

769-972

10/27/2009

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:
769-972

Date of Issuance:
OCT 27 2009

Terms of Issuance:
Unconditional

Name of Pesticide Product:
Security Brand 50% Sevin
Wettable

NOTICE OF PESTICIDE:
 Registration
XX Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):
Value Garden Supply
P.O. Box 585
St. Joseph, MO 64502

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Documents, EPA has reregistered the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product. Within 45 days from the date of this notice, two copies of a final printed label must be submitted with the following changes:

1. Revise the statement "May be harmful if swallowed." to read "May be fatal if swallowed."
2. Revise the statement "For Agricultural and Commercial Use Only" to read "Intended for Agricultural and Commercial Use." Delete the phrase "Not for Residential Use."

Signature of Approving Official:

Meredith Laws, Branch Chief
Registration Division, Insecticide-Rodenticide Branch

Date:
OCT 27 2009

- 3. On page 13, delete the asterisk after OKRA.
- 4. On page 19, delete the heading "TREE NUT CROPS" and replace it with "PECANS". Also under the restrictions, change "Tree Nut Crops" to read "Pecans".
- 5. On page 19, revise "On all tree nut crops, apply in sufficient volume for adequate coverage." t read "On pecans, apply in sufficient volume for adequate coverage."
- 7. On page 20, under TURFGRASS, delete the entire column headed "SQ.FT.TREATED PER Water Soluble Packet."

Your Confidential Statement of Formula (CSF) dated November 2, 2005 is acceptable. This CSF supersedes all previous CSFs. You may distribute products bearing the old label for 12 months from receipt of this letter or your next printing of the label, whichever comes first.

A copy of the stamped label is enclosed for your records.

30223

Security Brand 50% Sevin Wettable

FOR AGRICULTURAL AND COMMERCIAL USE ONLY
NOT FOR RESIDENTIAL USE

ACCEPTED
With COMMENTS
In EPA Letter Dated:

October 27, 2009

Under the Federal Insecticide, Fungicide
and Rodenticide Act, As amended, for the
pesticide Registered under EPA Reg. No.

769-972

Active Ingredient:	
Carbaryl (1-Naphthyl N-methylcarbamate)	50.0%
Other Ingredients:	50.0%
Total:	100.0%

EPA Reg. No. 769-972

EPA Est. No. 44616-MO-1

KEEP OUT OF REACH OF CHILDREN

WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals: May be harmful if swallowed. Causes moderate eye irritation. Do not get in eyes or on clothing.

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice • Have person sip a glass of water if able to swallow • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to and unconscious person
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after 5 minutes, then continue rinsing eye • Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this product (including health concerns or medical emergencies call the National Pesticide Information Center at 1-800-858-7378.	
NOTE TO PHYSICIAN: Carbaryl is an N-methylcarbamate that inhibits cholinesterase. Atropine is antidotal. Do not use 2-PAM, opiates or cholinesterase inhibiting drugs.	

PERSONAL PROTECTIVE EQUIPMENT (PPE):

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

Handlers applying with open cab airblast equipment at application rates equal to or greater than 10 pounds of product per acre must wear:

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

Aerial and chemigation applications are prohibited.

See engineering controls for additional requirements and exceptions.

USER SAFETY REQUIREMENTS

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

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.

Water-soluble packaging when used correctly qualifies as a closed mixing/loading system under the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water soluble packets must:

- wear the personal protective equipment on this labeling for mixers/loaders, and
- be provided, have immediately available, and use in an emergency, such as a broken package, spill, or equipment breakdown, chemical-resistant footwear and a NIOSH-approved dust/mist filtering respirator with NIOSH/MSHA approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P or HE filter.

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

This product is extremely toxic to aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Discharge from rice fields may kill aquatic and estuarine invertebrates. Do not apply when weather conditions favor drift from area treated. Drift and runoff may kill

aquatic invertebrates in water adjacent to treated areas. Do not contaminate water by cleaning equipment or disposal of wastes. Do not contaminate water when disposing of equipment washwaters.

