

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

April 4, 2017

Ms. Luz G. Chan Registration Manager Drexel Chemical Company P.O. Box 13327 Memphis, TN 38113

Subject: Label and CSF Amendment – Correcting the percentage of active ingredient on

Basic and Alternate CSFs and label Product Name: Drexel Carbaryl 4L EPA Registration Number: 19713-49 Application Date: December 16, 2016

Decision Number: 525267

Dear Ms. Chan:

The amended label and CSFs referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Please note that the record for this product currently contains the following CSFs:

- Basic CSF dated 12/16/2016
- Alternate CSF 1 dated 12/16/2016

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process.

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Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Eric Bohnenblust by phone at (703) 347-0426, or via email at Bohnenblust.eric@epa.gov.

Sincerely,

Richard Gebken Product Manager 10

Invertebrate & Vertebrate Branch 2

Registration Division (7505P)

Office of Pesticide Programs

Enclosure

ACCEPTED

04/04/2017

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No.

19713-49



GROUP 1A INSECTICIDE

Carbaryl 4L

Intended For Agricultural or Commercial Use.

ACTIVE INGREDIENT:

Carbaryl	42.6%
OTHER INGREDIENTS:	57.4%
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]

ATTENTION: This product contains a chemical known to the State of California to cause cancer and reproductive harm in laboratory animals.

EPA Reg. No. 19713-49 EPA Est. No. 19713-GA-2

Net Content: 2.5 Gals. (9.46 L)

FIRST AID

IF SWALLOWED:

- Immediately call a poison control center or doctor for treatment advice
- Have person sip a glass of water if able to swallow.
- · Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious or convulsing person.

IF 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.

- 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. You may also call CHEMTREC at 800-424-9300 for medical emergency.

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.

(Continued)

PRECAUTIONARY STATEMENTS (Cont.) PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material.

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 made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ mils, polyethlene, polyvinyl chloride ≥ 14 mils or viton ≥ 14 mils, chemical-resistant footwear plus socks, chemicalresistant headgear and a NIOSH approved particulate respirator with any N, R or P filter, NIOSH approval number prefix TC-84A or a NIOSH approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C.

All other mixers, loaders, applicators and handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemicalresistant 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 NIOSH approved dust/mist filtering respirator with a NIOSH approved particulate respirator with any N, R or P filter, NIOSH approval number prefix TC-84A; or a NIOSH approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C.

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.

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 particulate respirator with any N R or P filter, NIOSH approval number prefix TC-84A; or a NIOSH approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C 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;

(Continued)



Manufactured By **Drexel Chemical Company** P.O. Box 13327, Memphis, TN 38113-0327

SINCE 1972

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ENGINEERING CONTROLS (Cont.)

- take off any PPE that was worn in the treated area before re-entering 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 a NIOSH approved particulate respirator with any N, R or P filter, NIOSH approval number prefix TC-84A; or a NIOSH approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C 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 re-entering 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

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 chemical-resistant 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.

RESISTANCE MANAGEMENT

GROUP 1A INSECTICIDE

Carbaryl 4L contains a Group 1A insecticide. Insect biotypes with acquired resistance to Group 1A may eventually dominate the insect population if Group 1A insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by this product or other Group 1A insecticides.

To delay insecticide resistance, consider:

- Avoiding the consecutive use of this product or other Group 1A insecticides that have similar target site of action on the same insect species.
- Using tank-mixtures or pre-mixes with insecticides from a different target site action Group as long as the involved products are all registered for the same use and have different sites of action.
- · Basing insecticide use on a comprehensive IPM program.
- · Monitoring treated insect populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for insecticide resistance management and/or IPM recommendations for specific site and resistant pest problems.

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

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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 three-fourths 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 deliver 0.1 to 0.3 inches of water per acre. Start sprinkler and uniformly inject the suspension of this product into the irrigation

water line so as to deliver the desired rate per acre. The suspension of this product should be injected with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. If you should have any other questions about calibration, you should contact your State Extension Service Specialists, equipment manufacturers or other experts.

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

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.

Systems Connected to Public Water Systems:

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection.

The pesticide injection pipeline must 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, or in cases where there is no water pump, 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, 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.

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Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the above 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

Crop	Pest	This Product Per Acre (qts.)
Asparagus	Apache cicadas, Asparagus beetles, Cutworms	1
	SPECIFIC DIRECTIONS: Apply prior to harvest. Repeat applications as necessary up to a total of 3 times prior to harvest or a total of 5 applications per year to spears and ferns combined. Do not apply more than once every 3 days. Do not apply within 1 day of harvest. For Cutworm, this product is most effective against species which feed on the upper portions of the plant.	
	Apache cicadas, Asparagus beetles, Cutworms	2
SPECIFIC DIRECTIONS: Applications after harvest: Apply to ferns or brush growth following harvest of spears. Repeat applications as necessary at minimum 7 day intervals. Do not make more than a total of 5 applications per year to spears and ferns combined.		
RESTRICTIONS: BEE CAUTION: Do not apply this product to		

BRASSICA (Leafy Vegetables)

target crops or weeds in bloom.

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	Flea beetles,	0.5 to 1
Brassica leafy vegetable	Harlequin bugs,	
Group 5 including:	Leafhoppers	
Broccoli, Broccoli raab	Armyworms,	1 to 2
(Rapini), Brussels sprouts,	Aster leafhoppers,	
Cauliflower, Cabbage,	Corn earworms,	
Cavalo broccolo, Chinese	Diamondback	
broccoli (Gai Ion), Chinese	moth, Fall	
cabbage (Bok choy),	armyworms,	
Chinese cabbage (Napa),	Imported	
Chinese mustard cabbage	cabbageworms,	
(Gai choy), Collards, Kale,	Lygus bugs,	
Kohlrabi, Mizuna, Mustard	Spittlebugs, Stink	
greens, Mustard spinach,	bugs, Tarnished	
Rape greens, Turnip greens	plant bugs	
		(Continued)

(Cont.)		
Cron	Deat	This Product
Crop	Pest	Per Acre (ats.)

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.

Crop	Pest	This Product Per Acre (qts.)
Field corn, Popcorn	Armyworms, Chinch bugs, Corn earworms, Corn rootworm adults, Fall armyworms, Flea beetles, Japanese beetles, Sap beetles, Southwestern corn borers, Leafhoppers	1 to 2
	SPECIFIC DIRECTIONS: For Chinch bug, use ground equipmer 20 gals. of water per acre and distalk to provide thorough coverage	nt to apply at least rect spray toward
	European corn borers	1.5 to 2
	SPECIFIC DIRECTIONS: For best re	esults on European
	corn borer, do not apply in less than	3 gals. of water per
	acre by air and 15 gals. of water by	
	Cutworms, Western bean cutworms	2
	SPECIFIC DIRECTIONS: For	best results on
	Cutworm, apply in a 12 inch ba	School and Company of the State of the Company of t
	using sufficient volume of water to coverage. For broadcast application	•
	gals. by ground or 5 gals. by air per a	acre. For Cutworm,
	this product is most effective agai	nst species which
	feed on the upper portions of the p	
	bean cutworms, treat when infestation averages 15%	
	and at 90 to 100% tassel emergend	
	100% silk emergence will reduce e	ffectiveness.

