

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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Gregory C. Mattern
Bayer CropScience
P.O. Box 12014
2 T.W. Alexander Drive
Research Triangle Park, NC 27709

FEB 2 4 2012

Subject:

Label Amendment to add additional Storage and Disposal Language

EPA Registration No. 264-316 Submission Date: January 10, 2012

Decision #: 459830

Dear Mr. Mattern:

The labeling referred to above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the above mentioned label before releasing the product for shipment. If you have any questions, please contact Jessica Rogala at (703) 347-0263 or via email at rogala.jessica@epa.gov.

Sincerely,

John Hebert

Product Manager 07

Insecticide-Rodenticide Branch Registration Division (7505P)

SEVIN® 80 Solupak

INTENDED FOR AGRICULTURAL OR COMMERCIAL USE

INERT INGREDIENTS: 20% by wt.

E.P.A. Reg. No. 264-316

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

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.)

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

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 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.

NOTE TO PHYSICIAN: Carbaryl is 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 Bayer CropScience. Consultation on therapy can be obtained at all hours by calling the appropriate emergency number 1-800-334-7577 (U.S.A.)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS WARNING

May be fatal if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated 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.

Handlers applying with open cab airblast equipment at application rates equal to or greater than 6 1/4 pounds of product per acre must

- 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.

Fungicide, and Rodenticide Act, as amended, for the pestacide registered under EPA Reg. No.

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.

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 by disposing of equipment washwaters.

BEE CAUTION: MAY KILL HONEYBEES AND OTHER BEES IN SUBSTANTIAL NUMBERS. This product is highly juxio 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 lest 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 of surrise, 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 SEVIN® 80 Solupak 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.

Product for Export Only

Bags without liners

Non-refillable container. Do not reuse or refill this container. Completely empty bag into tank. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Bags with liners

Non-refillable container. Do not reuse or refill this container. Completely empty liner by shaking and taping sides and bottom to loosen clinging particles. Empty residue into tank. Then offer for recycling, if available, or dispose of line, in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. If outer bag is contaminated, dispose of it in the manner required for its liner.

INFORMATION AND RESTRICTIONS

SEVIN® 80 Solupak is a dry powder formulation of SEVIN® brand carbaryl insecticide and is packaged in water soluble paks. Each pak contains 1.25 lbs of formulated product. Do not sell individual water soluble paks. Do not handle inner bag with wet hands or gloves. Do not allow paks to become wet prior to adding to the spray tank. Handle outer container (over wrap bag) carefully to avoid breakage

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of inner soluble paks. Always reseal outer container (over wrap bag) in a manner that protects remaining paks from moisture. Do not remove the water soluble paks from the container except for immediate use. Use the entire contents of a water soluble pak, do not break open to use partial contents of a water soluble pak.

This product readily disperses in water to form a spray which 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 paks 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 paks of SEVIN® 80 Solupak into the mixing tank. Allow all the water soluble paks to dissolve and completely disperse. Depending upon the water temperature and the degree of agitation, the water soluble paks should be completely dissolved within 3 – 5 minutes. Continue agitation while adding the remainder of the water. Do not put water soluble paks 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 paks. 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 paks have completely dissolved, add other products in the following order: wettable powder, dry flowable (wettable granules), liquid flowable, liquids, and EC's. Always allow each tank mix partner to disperse fully before adding the next product.

COMPATIBILITY INFORMATION

SEVIN® 80 Solupak, 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® 80 SOLUPAK 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 physques 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:

Asparagus

Brassica Leafy Vegetables

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

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

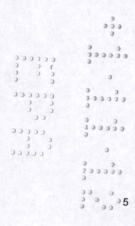
Imported Fire Ants

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.

EACH WATER SOLUBLE PAK CONTAINS 1.25 POUNDS OF FORMULATED PRODUCT.



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PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Apache Cutworms cicada Asparagus beetle	1 1/4	1.0	Repeat applications as necessary up to a total of 3 times prior to harvest or a total of 5 applications per year to spears and ferns combined. Do not apply more than once every 3 days. For cutworm, this product is most effective against species
	2 1/2	0.5	which feed on the upper portions of the plant. Application to ferns or brush growth following harvest of spears: Repeat applications as necessary but not more often than once every 7 days. Do not make more than a total of 5 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 3/4 pounds (3 water soluble paks) per acre per year before harvest of spears.
- Do not apply more than a total of 6 1/4 pounds (5 water soluble paks) 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.