BEE CAUTION: MAY KILL HONEYBEES AND OTHER BEES IN SUBSTANTIAL NUMBERS. This product is highly toxic to bees exposed to direct treatment or residues on crops or weeds in bloom. Do not apply to target crop 4 days prior to 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.

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.

STORAGE

Store unused product in original container only, in cool, dry area out of reach of children and animals. Do not store in areas where temperatures frequently exceed 100° F.

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

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. Once outer bag of water soluble packets is empty, offer for recycling, if available, or dispose of in the trash as long as water soluble packets are unbroken, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If bag is burned, stay out of smoke.

INFORMATION AND RESTRICTIONS

Security Brand 50% Sevin Wettable is a dry powder formulation of SEVIN® brand carbaryl insecticide and is packaged in water soluble packets. Each packet contains 2.0 lbs of formulated product. Do not sell individual water soluble packets. Do not handle inner bag with wet hands or gloves. Do not allow packets to become wet prior to adding to the spray tank. Handle outer container (over wrap bag) carefully to avoid breakage of inner soluble packets. Always reseal outer container (over wrap bag) in a manner that protects remaining packets from moisture. Do not remove the water soluble packets from the container except for immediate use. Use the entire contents of a water soluble packet, do not break open to use partial contents of a water soluble packet.

This product readily disperses in water to form a spray that may be applied by ground equipment.

Aerial and chemigation applications are prohibited.

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 STATEMENTS

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.

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 the protection against 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

Remove oil, rust, scale, pesticide residues and other foreign matter from mix tanks and entire spray system. Flush with clean water. Consult the Specific Use Directions section of this label to determine the number of packets and spray volume required. Fill the mixing tank partially (1/2 to 3/4) with water. With the agitator on, slowly add the required number of

unopened packets of this product into the mixing tank. Allow all the water soluble packets to dissolve and completely disperse. Depending upon the water temperature and the degree of agitation, the water soluble packets should be completely dissolved within 3 – 5 minutes. Continue agitation while adding the remainder of the water. Do not put water soluble packets close to the recirculating inlet and outlet, as they may block the line before completely dissolved. Prepare only as much spray mixture as can be applied on the day of mixing. Do not use partial water soluble packets. 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.

TANK MIXING INSTRUCTIONS

Once the water soluble packets have completely dissolved, add other products in the following order: wettable powder, dry flowable (wetable granules), liquid flowable, liquids, and EC's. Always allow each tank mix partner to disperse fully before adding the next product.

COMPATIBILITY INFORMATION

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

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

APPLICATION PROCEDURES

On all crops use sufficient gallonage to obtain thorough and uniform coverage. Observe crop label instructions for specific directions regarding spray volume where they occur. Calibrate spray equipment to deliver the required volume. Use of 50 mesh slotted strainers in spray system and 25 mesh slotted strainers behind nozzles is recommended.

GROUND APPLICATION

Apply in sufficient volume for adequate coverage on all crops and sites.

SPECIFIC USE DIRECTIONS

USE SITES:

Brassica Leafy Vegetables, as listed below

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

Cucurbit Vegetables

Flax

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

Fruiting Vegetables, as listed below

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)

Okra

Peanuts

Root and Tuber Crops, as listed below

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

Sugarbeets

Tobacco

Tree Fruit Crops (Pome Fruits, as listed below; Stone Fruits, as listed below)

Tree Nut Crops (Pecans)

Ornamental Trees and Plants

Turfgrass

Specific Pests Across Multiple Sites

Grasshoppers

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.

EACH WATER SOLUBLE PACKET CONTAINS 2.0 POUNDS OF FORMULATED PRODUCT.

BRASSICA LEAFY VEGETABLES CROPS

Broccoli, Brussels sprouts, Cabbage, Cauliflower, Chinese cabbage (napa), Chinese cabbage (bok choy), Collards, Kale, Kohlrabi, Mustard greens and Turnip greens only

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Flea beetles Harlequin bug Leafhoppers	1 to 2	2.0 to 1.0	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 Imported cabbageworm	2 to 4	1.0 to 0.5	
Stink bugs Tarnished plant bug			

RESTRICTIONS: BRASSICA LEAFY VEGETABLES

- For Broccoli, Brussels sprouts, Cabbage, Chinese cabbage (*napa*), Cauliflower, Cavalo broccolo, and Kohlrabi, do not apply within 3 days of harvest.
- For Chinese cabbage (*bok choy*), Collards, Kale, Mustard greens and Turnip greens, do not apply within 14 days of harvest.
- Do not apply more than a total of 12 pounds (6 water soluble packets) 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**
Do not apply this product to target crops or weeds in bloom. Do not apply to target crop 4 days prior to bloom.

