

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

April 9, 2025

Arianna Shorey
Regulatory Consultant
Tessenderlo Kerley, Inc.
c/o Pyxis Regulatory Consulting Inc.
4110 136th St. Ct. NW
Gig Harbor, WA 98332

Subject: Registration Review Label Amendments Incorporating Mitigation from the

National Marine Fisheries Services (NMFS) Biological Opinions on the Effects of

Carbaryl

Product Name: Sevin Brand 4F Carbaryl Insecticide

EPA Registration Number: 61842-38

Application Date: 4/29/24 Decision Number: 595713

Dear Arianna Shorey:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application of the above referenced product in connection with the NMFS' Biological Opinion on the effects of carbaryl on federally listed endangered and threatened species and designated critical habitat in accordance with section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 et seq.). The Agency has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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. Therefore, should the Agency find or if it is brought to our attention that a website

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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 Assurance.

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 12 months from the date of this letter. After 12 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.

The Agency received the U.S. Fish and Wildlife Service's (FWS) BiOp on the effects of EPA's national registration of carbaryl and posted it on the website on April 9, 2025. The Agency plans to incorporate and implement this FWS BiOp when issuing the interim decision for carbaryl. EPA will notify the registrants of any need to submit label amendments within 60 days of the issuance of the interim decision.

If you have any questions about this letter, please contact Carolyn Smith at smith.carolyn@epa.gov.

Sincerely,

Jolyn Pyrie

Jaclyn Pyne, Team Leader
Risk Management and Implementation Branch 3
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure





Intended for Agricultural Use

ACTIVE INGREDIENT:

Carbaryl (1-naphthyl N-methylcarbamate) 43.0% by Wt. INERT INGREDIENTS: 57.0% by Wt. (Contains 4 pounds Carbaryl per Gallon)

CAUTION

For TRANSPORTATION Emergencies ONLY Call 24 Hours A Day (800) 424-9300 (CHEMTREC)

FIRST AID

Carbaryl is an N-Methyl Carbamate Insecticide.

IF SWALLOWED:	Immediately call a poison control center or doctor for treatment advice.					
	Do not induce vomiting unless told to do so by a poison control center or doctor.					
	Have person sip a glass of water if able to swallow.					
	Do not give anything by mouth to an unconscious person.					
IF ON SKIN OR	Take off contaminated clothing.					
CLOTHING:	Rinse skin immediately with plenty of water for 15-20 minutes.					
	Call a poison control center or doctor for treatment advice.					
IF INHALED:	Move person to fresh air.					
	• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.					
	Call a poison control center or doctor for further treatment advice.					
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 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.					
For MEDICAL Encourage to Call CA Harris A Day A CCC 074 4075						

For MEDICAL Emergencies Call 24 Hours A Day 1-866-374-1975.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN: Carbaryl contains an N-methyl carbamate that inhibits cholinesterase. Drugs like 2-Pam (pyridine-2-aldoxime methiodide) are not recommended. To aid in the confirmation of diagnosis, urine samples should be obtained within 24 hours of exposure and immediately frozen. Analysis will be arranged by Tessenderlo Kerley, Inc. Consultation on therapy can be obtained at all hours by calling the appropriate emergency number 1-866-374-1975 (U.S.A.)

E.P.A Reg No. 61842-38

Tessenderlo Kerley, Inc. 2910 N. 44th Street, Suite 100 Phoenix, AZ 85018 USA 1-800-525-2803 www.novasource.com

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SEVIN-4F-051612

ACCEPTED

04/09/2025

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 24242

61842-38

E.P.A. Est. No. 264-MO-02



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if swallowed, absorbed through the 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, headache. IN SEVERE CASES CONVULSION, UNCONSCIOUSNESS AND RESPIRATORY FAILURE MAY OCCUR. SIGNS AND SYMPTOMS OCCUR RAPIDLY FOLLOWING OVEREXPOSURE TO THIS PRODUCT.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

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

PERSONAL PROTECTIVE EQUIPMENT (PPE) Continued

Handlers applying with open cab airblast equipment at application rates equal to or greater than 5 quarts of SEVIN® brand 4F Carbaryl Insecticide per acre must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear, and
- NIOSH-approved dust/mist filtering respirator with NIOSH/MSHA approval number prefix TC-21C or NIOSH-approved respirator with any N, R, P or HE filter.

All other mixers, loaders, applicators, and handlers must wear:

- · Long-sleeved shirt and long pants
- Shoes plus socks
- · Chemical-resistant gloves, and
- 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 NIOSH/MSHA approval number prefix TC-21C or
- A NIOSH-approved respirator with any N, R, P or HE filter.

See engineering controls for additional requirements and exceptions.

Follow manufacturer's instructions for cleaning and maintaining Personal Protective Equipment (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 must use an enclosed cab that meets the definition in the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, such applicators must:

- wear long-sleeve shirt, long pants, shoes, and socks;
- either wear a NIOSH-approved dust/mist filtering respirator with NIOSH/MSHA approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P or HE filter or use an enclosed cab that is declared in writing by the manufacturer or by a government agency to provide at least as much respiratory protection as this type of respirator;
- be provided, have immediately available for use, and wear in an emergency when they must exit the cab in the treated area coveralls, chemical-resistant gloves, chemical-resistant footwear, and chemical-resistant headgear (if overhead exposure) plus

 if not already using one the respirator specified above—take off any PPE that was worn in the treated area before reentering the cab, and
- store all such PPE in a chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

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

Flaggers supporting 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 must use an enclosed cab that meets the definition in the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, flaggers must:

· wear long-sleeve shirt, long pants, shoes, and socks,

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

Wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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

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. Do not contaminate water when disposing of equipment washwater or rinsate. This product is extremely toxic to aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply when weather conditions favor drift from area treated. Do not contaminate water by cleaning equipment or disposal of wastes.

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 application 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 soybean and corn): Do not apply this product to target crops or weeds in bloom.

For soybean and corn: 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 cautions. 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.

ENDANGERED AND THREATENED SPECIES PROTECTION REQUIREMENTS: Before using this product, you must obtain any applicable Endangered Species Protection Bulletins ('Bulletins') within six months prior to or on the day of application. To obtain Bulletins, go to Bulletins Live! Two (BLT) at https://www.epa.gov/pesticides/bulletins. When using this product, you must follow all directions and restrictions contained in any applicable Bulletin(s) for the area where you are applying the product, including any restrictions on application timing if applicable. It is a violation of Federal law to use this product in a manner inconsistent with its labeling, including this labeling instruction to follow all directions and restrictions contained in any applicable Bulletin(s). For general questions or technical help, call 1-844-447-3813, or email ESPP@epa.gov.

REPORTING ECOLOGICAL INCIDENTS: For guidance on reporting ecological incidents, including death, injury, or harm to plants and animals, including bees and other non-target insects, see EPA's Pesticide Incident Reporting website: https://www.epa.gov/pesticide-incidents or call 1-800-525-2803.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the Restricted-entry interval (REI). 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 Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls over short-sleeve shirt and short-pants,
- Chemical-resistant footwear plus socks,
- Chemical-resistant gloves made of any waterproof material, and
- Chemical-resistant headgear if overhead exposure

When the Restricted-Entry Interval 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 Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

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

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store unused SEVIN[®] brand 4F Carbaryl Insecticide in original container only, in cool, dry area out of reach of children and animals. Do not store in areas where temperatures frequently exceed 100° F.

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

PESTICIDE DISPOSAL

Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) 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 ¼ 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Offer for recycling, if available. If not recycled, then puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

INFORMATION

SEVIN® brand 4F Carbaryl Insecticide is a suspension of microfine SEVIN® Carbaryl Insecticide in an aqueous medium. It readily disperses in water to form a spray which may be applied by ground.

RESTRICTIONS

- Use on rice is prohibited.
- Do not apply this product for agricultural uses in Hawaii.
- Do not apply by air for all uses except for USDA APHIS and affiliated State grasshopper and Mormon cricket suppression programs.

- Do not apply during rain. Do not apply when soil in the area to be treated is saturated (if there is standing water on the field or if water can be squeezed from soil) or if NOAA/National Weather Service predicts a total rainfall of 1 inch or greater over the 48 hours following the day of application, only considering a 48-hour period when, at any point during the 48-hour period, the precipitation potential is 50% or greater. Detailed National Weather Service forecasts for local weather conditions should be obtained on-line at: www.weather.gov or by contacting your local National Weather Service Forecasting Office.
- Spot treatments must not exceed two square feet in size (for example, 2 ft. by 1 ft. or 4 ft. by 0.5 ft).
- Do not spray the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.
- Do not allow the product to enter any drain during or after application.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crackand-crevice treatment.
- Do not apply to vertical surfaces directly above pervious or impervious surfaces that drain into ditches, storm drains, gutters, or surface waters.
- Do not apply or irrigate to the point of runoff.
- For residential uses, do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams or ephemeral streams when water is present, wetlands or natural ponds, estuaries, and commercial fish farm ponds).

PLANT RESPONSE PRECAUTIONS

Application to wet foliage or during periods of high humidity may cause injury to tender foliage.

Do not use on Boston Ivy, Virginia creeper and maidenhair fern as injury may result. Carbaryl may also injure Virginia and sand pines.