BRASSICA LEAFY VEGETABLES CROPS

All members of the Brassica Leafy Vegetable Group 5 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

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Flea beetles Harlequin bug Leafhoppers		5/8 to 1 1/4	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 Fall armyworm Imported cabbageworm	Lygus bugs Spittle bugs Stink bugs Tarnished plant bug	1 1/4 to 2 1/2	1.0 to 0.5	

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 7 ½ pounds (6 water soluble paks) 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

P	PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Armyworm Chinch bugs Corn earworm	Japanese beetle Sap beetles	1 1/4 to 2 1/2	1.0 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.
Corn rootworm adults Fall armyworm	Southwestern corn borer Leafhoppers			Good timing and good coverage are essential for effective product performance.
Flea beetles European corn borer		1 7/8 to 2 1/2	0.67 to 0.5	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.
Western bean cutworm	Cutworms	2 1/2	0.5	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.
				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 of water per acre. 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 10 pounds (8 water soluble paks) 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.

GRAIN SORGHUM

	PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Armyworm Chinch bugs Corn earworm	Fall armyworm Stink bugs Webworms	1 1/4 to 2 1/2	1.0 to 0.5	Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days.
Southwestern corn borer		1 7/8	0.67	Direct spray into forming heads for best results on insects attacking heads.
Cutworms		2 1/2	0.5	For best results on chinch bug, use high gallonage ground 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 7 ½ pounds (6 water soluble paks) 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.

RICE

PEST		POUNDS OF THIS PRODUCT PER ACRE		SPECIFIC DIRECTIONS
Armyworm Chinch bugs Fall armyworm	Leafhoppers Stink bugs	1 1/4 to 1 7/8	1.0 to 0.67	Up to 2 applications per crop per year may be made but not more often than once every 7 days.
Tadpole shrimp		1 7/8	0.67	California only Up to 2 applications per crop per year may be made but not more often than once every 7 days. For best results on tadpole shrimp, apply to water when pest first appears.

RESTRICTIONS: RICE

- Do not apply within 14 days of harvest for grain or straw.
- Do not apply more than a total of 3 3/4 pounds (3 water soluble paks) 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 TREATI per Water Solut Pak		SPECIFIC DIRECTIONS	
Armyworm Chinch bugs Corn earworm Corn rootworm adults Fall armyworm Flea beetles	Japanese beetle Sap beetles Southwestern corn borer Leafhoppers	1 1/4 to 2 1/2	1.0 to 0.5	OBSERVE BEE CAUTION Repeat applications as necessary up to a total of times per year but not more often than once every days. Good timing and good coverage are essential for effective product performance.	
European corn borer		1 7/8 to 2 1/2	0.67 to 0.5	For insects attacking silks and ears, insecticide sprays should be applied starting when first silks	
Western bean cutworm	Cutworms 2 1/2 0.67 to 0.5	0.5	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 per acre.	
				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 of water per acre.	
				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 20 pounds (16 water soluble paks) 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 Pak	SPECIFIC DIRECTIONS
Pickleworm Melonworm	5/8 to 1 1/4	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.
Cucumber beetles Flea beetles Leafhoppers Squash bugs	1 1/4	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 7 1/2 pounds (6 water soluble paks) 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.

FLAX

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Armyworm	1 1/4 to 1 7/8	1.0 to 0.67	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 3/4 pounds (3 water soluble paks) per acre per crop per year.
- BEE CAUTION

FORAGE CROPS

ALFALFA, CLOVERS, AND BIRDSFOOT TREFOIL

PE	ST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Blister beetles Mexican bean beetle		5/8 to 1 1/4	2.0 to 1.0	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 1/4	1.0	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 1/4 to 1 5/8	1.0 to 0.77	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 1/4 to 1 7/8	1.0 to 0.67	
Alfalfa weevil larvae (east of the Rocky Mountains)		1 7/8	0.67	

RESTRICTIONS: FORAGE CROPS

- Do not apply more than once per cutting.
- Do not apply within 7 days of harvest or grazing.
- Do not exceed 1 7/8 pounds (1 ½ water soluble paks) per acre per cutting per year.
- · Carbaryl may cause a temporary bleaching of tender alfalfa foliage.
- BEE CAUTION

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PASTURE AND GRASSES GROWN FOR HAY AND/OR SEED

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Armyworm Chinch bugs Essex skipper Fall armyworm Striped grass looper	Thrips Range caterpillar Range crane fly	1 1/4 to 1 7/8	1.0 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 overapplication.
Ticks*		1 1/4	1.0	*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 3/4 pounds (3 water soluble paks) 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.