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 more than a total of 8 qts. per acre per crop per year. Do not 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 harvesting is prohibited.

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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.

Pest	This Product Per Acre (qts.)
Armyworms, Chinch bugs, Corn earworms, Corn rootworm adults, Fall armyworms, Flea beetles, Japanese beetles, Leafhoppers, Sap	1 to 2
SPECIFIC DIRECTIONS: For Chinch bug, use ground equipmer 20 gals. of water per acre and directions.	nt to apply at least rect spray toward
European corn borers	1.5 to 2
corn borer, do not apply in less than	3 gals. of water per
Cutworms, Western bean cutworms	2
Cutworm, apply in a 12 inch ba using a sufficient volume of water t coverage. For broadcast application gals. by ground or 5 gals. by air per a this product is most effective again feed on the upper portions of the p bean cutworms, treat when infestat	o obtain thorough n, use at least 20 cre. For Cutworm, nst species which plant. For Western ion averages 15% e. Treatment after
	Armyworms, Chinch bugs, Corn earworms, Corn rootworm adults, Fall armyworms, Flea beetles, Japanese beetles, Leafhoppers, Sap beetles, Southwestern corn borers SPECIFIC DIRECTIONS: For Chinch bug, use ground equipmer 20 gals. of water per acre and directly stalk to provide thorough coverage European corn borers SPECIFIC DIRECTIONS: For best recorn borer, do not apply in less than acre by air and 15 gals. of water by Cutworms, Western bean cutworms SPECIFIC DIRECTIONS: For Cutworm, apply in a 12 inch bausing a sufficient volume of water to coverage. For broadcast application gals. by ground or 5 gals. by air per at this product is most effective again feed on the upper portions of the pbean cutworms, treat when infestat and at 90 to 100% tassel emergence.

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 gts. 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 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 g at the base of the plants.	
	Southwestern corn borers	1.5
	Cutworms	2
	SPECIFIC DIRECTIONS: For product is most effective agains feed on the upper portions of the	st species which

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

Crop	Pest	This Product Per Acre (qts.)
Rice	Armyworms, Chinch bugs, Fall armyworms, Leafhoppers, Stink bugs	1 to 1.5
	SPECIFIC DIRECTIONS: Up to 2 crop per year may be made, buthan once every 7 days.	
	Tadpole shrimp (CA Only)	1.5
	SPECIFIC DIRECTIONS: For	best results on
	Tadpole shrimp, apply to water appears.	when pest first

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

Do not apply within 14 days of harvest for grain or straw. Do not apply more than a total of 3 qts. per acre per crop per year. Discharge from Rice fields may kill shrimp, crabs and crayfish. Do not apply propanil herbicides within 15 days before or after application of this product, or plant injury may result.

CUCURBIT VEGETABLES

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

6	Dood	This Product
Crop	Pest	Per Acre (qts.)
All members of the Cucurbit	Melonworms,	0.5 to 1
Vegetables Crop Group 9	Pickleworms	1
including: Momordica spp.	Cucumber	
(includes Balsam apple, Balsam	beetles, Flea	
pear, Bitter melon, Chinese	beetles,	
cucumber), Chayote, Chinese	Leafhoppers,	
waxgourd (Chinese preserving	Squash bugs	
melon), Citron melon, Cucumber,	SPECIFIC D	IRECTIONS: For
Gherkin, Edible gourd (includes	best results	on Squash bugs,
Hyotan, Cucuzza, Hechima,	apply suffici	ent spray volume
Chinese okra), Muskmelon (includes	for thoroug	h coverage and
hybrid and/or cultivars of Cucumis		for early morning
melo including Cantaloupe, true	or late aftern	noon.
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)	<u> </u>	Chaminat Day 1
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		
"DI ANT PESPONSE PRECAUTION		

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

FLAX

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

Crop	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.

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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	Blister beetles, Mexican bean beetles	0.5 to 1
trefoil, Clover	Alfalfa caterpillars, Bean leaf beetles, Cucumber beetles, Green cloverworms, Japanese beetles, Leafhoppers, Potato leafhoppers, Three-cornered alfalfa hoppers, Thrips, Velvetbean caterpillars	1
	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	1 to 1.5
	SPECIFIC DIRECTIONS: For product is most effective agains feed on the upper portions of the	st species which
	Alfalfa weevil larvae (West of the Rocky Mountains)	1 to 1.5
	SPECIFIC DIRECTIONS: For Alfa if pre-treatment damage is exte and treat the stubble. This produ against adult Alfalfa weevils.	nsive, cut Alfalfa
	Alfalfa weevil larvae (East of the Rocky Mountains)	1.5
	SPECIFIC DIRECTIONS: For Alfa if pre-treatment damage is exte and treat the stubble. This produ against adult Alfalfa weevils.	nsive, cut Alfalfa

RESTRICTIONS: BEE CAUTION: Do not apply this product to target crops or weeds in bloom. Observe "PLANT RESPONSE PRECAUTIONS". 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 (Timothy mite), Chinch bugs, Essex skippers, Fall armyworms, Striped grass loopers, Thrips, Range caterpillars, Range crane flies	1 to 1.5
	SPECIFIC DIRECTIONS: To kill Thrips in grasses grown for hay and/or seed, use high spray pressure to improve penetration into the boot.	
	Ticks	1
	SPECIFIC DIRECTIONS: Will present at the time of application contacted by product.	
RESTRICTIONS: BEE CAUTION: Do not apply this product to		

Do not apply within 14 days of harvest or grazing. Do not exceed a

target crops or weeds in bloom.

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: Aeriallowed only through USDA APIState grasshopper and Mormon or programs. Reduced Area and Agent is required. See the following www.sidney.ars.usda.gov/grasshopper/Res	IIS and affiliated icket suppression Treatment (RAATs) ebsite for details:
	Ticks	1
	SPECIFIC DIRECTIONS: Will only keep the time of application and directly co	[14] - 기타시에의 -
PESTRICTIONS: REE CALITION: Do not apply to target grops or		

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.