The use of adjuvants may increase the potential for crop injury to sensitive crops.

PREHARVEST 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 crops for which carbaryl tolerances are not established.

APPLICATION INFORMATION

Calibrate and adjust application equipment to insure proper rate and accurate placement. To clean spray system after use, drain and flush with a water and detergent mixture. Rinse thoroughly with clean water. Refer to the Storage and Disposal section for disposal instructions.

NOTE: Staining may occur on certain surfaces such as stucco, brick, cinder block, and wood. Spray deposits on painted or stained surfaces or finishes (i.e., cars, houses, trailers, boats, etc.) should be immediately removed by washing to prevent discoloration. Avoid applications to surfaces where visible spray residues are objectionable. For outdoor use only.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, SEVIN® brand 4F Carbaryl Insecticide contains a Group 1A insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to SEVIN® brand 4F Carbaryl Insecticide and other Group 1A insecticides/acaricides. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance, take the following steps:

- Rotate the use of SEVIN® brand 4F Carbaryl Insecticide or other Group 1A insecticides/acaricides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides/acaricides from a different group that are equally effective on the target pest when such use is
 permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues
 (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations
 provided by the Insecticide Resistance Action Committee (IRAC):
 - o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide
 pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.

- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM
 recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Tessenderlo Kerley, Inc. at 1-800-525-2803.

RESISTANT SPECIES NOTICE

All references to armyworm on the crops listed below refer to the species, *Pseudaletia unipuncta*, often called the "true armyworm". Except where indicated otherwise, this product is not registered for other armyworm species. Regional differences have been noted in the susceptibility of certain strains of fall armyworm, diamondback moth, Colorado potato beetle and Southern green stink bug 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 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of SEVIN brand 4F Carbaryl Insecticide, and then the remaining volume of water. Include rinse water from container. Prepare only as much spray mixture as can be applied on the day of mixing. MAINTAIN CONTINUOUS AGITATION DURING MIXING AND APPLICATION TO ASSURE A UNIFORM SUSPENSION. DO NOT STORE SPRAY MIXTURE FOR PROLONGED PERIODS OR DEGRADATION OF CARBARYL MAY OCCUR. Local water conditions may also accelerate the degradation of spray mixtures containing carbaryl. See COMPATIBILITY STATEMENT below.

COMPATIBILITY INFORMATION

SEVIN brand 4F Carbaryl Insecticide, when diluted with at least an equal volume of water, is compatible with a wide range of pesticides. It is not compatible with diesel fuel, kerosene, fuel oil or aromatic solvents. If compatibility 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 cautions and limitations on labeling of all products used in mixtures. WHEN PREPARING COMBINATION SPRAYS, FIRST ADD SEVIN BRAND 4F CARBARYL INSECTICIDE 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, 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.

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Applications (for USDA APHIS and affiliated State grasshopper and Mormon cricket suppression programs only):

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 641 (ASABE S641).
- During application, the Sustained Wind Speed, as defined by the National Weather Service (standard averaging period of 2 minutes) must register between 3 and 10 miles per hour.
- Wind speed and direction must be measured on location using a windsock, an anemometer, or an aircraft smoke system.
- Wind speed must be measured at the release height or higher, in an area free from obstructions such as trees, buildings, and farm equipment.
- Applicators must use a minimum of ½ swath displacement upwind at the downwind edge of the treatment area. The boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.
- Do not apply by ground within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams or ephemeral streams when water is present, wetlands or natural ponds, estuaries, and commercial fish farm ponds).

Ground Boom Applications:

- During application, the Sustained Wind Speed, as defined by the National Weather Service (standard averaging period of 2 minutes), must register between 3 and 15 miles per hour (or 3 and 10 mph for the USDA APHIS and affiliated State grasshopper and Mormon cricket suppression programs).
- Wind speed and direction must be measured on location using a windsock or anemometer (including systems to measure wind speed or velocity using application equipment).
- Wind speed must be measured at the release height or higher, in an area free from obstructions such as trees, buildings, and farm equipment.
- Do not release spray at a height greater than 2 feet above the ground or crop canopy except for USDA APHIS and affiliated

- State grasshopper and Mormon cricket suppression programs.
- For USDA APHIS and affiliated State grasshopper and Mormon cricket suppression programs, apply at the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).
- Do not apply during temperature inversions.
- For soil or foliar applications, do not apply by ground within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams or ephemeral streams when water is present, wetlands or natural ponds, estuaries, and commercial fish farm ponds).

Airblast Applications:

- Sprays must be directed into the canopy.
- During application, the Sustained Wind Speed, as defined by the National Weather Service (standard averaging period of 2 minutes), must register between 3 and 10 miles per hour.
- Winds speed and direction must be measured on location using a windsock or anemometer.
- Wind speed must be measured at the release height or higher, in an area free from obstructions such as trees, buildings, and farm equipment.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.
- For soil or foliar applications, do not apply by ground within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams or ephemeral streams when water is present, wetlands or natural ponds, estuaries, and commercial fish farm ponds).

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.

All outdoor applications, unless permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- 1. Applications to soil, lawn, turf, or vegetation;
- 2. Perimeter band treatments of 6 ft wide or less from the base of a man-made structure to pervious surfaces (e.g., soil, mulch, or lawn);
- 3. Applications around potential exterior pest entry points into man-made structures such as doorways and windows, when limited to a band not to exceed one inch:
- 4. Applications to vertical surfaces directly above pervious surfaces, such as bare soil, lawn, turf, mulch or other vegetation, that do not drain into ditches, storm drains, gutters, or surface waters.

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 for tree and orchard crops or at least 2 gallons of spray mixture per acre for application to other crops. **EXCEPTION:** For the use on rangeland as a pest management approach for grasshoppers under the Reduced Area and Agent Treatments (RAATs) program **only**, use at least 16 ounces 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 SEVIN brand 4F Carbaryl Insecticide in a mix tank. Fill tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of SEVIN brand 4F Carbaryl Insecticide, and then the remaining volume of water. (Suspension concentrations using the appropriate dosage per acre recommended on this label of SEVIN brand 4F Carbaryl Insecticide, per 1 to 4 gallons of water are recommended). Then set sprinkler to deliver 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the suspension of SEVIN brand 4F Carbaryl Insecticide into the irrigation water line so as to deliver the desired rate per acre. The suspension of SEVIN brand 4F Carbaryl Insecticide should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. If you should have any other questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

NOTE: When treatment with SEVIN brand 4F Carbaryl Insecticide 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 shutdown. 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, 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 nonuniform distribution of treated water.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down and make necessary adjustments should the need arise.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.

SPECIFIC USE DIRECTIONS

USE SITES:

Asparagus

Brassica Leafy Vegetables and Turnip Greens

Cereal Grain Crops (Field and Pop Corn; Grain Sorghum; Sweet Corn)

Cucurbit Vegetables

Flax

Forage Crops (Alfalfa, Clovers, Birdsfoot Trefoil; Pasture and Grasses Grown for Hay and/or Seed; Rangeland)

Fruiting Vegetables

Leafy Vegetables (Dandelion, Endive, Lettuce, Parsley, Spinach; Leaf Petiole Subgroup 4B)

Legume Vegetables (Edible-Podded Legume Vegetables; Dried Shelled Peas and Beans (except Soybean); Soybeans; Foliage of Legume Vegetables)

Noncropland (Conservation Reserve Program; Set-Aside Program Acreage; Wasteland; Rights-of-Way; Hedgerows; Ditchbanks;

Roadsides)

Okra

Peanuts

Prickly Pear Cactus

Root and Tuber Crops (Root and Tuber Crops except Sugar Beets and Sweet Potatoes; Sugar Beets; Sweet Potatoes)

Small Fruits and Berries (Bushberries, Caneberries, Cranberries, Grapes, Strawberries)

Sunflower

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

Ticks which Vector Lyme Disease

Imported Fire Ants

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 effective product performance.

ASPARAGUS

	PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Apache cicada Asparagus beetle	Cutworms	1	Repeat applications as necessary up to a total of 3 times prior to harvest or a total of 4 applications per year to spears and ferns combined. Do not apply more than once every 7 days.
			For cutworm, this product is most effective against species which feed on the upper portions of the plant.
		2	Application to ferns or brush growth following harvest of spears: Repeat applications as necessary but not more often than every 7 days. Do not make more than a total of 4 applications per year to spears and ferns combined.

RESTRICTIONS: ASPARAGUS

- Do not apply within 1 day of harvest.
- Do not apply more than a total of 3 quarts per acre before harvest of spears.
- Do not apply more than a total of 5 quarts per acre per year.
- Do not apply more than 4 applications per year.
- Re-Treatment Interval: 7 days.
- BEE CAUTION

Do not apply this product to target crops or weeds in bloom.

BRASSICA LEAFY VEGETABLES CROPS AND TURNIP GREENS

All members of the Brassica Leafy Vegetable Group 5, plus Turnip greens, including: Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccolo, Chinese broccoli (gai lon), Chinese cabbage (bok choy), Chinese cabbage (napa), Chinese mustard cabbage (gai choy), Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens, Turnip greens.