CEREAL GRAIN CROPS

FIELD CORN AND POPCORN

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Armyworm Corn earworm Corn rootworm adults Fall armyworm Flea beetles	2 to 4	01.0 to 0.5	OBSERVE BEE CAUTION. Repeat applications as needed up to a total of 4 times per year but not more often than once every 14 days. Good timing and good coverage are essential for effective product performance.
Japanese beetle Sap beetles Leafhoppers			
European corn borer	3 to 4	0.67 to 0.5	For best results on European corn borer, do not apply in less than 15 gallons of water per acre.

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 16 pounds (8 water soluble packets) 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. Do not apply to target crop 4 days prior to bloom.

RICE

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Armyworm Stink bugs	2 to 3	01.0 to 0.67	Up to 2 applications per crop per year may be made but not more often than once every 7 days.

RESTRICTIONS: RICE

- Do not apply within 14 days of harvest for grain or straw.
- Do not apply more than a total of 6 pounds (3 water soluble packets) per acre per crop per year.
- Discharge from treated rice fields may kill shrimp, crabs, and crayfish.
- Do not apply propanil herbicides within 15 days before or after application of this product or plant injury will result.

- **BEE CAUTION**

Do not apply this product to target crops or weeds in bloom. Do not apply to target crop 4 days prior to bloom.

SWEET CORN

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Armyworm Corn earworm Corn rootworm adults Fall armyworm Flea beetles	Japanese beetle Sap beetles Leafhoppers	2 to 4	1.0 to 0.5 OBSERVE BEE CAUTION Repeat applications as necessary up to a total of 8 times per year but not more often than once every 3 days. Good timing and good coverage are essential for effective product performance.
European corn borer	3 to 4	0.67 to 0.5	For insects attacking silks and ears, insecticide sprays should be applied starting when first silks appear and continuing until silks begin to dry. During silking, the minimum retreatment interval (3 days) may not provide adequate levels of protection under conditions of rapid growth or severe pest pressure. The use of an alternative product should be considered in conjunction with this product. For best results on European corn borer, do not apply in less than 15 gallons of water per acre. For western bean cutworm, treat when infestation averages 15% and at 90 to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness.

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 32 pounds (16 water soluble packets) 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. Do not apply to target crop 4 days prior to bloom.

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	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Pickleworm Melonworm	1 to 2	2.0 to 01.0	Repeat applications as necessary up to a total of 6 times per year but not more often than once every 7 days.
Cucumber beetles Flea beetles Leafhoppers Squash bugs	2	1.0	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 12 pounds (6 water soluble packets) per acre per crop per year.
- Observe plant response precautions.
- **BEE CAUTION**
Do not apply this product to target crops or weeds in bloom. Do not apply to target crop 4 days prior to bloom.

FORAGE CROPS

ALFALFA and CLOVERS only

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Blister beetles Mexican bean beetle		1 to 2	2.0 to 01.0	OBSERVE BEE CAUTION. Observe plant response precautions. On dense growth, use 25 to 40 gallons of water per acre with ground equipment to ensure adequate coverage.
Alfalfa caterpillar	Three cornered alfalfa hopper	2	1.0	
Bean leaf beetle	Thrips			
Cucumber beetles	Velvetbean caterpillar			
Green cloverworm				
Japanese beetle				
Leafhoppers				
Armyworm	Fall armyworm	2 to 2 3/5	1.0 to 0.77	
Cloverhead weevil	Stink bugs			
Corn earworm	Webworms			
Cutworms	Yellow striped armyworm			

RESTRICTIONS: FORAGE CROPS

- Do not apply more than once per cutting.
- Do not apply within 7 days of harvest or grazing.
- Do not exceed 3 pounds (1 1/2 water soluble packets) per acre per cutting per year.
- Carbaryl may cause a temporary bleaching of tender alfalfa foliage.
- **BEE CAUTION**
Do not apply this product to target crops or weeds in bloom. Do not apply to target crop 4 days prior to bloom.

