide application.	
Campsites, Recreational areas	Bluegrass billbug larvae, European crane flies, White grubs (such as Japanese beetles, Chafer beetles and <i>Phyl-</i> <i>lophaga</i> spp. larvae), Black turfgrass ataenius beetle larvae, Hyperodes weevils (Bluegrass wee- vil) larvae, Springtails (6 fl. ozs. per 1,000 sq. ft.) SPECIFIC DIRECTIONS: For European Crane FI Apply in early Spring (April 1 to April 15) or at tir ing recommended by local Agricultural Extension Service Agents. Water or irrigate Turfgrass within 4 8 hours after treatment. For White grub: Apply when Grubs are feeding ne the soil surface, usually during late March throug May or July through early September or at timir as recommended by local Agricultural Extension Service Agents. Water or irrigate turfgrass within 4 hours after treatment.	
	Fleas*	8 (6 fl. ozs. per 1,000 sq. ft.)

in bloom.

Repeat applications as necessary up to 2 times per year but no more often than once every 7 days. Do not enter or allow others to enter treated areas until sprays have dried.

* Will kill only pests present at the time of application and directly contacted by product.

SPECIFIC PESTS ACROSS MULTIPLE SITES Grasshoppers

Сгор	Pest	This Product Per Acre (qts.)	
All crops on this	Grasshoppers	Grasshoppers 0.5 to 1.5	
labels	SPECIFIC DIRECTIONS: Apply 0.5 to 0.7 qts. per acre for nymphs on small plants of sparse vegetation. Apply 1 to 1.5 qts. per acr for mature grasshoppers or applications to dense foliage. Be certain spray volumes ar appropriate to assure adequate coverage.		

RESTRICTIONS:

Refer to individual site listing elsewhere on this label for use limitations and restrictions. Do not use rates higher than listed for the site or exceed other use restrictions. Observe all use restrictions.

Imported Fire Ants

Crop/Site	Pest	This Product Per Gallon of Water	
All crops/sites on this label	Imported fire ants	0.75 fl. oz. per gal.	
	SPECIFIC DIRECTIONS tion: To kill active mounds gals. of the diluted solution of each mound or at least of mound diameter using other appropriate equipin wet mound and surround diameter (12 sq. ft.). Do prior to treatment. Pour height of about 3 ft. to give break mound apex and flo For best results, apply in to 80°F) or in early morni hours. Repeat application resumes after 30 days. T as they appear. Pressurize turb the Ants and cause in product effectiveness.	s, apply a total of 2 in over the surface of a bucket, can or ment. Thoroughly ing areas to a 4-ft, not disturb mound r solution from a e sufficient force to w into Ant tunnels. cool weather (65 ng or late evening of if mound activity reat new mounds ed sprays may dis- nigration, reducing	
	Imported fire ants 1.5 fl. ozs. (foraging) gal.		
	SPECIFIC DIRECTIONS: cation (outdoor use onl growing media when u plants and avoid contact w	ly)*: Treat only the using on bedding	

* Broadcast applications to turfgrass are permitted only on golf courses, sod farms, cemeteries, and commercial landscapes. Applications to all other lawns or turf (residential settings) are limited to spot treatments.

Note: Do not use on any food crop not listed on this label. Refer to specific site use directions elsewhere on this label for additional restrictions.

Ticks which may Vector Lyme Disease

To kill juvenile and adult Ticks which may vector Lyme Disease, apply the specified amount in sufficient volume for thorough coverage. This product will kill only Ticks that are present at the time of application and directly contacted by product. Up to 4 applications per year can be made.

Crop/Site	Pest	This Product Per Acre (qts.)
All crops on this label, Pastures, Forested areas, Wasteland, Rights-of way, Hedgerows,	<i>Ixodes</i> spp. (Deer ticks, Bear ticks, Black legged ticks), <i>Amblyomma</i> spp. (Lone star ticks)	1 (0.75 fl. oz. per 1,000 sq. fl.)
Ditchbanks, Roadsides, Set-Aside and Conservation Reserve Program Acreage, Ornamental trees and plants, Turfgrass*	SPECIFIC DIRECTIONS: To kill juvenile Ticks, apply in late Spring or early Summer. To kill adult Ticks, apply in late Summer to Fall. Treat entire area and perimeter areas where exposure to Ticks may occur. Ticks may be reintroduced from surrounding areas on host animals. Retreat as necessary to main- tain low population levels.	

RESTRICTIONS: Do not enter or allow others to enter treated areas until sprays have dried.

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. If product is used to kill Ticks on any use site listed on this label, the use rate must not exceed 1 qt. per acre (0.75 fl. oz. per 1,000 sq. ft.). Observe all use restrictions.

*Broadcast applications to Turfgrass are permitted only on Golf courses, Sod farms, Cemeteries, and Commercial landscapes. Applications to all other lawns or turf (residential settings) are limited to spot treatments.

NUISANCE PESTS

PERIMETER TREATMENT – To kill Ants*, Bees* and Wasps*, Brown dog ticks*, Centipedes*, Cockroaches*, Crickets, Darkling beetles (Lesser mealworms or Litter beetles), Earwigs, Firebrats, Silverfish, Fleas*, Millipedes, Scorpions*, and Spiders*, mix 2.5 fluid ounces of this product per gallon of water and apply as a coarse wet spray in a band of 6 to 10 feet wide around the outside perimeter of buildings contacting as many pests as possible.

Confine to areas immediately adjacent to the structure. Direct applications to the outside of the structure should be minimal and restricted to cracks and crevices and areas where insects tend to congregate.

For use in and around flower beds and ornamental plantings, apply as a coarse wet spray in and around plant beds.

RESTRICTIONS:

- Do not enter or allow others to enter treated areas until sprays have dried.
- Do not make more than 4 applications per year. Do not apply more often than once every 7 days.
- NOTE: Staining may occur on certain surfaces such as brick, carpet, cinder block, fabrics, stucco, and wood. Spray deposits on painted or stained surfaces of finishes (e.g., boats, cars, house trailers, 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. For outdoor use only.

Observe "PLANT RESPONSE PRECAUTIONS".

 Will kill only pests present at time of application and directly contacted by product.

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 area out of reach of children and animals. Do not store in areas where temperatures frequently exceed 100°F. If container is damaged, before cleaning up, put on Personal Protective Equipment (PPE).

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:

Nonrefillable Container (rigid material; less than 5 gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container one-fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times: Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable Container (rigid material; 5 gallons or greater): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Refillable Containers:

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or mix this rinsing procedure two more times.

WARRANTY— CONDITIONS OF SALE

OUR DIRECTIONS 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 specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

To the extent consistent with applicable law, 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.

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