F	PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Flea beetles Harlequin bug Leafhoppers		1/2 to 1	Repeat applications as needed up to a total of 4 times per year but not more often than once every 7 days.
Armyworm Aster leafhopper Corn earworm Diamondback moth Fall armyworm Imported cabbageworm	Lygus bugs Spittle bugs Stink bugs Tarnished plant bug	1 to 2	

RESTRICTIONS: BRASSICA LEAFY VEGETABLES

- For Head and Stem Brassica subgroup 5A [including Broccoli, Chinese broccoli (gai lon), 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 [Broccoli raab (*rapini*), Chinese cabbage (*bok choy*), Collards, Kale, Mizuna, Mustard greens, Mustard spinach, Rape greens, and Turnip greens], do not apply within 14 days of harvest
- Do not apply more than a total of 6 quarts per acre per crop per year.
- Application is permitted only within 30 days from the date of crop emergence or the date of transplanting.
- BEE CAUTION

CEREAL GRAIN CROPS

FIELD CORN AND POPCORN

PEST		QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Armyworm	Japanese beetle	1 to 2	OBSERVE BEE CAUTION.
Chinch bugs Corn earworm Corn rootworm adults	Sap beetles Southwestern corn borer		Repeat applications as needed up to a total of 4 times per year but not more often than once every 14 days.
Fall armyworm Leafhoppers Flea beetles			Good timing and good coverage are essential for effective product performance.
European corn borer		1 1/2 to 2	For best results on chinch bug, use ground equipment to apply
Western bean cutworm	Cutworms	2	at least 20 gallons of water per acre and direct spray toward stalk to provide thorough coverage.
			For best results on European corn borer, do not apply in less than 15 gallons of water by ground.
			For western bean cutworm, treat when infestation averages 15% and at 90 to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness.
			For best results on cutworm, apply in a 12-inch band, over the row, using sufficient volume of water to obtain thorough coverage. For broadcast application, use at least 20 gallons by ground.
			For cutworm, this product is most effective against species which feed on the upper portions of the plant.

RESTRICTIONS: FIELD AND POP CORN

- Do not apply within 48 days of harvest of grain and fodder or within 14 days of harvest or grazing of forage or silage.
- Do not apply more than a total of 8 quarts per acre per crop per year.
- Hand harvesting is prohibited.
- Restricted-entry interval (REI) = 24 hours
 - EXCEPTION: the REI is 21 days for workers detasseling corn.

BEE CAUTION

For corn: 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. 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.

GRAIN SORGHUM

	PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Armyworm Chinch bugs	Fall armyworm Stink bugs	1 to 2	Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days.
Corn earworm	Webworms		Direct spray into forming heads for best results on insects
Southwestern corn		1 1/2	attacking heads.
borer			For best results on chinch bug, use high gallonage ground
Cutworms		2	application at the base of plants.
			For cutworm, this product is most effective against species which feed on the upper portions of the plant.

RESTRICTIONS: GRAIN SORGHUM

- 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 quarts per acre per crop per year.
- BEE CAUTION

SWEET CORN

PEST		QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Armyworm Chinch bugs Corn earworm Corn rootworm adults Fall armyworm Flea beetles	Japanese beetle Sap beetles Southwestern corn borer Leafhoppers	1 to 2	OBSERVE BEE CAUTION Repeat applications as necessary up to a total of 4 times per year but not more often than once every 3 days. Good timing and good coverage are essential for effective product performance. For insects attacking silks and ears, insecticide sprays should
European corn borer Western bean cutworm	Cutworms	1 1/2 to 2 2	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. For best results on chinch bug, use ground equipment to apply at least 20 gallons of water per acre and direct spray toward stalk to provide thorough coverage. For best results on European corn borer, do not apply in less than 15 gallons of water by ground. For western bean cutworm, treat when infestation average 15% and at 90 to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness. For best results on cutworm, apply in a 12-inch band, over the row, using sufficient volume of water to obtain thorough coverage. For broadcast application, use at least 20 gallons by ground. For cutworm, this product is most effective against species which feed on the upper portions of the plant.

RESTRICTIONS: SWEET CORN

- 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 8 quarts (8 lbs ai) per acre per crop per year.
- Do not apply more than 4 applications per year.
- Hand harvesting is prohibited.
- Restricted-entry interval (REI) = 24 hours

 EXCEPTION: the REI is 21 days for worker

EXCEPTION: the REI is 21 days for workers detasseling corn.

• BEE CAUTION

For corn: 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. 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.

CUCURBIT VEGETABLES

All members of the Cucurbit Vegetable Group 9 including: Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd (edible, includes hyotan, cucuzza, hechima, Chinese okra), *Momordica* spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of *Cucumis melo* including true cantaloupe, 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, spaghetti squash), Watermelon (includes hybrids and/or varieties of *Citrullus lanatus*).

PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Pickleworm Melonworm	1/2 to 1	Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days
Cucumber beetles Flea beetles Leafhoppers Squash bugs	1	For best results on squash bugs, apply sufficient spray volume for thorough coverage and time sprays for early morning or late afternoon.

RESTRICTIONS: CUCURBIT VEGETABLES

- Do not apply within 3 days of harvest.
- Do not apply more than a total of 4 quarts (4 lbs ai) per acre per crop per year.
- Do not apply more than 4 applications per year.
- Observe plant response precautions.
- BEE CAUTION

Do not apply this product to target crops or weeds in bloom.

FLAX

PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Armyworm	1 to 1 1/2	Up to 2 applications per crop per year may be made but not more often than once every 14 days.

RESTRICTIONS: FLAX

- 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 quarts per acre per crop per year.
- BEE CAUTION

FORAGE CROPS

ALFALFA, CLOVERS, AND BIRDSFOOT TREFOIL

PE	ST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Blister beetles Mexican bean beetle		1/2 to 1	OBSERVE BEE CAUTION. Observe plant response precautions.
Alfalfa caterpillar Bean leaf beetle Cucumber beetles Green cloverworm Japanese beetle Leafhoppers	Potato leafhopper Three cornered alfalfa hopper Thrips Velvetbean caterpillar	1	On dense growth, use 25 to 40 gallons of water per acre with ground equipment to ensure adequate coverage.
Alfalfa blotch leafminer Armyworm Cloverhead weevil Corn earworm Cutworms Egyptian alfalfa weevil larvae	Essex skipper European alfalfa beetle Fall armyworm Lygus bugs Stink bugs Webworms Yellow striped armyworm	1 to 1 1/2	For alfalfa weevil larvae, if pretreatment damage is extensive, cut alfalfa and treat the stubble. This product is not effective against adult alfalfa weevils. For cutworm, this product is most effective against species which feed on the upper portions of the plant.
Alfalfa weevil larvae (west of the Rocky Mountains)		1 to 1 1/2	
Alfalfa weevil larvae (east of the Rocky Mountains)		1 1/2	

RESTRICTIONS: FORAGE CROPS

- Do not apply more than once per cutting per year.
- Do not apply within 7 days of harvest or grazing.
- Do not exceed 1 1/2 quarts per acre per cutting.
- Carbaryl may cause a temporary bleaching of tender alfalfa foliage.
- BEE CAUTION

Do not apply this product to target crops or weeds in bloom.

PASTURE AND GRASSES GROWN FOR HAY AND/OR SEED

	PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Armyworm Chinch bugs Cereal rust mite Essex skipper Fall armyworm	Striped grass looper Thrips Range caterpillar Range crane fly	1 to 1 1/2	Up to 2 applications per year may be made but not more often than once every 14 days. To kill thrips in grasses grown for hay or seed, use high spray pressure to improve penetration into boot. Accurately mark swaths to avoid over-application.
Ticks*		1	*Will kill only ticks present at the time of application and directly contacted by product.

RESTRICTIONS: PASTURE AND GRASSES GROWN FOR HAY AND/OR SEED

- Do not apply within 14 days of harvest or grazing.
- Do not exceed a total of 3 quarts per acre per year.
- BEE CAUTION

RANGELAND

	PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Black grass bug	Range caterpillar Range crane fly	1/2 to 1	Do not make more than 1 application per year. Accurately mark swaths to avoid over-application.
Grasshoppers Mormon cricket	V V	1/2	Accurately mark swarrs to avoid over-application. Aerial application is allowed only through USDA APHIS and affiliated state grasshopper and Mormon Cricket suppression programs. Reduced Area and Agent Treatment (RAATs) is required. See the following web site for details – www.sidney.ars.usda.gov/Research/lockwood.htm
Ticks**		1	**Will kill only ticks present at the time of application and directly contacted by product.

RESTRICTIONS: RANGELAND

- May be harvested or grazed the same day as treatment.
- Do not apply more than 1 quart per acre per year.
- BEE CAUTION
 - Do not apply this product to target crops or weeds in bloom.
- USDA APHIS REDUCED AREA AND AGENT TREATMENTS (RAATS):

The RAATs approach takes advantage of grasshopper movement to allow SEVIN® brand 4F Carbaryl Insecticide to be applied at reduced rates on a reduced treated area while maintaining acceptable protection against grasshopper. Under this program, SEVIN® brand 4F Carbaryl Insecticide may be applied to as little as 50% of the infested area (treating a 100 ft swath, skipping a 100 ft swath), up to 100% of infested area. The amount of area treated will depend on grasshopper age, density and plant canopy. By leaving untreated swaths, the RAATs program provides reserves for natural biological control agents. This strategy fully utilizes an Integrated Pest Management approach for grasshopper. Apply 1/2 quart by ground or air on 50 – 100% of infested area for grasshopper nymphs between the 2nd and 5th instar. The rate to use per acre will depend on grasshopper age, population density, and plant canopy. Use the higher rates on more mature grasshoppers, severe infestations and dense vegetation. Use the lower rates on younger grasshoppers, light to moderate infestations and sparse vegetation. Consult with the local grasshopper control experts in your area for the proper rate and swath width to use under your conditions.