PASTURE AND GRASSES GROWN FOR HAY AND/OR SEED

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Armyworm	Thrips	2 to 3	01.0 to 0.67	Up to 2 applications per year may be made but not more often than once every 14 days. To kill thrips in grasses, use high spray pressure to improve penetration into boot. Accurately mark swaths to avoid over-application.
Fall armyworm				

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 6 pounds (3 water soluble packets) per acre per year.
- **BEE CAUTION**
Do not apply this product to target crops or weeds in bloom. Do not apply to target crop 4 days prior to bloom.

FRUITING VEGETABLES

Eggplant, Pepper (includes: bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), and Tomato only

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Colorado potato beetle Tomato hornworm European corn borer Fall armyworm Lace bugs Stink bugs (suppression) Tarnished plant bug Tomato fruitworm	2 to 4	1.0 to 0.5	Repeat applications as necessary up to a total of 7 times per year but not more often than once every 7 days. Thorough coverage is essential to effectively suppress stink bugs. When disease transmission is suspected, monitor fields following application and retreat if reinfestation occurs but not more often than once every 7 days.
Flea beetles Leafhoppers	1 to 2	2.0 to 1.0	

RESTRICTIONS: FRUITING VEGETABLES

- Do not apply within 3 days of harvest.
- Do not apply more than a total of 16 pounds (8 water soluble packets) per crop per year.
- **BEE CAUTION**
Do not apply this product to target crops or weeds in bloom. Do not apply to target crop 4 days prior to bloom.

LEAFY VEGETABLES

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

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Flea beetles Harlequin bug Leafhoppers	1 to 2	2.0 to 1.0	Repeat applications as necessary up to a total of 5 times per year but not more often than once every 7 days.
Armyworm Aster leafhopper Corn earworm Fall armyworm Imported cabbageworm Stink bugs Tarnished plant bug	2 to 4	1.0 to 0.5	

RESTRICTIONS: LEAFY VEGETABLES

- Do not apply within 14 days of harvest.
- Do not apply more than a total of 12 pounds (6 water soluble packets) per acre per crop per year.
- **BEE CAUTION**
Do not apply this product to target crops or weeds in bloom. Do not apply to target crop 4 days prior to 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); Lentil (dry); Pigeon pea (dry);

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

Soybeans

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Bean leaf beetle	Green cloverworm	1 to 2	2.0 to 01.0	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. Use lower rates for light to moderate populations and smaller instars. Use the higher rates for heavy populations and larger instars.
Blister beetle	Japanese beetle			
Cucumber beetles	Mexican bean beetle			
	Velvetbean caterpillar			
Corn earworm		1 to 3	2.0 to 0.67	
Alfalfa caterpillar	Three cornered alfalfa hopper	2	1.0	
Colorado potato beetle	Thrips			
Flea beetles	Western bean cutworm			
Leafhoppers				
Armyworm	Stink bugs	2 to 3	1.0 to 0.67	
Cutworms	Tarnished plant bug			
Fall armyworm	Webworms			
Cowpea curculio (suppression)	Yellowstriped armyworm	3	0.67	

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 12 pounds (6 water soluble packets) 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. Do not apply to target crop 4 days prior to bloom.

OKRA *

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Corn earworm Stink bugs	2 to 3	1.0 to 0.67	Apply using ground equipment in sufficient volume to insure 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 12 pounds (6 water soluble packets) per acre per year.
- DO NOT USE IN CALIFORNIA.
- **BEE CAUTION**
Do not apply this product to target crops or weeds in bloom. Do not apply to target crop 4 days prior to bloom.