Crop	Pest	This Product Per Acre (qts.)
All members of the Fruiting Vegetables Crop Group 8 including: Eggplant, Groundcherry,	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
Pepinos, Pepper (includes:	SPECIFIC DIRECTIONS: Thorougessential to effectively suppress S	
Bell pepper,	Flea beetles, Leafhoppers	0.5 to 1
Chili pepper, Cooking pepper, Pimento, Sweet pepper), Tomatillo, Tomato	Cutworms SPECIFIC DIRECTIONS: For product is most effective agains feed on the upper portions of the product is most effective.	st 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 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.

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

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.

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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.

Crop	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. including Asparagus bean, Chinese longbean, Mothese and Vardleng bean	Bean leaf beetles, Blister beetles, Cucumber beetles, Grape colapsis, Green cloverworms, Japanese beetles, Mexican bean beetles, Velvetbean caterpillars	0.5 to 1.0
bean and Yardlong bean; Pisum 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	Corn earworms Alfalfa caterpillars, Colorado potato beetles, Flea beetles, Leafnoppers, Threecornered alfalfa hoppers, Thrips, Western bean cutworms	0.5 to 1.5 1
Soybeans) Crop Subgroup 6C including: Lupinus spp. including Grain lupin, Sweet lupin, White lupin and White sweet lupin; Phaseolus spp. including Field bean, Kidney bean, dry Lima bean, Navy	Armyworms, Cutworms, European corn borers, Fall armyworms, Stink bugs, Tarnished plant bugs, Webworms	1 to 1.5
bean, Pinto bean, Tepary bean; Vigna spp. including Adzuki bean, Blackeyed pea, Catjang, Cowpea, Crowder pea, Moth bean	SPECIFIC DIRECTION this product is most species which feed portions of the plant.	effective against
Crowder pea, Moth bean, Mung bean, Rice bean, Southern pea, Urd bean; Pisum spp. including Dwarf pea, Edible-podded pea, 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) (DO NOT USE ON LENTILS IN CA)	Alfalfa loopers (suppression), Cowpea curculios (suppression), Painted ladies (Thistle caterpillars), Pea leaf weevils, Pea weevils, Saltmarsh caterpillars, Woollybear caterpillars, Yellowstriped armyworms	1.5
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	CA ONLY: Corn earworms (suppression), Lima bean podborers (suppression), Lygus bugs (suppression), Stink bugs (suppression)	1.5

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 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 RESPONSE 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 Reserve Program	Black grass bugs	0.25 to 0.5 (0.2 to 0.4 fl. oz. per 1,000 sq. ft.)
Acreage, Set-Aside Program Acreage, Wasteland, Rights-of-Way, Hedgerows,	Range caterpillars, Range crane flies	0.5 to 1.0 (0.4 to 0.75 fl. oz. per 1,000 sq. ft.)
	Mormon crickets	0.5 (0.4 fl. oz. per 1,000 sq. ft.)
	Ticks	1 (0.75 fl. oz. per 1,000 sq. ft.)
Ditchbanks, Roadsides	SPECIFIC DIRECTIONS: Will kill at the time of application and dipproduct.	

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 SPECIFIC DIRECTIONS: Appliequipment in sufficient volume coverage. For Grasshopper, refer PESTS ACROSS MULTIPLE SITE	to ensure good to the "SPECIFIC

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 CAUTION: 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 Product
Стор	1 031	Per Acre (qts.)
Peanuts	Blister beetles, Mexican bean beetles	0.5 to 1
	Alfalfa caterpillars, Bean leaf beetles,	1
	Cucumber beetles, Green cloverworms,	
	Japanese beetles, Leafhoppers, Red-	
	necked peanutworms, Three-cornered	
	alfalfa hoppers, Thrips, Velvetbean	
	caterpillars	
	SPECIFIC DIRECTIONS: For best resu	Its on Thrips, use
	directed or banded sprays with hollow co	ne spray nozzles.
	Ensure adequate coverage for the under	side of leaves.
	Armyworms, Corn earworms, Fall	1 to 1.5
	armyworms, Stink bugs, Webworms	
	Whitefringed beetle adults, Cutworms	2
	SPECIFIC DIRECTIONS: For Cutworn	n, this product is
	most effective against species which for	eed on the 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.

Crop	Pest	This Product Per Acre (qts.)
Prickly pear	Cochineal scales (crawlers)	2
cactus	SPECIFIC DIRECTIONS: For G	
(Except CA)	to the "SPECIFIC PESTS ACR	OSS MULTIPLE

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.

Pest	This Product Per Acre (qts.)
Flea beetles,	0.5 to 1
Leafhoppers	8-800 TO
Armyworms,	1 to 2
Aster	
leafhoppers,	
Colorado potato	
beetles,	
Corn earworms,	
Cutworms,	
European corn	
borers, Fall	
armyworms,	
Lace bugs,	
Lygus bugs,	
Stink bugs,	
Tarnished plant	
bugs	
SPECIFIC DIR	ECTIONS: For
Cutworm, this	
effective against s	pecies which feed
on the upper porti	ons of the plant.
	Flea beetles, Leafhoppers Armyworms, Aster leafhoppers, Colorado potato beetles, Corn earworms, Cutworms, European corn borers, Fall armyworms, Lace bugs, Lygus bugs, Spittlebugs, Stink bugs, Tarnished plant bugs SPECIFIC DIR Cutworm, this i

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.

Crop	Pest	This Product
•		Per Acre (qts.)
All members of the	European fruit lecaniums,	1 to 2
Caneberry Crop	European raspberry	
Subgroup 13-07A	aphids, Flea beetles,	
including: Blackberry	Grape leaffolders, Grape	
(Rubus spp., including	leafrollers, Japanese	
Andean blackberry,	beetles, Leafhoppers,	
Arctic blackberry,	Leafrollers, Meadow	
Bingleberry, Black satin	spittlebugs,	
berry, Boysenberry,	Omnivorous leaftiers,	
Brombeere, California	Rose chafers, Snowy	
blackberry, Cherokee	tree crickets, Strawberry	
blackberry,	bud weevils, Strawberry	
Chesterberry,	clippers, Strawberry	
Cheyenne blackberry,	fruitworms, Strawberry	
Common blackberry,	leafrollers, Strawberry	
Coryberry,	weevils, Western	
Darrowberry,	grapeleaf skeletonizers,	
Dewberry,	Western yellowstriped	
Dirksen thornless	armyworms	
berry, Evergreen	Processing Process (Section 2)	
blackberry,		
Himalayaberry,		
Hullberry, Lavacaberry,		
Loganberry, Lowberry,		
Lucretiaberry,		
Mammoth blackberry,		
Marionberry, Mora,		
Mures deronce,		
Nectarberry,		
Northern dewberry,		
Olallieberry, Oregon		
evergreen berry,		
Phenomenalberry,		
(Continued)		
	-	(Continued)