FRUITING VEGETABLES

All members of the Fruiting Vegetable Group 8 including: Eggplant, Groundcherry, Pepinos, Pepper (includes: bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, Tomato.

Р	EST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Colorado potato beetle	Tomato hornworm Tomato pinworm	1 to 2	Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days.
European corn borer Fall armyworm Lace bugs			Thorough coverage is essential to effectively suppress stink bugs.
Stink bugs (suppression) Tarnished plant bug Thrips (suppression)			When disease transmission is suspected, monitor fields following application and retreat if reinfestation occurs but not more often than once every 7 days.
Tomato fruitworm Flea beetles Leafhoppers		1/2 to 1	For cutworm, this product is most effective against species which feed on the upper portions of the plant.
Cutworms		2	

RESTRICTIONS: FRUITING VEGETABLES

- Do not apply within 3 days of harvest.
- Do not apply more than a total of 8 quarts per crop per year.
- Do not apply more than 4 times per year.
- BEE CAUTION

LEAFY VEGETABLES

Dandelion; Endive (escarole); Lettuce (head and leaf); Parsley; Spinach;

All members of the Leaf Petiole Vegetable Subgroup 4B including: Cardoon, Celery, Celtuce, Chinese celery, Florence fennel (including sweet anise, sweet fennel, Finocchio), Rhubarb, Swiss chard.

	PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Flea beetles Harlequin bug Leafhoppers		1/2 to 1	Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days.
Armyworm Aster leafhopper Corn earworm Fall armyworm Imported cabbageworm	Lygus bugs Spittlebugs Stink bugs Tarnished plant bug	1 to 2	

RESTRICTIONS: LEAFY VEGETABLES

- Do not apply within 14 days of harvest.
- Do not apply more than a total of 6 quarts per acre per crop per year.
- Do not apply more than 4 times per year.
- BEE CAUTION

Do not apply this product to target crops or weeds in bloom.

LEGUME VEGETABLES

All members of the Edible Podded Legume Vegetable Subgroup 6A including: Phaseolus sp. including runner bean, snap bean, and wax bean; Vigna sp. including asparagus bean, Chinese longbean, moth bean, and yardlong bean; Pisum sp. 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 Vegetable (except soybean) Subgroup 6C including: Lupinus sp. including grain lupin, sweet lupin, white lupin, and white sweet lupin; Phaseolus sp. including field bean, kidney bean, dry lima bean, navy bean, pinto bean, tepary bean; Vigna sp. including adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, Urd bean; Pisum sp. 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); Pigeon pea (dry);

All members of the Foliage of Legume Vegetables Crop Group 7: Plant parts of any legume vegetables included in the legume vegetable (Crop Group 6) that will be used as animal feed;

Soybeans.

Soybeans.			
PEST		QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Bean leaf beetle Blister beetle	Green cloverworm Japanese beetle	1/2 to 1	Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days.
Cucumber beetles Grape colapsis	Mexican bean beetle Velvetbean caterpillar		For cutworm, this product is most effective against species which feed on the upper portions of the plant. Use lower rates for light to moderate populations and smaller
Corn earworm		1/2 to 1 1/2	instars
Alfalfa caterpillar Colorado potato beetle Flea beetles Leafhoppers	Three cornered alfalfa hopper Thrips Western bean cutworm	1	Use the higher rates for heavy populations and larger instars.
Armyworm Cutworms European corn borer Fall armyworm	Stink bugs Tarnished plant bug Webworms	1 to 1 1/2	

Alfalfa looper (suppression) Cowpea curculio (suppression) Painted lady (Thistle caterpillar) Pea leaf weevil	Pea weevil Saltmarsh caterpillar Woollybean caterpillar Yellowstriped armyworm	1 1/2
California only: Corn earworm (suppression) Limabean podborer (suppression)	Lygus bugs (suppression) Stink bugs (suppression)	1 1/2

RESTRICTIONS: LEGUME VEGETABLES

- 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 quarts 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.
- Use on succulent, shelled peas and beans (Crop Subgroup 6B) is prohibited.
- Observe plant response precautions.
- DO NOT USE ON LENTILS IN CALIFORNIA
- 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 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.

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.

NONCROPLAND

Conservation Reserve Program Acreage, Set-Aside Program Acreage, Wasteland, Rights-of-Way, Hedgerows,

Ditchbanks. Roadsides

Ditchballes, Noausides	QUARTS OF THIS	
PEST	PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Black grass bug	1/4 to 1/2 quart per acre	Up to 2 applications per year may be made but not more often than once every 14 days.
	(3/16 to 3/8 fl. oz per 1000 ft ²)	
Range caterpillar Range crane fly	1/2 to 1 quart per acre	Accurately mark swaths to avoid over-application.
	(3/8 to 3/4 fl. oz per 1000 ft ²)	
Mormon cricket	1/2 quart per acre	
	(3/8 fl. oz. per 1000 ft ²)	
Ticks*	1 quart per acre	* Will kill only pests that are present at the time of application and directly contacted by product.
	(3/4 fl. oz per 1000 ft ²)	

RESTRICTIONS: NONCROPLAND

- Do not apply within 14 days of grazing or harvest for forage or hay.
- Do not apply more than a total of 3 quarts per acre per year.
- BEE CAUTION

OKRA*

PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Corn earworm	1 to 1 1/2	Apply using ground equipment in sufficient volume to insure
Stink bugs		good coverage.
		Apply as needed on 6 to 8 day intervals.
		For grasshopper, refer to the general Grasshopper Section.

RESTRICTIONS: OKRA

- Do not apply within 3 days of harvest.
- Do not apply more than a total of 6 quarts per acre per year.
- BEE CAUTION

Do not apply this product to target crops or weeds in bloom.

PEANUTS

PEST		QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Blister beetles Mexican bean beetle		1/2 to 1	Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days.
Alfalfa caterpillar Bean leaf beetle Cucumber beetle Green cloverworm Japanese beetle Leafhoppers	Rednecked peanutworm Three cornered alfalfa hopper Thrips Velvetbean caterpillar	1	For best results on thrips, use directed or banded sprays with hollow cone spray nozzles. Ensure adequate coverage for the underside of leaves. For cutworm, this product is most effective against species which feed on the upper portions of the plant.
Armyworm Corn earworm Fall armyworm	Stink bugs Webworms	1 to 1 1/2	
Whitefringed beetle adults	Cutworms	2	

RESTRICTIONS: PEANUTS

- Do not apply within 14 days of harvest.
- Do not apply more than a total of 8 quarts per acre per crop per year.
- Do not apply more than 4 times per year.
- Observe plant response precautions.
- BEE CAUTION

^{*} Use not permitted in CA.

PRICKLY PEAR CACTUS*

PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Cochineal scale (crawlers)	2	Apply using ground equipment in sufficient volume to insure good coverage.
		Apply as needed on 7 to 10 day intervals.
		For grasshopper, refer to the general Grasshopper Section.

RESTRICTIONS: PRICKLY PEAR CACTUS

- Do not apply within 3 days of harvest.
- Do not apply more than a total of 6 quarts per acre per year.
- Do not apply more than 4 times per year.
- BEE CAUTION

Do not apply this product to target crops or weeds in bloom.

ROOT AND TUBER CROPS

ROOT AND TUBER CROPS EXCEPT SUGAR BEETS AND SWEET POTATOES

All members of the Root and Tuber Vegetable Crop Group 1 except sugar beet and sweet potato: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden), Beet (sugar, root), Burdock (edible), Canna (edible, Queensland arrowroot), Carrot, Cassava (bitter & sweet), Celeriac (celery root), Chayote (root), Chervil (turnip-rooted), Chicory, Chufa, Dasheen (taro), Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip, Potato, Radish, Oriental radish (daikon), Rutabaga, Salsify (black), Salsify (oyster plant), Salsify (Spanish), Skirret, Tanier (cocoyam), Turmeric, Turnip, Yam bean (jicama, manoic pea), Yam (true).

PI	EST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Flea beetles Leafhoppers		1/2 to 1	Repeat applications as necessary up to a total of 6 times per year but not more often than once every 7 days.
Armyworm Aster leafhopper Colorado potato beetle Corn earworm Cutworms European corn borer Fall armyworm	Lace bugs Lygus bugs Spittlebugs Stink bugs Tarnished plant bug	1 to 2	For cutworm, this product is most effective against species which feed on the upper portions of the plant.

RESTRICTIONS: ROOT AND TUBER CROPS EXCEPT SUGAR BEETS AND SWEET POTATOES

- Do not apply within 7 days of harvest.
- Do not apply more than a total of 6 quarts per acre per crop per year.
- BEE CAUTION

^{*} Use not permitted in CA.