PEANUTS

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Blister beetles Mexican bean beetle	1 to 2	2.0 to 1.0	Repeat applications as necessary up to a total of 5 times per year but not more often than once every 7 days. For best results on thrips, use directed or banded sprays with hollow cone spray nozzles. Ensure adequate coverage for the underside of leaves.
Alfalfa caterpillar Bean leaf beetle Cucumber beetle Green cloverworm Japanese beetle Leafhoppers	2	1.0	
Armyworm Corn earworm Fall armyworm	2 to 3	1.0 to 0.67	
Stink bugs Webworms			

RESTRICTIONS: PEANUTS

- Do not apply within 14 days of harvest.
- Do not apply more than a total of 16 pounds (8 water soluble packets) per acre per crop per year.
- Observe plant response precautions.
- **BEE CAUTION**
Do not apply this product to target crops or weeds in bloom. Do not apply to target crop 4 days prior to bloom.

ROOT AND TUBER CROPS

Beet (garden), Carrot, Horseradish, Parsnip, Potato, Radish, Rutabaga, Salsify (black), Salsify (oyster plant), Salsify (Spanish), and Turnip only

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Flea beetles Leafhoppers	1 to 2	2.0 to 1.0	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 European corn borer Fall armyworm	Lace bugs Stink bugs Tarnished plant bug 2 to 4	01.0 to 0.5	

RESTRICTIONS: ROOT AND TUBER CROPS

- Do not apply within 7 days of harvest.
- Do not apply more than a total of 12 pounds (6 water soluble packets) per acre per crop per year.
- **BEE CAUTION**
Do not apply this product to target crops or weeds in bloom. Do not apply to target crop 4 days prior to bloom.

SUGAR BEETS

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Armyworm Leafhoppers Webworms	2 to 3	1.0 to 0.67	Repeat applications as necessary up to a total of 2 times per year but not more often than once every 14 days.

RESTRICTIONS: SUGAR BEETS

- Do not apply within 28 days of harvest for roots or forage.
- Do not apply more than a total of 6 pounds (3 water soluble packets) per acre per crop per year.
- **BEE CAUTION**
Do not apply this product to target crops or weeds in bloom. Do not apply to target crop 4 days prior to bloom.

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).

17023

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.

Grapes; Strawberries.

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
European fruit lecanium Flea beetles Grape leaf folder Japanese beetle	Leafhoppers Leafrollers Meadow spittlebug Strawberry leafroller Strawberry weevil	2 to 4	1.0 to 0.5	OBSERVE BEE CAUTION. Repeat applications as necessary up to a total of 5 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.
Blueberry maggot Cherry fruitworm Cranberry fruitworms		3 to 4	0.67 to 0.5	In grapes for grape leaf folder, apply before first brood larvae emerge from rolls.
June beetles Omnivorous leafroller	Redbanded leafroller Saltmarsh caterpillar	4	0.5	In grapes, do not concentrate spray on the bunch or visible residues may result.

RESTRICTIONS: SMALL FRUITS AND BERRIES

- Do not apply within 7 days of harvest.
- Do not apply more than a total of 20 pounds (11.2 water soluble packets) per acre per crop per year.
- Use in cranberries may kill shrimp and crabs. Do not use in areas where these are important resources.
- Carbaryl may injure Early Dawn and Sunrise varieties of strawberries.
- 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**
Do not apply this product to target crops or weeds in bloom. If weed or cover crop bloom is present, mow orchard floor or between rows prior to applying this product. Do not apply to target crop 4 days prior to bloom.

TOBACCO

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Budworms Tobacco flea beetles Hornworms	Japanese beetle June beetle	2 to 4	1.0 to 0.5	Plant bed and Field Treatment Repeat treatments as necessary up to a total of 4 times per crop per year but not more often than once every 7 days. Use lower rate on young plants (up to knee height). Use at least 10 gallons of prepared spray per acre. Begin treatments when worms are small.

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RESTRICTIONS: TOBACCO

- Do not apply within 2 days of harvest.
- Do not apply more than a total of 16 pounds (8 water soluble packets) per acre per crop per year.
- Observe plant response precautions.
- Restricted-entry interval (REI) = 2 days (48 hours).
- **BEE CAUTION**
Do not apply this product to target crops or weeds in bloom. Do not apply to target crop 4 days prior to bloom.