Crop	Pest	This Product
(Cont.)	SPECIFIC DIRECTIONS:	Per Acre (qts.)
All members of the	Grape leaffolder, apply I	
Caneberry Crop	brood larvae emerge from	
Subgroup 13-07A	Blueberry maggots,	1.5 to 2
including:	Cherry fruitworms,	1.5 10 2
Rangeberry,	Cranberry fireworms,	
Ravenberry, Rossberry,	Cranberry fruitworms,	
Shawnee blackberry,	Cranberry twig girdlers,	
Southern dewberry,	Elm spanworms, Gypsy	
Tayberry, Youngberry,	moths, Sparganothis	
Zarzamora plus	fruitworms, Tarnished	
cultivars, varieties and/	plant bugs	
or hybrids of these);	Cutworms, Eightspotted	2
Raspberry (Rubus spp.	foresters, Grape berry	
including Bababerry,	moths. June beetles.	
Black and Red	Omnivorous leafrollers,	
raspberry, Blackcap,	Orange tortrix, Raspberry	
Caneberry, Framboise,	fruitworms, Raspberry	
Frambueso, Himbeere,	sawflies. Redbanded	
Keriberry, Mayberry,	leafrollers, Saltmarsh	
Purple raspberry,	caterpillars	
Thimbleberry,	SPECIFIC DIRECTIONS:	For Cutworm.
Tulameen, Wild		ffective against
raspberry, Yellow		
raspberry plus	species which feed on the	upper portions
cultivars, varieties and/	of the plant.	
or hybrids of these).		
All members of the		
Bushberry Crop		
Subgroup 13-07B		
including: Aronia		
berry, Blueberry		
(Vaccinium spp		
Highbush, Lowbush		
and cultivars and/		
or hybrids of these		
[=Blueberry species]),		
Chilean guava, Currant		
(Black, Buffalo, Native,		
Red), European		
barberry, Elderberry,		
Gooseberry, Highbush cranberry, Honeysuckle		
(Edible), Jostaberry,		
Huckleberry,		
Juneberry, Lingonberry,		
Salal, Sea buckthorn,		
plus varieties and/or		
hybrids of these.		
Cranberries; Grapes;		
Strawberries; Grapes;		
Ott aw Dellies		

RESTRICTIONS: 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. Do not apply within 7 days of harvest. Do not apply more than a total of 10 qts. per acre per crop per year.

Note: Use on Cranberries may kill shrimp and crabs. Do not use in areas where these are important resources. Carbaryl may injure Early dawn and Sunrise varieties of Strawberries. In Grapes, do not concentrate spray on the bunch or visible residues may result.

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SUGAR BEETS

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

Crop	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: For product is most effective agains feed on the upper portions of the product is a specific product.	st 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
(Except CA)	Armyworms, Cutworms, Fall armyworms, Sunflower moths	1.5
	SPECIFIC DIRECTIONS: For product is most effective agains feed on the upper portions of the product is a specific product.	st species which

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.

Crop	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

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 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 gts. per acre)

Crop	Pest	This Product Per Acre (qts.)
All members of the Citrus Fruit Crop Group 10 including: Calamondin, Citrus citron, Citrus hybrids (Citrus spp., including Chironja,	Avocado leafrollers, California orangedogs, Citrus cutworms, Fruit tree leafrollers, Orange tortrix, Western tussock moths	2 to 3
	Citrus rust mites, Eriophyid mites, Plant bugs, Scale insects (Black scales, Brown soft scales, California red scales [except in CA], Citrus snow scales, Yellow scales [except in CA])	3 to 5
Tangelo and Tangor), Grapefruit, Kumquat,	SPECIFIC DIRECTIONS: For So crawlers are present. For resu mites, including Citrus rust mites, populations are low.	lts on Eriophyid
Lemon, Lime, Mandarin (Tangerine), Orange (Sweet	Apopka weevils (adult), Citrus root weevils (adults), Fuller rose beetles, Little leaf notchers (adult)	5
and Sour),	Psyllid	1.5 to 3
Pummelo, Tangelo, Satsuma mandarin, White sapote (<i>Casimiroa</i> spp.) and other cultivars and/or hybrids of these.	SPECIFIC DIRECTIONS: Apply and at the end of the over-Winter the first Spring flush of the year are needed during the year just b flush in the grove or when an in populations is observed. Use the lower rate on light to mode young plants and early instar. Us on heavy infestations, mature pinstars and adults. Thorough ar coverage is essential for effective	ing period before Additional sprays efore each major crease in Psyllid erate infestations, see the higher rate plants, advanced uniform spray
	CA Only: California red scales, Yellow scales	5 to 12
	SPECIFIC DIRECTIONS: Do not rapplication per crop per year in CA scale. Apply when crawlers are pr	for California red
	Florida Only: Adult citrus weevils (such as Diaprepes abbreviatus, Pantomorus cervinus, Artipes floridanus and Pachnaeus spp.)	5 to 8
	SPECIFIC DIRECTIONS: Apply a ground as dilute or concentrate sp to 25 gallons of water per acre.	

RESTRICTIONS: BEE CAUTION: Do not apply this product to target crops or weeds in bloom. Mowing weed or cover crop bloom prior to application will reduce hazard to bees.

Do not apply within 5 days of harvest. Do not apply more than a total of 20 qts. per acre per crop per year. Minimum retreatment interval is 14 days. All States except CA and FL: Do not apply more than 5 qts. per acre per application.

CA Only: Do not apply more than 12 qts. per acre per application. 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.

Crop	Pest	This Product Per Acre (qts.)
Olives	Scale insects (Black scales, Olive scales)	5 to 7.5

RESTRICTIONS: Do not apply within 14 days of harvest. Do not apply more than a total of 15 qts. per acre per crop per year. 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.

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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.