RANGELAND

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Black grass bug	Range caterpillar Range crane fly	5/8 to 1 1/4	2.0 to 1.0	Do not make more than 1 application per year. Accurately mark swaths to avoid over-
Grasshoppers Mormon cricket		5/8	2.0	application.
Ticks**		1 1/4	1.0	** 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 1/4 pounds (1 water soluble pak) per acre per year.
- BEE CAUTION

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

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS	
Colorado potato beetle European corn borer	Tomato hornworm Tomato pinworm	1 1/4 to 2 1/2	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.	
Fall armyworm Lace bugs Stink bugs				Thorough coverage is essential to effectively suppress stink bugs.	
(suppression) Tarnished plant bug Thrips (suppression) Tomato fruitworm				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		5/8 to 1 1/4	2.0 to 1.0	For cutworm, this product is most effect against species which feed on the up	
Cutworms		2 1/2	0.5	portions of the plant.	

RESTRICTIONS: FRUITING VEGETABLES

- Do not apply within 3 days of harvest.
- · Do not apply more than a total of 10 pounds (8 water soluble paks) 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;

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		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Flea beetles Harlequin bug Leafhoppers		5/8 to 1 1/4	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	Lygus bugs Spittlebugs Stink bugs Tarnished plant bug	1 1/4 to 2 1/2	1.0 to 0.5	

RESTRICTIONS: LEAFY VEGETABLES

- Do not apply within 14 days of harvest.
- Do not apply more than a total of 7 1/2 pounds (6 water soluble paks) per acre per crop per year.
- BEE CAUTION

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 Pak	SPECIFIC DIRECTIONS
Bean leaf beetle Blister beetle Cucumber beetles Grape colapsis	Green cloverworm Japanese beetle Mexican bean beetle Velvetbean caterpillar	5/8 to 1 1/4	2.0 to 1.0	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.
Corn earworm		5/8 to 1 7/8	2.0 to 0.67	Use lower rates for light to moderate populations and smaller instars. Use the higher rates for
Alfalfa caterpillar Colorado potato beetle Flea beetles Leafhoppers	Three cornered alfalfa hopper Thrips Western bean cutworm	1 1/4	1.0	heavy populations and larger instars.
Armyworm Cutworms European corn borer Fall armyworm	Stink bugs Tarnished plant bug Webworms	1 1/4 to 1 7/8	1.0 to 0.67	
Alfalfa looper (suppression) Cowpea curculio (suppression) Painted lady (Thistle caterpillar) Pea leaf weevil	Pea weevil Saltmarsh caterpillar Woollybean caterpillar Yellowstriped armyworm	1 7/8	0.67	
California only: Corn earworm (suppression) Limabean podborer (suppression)	Lygus bugs (suppression) Stink bugs (suppression)	1 7/8	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 7 1/2 pounds (6 water soluble paks) 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.

NONCROPLAND

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

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Black grass bug	1/3 to 5/8	3.7 to 2.0	Up to 2 applications per year may be made but not more often than once every 14 days.
Mormon cricket	5/8	2.0	Accurately mark swaths to avoid over- application.
Range caterpillar Range crane fly	5/8 to 1 1/4	2.0 to 1.0	
Ticks*	1 1/4	1.0	*Will kill only ticks present at the time of application and directly contacted by product

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 3/4 pounds (3 water soluble paks) 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.

OKRA*

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Corn earworm Stink bugs	1 1/4 to 1 7/8	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 7 1/2 pounds (6 water soluble paks) per acre per year.
- · DO NOT USE IN CALIFORNIA.
- BEE CAUTION

PEANUTS

PEST Blister beetles Mexican bean beetle		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
		5/8 to 1 1/4	2.0 to 1.0	Repeat applications as necessary up to a total of 5 times per year but not more often than once
Alfalfa caterpillar Bean leaf beetle Cucumber beetle Green cloverworm Japanese beetle Leafhoppers Rednecked peanutworm Three cornered alfalfa hopper Thrips Velvetbean caterpillar		1 1/4	1.0	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. For cutworm, this product is most effective against species which feed on the upper
Armyworm Corn earworm Fall armyworm	Stink bugs Webworms	1 1/4 to 1 7/8	1.0 to 0.67	portions of the plant.
Whitefringed beetle adults	Cutworms	2 1/2	0.5	

RESTRICTIONS: PEANUTS

- Do not apply within 14 days of harvest.
- Do not apply more than a total of 10 pounds (8 water soluble paks) 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.