SUGAR BEETS

	PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Armyworm Beet leaf beetle Fall armyworm	Flea beetles Leafhoppers Webworms	1 to 1 1/2	Repeat applications as necessary up to a total of 2 times per year but not more often than once every 14 days. For cutworm, this product is most effective against species
Cutworms		1 1/2	which feed on the upper portions of the plant.

RESTRICTIONS: SUGAR BEETS

- Do not apply within 28 days of harvest for roots or forage.
- Do not apply more than a total of 3 quarts per acre per crop per year.
- BEE CAUTION

Do not apply this product to target crops or weeds in bloom.

SWEET POTATOES

	PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Corn earworm Cucumber beetles Flea beetles Sweet potato hornworm	Sweet potato weevil Tortoise beetles Whitefringed beetle	1 to 2	For foliar sprays, repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days.
Yellowstriped armyworm		2	

RESTRICTIONS: SWEET POTATOES

- Do not apply within 7 days of harvest.
- Do not apply more than a total of 4 quarts (4 lbs ai) per acre per crop per year.
- Do not apply more than 4 applications per year.
- BEE CAUTION

SMALL FRUITS AND BERRIES

All members of the Caneberry Subgroup 13-07A including:

Blackberry (*Rubus* spp. - including Andean Blackberry, Arctic blackberry, Bingleberry, Black satin berry, Boysenberry, Brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyene blackberry, Common blackberry, Coryberry, Darrowberry, Dewberry, Dirksen thornless berry, Evergreen blackberry, Himalayaberry, Hullberry, Lavacaberry, Loganberry, Lowberry, Lucretiaberry, Mammoth blackberry, Marionberry, Mora, Mures deronce, Nectarberry, Northern dewberry, Olallieberry, Oregon evergreen berry, Phenomenalberry, Rangeberry, Ravenberry, Rossberry, Shawnee blackberry, Southern dewberry, Tayberry, Youngberry, Zarzamora, plus cultivars, varieties and/or hybrids of these).

Raspberry (*Rubus* spp. - including Bababerry, Black raspberry, Blackcap, Caneberry, Framboise, Frambueso, Himbeere, Keriberry, Mayberry, Purple raspberry, Red raspberry, Thimbleberry, Tulameen, Wild raspberry, Yellow raspberry, plus cultivars, varieties and/or hybrids of these).

All members of the Bushberry Subgroup 13-07B including: Aronia berry, Blueberry (*Vaccinium* spp. - highbush, lowbush and cultivars and/or hybrids of these [= all blueberry species]), Chilean guava, Currant (black, buffalo, native and red), European barberry, Gooseberry, Highbush cranberry, Honeysuckle (edible), Huckleberry, Jostaberry, Juneberry, Lingonberry, Salal, Sea buckthorn, plus cultivars, varieties and/or hybrids of these.

Cranberries; Grapes; Strawberries.

PE	PEST		SPECIFIC DIRECTIONS
European fruit lecanium European raspberry aphid Flea beetles Grape leaffolder Grape leafroller Japanese beetle Leafhoppers Leafrollers Meadow spittlebug Omnivorous leaftier	Rose chafer Snowy tree cricket Strawberry bud weevil Strawberry clipper Strawberry fruitworm Strawberry leafroller Strawberry weevil Western grapeleaf skeletonizer Western yellowstriped armyworm	1 to 2	OBSERVE BEE CAUTION. Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days. For cutworm, this product is most effective against species which feed on the upper portions of the plant. In grapes for grape leaffolder, apply before first brood larvae emerge from rolls.
Blueberry maggot Cherry fruitworm Cranberry fireworm Cranberry fruitworms Cranberry twig girdler	Elm spanworm Gypsy moth Spaganothus worm Tarnished plant bug	1 1/2 to 2	In grapes, do not concentrate spray on the bunch or visible residues may result.
Eight-spotted forester Cutworms Grape berry moth June beetles Omnivorous leafroller	Orange tortrix Raspberry fruitworm Raspberry sawfly Redbanded leafroller Saltmarsh caterpillar	2	

RESTRICTIONS: SMALL FRUITS AND BERRIES

- Do not apply within 7 days of harvest.
- Do not apply more than a total of 8 quarts (8 lbs ai) per acre per crop per year.
- Do not apply more than 4 applications per year.
- 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.
- For **GRAPES** only:

East of the Rocky Mountains, the restricted-entry interval (REI) = 2 days for all activities except grape girdling and cane turning.

EXCEPTION: the REI is 6 days for grape girdling and cane turning.

West of the Rocky Mountains, the restricted-entry interval (REI) = 6 days

Restricted-entry interval (REI) = 12 hours for Caneberries, Bushberries, Cranberries, and Strawberries

BEE CAUTION

SUNFLOWERS

	PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Stem weevil Sunflower beetle		1 to 1 1/2	Up to 2 applications may be made per year but not more often than once every 7 days.
Armyworm Cutworms	Fall armyworm Sunflower moth	1 1/2	For cutworm, this product is most effective against species which feed on the upper portions of the plant.

RESTRICTIONS: SUNFLOWERS

- 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 quarts per acre per crop per year.
- BEE CAUTION
 - Do not apply this product to target crops or weeds in bloom.
- DO NOT USE IN CALIFORNIA.

TOBACCO

PEST		QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Budworms Fall armyworm Tobacco flea beetles	Japanese beetle June beetle Suckfly	1 to 2	Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per year but not more often than once every 7 days.
Hornworms			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.

RESTRICTIONS: TOBACCO

- Do not apply within 2 days of harvest.
- Do not apply more than a total of 8 quarts per acre per crop per year.
- Observe plant response precautions.
- Restricted-entry interval (REI) = 2 days (48 hours).
- BEE CAUTION

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, and density, and other factors.

CITRUS FRUITS

All members of the Citrus Fruit Group 10 including: Calamondin, Citrus citron, Citrus hybrids (*Citrus* spp., includes chironja, tangelo and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (sweet and sour), Pummelo, Satsuma mandarin, White sapote (*Casimiroa* spp.), and other cultivars and/or hybrids of these.

PEST		QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Avocado leafroller California orangedog Citrus cutworm Fruittree leafroller	Orange Tortrix Western tussock moth	2 to 3	OBSERVE BEE CAUTION. Repeat applications as necessary up to a total of 4 times per year but not more often than once every 14 days.
Citrus rust mite Eriophyid mites	Plant bugs Scale insects [Black scale, brown soft scale, California red scale (except in California), citrus snow scale, yellow scale (except in California)]	3 to 5	For scale, apply when crawlers are present. For best results on Eriophyid mites including citrus rust mite, apply when pest populations are low.
Apopka weevil (adult) Citrus root weevils (adults)	Fuller Rose Beetle Little leaf notcher (adult)	5	
California only: California red scale	Yellow scale	5 to 12	Do not make more than 1 application per crop per year for California red scale. Apply when crawlers are present.
Florida only: Adult citrus weevils (such as, Diaprepes abbreviatus, Pantomorus cervinus, Artipes floridanus, and Pachnaeus spp.)		5 to 8	Apply as a foliar spray in adequate volume to obtain uniform coverage. May be applied by ground as a dilute or concentrate spray. Repeat application as necessary up to a total of 3 times per crop per year but not more often than once every 14 days.

RESTRICTIONS: CITRUS FRUITS

All States including Florida and California:

- Do not apply within 5 days of harvest.
- Do not apply more than a total of 20 quarts per acre per crop per year.
- Do not apply more than 4 applications per year.
- Do not exceed 5.0 lbs ai/A for a single application of carbaryl containing products for all combined uses except for California red scale (*Aonidiella aurantii*) outbreaks that cannot be otherwise managed in California. SEVIN® brand 4F Carbaryl Insecticide may be applied at 12 lb ai/A in California in rotation with other insecticides only if California red scale (*Aonidiella aurantii*) is the target.

California only:

- Restricted-entry interval (REI) =3 days for application rates ≥ 5 quarts per acre.
- Do not apply more than 12 quarts per acre per application.
- Do not treat red scale on citrus in California at rates > 5 lbs ai/A within any Pesticide Use Limitation Area for federally listed threatened or endangered species under the National Marine Fisheries Services' jurisdiction. See "Endangered and Threatened Species Protection Requirements" under "Directions for Use".
- Maximum number of applications per year is 1.
- Maximum annual application rate for this and all other carbaryl product treatments in citrus combined is 20 lb ai/A/year.
- Do not apply this or other carbaryl products on California citrus within 14 days of applications for California red scale.

Florida only:

- Restricted-entry interval (REI) = 12 hours
- Do not apply more than 8 quarts per acre per application.

All States other than California and Florida:

- Restricted-entry interval (REI) = 12 hours
- Do not apply more than 5 quarts per acre per application.
- BEE CAUTION

Do not apply this product to target crop in bloom. Mowing weed or cover crop bloom prior to applying this product will reduce hazard to bees.

OLIVES

PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Scale insects (olive scale, black scale)	5	Up to 2 applications per crop may be made but not more often than once every 14 days.