Pest White apple leafhoppers Apple aphids, Codling moths Apple aphids, Apple maggots, Apple mealybugs, Apple rust mites, Bagworms, California	This Product Per Acre (qts.) 0.5 to 1.5 1 to 3 1.5 to 3
Apple aphids, Codling moths Apple aphids, Apple maggots, Apple mealybugs, Apple rust mites, Bagworms, California	0.5 to 1.5 1 to 3
Apple aphids, Codling moths Apple aphids, Apple maggots, Apple mealybugs, Apple rust mites, Bagworms, California	1 to 3
Apple aphids, Apple maggots, Apple mealybugs, Apple rust mites, Bagworms, California	
Apple mealybugs, Apple rust mites, Bagworms, California	1.5 to 3
	oples, avoid use
full bloom unless fruit thinning is pesticidal activity during this perio in fruit removal. For Psylla, apply	desired. Úse for d also may result when eggs hatch
_	1 to 3
SPECIFIC DIRECTIONS: Apply be	
hard to thin varieties at the early ti 80% petal fall to 6 mm fruit size. Use on easy to thin varieties and at period which is the 10 to 16 mm from to use per acre will depend on varow spacing, weather conditions a following applications. The most gallonage will depend on the size, row spacing and amount of foliag spray volume to ensure adequate 400 gals. per acre). Avoid spray to the the tree since overthinning may Factors such as climatic temperatures, tree age, variety, nutrition pruning and bloom may influence frow the product. Exercise precipossible overthinning. For most apply under good drying conditions at temperatures (°F) will be 70 to low 80 to 3 days. Application with daytim excess of 80°F may result in overthin this product may be mixed with othowever, use precautions to avand other adverse effects. Consultaining experts in your area for non appropriate tank-mixing partner other product labels for specific using the risk versus benefit product, particularly when using be fall and 6 mm fruit size. Red Desensitive to this phenomenon and varieties Bisbee, Red Chief and Vasusceptible to conditions causing Precipitation and temperatures belt the possibility of fruit deformity. The spray oils and wetting agents may of fruit deformity and injury. Consult with fruit thinning experts advice on using this product o varieties under local growing co	ming which is the se the lower rates the later thinning ruit size. The rate arieties, tree size, at the time of and t effective spray, planting density, ge. Use sufficient coverage (100 to the point of runoff. lower portion of occur here. ure, high humidity, previous crop, uit thinning results autions to avoid effective results, and when daytime o's for the following the temperatures in inning. the ther fruit thinners; void overthinning ult with local fruit recommendations ers. Refer to the edirections. The dictions are more in particular, the lilee Spur are very g fruit deformity. The specific Apple nditions or other notices of the result in second se
	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 fireworms SPECIFIC DIRECTIONS: On Anduring the period from full bloom ufull bloom unless fruit thinning is pesticidal activity during this period in fruit removal. For Psylla, apply or young nymphs are present. In when crawlers are present. SPECIFIC DIRECTIONS: Apply be fall and 16 mm fruit size. Use the hard to thin varieties at the early time and to the varieties and at the period which is the 10 to 16 mm fruit ouse per acre will depend on varow spacing, weather conditions a following applications. The most gallonage will depend on the size, row spacing and amount of foliag spray volume to ensure adequate 400 gals. per acre). Avoid spray to the tree since overthinning may factors such as climatic temperatures, tree age, variety, nutrition pruning and bloom may influence frowith the product. Exercise precepossible overthinning. For most apply under good drying conditions at temperatures (°F) will be 70 to low 80 to 3 days. Application with daytim excess of 80°F may result in overthin This product may be mixed with of however, use precautions to avoid the radverse effects. Constituining experts in your area for ron appropriate tank-mixing partner other product labels for specific use NOTE: The use of this product may be mixed with of however, use precautions to avoid the radverse effects. Constituining experts in your area for ron appropriate tank-mixing partner other product labels for specific use NOTE: The use of this product may be mixed with othowever, use precautions to avoid the radverse effects. Constituining experts in your area for ron appropriate tank-mixing partner other product partners of the product partners of the product partners of the product partners of the product of the product

(Cont.)		
Crop	Pest	This Product

RESTRICTIONS: Do not apply to Quince. Do not use on Pears between the tight flower cluster up to the 20 mm fruit size. Use during this period may result in undesirable fruit thinning and/or deformed fruit. Do not apply within 3 days of harvest. Do not apply more than a total of 15 qts. per acre per crop per year.

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.

FOR APPLE THINNING USE: Do not apply during bloom. Remove bee hives from orchard to be treated before applying this product. Removing bee hives from adjacent orchards will further minimize risks to bees.

DRIFT MANAGEMENT:

For airblast application, follow the following drift management practices:

- Adjust deflectors and aiming devices so that the spray is only directed into the canopy.
- · Block off upward pointed nozzles when there is no overhanging canopy.
- 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.

n delayed donn	ant uning.	
Crop	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, Redbanded leafrollers, Rose chafers, Scale insects (Brown soft scales, Forbes scales, Lecanium scales, Olive scales, Oystershell scales, San Jose scales), Tarnished plant bugs, Tussock moths,	Per Acre (qts.) 2 to 3
(Continued)	Variegated leafrollers SPECIFIC DIRECTIONS: Repeat as necessary, up to a total of 3 time but not more often than once every additional application at the dormant dormant timing may be made. For bescale, apply when crawlers are present peachtree borers, best results have be thoroughly spraying limbs and tree trun intervals during moth flight. Peach twig borers, Scale insects (Brown soft scales, Forbes scales, Lecanium scales, Olive scales, Oystershell scales, San Jose scales) SPECIFIC DIRECTIONS: For dormant	7 days. An or delayed st results on t. For Lesser en found by ks at weekly 4 to 5 or delayed
	dormant timing, apply in combination with a ridormant oil. Refer to the dormant oil pro additional use directions and restrictions. CA ONLY: Black cherry aphids, Cherry fruitworms, Cherry maggots (Cherry fruit flies), Codling moths, Cucumber beetles, Eyespotted bud moths, European earwigs, Fruittree leafrollers, Green fruitworms, Mealy plum aphids, Orange tortrix, Oriental fruit moths, Peach twig borers, Scale insects (Brown soft scales, Forbes scales, Lecanium scales, Olive scales, Oystershell scales, San Jose scales), Tarnished plant bugs, Tussock moths	3 to 4
		(Continued)

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(Cont.)		This Product
Crop	Pest	
(Cont.) 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)	SPECIFIC DIRECTIONS: Repeat apprecessary up to a total of 3 times per more often than once every 14 days. A application at the dormant or delay timing may be made. For Scale, crawlers are present.	crop, but not An additional ed dormant

RESTRICTIONS:

All States Except CA: Do not apply within 3 days of harvest. Do not apply more than 3 qts. per acre per application during the production season. CA only: Do not apply 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 qts. 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. 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

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 CA), Brown soft scales, Lecanium scales, Navel orangeworms (Except in CA)	3 to 5
	SPECIFIC DIRECTIONS: Repeat application as necessary up to a total of 4 times per cropyear (including any applications at the dorman's delayed dormant timing) at minimum 7 day interview. For Scale, apply when crawlers are present.	
	California Only: Armyworm, Navel orangeworm	3 to 6
	SPECIFIC DIRECTIONS: Apply by air in a minim of 20 gals. of water per acre. Do not make me than 1 application at the maximum rate of 6 per acre per crop per year. If needed, make to 3 additional applications per crop per year rate not exceeding 5 qts. per acre per applications (including applications at the dormant or deland dormant timing) at minimum 7 day intervals.	
	Scale insects	4 to 5
	SPECIFIC DIRECTIONS: For do dormant timing: Apply in combina oil. Refer to dormant oil product la use directions and restrictions.	tion with dormant

RESTRICTIONS: Do not apply within 14 days of harvest. Do not apply more than a total of 15 qts. per acre per year including any application at the dormant or delayed dormant timing. In All States Except California: Do not apply more than 5 qts. per acre per application. In California: Do not make more than 1 application at the maximum rate of 6 qts. per acre per crop per year. For any additional applications, do not apply more than 5 qts. per acre per application. 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.