PRICKLY PEAR CACTUS*

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Cochineal scale (crawlers)	2 1/2	0.5	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 7 1/2 pounds (6 water soluble paks) per acre per year.
- DO NOT USE IN CALIFORNIA.
- BEE CAUTION

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)

PEST		POUNDS OF THIS PRODUCT TREATED per PER ACRE Water Soluble Pak		SPECIFIC DIRECTIONS
Flea beetles Leafhoppers		5/8 to 1 1/4	2.0 to 1.0	Repeat applications as necessary up to a total of 6 times per year but not more often than once
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 1/4 to 2 1/2	1.0 to 0.5	every 7 days. 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 7 1/2 pounds (6 water soluble paks) 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 Pak	SPECIFIC DIRECTIONS
Armyworm Beet leaf beetle Fall armyworm	Flea beetles Leafhoppers Webworms	1 1/4 to 1 7/8	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.
Cutworms		1 7/8	0.67	For cutworm, this product is most effective against species 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 3/4 pounds (3 water soluble paks) per acre per crop per year.
- BEE CAUTION

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SWEET POTATOES

	PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Corn earworm Cucumber beetles Flea beetles Sweet potato hornworm	Sweet potato weevil Tortoise beetles Whitefringed beetle	1 1/4 to 2 1/2	1.0 to 0.5	For foliar sprays, repeat applications as necessary up to a total of 8 times per year but not more often than once every 7 days.
Yellowstriped armyworm		2 1/2	0.5	

RESTRICTIONS: SWEET POTATOES

- Do not apply within 7 days of harvest.
- Do not apply more than a total of 10 pounds (8 water soluble paks) per acre per crop 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.

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	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 1/4 to 2 1/2	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. In grapes for grape leaffolder, apply before first brood larvae emerge from rolls. In grapes, do not concentrate spray on the bunch or visible residues may result.
Blueberry maggot Cherry fruitworm Cranberry fireworm Cranberry fruitworms Cranberry twig girdler	Elm spanworm Gypsy moth Spaganothus worm Tarnished plant bug	1 7/8 to 2 1/2	0.67 to 0.5	
Eight-spotted forester Cutworms Grape berry moth June beetles Omnivorous leafroller	Orange tortrix Raspberry fruitworm Raspberry sawfly Redbanded leafroller Saltmarsh caterpillar	2 1/2	0.5	

RESTRICTIONS: SMALL FRUITS AND BERRIES

- Do not apply within 7 days of harvest.
- Do not apply more than a total of 12 1/2 pounds (10 water soluble paks) 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:

<u>East of the Rocky Mountains</u>, 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.

SUNFLOWERS

	PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Stem weevil Sunflower beetle		1 1/4 to 1 7/8	1.0 to 0.67	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 7/8	0.67	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 3/4 pounds (3 water soluble paks) 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.
- DO NOT USE ON SUNFLOWER IN CALIFORNIA.

TOBACCO

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Budworms Fall armyworm Tobacco flea beetles Hornworms	Japanese beetle June beetle Suckfly	1 1/4 to 2 1/2	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.

RESTRICTIONS: TOBACCO

- · Do not apply within 2 days of harvest.
- Do not apply more than a total of 10 pounds (8 water soluble paks) 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		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Avocado leafroller California orangedog Citrus cutworm Fruittree leafroller	Orange Tortrix Western tussock moth	2 1/2 to 3 3/4	0.5 to 0.3	OBSERVE BEE CAUTION. Repeat applications as necessary up to a total of 8 times per crop 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 3/4 to 6 1/4	0.3 to 0.2	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)	6 1/4	0.2	
California only: California red scale	Yellow scale	6 1/4 to 15	0.2 to 0.08	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.)		6 1/4 to 10	0.2 to 0.12	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

- Do not apply within 5 days of harvest.
- All States including Florida and California:

Do not apply more than a total of 25 pounds (20 water soluble paks) per acre per crop per year.