RESTRICTIONS: OLIVES

- Do not apply within 14 days of harvest.
- Do not apply mor than a total of 5 quarts (5 lbs ai) per acre per application.
- Do not apply more than a total of 10 quarts (10 lbs ai) per acre per crop per year.
- Restricted-entry interval (REI) = 3 days (72 hours).
- 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.

POME FRUITS

Members of the Pome Fruit Group 11 including: Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental pear.

PE	ST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
White apple leafhopper		1/2 to 1 1/2	OBSERVE BEE CAUTION
Apple aphid	Codling moth	1 to 3	On apples, avoid use during the period from full bloom until 30 days after full bloom unless fruit thinning is desired. Use for posticidal potivity during this period may also recult in fruit
Apple aphid Apple maggot Apple maggot Apple mealybug Apple rust mite Bagworms California pearslug (pear sawfly) European apple sawfly Eyespotted bud moth Fruittree leafroller Gypsy moth Japanese beetle Lesser appleworm Lygus bugs Orange tortrix	Pearleaf blister mite Pear psylla Pear rust mite Periodical cicada Plum curculio Redbanded leafroller Rosy apple aphid Scale insects (Forbes scale, Lecanium scale, San Jose scale) Tarnished plant bug Tentiform leafminers Woolly apple aphid Yellowheaded fireworm	1 1/2 to 3	pesticidal activity during this period may also result in fruit removal. Repeat applications as necessary up to a total of 4 times per crop (including thinning sprays on apples) but not more often than once every 14 days. For psylla, apply when eggs hatch or young nymphs are present. For scale, apply when crawlers are present.

POME FRUITS (continued)

		QUARTS OF THIS PRODUCT	
CROP	PEST	PER ACRE	SPECIFIC DIRECTIONS
Apples Only, for Fruit		1 to 3	OBSERVE BEE CAUTION
Thinning			Apply 1 to 3 quarts per acre of SEVIN® brand 4F Carbaryl Insecticide between 80% petal fall and 16 mm fruit size. Use the higher rates on hard to thin varieties at the early timing which is the 80% petal fall to 6 mm fruit size. Use the lower rates on easy to thin varieties and at the later thinning period which is the 10 to 16 mm fruit size. The rate to use per acre will depend on varieties, tree size, row spacing, weather conditions at the time of and following applications.
			The most effective spray gallonage will depend on the tree size, planting density, row spacing and amount of foliage. Use sufficient spray volume to insure adequate coverage (100 to 400 gallons/acre). Avoid spray to the point of runoff. Reduce spray coverage to the lower portion of the tree since overthinning may occur here.
			Factors such as climatic temperature, high humidity, frost, tree age, variety, nutrition, previous crop, pruning and bloom may influence fruit thinning results with the product. Exercise caution to avoid possible overthinning. For the most effective results, apply under good drying conditions and when daytime temperatures (°F) will be 70 to low 80's for the following one to three days. Application with daytime temperatures in excess of 80° F may result in overthinning.
			SEVIN brand 4F Carbaryl Insecticide may be mixed with other fruit thinners, however, use caution to avoid overthinning and other adverse effects. Consult with local fruit thinning experts in your area for recommendations on appropriate tank mixing partners. Refer to the other product labels for specific use directions.
			NOTE: The use of SEVIN brand 4F Carbaryl Insecticide may result in fruit deformity under certain environmental conditions. Before using on any variety of apples, the user must weigh the risk versus benefits when using this product, particularly when using between 80% petal fall and 6 mm fruit size. Red Delicious are more sensitive to this phenomenon and in particular, the varieties Bisbee, Red Chief and Vallee Spur are very susceptible to conditions causing fruit deformity. Precipitation and temperatures below 65° F increases the possibility of fruit deformity. The use with summer spray oils and wetting agents may increase the risk of fruit deformity and injury. Consult with fruit thinning experts in your area for advice on using this product on specific apple varieties under local growing conditions or other questions. Observe all restrictions on the use of this product for apple thinning.

RESTRICTIONS: POME FRUITS

- 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 12 quarts (12 lbs ai) per acre per crop per year.
- Do not make more than a total of 4 applications per crop per year.

FOR PROTECTION OF HONEY BEES:

• 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 risk to bees.

Drift Management

For airblast application, follow the following drift management practices:

Adjust deflectors and aiming devices so that 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

All members of the Stone Fruit Group 12 including: Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh).

PE	еѕт	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Apple pandemis Black cherry aphid Cherry fruitworm Cherry maggot (Cherry fruit fly) Codling moth Cucumber beetles Eastern tent caterpillar Eyespotted bud moth European earwig Fruittree leafroller Green fruitworm Gypsy moth Japanese beetle June beetle Lesser peachtree borer Mealy plum aphid	Orange tortrix Oriental fruit moth Peach twig borer Periodical cicada Plum curculio Prune leafhopper Redbanded leafroller Rose chafer Scale insects (Brown soft scale, Forbes scale, Lecanium scale, Olive scale, Oystershell scale, San Jose scale) Tarnished plant bug Tussock moth Variegated leafroller	2 to 3	OBSERVE BEE CAUTION. Repeat applications as necessary up to a total of 3 times per crop but not more often than once every 7 days. An additional application at the dormant or delayed dormant timing may be made. For best results on scale, apply when crawlers are present. For lesser peachtree borer, best results have been found by thoroughly spraying limbs and tree trunks at weekly intervals during moth flight.
Peach twig borer	Scale insects (Brown soft scale, Forbes scale, Lecanium scale, Olive scale, Oystershell scale, San Jose scale)	4 to 5	For dormant or delayed dormant timing, apply in combination with a recommended dormant oil. Refer to the dormant oil product label for additional use directions and restrictions.
Californ	,		
Black cherry aphid Cherry fruitworm Cherry maggot (Cherry fruit fly) Codling moth Cucumber beetles Eyespotted bud moth European earwig Fruittree leafroller Green fruitworm Mealy plum aphid Orange tortrix	Oriental fruit moth Peach twig borer Scale insects (Brown soft scale, Forbes scale, Lecanium scale, Olive scale, Oystershell scale, San Jose scale) Tarnished plant bug Tussock moth	3 to 4	OBSERVE BEE CAUTION. Repeat applications as necessary up to a total of 3 times per crop but not more often than once every 14 days. An additional application at the dormant or delayed dormant timing may be made. For best results on scale, apply when crawlers are present.

RESTRICTIONS: STONE FRUIT

- Do not apply within 3 days of harvest, except in California. In California, do not apply within 1 day of harvest.
- All States including California:

Do not apply more than a total of 14 quarts per acre per crop per year.

Do not apply more than a total of 5 quarts per acre at the dormant or delayed dormant timing.

Do not apply more than a total of 9 quarts per acre during the production season.

California only:

Do not apply more than 4 quarts per acre per application during the production season.

All States other than California:

Do not apply more than 3 quarts per acre (3 lbs ai/A) per application during the production season.

BEE CAUTION

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.

PISTACHIOS

PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Brown soft scale Lecanium scale Navel orangeworm	3 to 5	Repeat applications as necessary up to a total of 4 times per crop per year (including any applications at the dormant or delayed dormant timing) but not more often than once every 7 days. For scale, apply when crawlers are present.
Scale insects	4 to 5	For dormant or delayed dormant timing, apply in combination with a recommended dormant oil. Refer to the dormant oil product label for additional use directions and restrictions.
California only: Armyworm Navel orangeworm	3 to 6	Do not make more than 1 application at the maximum rate of 6 quarts per acre per crop per year for armyworm and navel orangeworm. If needed, make up to 3 additional applications per crop per year at a rate not exceeding 5 quarts per acre (including any applications at the dormant or delayed dormant timing) but not more often than once every 7 days.

RESTRICTIONS: PISTACHIOS

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

TREE NUTS

All members of the Tree Nut Group 14 including: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [including black and English (Persian) walnuts].

PEST		QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Black margined aphid	Navel orangeworm	2 to 5	OBSERVE BEE CAUTION
Calico scale Codling moth European fruit lecanium	Peach twig borer Pecan leaf phylloxera Pecan stem		Repeat applications as necessary up to a total of 4 times per crop (including any applications at the dormant or delayed dormant timing) but not more often than once every 7 days.
Fall webworm Filbert aphid	phylloxera Pecan nut		Use lower rates for pests attacking leaves. Use higher rates for pests attacking fruit and for higher infestations.
Filbert leafroller Filbertworm	casebearer		For scale, apply when crawlers are present.
Frosted scale Fruittree leafroller Hickory shuckworm	Pecan spittlebug Pecan weevil San Jose scale Twig girdler		For peach twig borer, best results with foliar applications have been found by making applications in "popcorn" or petal fall stages when the May brood begins to hatch.
Lesser webworm	Walnut caterpillar		For navel orangeworm in almonds and walnuts, best results have been found by timing early and midseason applications to correspond with moth flight peaks.
			For filbert leafroller, best results have been found by making applications when eggs are hatching, repeating application on first appearance of moths and again 3 to 4 weeks later.
			For codling moth in walnuts, best results have been found by making applications when average cross-sectional diameters of developing nuts are 0.5 to 0.75 inches and again during middle or late June as needed.
Chestnut weevil	European earwig	4 to 5	For chestnut weevil, best results have been found with 4 applications at weekly intervals beginning in late July. The last application should be made prior to shuck split.
			For European earwig, thorough coverage of trunks, branches, and nuts is needed for best results.
Almonds only Peach twig borer	Scale insects	4 to 5	For dormant or delayed dormant timing, apply in combination with a recommended dormant oil. Refer to the dormant oil product label for additional use directions and restrictions.