(Continued)

(Cont.)			
Crop	Pest	This Product	
отор		Per Acre (qts.)	
All members of the Tree Nuts Crop Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (Hazelnut), Hickory nut,	Black margined aphids, Calico scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers, Filbert worms, 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	2 to 5	
Macadamia nut (Bush nut), Pecan, Walnut [including Black and English (Persian) walnuts]	SPECIFIC DIRECTIONS: Repea necessary up to a total of 4 times pany applications at the dormant or timing) at minimum 7 day intervals for pests attacking leaves. Use pests attacking fruit and for higher Scale, apply when crawlers are provided to the search of the search or petal fall stages when the May hatch. For Navel orangeworms Walnuts, best results have been early and mid-season application with moth flight peaks. For Filber results have been found by may haven eggs are hatching, repeating first appearance of moths and aglater. For Codling moths in Walrhave been found by making a later. For Codling moths in Walrhave been found by making a later are one-half to three-fourths during middle or late June, as need to the search of the season application.	per year (including r delayed dormant ls. Use lower rates in higher rates for er infestations. For resent. For Peach foliar applications cations in popcorn by brood begins to in Almonds and in found by timing the teafrollers, best aking applications in gain 3 to 4 weeks louts, best results in the populations when ers of developing inches and again	
	Chestnut weevils, European 4 to earwigs		
	SPECIFIC DIRECTIONS: For Obest results have been found wind weekly intervals beginning in lapplication should be made prior to European earwigs, thorough coubranches and nuts is needed for be	th 4 applications ate July. The last to shuck split. For rerage of trunks,	
Almonds Only	Peach twig borers, Scale insects	4 to 5	
	recommended dormant oil. Refe oil product label for additional us restrictions.	ombination with r to the dormant se directions and	
RESTRICTIONS: BEE CAUTION: Do not apply this product to target			

RESTRICTIONS: 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. Do not apply within 14 days of harvest. Do not apply more than a total 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 (Continued)	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, (Continued)	1 (0.75 fl. oz. per 1,000 sq. ft.)
		(Continued)

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(Cont.)		This Product
Crop/Site	Pest	Per Acre (qts.)
(Cont.)	(Cont.)	1 (0.75 ft
Forests, Tree	Ants*, Apple aphids,	(0.75 fl. oz. per
plantations,	Armyworms, Ash whiteflies,	1,000 sq. ft.)
Planted	Azalea leafminers, Bagworms,	
Christmas	Balsam twig aphids, Birch	
trees,	leafminers, Blister beetles,	
Parks, Rural	Boxelder bugs, Boxwood	
shelter belts,	leafminers, Browntail moths,	
Rangeland	Cankerworms, Catalpa sphinx,	
trees	Chiggers**, Cooley spruce gall	
(Continued)	adelgids, Cutworms, Cypress	
(Continued)	tip 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, Jack pine budworms,	
	Japanese beetles, Jeffrey pine	
	needleminers, June beetles,	
	Lace bugs, Leafhoppers,	
	Leafrollers, Locust borers,	
	Maple leafcutters, Mealybugs,	
	Mimosa webworms, Nantucket	
	pine tip moths, Oak leafminers,	
	Oak moths, Oak skeletonizers,	
	Oakworm (complex), Oleander	
	caterpillars, Olive ash borers,	
	Orangestriped oakworms,	
	Periodical cicadas, Pine loopers,	
	Pine sawflies, Pine spittlebugs,	
	Pitch pine tip moths, Plant	
	bugs, Poinsettia hornworms,	
	Psyllids, Puss caterpillars,	
	Redhumped oakworms, Rose	
	aphids, Rose chafers, Rose	
	slugs, Saddled prominents,	
	Sawflies (exposed), Scale	
	insects (crawlers), Sowbugs,	
	Spiney elm caterpillars, Spring-	
	tails, Spruce budworms, Spruce	
	needle-miners, Subtropical	
	pine tip moths, Tent caterpillars,	
	Thornbugs, Thrips (exposed),	
	Walnut caterpillars, Webworms,	
	Western hemlock loopers,	
	Western spruce budworms.	
	Willow leaf beetles, Woolly gall	
	aphids, Yellow poplar weevils	
		serve "PLAN"
	RESPONSE PRECAUTIONS".	
	coverage of upper and lower	
	The addition of a sticker may	
	performance. To kill Scale inse	
	stems and twigs in addition to	
	best results on Worms, treat when	
	Make applications for Maple leaf	cutters on Suga
	maple when larvae are in 2nd in	star after mining
	and as cases are being formed.	**************************************
	* Except Carpenter, Harvester a	and Dharach
	** Will only kill pests that are pres	
	application and directly contac	ted by product.
	Gypsy moths	0.75 to 1
	*****	(0.5 to 0.75 fl. oz
		per 1,000 sq. ft.)
SPECIFIC DIRECTIONS: For Gypsy moth, us		
	the higher rate for heavy infe	
	treatments as necessary, up to a to	
	year, but not more often than once	event 7 days

(Cont.)			
Crop/Site	Pest	This Product	
		Per Acre (qts.)	
(Cont.) Forests, Tree plantations,	Ticks	1 (0.75 fl. oz. per 1,000 sq. ft.)	
Planted Christmas trees,	at the time of application and dire product.		
Parks, Rural shelter belts, Rangeland trees	Elm bark beetles, Ips engraver beetles, Mountain pine beetles, Roundheaded pine beetles, Spruce beetles, Western pine beetles	5 fl. ozs. per gal.	
	SPECIFIC DIRECTIONS: Direct - Effective as a preventative trea annually as required to prevent Beet gal. of spray per 50 sq. ft. of bark prichost-tree attack. Treat tree trunk frountil trunk diameter is less than 5 incepted beetles, apply approximately 20 to mixture for each 50 ft. of bark for the all bark surfaces on trunks, limbs and	atment only. Treat tle attacks. Apply 1 or to Beetle flight or m ground level up, ches. For Elm bark 30 gals. of spray prough coverage of	
RESTRICTIONS: BEE CAUTION: Do not apply this product to			

ORNAMENTAL TREES AND PLANTS

target crops or weeds in bloom.

(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).

Do not use on syrup-producing Sugar maples where sap is harvested. Do not enter or allow others to enter treated areas until sprays have dried.