California only:

Restricted-entry interval (REI) =3 days for application rates ≥ 6 1/4 pounds per acre (5 water soluble paks). Do not apply more than 15 pounds (12 water soluble paks) per acre per application.

Florida only:

Restricted-entry interval (REI) = 12 hours

Do not apply more than 10 pounds (8 water soluble paks) per acre per application

All States other than Florida and California:

Restricted-entry interval (REI) = 12 hours

Do not apply more than 6 1/4 pounds (5 water soluble paks) 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. Do not apply to target crop 4 days prior to bloom.

OLIVES

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Scale insects (olive scale, black scale)	6 1/4 to 9 3/8	0.2 to 0.13	Up to 2 applications per crop per year 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 more than a total of 18 3/4 pounds (15 water soluble paks) 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. Do not apply to target crop 4 days prior to bloom.

POME FRUITS

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
White apple leafhopper		5/8 to 1 7/8	2.0 to 0.67	OBSERVE BEE CAUTION On apples, avoid use during the period from full
Apple aphid	Codling moth	1 1/4 to 3 3/4	1.0 to 0.3	bloom until 30 days after full bloom unless fruit thinning is desired. Use for pesticidal activity during
Apple aphid 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 apply aphid Scale insects (Forbes scale, Lecanium scale, San Jose scale) Tarnished plant bug Tentiform leafminers Woolly apple aphid Yellowheaded fireworm	1 7/8 to 3 3/4	0.67 to 0.3	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.

POME FRUITS (continued)

CROP	PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Apples		1 1/4 to 3 3/4	1.0 to 0.3	OBSERVE BEE CAUTION.
Only, for Fruit Thinning				For easily thinned varieties: apply 1/3 to 5/8 pounds per 100 gal. of spray mixture.
Tillining				For difficult to thin varieties: apply 5/8 to 1 1/4 pounds per 100 gal. of spray mixture.
				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.
				NOTE: The use of SEVIN® 80 Solupak 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 18 3/4 pounds (15 water soluble paks) 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

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). Plumot Prune (fresh)

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	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 1/2 to 3 3/4	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.
Californ	ia Only:			
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 3/4 to 5	0.3 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, Olive scale, Oystershell scale, San Jose scale)		5 to 6 1/4	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 17 1/2 pounds (14 water soluble paks) per acre per crop per year.

Do not apply more than a total of 6 1/4 pounds (5 water soluble paks) per acre at the dormant or delayed dormant timing.

Do not apply more than a total of 11 1/4 pounds (9 water soluble paks) per acre during the production season.

California only:

Do not apply more than 5 pounds per acre (4 water soluble paks) per application during the production season.

All States other than California:

Do not apply more than 3 3/4 pounds per acre (3 water soluble paks) per application during the production season.

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.

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	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Brown soft scale Lecanium scale Navel orangeworm	3 3/4 to 6 1/4	0.3 to 0.2	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	5 to 6 1/4	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: PISTACHIOS

- Do not apply within 14 days of harvest.
- Do not apply more than 6 1/4 pounds per acre per application.
- Do not apply more than a total of 18 3/4 pounds (15 water soluble paks) 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.

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]

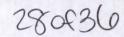
PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Black margined aphid	2 1/2 to 6 1/4	0.5 to 0.2	OBSERVE BEE CAUTION
Calico scale Codling moth European fruit lecanium Fall webworm			Repeat applications as necessary up to a total of 4 times per crop per year (including any applications a the dormant or delayed dormant timing) but not more often than once every 7 days.
Filbert aphid Filbert leafroller Filbertworm			Use lower rates for pests attacking leaves. Use higher rates for pests attacking fruit and for higher infestations.
Frosted scale			For scale, apply when crawlers are present.
Fruittree leafroller Hickory shuckworm Lesser webworm Navel orangeworm			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.
Peach twig borer Pecan leaf phylloxera Pecan stem phylloxera			For navel orangeworm in almonds and walnuts, bes results have been found by timing early and midseasor applications to correspond with moth flight peaks.
Pecan nut casebearer Pecan spittlebug Pecan weevil San Jose scale			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.
Twig girdler Walnut caterpillar			For codling moth in walnuts, best results have beer 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	5 to 6 1/4	0.25 to 0.2	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	5 to 6 1/4	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 used directions and restrictions.