TREE FRUIT CROPS

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

POME FRUITS

Apple, Crabapple, Pear, and Oriental pear only

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
White apple leafhopper		1 to 3	2.0 to 0.67	OBSERVE BEE CAUTION On apples, avoid use during the period from full bloom until 30 days after full bloom unless fruit thinning is desired. Use for pesticidal activity during this period may also result in fruit removal. Repeat applications as necessary up to a total of 8 times per crop per year (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.
Apple aphid	Codling moth	2 to 6	1.0 to 0.3	
Apple aphid	Pear rust mite	3 to 6	0.67 to 0.3	
Apple maggot	Periodical cicada			
Apple mealybug	Plum curculio			
Apple rust mite	Redbanded leafroller			
Bagworms	Rosy apply aphid			
European apple sawfly	Scale insects (Forbes scale,			
Eyespotted bud moth	Lecanium scale,			
Fruittree leafroller	San Jose scale)			
Japanese beetle	Tarnished plant bug			
Pearleaf blister mite	Tentiform leafminers			
Pear psylla	Woolly apple aphid			

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POME FRUITS
(continued)

CROP	PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Apples Only, for Fruit Thinning		2 to 6	1.0 to 0.3	<p>OBSERVE BEE CAUTION.</p> <p>For easily thinned varieties: apply 1/2 to 1 pounds per 100 gal. of spray mixture.</p> <p>For difficult to thin varieties: apply 1 to 2 pounds per 100 gal. of spray mixture.</p> <p>Apply between 10 and 25 days after full bloom. Factors such as tree age, variety, nutrition, previous crop, pruning, bloom and degree of set favor excessive fruit thinning with this product. Exercise caution to avoid possible yield reduction. Rates may vary depending on variety and local orchard conditions.</p> <p>NOTE: The use of this product may result in fruit deformity under certain environmental conditions. Before using on any variety of apples, the user must weigh the risk versus benefits when using this product, particularly when using between 80% petal fall and 6 mm fruit size. Red Delicious are more sensitive to this phenomenon and in particular, the varieties Bisbee, Red Chief and Vallee Spur are very susceptible to conditions causing fruit deformity. Precipitation and temperatures below 65° F 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.</p>

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 30 pounds (15 water soluble packets) per acre per crop per year.
- Do not make more than a total of 8 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. Do not apply to target crop 4 days prior to bloom.

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

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STONE FRUITS

Cherry (including sweet and tart), Peach, Plum (including Chickasaw, Damson and Japanese), and Prune (fresh) only

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Black cherry aphid Cherry fruitworm Cherry maggot (Cherry fruit fly) Codling moth Eastern tent caterpillar Eyespotted bud moth Fruitree leafroller Japanese beetle Lesser peachtree borer Mealy plum aphid Orange tortrix Peach twig borer Plum curculio Prune leafhopper Redbanded leafroller Scale insects (Brown soft scale, Forbes scale, Lecanium scale, Olive scale, Oystershell scale, San Jose scale) Tussock moth	4 to 6	0.5 to 0.3	OBSERVE BEE CAUTION. Repeat applications as necessary up to a total of 3 times per crop per year 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.
<p style="text-align: center;">California Only:</p> Black cherry aphid Cherry fruitworm Cherry maggot (Cherry fruit fly) Codling moth Eyespotted bud moth Fruitree leafroller Mealy plum aphid Orange tortrix Peach twig borer Scale insects (Brown soft scale, Forbes scale, Lecanium scale, Oystershell scale, San Jose scale) Tussock moth	6 to 8	0.36 to 0.25	OBSERVE BEE CAUTION. Repeat applications as necessary up to a total of 3 times per crop per year 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.
Peach twig borer Scale insects (Brown soft scale, Forbes scale, Lecanium scale, Oystershell scale, San Jose scale)	8 to 10	0.25 to 0.2	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: STONE FRUITS

- 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 28 pounds (14 water soluble packets) per acre per crop per year.
 Do not apply more than a total of 10 pounds (5 water soluble packets) per acre at the dormant or delayed dormant timing.
 Do not apply more than a total of 18 pounds (9 water soluble packets) per acre during the production season.
- California only:
 Do not apply more than 8 pounds per acre (4 water soluble packets) per application during the production season.
- All States other than California:
 Do not apply more than 6 pounds per acre (3 water soluble packets) per application during the production season.
- **BEE CAUTION**
 Do not apply this product to target crops or weeds in bloom. If weed or cover crop bloom is present, mow orchard floor or between rows prior to applying this product. Do not apply to target crop 4 days prior to bloom.