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
Огоргоно	rest	Per Acre (qts.)
Ornamental	Ants*, Apple aphids, Armyworms,	1 qt. per acre
Trees and	Ash whiteflies, Azalea leafminers,	-OR-
Plants:	Bagworms, Balsam twig aphids,	per 100 gal.
Roses,	Birch leafminers, Blister beetles,	(0.75 fl. oz. per
Flowers,	Boxelder bugs, Boxwood	1,000 sq. ft.)
Other	leafminers, Browntail moths,	
Herbaceous	Cankerworms, Catalpa sphinx,	
plants,	Chiggers**, Cooley spruce gall	
Evergreens	adelgids, Cutworms, Cypress tip	
and Woody	moths, Douglas fir tussock moth,	
plants,	Eastern spruce gall adelgids,	
Shrubs	Elm leaf aphids, Elm leaf beetles,	
(Continued)	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, Lace	
	bugs, Leafhoppers, Leafrollers,	
	Locust borers, Maple leafcutters,	
	Mealybugs, Mimosa webworms,	
	Nantucket pine tip moths, Oak leafminers, Oak moths,	
	Oak skeletonizers. Oakworm	
	(complex), Oleander caterpillars,	
	Olive ash borers. (Continued)	
(Continued)		
1		(Continued)

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(Continued)

(Cont.)			
Crop/Site	Pest	This Product Per Acre (qts.)	
(Cont.) Ornamental Trees and	(Cont.) Orange-striped oakworms, Periodical cicadas, Pine loopers, Pine sawflies, Pine spittlebugs,	1 qt. per acre -OR- per 100 gals.	
Plants: Roses, Flowers, Other Herbaceous plants, Evergreens, and Woody plants, Shrubs	Pine sawflies, Pine spittlebugs, Pitch pine tip moths, Plant bugs, Poinsettia hornworms, Psyllids, Puss caterpillars, Redhumped oakworms, Rose aphids, Rose chafers, Rose slugs, Saddled prominents, Sawflies (exposed), Scale insects (crawlers), Sowbugs, Spiney elm caterpillars, Springtails, Spruce needleminers, Subtropical pine tip moths, Tent caterpillars, Thornbugs, Thrips (exposed), Walnut caterpillars, Webworms, Western spruce budworms, Willow leaf beetles, Woolly gall aphids, Yellow poplar weevils SPECIFIC DIRECTIONS: Observe "PLANT RESPONSE PRECAUTIONS". Obtain thorough coverage of upper and lower leaf surfaces. The addition of a sticker may improve product performance. To kill Scale insects, treat trunks, stems and twigs in addition to plant foliage. For best results on Worms, treat when pests are small. Make application for Maple leafcutters on Sugar maple when larvae are in 2nd instar after mining and as cases are being formed. * Except Carpenter, Harvester and Pharaoh.		
	** Will only kill pests that are present at the time of application and directly contacted by product. Gypsy moths 0.75 to 1 qt. per acre or per 100 gals.		
		(0.5 to 0.75 fl. oz. per 1,000 sq. ft.)	
	SPECIFIC DIRECTIONS: For Gypsy moth, use the higher rate for heavy infestations.		
	Ticks	1 qt. per acre or per 100 gals. (0.75 fl. oz. per 1,000 sq. ft.)	
	SPECIFIC DIRECTIONS: Will only kill Ticks present at time of application and directly contacted by product.		
	Elm bark beetles, Ips engraver beetles, Mountain pine beetles, Roundheaded pine beetles, Spruce beetles, Western pine beetles	5 fl. ozs. per gal.	
	SPECIFIC DIRECTIONS: Direct Trunk Treatmet - Effective as a preventative treatment only. Tre annually to prevent Beetle attacks. Apply 1 gal. of spra per 50 sq. ft. of bark prior to Beetle flight or host-tre attack. Treat tree trunk from ground level up, until trur diameter is less than 5 inches. For Elm bark beetle		
	apply approximately 20 to 30 gals. of spray mixture fo each 50 ft. of Elm tree for thorough coverage of all barl surfaces on trunks, limbs, and twigs.		
RESTRICTIONS: BEE CAUTION: Do not apply this product to			

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

Do not use on syrup-producing Sugar maples where sap is harvested. Do not enter or allow others to enter treated area 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.