RESTRICTIONS: TREE NUTS

- Do not apply within 14 days of harvest.
- Do not apply more than a total of 18 3/4 pounds (15 water soluble paks) 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.



FORESTED AREAS AND RANGELAND TREES

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

PEST		에서 보고 있다. (1915년 1707년) 전 1일을 되는 사실 시간 보고 있는데 1805년 1807년 1일		SPECIFIC DIRECTIONS
Ants (except harvester, pharaoh and carpenter) Apple aphid Armyworm Ash whitefly Azalea leafminer Bagworms Balsam twig aphid Birch leafminer Blister beetle Boxelder bug Boxwood leafminer Brown tail moth Cankerworms Catalpa sphinx 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 Elm spanworm 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 Lace bugs Leafhoppers Leafrollers Locust borer	Maple leafcutter Mealy bugs Mimosa webworm Nantucket pine tip moth Oak leafminers Oak moth Oak skeletonizer Oakworm complex Oleander caterpillar Olive ash borer Orange-striped oakworm Periodical cicada Pine looper Pine sawfly 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 hemlock looper Western spruce budworm Willow leaf beetles Wooly gall aphid Yellow poplar weevil	1 1/4	Pak 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 worm, treat when pests are small. Make applications for maple leafcutter on suga maple when larvae are in 2nd instar after mining and as cases are being formed. Repeat treatments as necessary up to a total o 2 times per year but not more often than once every 7 days. For gypsy moths, use the higher rate for heavy infestations.
		9/10 to 1 1/4	1.4 to 1.0	
Gypsy Moth		TANKS OF STREET		* Will kill only pests that are present at the time
Ticks*		1 1/4	1.0	of application and directly contacted by product

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FORESTED AREAS AND RANGELAND TREES, CONTINUED

PEST	RATE OF THIS PRODUCT PER GALLON	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Elm bark beetle Ips engraver beetles Mountain pine beetle Roundheaded pine beetle Spruce beetle Western pine beetle	3 oz per gallon (1 pak per 6.7 gallons)	See Specific Directions	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, Shrubs.

PEST		POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Ants (except	Maple leafcutter	1 1/4	1.0	Observe plant response precautions.
harvester, pharaoh	Mealy bugs			Obtain thorough coverage of upper and lower
and carpenter)	Mimosa webworm	August 18 a		leaf surfaces. The addition of a sticker may
Apple aphid	Nantucket pine tip			improve product performance.
Armyworm	moth			이 마음이 살아왔다. 이 경영 전체에 가장하다면 내가 되었다면 하게 되었다면 하는 보다 가장이 나갔다. 얼마나 나는 사람이 없다.
Ash whitefly	Oak leafminers			To kill scale insects, treat trunks, stems and
Azalea leafminer	Oak moth			twigs in addition to plant foliage.
Bagworms	Oak skeletonizer			For best results on worms, treat when pests
Balsam twig aphid	Oakworm complex			are small.
Birch leafminer	Oleander caterpillar			Make applications for maple leafcutter on sugar
Blister beetle	Olive ash borer			maple when larvae are in 2nd instar after
Boxelder bug	Orange-striped			mining and as cases are being formed.
Boxwood leafminer	oakworm			
Brown tail moth	Periodical cicada			Repeat treatments as necessary up to a total of
Cankerworms	Pine looper			6 times per year but not more often than once every 7 days.
Catalpa sphinx	Pine sawfly			
Chiggers* Cooley spruce gall	Pine spittlebug Pitch pine tip moth			For gypsy moths, use the higher rate for heavy
adelgid	Spruce budworm			infestations.
Cutworms	Plant bugs			*Will kill only pests that are present at the time
Cypress tip moth	Poinsettia hornworm			of application and directly contacted by
Douglas-fir tussock	Psyllids			product.
moth	Puss caterpillar			
Eastern spruce gall	Redhumped			
adelgid	oakworm			
Elm leaf aphid	Rose aphid			
Elm leaf beetle	Rose chafer			
Elm spanworm	Rose slug			
Eriophyid mites	Saddled prominent			
European pine shoot	Sawflies (exposed)			
moth	Scale insects			
Fall armyworm	(crawlers)			
Flea beetle	Sowbugs			
Fuschia gall mite	Spiney elm			
Fuller rose beetle	caterpillar			
Gall midges	Springtails			
Gall wasps	Spruce needleminer			
Greenstriped	Subtropical pine tip			
mapleworm	moth			
Grasshoppers	Tent caterpillars			
Hackberry nipplegall	Thorn bug			
maker	Thrips (exposed)			
Holly bud moth	Walnut caterpillar Webworms			
Holly leafminer	Western hemlock			
Jackpine budworm				
Japanese beetle	looper Western spruce			
Jeffrey pine needleminer	Western spruce budworm			
June beetles	Willow leaf beetles			
Lace bugs	Wooly gall aphid			
Leafhoppers	Yellow poplar weevil			
Leafrollers	Tollow popial weevil			
Locust borer				
Gypsy Moth		9/10 to 1 1/4	1.4 to 1.0	
Ticks*		1 1/4	1.0	