RESTRICTIONS: TREE NUTS

- Do not apply within 14 days of harvest.
- Do not apply more than a total of 15 quarts per acre per crop per year, including any application at the dormant or delayed dormant timing.
- BEE CAUTION

FORESTED AREAS AND RANGELAND TREES

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

Forested areas: Forests, Tree Plantations, Planted Christmas Trees, Parks, Rural Shelter Belts; Rangeland Trees.

PE	ST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Ants (except harvester,	Maple leafcutter	1 quart per acre	Observe plant response precautions.
pharaoh and carpenter) Apple aphid Armyworm	Mealy bugs Mimosa webworm Nantucket pine tip moth	(3/4 fl. oz per 1000 ft²)	Obtain thorough coverage of upper and lower leaf surfaces. The addition of a sticker may improve product performance.
Ash whitefly Azalea leafminer Bagworms	Oak leafminers Oak moth Oak skeletonizer		To kill scale insects, treat trunks, stems and twigs in addition to plant foliage.
Balsam twig aphid	Oakworm complex		For best results on worm, treat when pests are small.
Birch leafminer Blister beetle Boxelder bug Boxwood leafminer	Oleander caterpillar Olive ash borer Orange-striped oakworm Periodical cicada		Make applications for maple leafcutter on sugar maple when larvae are in 2nd instar after mining and as cases are being formed.
Brown tail moth Catalpa sphinx	Pine looper Pine sawfly		Repeat treatments as necessary up to a total of 2 times per year but not more often than once every 7 days.
Chiggers* Cooley spruce gall adelgid Cutworms Cypress tip moth Douglas-fir tussock moth Eastern spruce gall adelgid Elm leaf aphid Elm leaf aphid Elm leaf beetle Eriophyid mites European pine shoot moth Fall armyworm Flea beetle Fuschia gall mite Fuller rose beetle Gall midges Gall wasps Greenstriped mapleworm Grasshoppers Hackberry nipplegall maker Holly bud moth Holly leafminer Jackpine budworm Japanese beetle Jeffrey pine needleminer June beetles	Pine spittlebug Pitch pine tip moth Spruce budworm Plant bugs Poinsettia hornworm Psyllids Puss caterpillar Redhumped oakworm Rose aphid Rose chafer Rose slug Saddled prominent Sawflies (exposed) Scale insects (crawlers) Sowbugs Spiney elm caterpillar Springtails Spruce needleminer Subtropical pine tip moth Tent caterpillars Thorn bug Thrips (exposed) Walnut caterpillar Webworms Western spruce budworm Willow leaf beetles Wooly gall aphid Yellow poplar weevil		For gypsy moths, use the higher rate for heavy infestations.
Lace bugs Leafhoppers Leafrollers Locust borer			
Gypsy Moth		3/4 to 1 quart per acre	
		(1/2 to 3/4 fl. oz per 1000 ft ²)	
Ticks*		1 quart per acre (3/4 fl. oz per 1000 ft ²)	* Will kill only pests that are present at the time of application and directly contacted by product.

FORESTED AREAS AND RANGELAND TREES, CONTINUED

Forested areas: Forests, Tree Plantations, Planted Christmas Trees, Parks, Rural Shelter Belts; Rangeland Trees

PEST	FL OZ THIS PRODUCT	SPECIFIC DIRECTIONS
. = 4 :	5 fluid ounces per gallon	Direct Trunk Treatment: Effective as a preventative treatment only. Treat annually to prevent beetle attacks. Apply 1 gallon of spray per 50 square feet of bark prior to beetle flight or host-tree attack. Treat tree trunk from ground level up, until trunk diameter is less than 5 inches. For elm bark beetle: apply approximately 20-30 gallons of spray
		mixture for each 50 feet of elm tree for thorough coverage of all bark surfaces on trunks, limbs and twigs. Do not make more than 2 applications per year or repeat applications more often than once every six months.

RESTRICTIONS: FORESTED AREAS AND RANGELAND TREES

- Do not make more than 2 foliar applications and 2 direct trunk treatments per year.
- 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.
- BEE CAUTION: Do not apply this product to plants in bloom.

ORNAMENTAL TREES AND PLANTS

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

Roses, Flowers, Other Herbaceous Plants, Woody Plants, Evergreens, and Shrubs.

PEST		QUARTS OF THIS PRODUCT	SPECIFIC DIPECTIONS	
			SPECIFIC DIRECTIONS Observe plant response prescritions	
Ants (except harvester, pharaoh and carpenter)	Maple leafcutter Mealy bugs	1 quart per acre	Observe plant response precautions.	
. ,	Mimosa webworm	or	Obtain the rough coverage of upper and lower loof	
Apple aphid		per 100 gal	Obtain thorough coverage of upper and lower leaf	
Armyworm	Nantucket pine tip	(¾ fluid oz. per 1000 ft²)	surfaces. The addition of a sticker may improve	
Ash whitefly	moth		product performance.	
Azalea leafminer	Oak leafminers			
Bagworms	Oak moth		To kill scale insects, treat trunks, stems and twigs in	
Balsam twig aphid	Oak skeletonizer		addition to plant foliage.	
Birch leafminer	Oakworm complex			
Blister beetle	Oleander caterpillar		For best results on worms, treat when pests are	
Boxelder bug	Olive ash borer		small.	
Boxwood leafminer	Orange-striped			
Brown tail moth	oakworm		Make application for maple leafcutter on sugar	
Catalpa sphinx	Periodical cicada		maple when larvae are in 2 nd instar after mining and	
Chiggers*	Pine looper		as cases are being formed.	
Cooley spruce gall	Pine sawfly			
adelgid	Pine spittlebug		Repeat treatments as necessary up to a total of 4	
Cutworms	Pitch pine tip moth		times per year but not more often than once every 7	
Cypress tip moth	Spruce budworm		days.	
Douglas-fir tussock	Plant bugs		auyo.	
moth	Poinsettia hornworm		For gypsy moths, use the higher rate for heavy	
Eastern spruce gall	Psyllids		infestations.	
adelgid	Puss caterpillar		iniestations.	
Elm leaf aphid	Redhumped oakworm			
Elm leaf beetle	Rose aphid			
Eriophyid mites	Rose chafer			
European pine shoot	Rose slug			
moth	Saddled prominent			
Fall armyworm	Sawflies (exposed)			
Flea beetle	Scale insects			
Fuchia gall mite	(crawlers)			
Fuller rose beetle	Sowbugs			
Gall midges	Spiney elm caterpillar			
Gall wasps	Springtails			
Glassy winged	Spruce needleminer			
sharpshooter	Subtropical pine tip			
Greenstriped	moth			
mapleworm	Tent caterpillars			
Grasshoppers	Thorn bug			
Hackberry nipplegall	Thrips (exposed)			
maker	Walnut caterpillar			
Holly bud moth	Webworms			
Holly leafminer	Western spruce			
Jackpine budworm	budworm			
Japanese beetle	Willow leaf beetles			
Jeffrey pine	Wooly gall aphid			
needleminer	Yellow poplar weevil			
June beetles	sien pepiai weem			
Lace bugs				
Leafhoppers				
Leafrollers				
Locust borer				
		3/ to 1	-	
Gypsy Moth		3/4 to 1 quart per acre		
		or		
		per 100 gal (1/2 to ¾ fluid oz. per 1000 ft²)		

ORNAMENTAL TREES AND PLANTS, CONTINUED

Roses, Flowers, Herbaceous Plants, Woody Plants, Evergreens, and Shrubs.

	FL OZ OF THIS	
PEST	PRODUCT	SPECIFIC DIRECTIONS
Ticks*	1 quart per acre	
	or	
	per 100 gal	*Will kill only pests that are present at the time of
	(3/4 fluid oz. per 1000 ft ²)	application and directly contacted by product.
Elm bark beetle	5 fluid ounces per	Direct Trunk Treatment:
Ips engraver beetles	gallon	
Mountain pine beetle		Effective as a preventative treatment only. Treat
Roundheaded pine		annually to prevent beetle attacks.
beetle		
Spruce beetle Western pine beetle		Apply 1 gallon of spray per 50 square feet of bark prior to beetle flight or host-tree attack. Treat tree trunk from ground level up, until trunk diameter is less than 5 inches.
		less than 3 mones.
		For elm bark beetle: apply approximately 20-30 gallons of spray mixture for each 50 feet of elm tree for thorough coverage of all bark surfaces on trunks, limbs and twigs.
		Do not make more than 2 applications per year or repeat applications more often than once every six months.

RESTRICTIONS: ORNAMENTAL TREES AND PLANTS

- Do not make more than 4 applications per year, of which a maximum of 2 direct trunk applications are allowed...
- Do not apply more than a total of 4 quarts (4 lbs ai) per acre per crop per year.
- 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.
- Restricted-entry interval (REI) = 12 hours.
- EXCEPTION: the restricted-entry interval 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 restricted-entry interval 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).
- BEE CAUTION: Do not apply this product to plants in bloom.