Sports fields, Sod farms, Cutworms, Essex skippers, European chafers, Fall armyworms, Eight Skippers, Grasshoppers, Green June beetle larvae, (1.5 to 3 fl. ozs. per 1,000 sq. ft.)	Site	Pest	This Product Per Acre (qts.)	
Sod farms, Domestic and Commercial lawns, Cemeteries, Parks, Campsites, Recreational areas Cobleting Cobleting Combourd Commercial lawns, Cemeteries, Parks, Campsites, Recreational areas Cobleting Cobleting Components Commercial lawns, Cemeteries, Millipedes, Mosquitoes (adults)*, Scarab beetle adults (May beetles, June beetles), Sowbugs, Spittlebugs, Springtails, Yellowstriped armyworms SPECIFIC DIRECTIONS: For Armyworm, Cutworm and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide application. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)	Golf turf,	Ants (except Carpenter, Harvester	2 to 4	
Domestic and Fiery skippers, Grasshoppers, Green June beetle adults (May beetles, June beetles), Sowbugs, Spittlebugs, Springtails, Yellowstriped armyworms and Fall armyworms Do not irrigate treated areas within 24 hours following insecticide applications. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* European chafers, Fall armyworms, Fiery skippers, Grasshoppers, Green June beetle larvae, Leafhoppers, Lucerne moths, Millipedes, Mosquitoes (adults)*, Scarab beetle adults (May beetles, June beetles), Sowbugs, Spittlebugs, Springtails, Yellowstriped armyworms SPECIFIC DIRECTIONS: For Armyworm, Cutworm and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide applications. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)	Sports fields,	and Pharaoh)*, Armyworms,	(1.5 to 3 fl. ozs.	
and Commercial lawns, Cemeteries, Parks, Campsites, Recreational areas PECIFIC DIRECTIONS: For Armyworm, Cutworm and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide applications. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* Fiery skippers, Grasshoppers, Green June beetle larvae, Leafhoppers, Lucerne moths, Millipedes, Mosquitoes (adults)*, Scarab beetle adults (May beetles, Japanese beetles, Green June beetles), Sowbugs, Spittlebugs, Springtails, Yellowstriped armyworms Do not irrigate treated areas within 24 hours following insecticide application. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)	Sod farms,	Cutworms, Essex skippers,	per 1,000 sq. ft.)	
Commercial lawns, Cemeteries, Parks, Campsites, Recreational areas PECIFIC DIRECTIONS: For Armyworm, Cutworm and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide applications. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* Centipedes*, Chigger*, Earwigs* Alilipedes, Mosquitoes (adults)*, Scarab beetle adults (May Deetles, Japanese Deetles, Japanese Deetles, Green June beetles), Sowbugs, Spittlebugs, Springtails, Yellowstriped armyworms SPECIFIC DIRECTIONS: For Armyworm, Cutworm and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide applications. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.)	Domestic	European chafers, Fall armyworms,		
lawns, Cemeteries, Parks, Campsites, Recreational areas Specific Directions of Green June beetles), Sowbugs, Spittlebugs, Springtails, Yellowstriped armyworms Specific Directions: For Armyworm, Cutworm and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide application. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)	and	Fiery skippers, Grasshoppers,		
Cemeteries, Parks, Campsites, Recreational areas Millipedes, Mosquitoes (adults)*, Scarab beetle adults (May beetles, June beetles), Japanese beetles, Green June beetles), Sowbugs, Spittlebugs, Springtails, Yellowstriped armyworms SPECIFIC DIRECTIONS: For Armyworm, Cutworm and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide application. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)	Commercial	Green June beetle larvae,		
Parks, Campsites, Recreational areas Scarab beetle adults (May beetles, June beetles, Japanese beetles, Green June beetles), Sowbugs, Spittlebugs, Springtails, Yellowstriped armyworms SPECIFIC DIRECTIONS: For Armyworm, Cutworm and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide application. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)	lawns,			
Campsites, Recreational areas beetles, June beetles, Japanese beetles, Green June beetles), Sowbugs, Spittlebugs, Springtails, Yellowstriped armyworms SPECIFIC DIRECTIONS: For Armyworm, Cutworm and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide application. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)	the first of the second			
Recreational areas Beetles, Green June beetles), Sowbugs, Spittlebugs, Springtails, Yellowstriped armyworms SPECIFIC DIRECTIONS: For Armyworm, Cutworm and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide application. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)				
Sowbugs, Spittlebugs, Springtails, Yellowstriped armyworms SPECIFIC DIRECTIONS: For Armyworm, Cutworm and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide application. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)		The second state of the se		
Yellowstriped armyworms SPECIFIC DIRECTIONS: For Armyworm, Cutworm and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide application. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)	NEWSCHOOL OF THE PROPERTY OF T			
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and Fall armyworm: Do not irrigate treated areas within 24 hours following insecticide application. For Green June beetle grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)				
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or irrigate Turfgrass within 48 hours after treatment. Ticks* 1 (0.75 fl. oz. per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)				
per 1,000 sq. ft.) Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)				
Centipedes*, Chigger*, Earwigs* 4 (3 fl. ozs. per 1,000 sq. ft.)		Ticks*	1 (0.75 fl. oz.	
1,000 sq. ft.)			per 1,000 sq. ft.)	
		Centipedes*, Chigger*, Earwigs*	4 (3 fl. ozs. per	
RESTRICTIONS: BEE CAUTION: Do not apply this product to			1,000 sq. ft.)	

plants in bloom.

Repeat applications as necessary up to 4 times per year but not 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.			
Golf turf,	Chinch bugs, Sod webworms	6 to 8	
Sports fields,	(Lawn moths)	(4.4 to 6 fl. ozs.	
Sod farms,		per 1,000 sq. ft.)	
Domestic	SPECIFIC DIRECTIONS: For Chinch	bug: Treat entire	
and	grass area rather than just damaged areas. Irrigation		
Commercial	prior to treatment will aid in penetration of insecticide		
lawns,	into Turfgrass. Do not irrigate treated areas within 24		
Cemeteries,	hours following insecticide application.		
Parks,	Bluegrass billbug larvae, European	8 (6 fl. ozs. per	
Campsites,	crane flies, White grubs (such as	1,000 sq. ft.)	
Recreational	Japanese beetles, Chafer beetles		
areas	and <i>Phyllophaga</i> spp. larvae), Black		
	turfgrass ataenius beetle larvae,		
	Hyperodes weevils (Bluegrass		
	weevil) larvae, Springtails		
	SPECIFIC DIRECTIONS: For European Crane Fly:		
	Apply in early Spring (April 1 to April 15) or at timing		
	recommended by local Agricultural Extension Service		
	Agents. Water or irrigate Turfgrass within 48 hours		
	after treatment.		
	For White grub: Apply when Grubs are feeding near the		
	soil surface, usually during late March through May or July		
	through early September or at timing as recommended		

RESTRICTIONS: BEE CAUTION: Do not apply this product to

Fleas*

by local Agricultural Extension Service Agents. Water or irrigate Turfgrass within 48 hours after treatment.

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

Crop	Pest	This Product
		Per Acre (qts.)
All crops on	Grasshoppers	0.5 to 1.5
this labels	SPECIFIC DIRECTIONS: Apply 0.5 to 0.75 qts. per acre for nymphs on small plants or sparse vegetation. Apply 1 to 1.5 qts. per acre for mature Grasshoppers or applications to dense foliage. Be certain spray volumes are 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.

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8 (6 fl. ozs. per 1,000 sq. ft.)

Imported Fire Ants

Crop/Site	Pest	This Product Per
		Gallon of Water
All crops/sites	Imported fire ants	0.75 fl. oz. per gal.
on this label	SPECIFIC DIRECTIONS: Drei	nch Application:
	To kill active mounds, apply a tot	•
	diluted solution over the surface	
	at least 1 qt. per 6 inches of mou	
	a bucket, can or other appro	
	Thoroughly wet mound and surroughly wet mound and surroughly 4 ft. diameter (12 sq. ft.). Do not do	-
	to treatment. Pour solution from a height of about 3 ft. to give sufficient force to break mound aper and flow into Ant tunnels. For best results, apply in cool weather (65 to 80°F) or in early morning or late evening hours. Repeat application if mound activity resumes after 30 days. Treat new mounds as the appear. Pressurized sprays may disturb the Ants and	
	cause migration, reducing produc	t effectiveness.
	Imported fire ants (foraging)	1.5 fl. ozs. per gal.
	SPECIFIC DIRECTIONS: Broad	
	(outdoor use only)*: Treat only	
	when using on bedding plants and avoid cont	
foliage. Do not make more than 1 application per year		· · · · · · · · · · · · · · · · · · ·

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

For outdoor use only. Do not use in greenhouses.

*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-	Ixodes spp. (Deer ticks, Bear ticks, Black legged ticks), Amblyomma spp. (Lone star ticks)	1 (0.75 fl. oz. per 1,000 sq. ft.)
of-Way, Hedgerows, Ditchbanks, Roadsides, Set-Aside and Conservation Reserve Program Acreage, Ornamental trees and plants, Turfgrass*	Treat entire area and perimeter areas where exposure to Ticks may occur. Ticks may be	

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 or 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: To avoid waste, use all materials in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often, such programs are run by State or local governments or by industry).

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 up to < 250 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. 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 Container (≥ 250 gallons & Bulk): 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 rinsate collection system. Repeat 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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