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ORNAMENTAL TREES AND PLANTS, CONTINUED

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

PEST	RATE OF THIS PRODUCT PER GALLON	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Elm bark beetle Ips engraver beetles Mountain pine beetle Roundheaded pine beetle Spruce beetle Western pine beetle	3 oz per gallon (1 pak per 6.7 gallons)	See Specific Directions	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: 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	DIRECTIONS
Ants (except harvester, pharaoh and carpenter) 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	5	For Armyworm, Cutworm, and Fall Armyworm: Do not irrigate treated areas within 24 hrs. following insecticide application. For Green June Beetle Grub (larvae): Make applications when grubs are feeding near the soil surface. Water or irrigate turfgrass within 48 hours after treatment. 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 only at the time of application and directly contacted by product.
Centipedes* Chiggers* Earwigs*		5	
Ticks*		1 1/4	
Chinch bugs Sod Webworm (lawn moths)		7 1/2 to 10	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 Hyperodes weevil (bluegrass weevil) larvae Springtails		10	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 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.
Fleas*		10	*Will kill only pests that are present only at the time of application and directly contacted by product.

RESTRICTIONS: TURFGRASS

- Do not apply more than a total of 20 pounds (16 water soluble paks) 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 Pak	SPECIFIC DIRECTIONS
Grasshoppers	5/8 to 1 7/8*	2.0 to 0.67	Apply 5/8 to 9/10 pounds per acre of this product for nymphs on small plants or sparse vegetation. Apply 1 1/4 to 1 7/8 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.

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/sites on this label including; Pastures; Forested Areas; Wasteland, Rights-of-Way, Hedgerows, Ditchbanks, Roadsides, Set-Aside and Conservation Reserve Program Acreage; Ornamental Trees and Plants; Turfgrass**.

PEST	POUNDS OF THIS PRODUCT PER ACRE	ACRES TREATED per Water Soluble Pak	SPECIFIC DIRECTIONS
Ixodes spp. (Deer tick, Bear tick, Black legged tick)	1 1/4	1.0	To kill juvenile ticks, apply in late spring or early summer. To kill adult ticks, apply in late summer to fall.
Amblyomma spp. (Lone star tick)			Treat entire area and perimeter areas where exposure to ticks may occur. Ticks may be reintroduced from surrounding areas on host animals. Retreat as necessary to maintain low population levels.

RESTRICTIONS: TICKS WHICH 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 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 1/4
 pounds of this product/A (one water soluble pack/A). 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 AREAS UNTIL SPRAYS HAVE DRIED.

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IMPORTED FIRE ANTS

All crops/sites on this label

AMOUNT OF THIS PRODUCT PER GAL OF WATER	DIRECTIONS
1 pak per 67.6 gallons	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.
1 pak per 67.6 gallons	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.
	PRODUCT PER GAL OF WATER 1 pak per 67.6 gallons

RESTRICTIONS: IMPORTED FIRE ANTS

- DO NOT ENTER OR ALLOW OTHERS TO ENTER TREATED AREAS 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.

^{**} 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.

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NUISANCE PESTS

For use as a perimeter treatment to kill the listed nuisance pests.

PEST	RATE OF THIS PRODUCT	GALLONS per Water Soluble Pak	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*	1% solution	13.3 gallons per pak	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 of structures should be minimal and restricted to cracks, crevices, and areas where insects tend to congregate. For use in and around flower beds and ornamental plantings, apply as a coarse wet spray in and around plant beds.

RESTRICTIONS: NUISANCE PEST

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

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IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

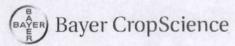
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