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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.

PECANS

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Pecan nut casebearer Pecan weevil	4 to 10	0.3 to 0.2	OBSERVE BEE CAUTION 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. Use lower rates for pests attacking leaves. Use higher rates for pests attacking fruit and for higher infestations.

RESTRICTIONS: TREE NUTS

- Do not apply within 14 days of harvest.
- Do not apply more than a total of 30 pounds (24 water soluble packets) per acre per crop per year, including any application at the dormant or delayed dormant timing.
- **BEE CAUTION**
Do not apply this product to target crops or weeds in bloom. If weed or cover crop bloom is present, mow orchard floor or between rows prior to applying this product. Do not apply to target crop 4 days prior to 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, Shrubs.

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Apple aphid Bagworms Birch leafminer Blister beetle Boxelder bug Boxwood leafminer Elm leaf aphid Elm leaf beetle Flea beetle Japanese beetle June beetles Lace bugs Leafhoppers Leafrollers	Mealy bugs Mimosa webworm Oak leafminers Periodical cicada Plant bugs Psyllids Puss caterpillar Rose aphid Rose slug Scale insects (crawlers) Tent caterpillars Thorn bug Thrips (exposed) Willow leaf beetles	2	1.0
Gypsy Moth	1 1/2 to 2	1.4 to 1.0	Observe plant response precautions. Obtain thorough coverage of upper and lower leaf surfaces. The addition of a sticker may improve product performance. To kill scale insects, treat trunks, stems and twigs in addition to plant foliage. For best results on worms, treat when pests are small. Repeat treatments as necessary up to a total of 6 times per year but not more often than once every 7 days. For gypsy moths, use the higher rate for heavy infestations. *Will kill only pests that are present at the time of application and directly contacted by product.

RESTRICTIONS: ORNAMENTAL TREES AND PLANTS

- Do not make more than a total of 6 foliar 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.
- 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 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.

PEST	POUNDS OF THIS PRODUCT PER ACRE	SQ. FT. TREATED PER Water Soluble Packet	DIRECTIONS
Ants (except harvester, pharaoh and carpenter) Fall armyworm Leafhoppers	8	11,000 to 22,000	<p>For Armyworm, Cutworm, and Fall Armyworm: Do not irrigate treated areas within 24 hrs. following insecticide application.</p> <p>For Green June Beetle Grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate turfgrass within 48 hours after treatment.</p> <p>Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days.</p> <p>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.</p> <p>*Will kill only pests that are present only at the time of application and directly contacted by product.</p>
Earwigs*	8		
Chinch bugs Sod Webworm (lawn moths)	12 to 16	5,000 to 7,000	
Fleas*	16	5,000	

RESTRICTIONS: TURFGRASS

- Do not apply more than a total of 32 pounds (16 water soluble packets) 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) for harvesting sod productions (sod farms) = 24 hours.
- 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	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Packet	SPECIFIC DIRECTIONS
Grasshoppers	1 to 3*	2.0 to 0.67	Apply 1 to 1.44 pounds per acre of this product for nymphs on small plants or sparse vegetation. Apply 2 to 3 pounds per acre for mature grasshoppers or applications to dense foliage. Be certain spray volumes are appropriate to assure adequate coverage.

RESTRICTIONS: GRASSHOPPERS

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

NOTICE OF WARRANTY: Seller's guaranty shall be limited to the purchase price of the product. To the extent consistent with applicable law, the buyer assumes any risk to persons or property arising out of use or handling and accepts the product on these conditions.

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