TURFGRASS

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

Turfgrass: golf turf, sports fields, sod farms, domestic and commercial lawns, cemeteries, parks, campsites, recreational areas,

		QUARTS OF THIS PRODUCT PER	
PEST		ACRE	SPECIFIC DIRECTIONS
Ants (except harvester, pharaoh and carpenter ants)* Armyworm Cutworms Essex skipper European chafer Fall armyworm Fiery skipper Grasshoppers Green June beetle larvae Leafhoppers	Lucerne moth Millipedes Mosquitoes (adults)* Scarab beetle adults (May beetle, June beetle, Japanese beetle, green June beetle) Sowbugs Spittlebugs Yellowstriped armyworm	2 to 4 (1 ½ to 3 fl. oz. per 1000 SQ. FT.)	For Armyworm, Cutworm, and Fall Armyworm: Do not irrigate treated areas within 24 hrs. following insecticide application. For Green June Beetle Grub (larvae): Make application when grubs are feeding near the soil surface. Water or irrigate turfgrass within 48 hours after treatment. Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days. *Will kill only pests that are present at the time of
Ticks*		1 quart per acre (¾ fl. oz. per 1000 SQ. FT.)*	application and directly contacted by product.
Centipedes* Chiggers* Earwigs*		4 quarts per acre (3 fl. oz. per 1000 SQ. FT.)	
Chinch bugs Sod Webworm (lawn moths)		6 to 8 quarts per acre (4.4 to 6 fl. oz. per 1000 SQ. FT.)	For Chinch bug: Treat entire grass area rather than just damaged areas. Irrigation prior to treatment will aid in penetration of insecticide into turfgrass. Do not irrigate treated areas within 24 hrs. following insecticide application.
Bluegrass billbug larvae European crane fly White grubs (Japanese beetle, Chafer beetle, and Phyllophaga spp. larvae)	Black turfgrass ataenius beetle larvae Hyperoides weevil (bluegrass weevil) larvae Springtails	8 quarts per acre (6 fl. oz. per 1000 SQ. FT.)	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
Fleas*		8 quarts per acre (6 fl. oz. per 1000 SQ. FT.)	recommended 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 not more often than once every 7 days. *Will kill only pests that are present at the time of application and directly contacted by product.

RESTRICTIONS: TURFGRASS

- Do not apply more than a total of 10 quarts (10 lbs ai) per acre per year.
- 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.
- Restricted-entry interval (REI) = 24 hours for turf grown for sod productions.
- DO NOT ENTER OR ALLOW OTHERS TO ENTER TREATED AREAS UNTIL SPRAYS HAVE DRIED.
- Do not apply by air or chemigation.
- BEE CAUTION: Do not apply this product to plants in bloom.

SPECIFIC PESTS ACROSS MULTIPLE SITES

GRASSHOPPERS

All crops on this label

PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Grasshoppers	1/2 to 1 1/2*	Apply 1/2 to 3/4 quarts per acre of this product for nymphs on small plants or sparse vegetation. Apply 1 to 1 1/2 quarts per acre for mature grasshoppers or applications to dense foliage. Be certain spray volumes are appropriate to assure adequate coverage.

RESTRICTIONS: GRASSHOPPER

• *NOTE: Refer to individual site listings elsewhere on this label for use restrictions. Do not use rates higher than listed for the site. Observe all use restrictions.

TICKS WHICH MAY VECTOR LYME DISEASE

To kill juvenile and adult ticks which may vector Lyme Disease, apply in sufficient volume for thorough coverage*. Will kill only pests that are present at the time of application and directly contacted by product.

All crops on this label; Pastures; Forested Areas; Wasteland, (Rights-of-Way, Hedgerows, Ditchbanks, Roadsides, Set-Aside

and Conservation Reserve Program Acreage); Ornamental trees and plants; Turfgrass**.

PEST	QUARTS OF THIS PRODUCT PER ACRE	SPECIFIC DIRECTIONS
Ixodes spp. (Deer tick, Bear tick, Black	1 quart per acre	To kill juvenile ticks, apply in late spring or early summer. To kill adult ticks, apply in late summer to fall.
legged tick)	(3/4 fl. oz. per 1000 ft ²)	Treat entire area and perimeter areas where exposure to ticks may occur. Ticks may be reintroduced from surrounding areas on
Amblyomma spp.		host animals. Retreat as necessary to maintain low population
(Lone star tick)		levels.

RESTRICTIONS: TICKS WHICH MAY VECTOR LYME DISEASE

- Do not make more than 4 applications per year for ticks.
- * 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 quart/A (3/4 fl. oz. /1,000 ft²). 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.
- DO NOT ENTER OR ALLOW OTHERS TO ENTER TREATED AREA UNTIL SPRAYS HAVE DRIED.

IMPORTED FIRE ANTS

All crops/sites on this label

	1	
PEST	FL OZ OF THIS PRODUCT	DIRECTIONS
Imported fire ants	3/4 fluid ounce per gallon	DRENCH APPLICATION To kill active mounds, apply a total of 2 gallons of the diluted solution over the surface of each mound or at least 1 quart per 6 inches of mound diameter using a bucket, can or other appropriate equipment. Thoroughly wet mound and surrounding areas to a 4 ft diameter (12 sq.ft.). Do not disturb mound prior to treatment. Pour solution from a height of about three feet to give sufficient force to break mound apex and flow into ant tunnels. For best results apply in cool weather (65-80°F) or in early morning or late evening hours. Repeat application if mound activity resumes after 30 days. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.
Imported fire ants (foraging)	1 ½ fluid ounce per gallon	BROADCAST APPLICATION (outdoor use only)** Treat only the growing media when using on bedding plants and avoid contact with foliage. Do not make more than one application per year.

RESTRICTIONS: IMPORTED FIRE ANTS

- DO NOT ENTER OR ALLOW OTHERS TO ENTER TREATED AREA UNTIL SPRAYS HAVE DRIED.
- FOR OUTDOOR USE ONLY. DO NOT USE IN GREENHOUSES.
- DO NOT USE ON ANY FOOD CROP NOT LISTED ON THIS LABEL. Refer to the specific site use directions elsewhere on this label for additional restrictions.

NUISANCE PESTS

For use as a perimeter treatment to kill the listed nuisance pests, apply the specified dosage in a band 6 to 10 feet wide around the outside perimeter of the structure.

PEST	FL OZ OF THIS PRODUCT	SPECIFIC DIRECTIONS
Ants* Bees* Brown dog tick* Centipedes* Cockroaches* Crickets Darkling beetle (lesser mealworm or litter beetle) Earwigs Firebrats Fleas* Millipedes Scorpions* Silverfish* Spiders* Wasps*	2 ½ fluid ounces per gallon	Observe plant response precautions. Apply as a coarse wet spray in a band 6 to 10 feet wide around the outside perimeter of buildings, contacting as many pests as possible. Confine applications to areas immediately adjacent to the building. Direct application to the outside structures should be minimal and restricted to cracks, crevices, and areas where insects tend to congregate. Treat surfaces to ensure thorough coverage but avoid runoff. To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants. For use in and around flower beds and ornamental plantings, apply as a coarse wet spray.

RESTRICTIONS: NUISANCE PESTS

- Do not make more than 4 applications per year. Do not apply more often than once every 7 days.
- DO NOT ENTER OR ALLOW OTHERS TO ENTER TREATED AREAS UNTIL SPRAYS HAVE DRIED.
- NOTE: Staining may occur on certain surfaces such as stucco, brick, cinder block, wood, fabrics, and carpet. Spray deposits on painted or stained surfaces of finishes (eg., cars, house trailers, boats, etc.) should be removed immediately by washing to prevent discoloration. Avoid application to surfaces where visible spray residues are objectionable. Staining of fabrics and carpet may be permanent. For outdoor use only.

^{**} 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.

^{*}Will kill only pests that are present at the time of application and directly contacted by product.

WARRANTY AND LIMITATION OF DAMAGES

Tessenderlo Kerley, Inc. warrants only that this product conforms to the product description on the label. Except as warranted by this label, Tessenderlo Kerley, Inc. makes no representation or warranty or guarantee, whether expressed or implied, of fitness for a particular purpose of merchantability, or of product performance. Tessenderlo Kerley, Inc. does not authorize any agent or representative to make any such representation, warranty or guarantee. To the extent consistent with applicable law, Tessenderlo Kerley, Inc.'s maximum liability for breach of its warranty or for use of this product, regardless of the form of action, shall be limited to the purchase price of this product. To the extent consistent with applicable law, buyer and user acknowledge and assume all risks and disposal liability resulting from handling, storage, use and disposal of this product. If buyer does not agree with or accept these warranty and liability limitations, buyer may return the unopened container to the place of purchase for full refund. Buyer's use of this product shall constitute conclusive evidence of buyer's acknowledgement and acceptance of the forgoing limitations. Some states do not allow the exclusion of implied warranties or the limitation of certain damages, so the above may not apply. The purchase, delivery, acceptance and use of this product by the buyer are subject to the terms and conditions of seller's sales invoice for this product.

[EPA approval date]

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