

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

November 14, 2017

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

Subject: Label Amendment – Update language related to Water Soluble Packaging

> Product Name: Drexel Carbaryl 80S EPA Registration Number: 19713-50 Application Date: July 27, 2017

Decision Number: 533038

Dear Ms. Chan:

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

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

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

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance Page 2 of 2 EPA Reg. No. 19713-50 Decision No. 533038

with FIFRA section 6. If you have any questions, please contact Eric Bohnenblust by phone at (703) 347-0426, or via email at Bohnenblust.eric@epa.gov.

Sincerely,

Richard Gebken

Product Manager 10

Invertebrate & Vertebrate Branch 2

Registration Division (7505P)

Office of Pesticide Programs

Enclosure

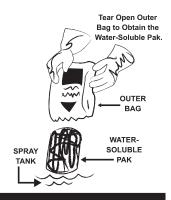
ACCEPTED

11/14/2017

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

EPA Reg. No. 19713-50





Carbaryl 805

Intended for Agricultural or Commercial Use

ACTIVE INGREDIENT:

Carbaryl (1-naphthyl N-methylcarbamate)	80.0%
OTHER INGREDIENTS:	20.0%
TOTAL:	100.0%

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.)

See FIRST AID Below

ATTENTION: This product contains a chemical known to the State of California to cause cancer.

EPA Reg. No. 19713-50
EPA Est. No.19713-XX-XXX
Net Content: 1.25 Lbs.

FIRST AID

IF SWALLOWED:

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

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call CHEMTREC at 800-424-9300 for medical emergency information.

NOTE TO PHYSICIAN: Carbaryl is an N-methyl carbamate that inhibits cholinesterase. Drugs like 2-PAM (pyridine-2-aldoxime methiodide) are not recommended.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING: May be fatal if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing.

Overexposure may cause: Salivation, watery eyes, pinpoint eye pupils, blurred vision, muscle tremors, difficult breathing, excessive sweating, abdominal cramps, nausea, vomiting, diarrhea, weakness and headaches. In severe cases, convulsions, 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 6.25 lbs. of this product (5 lbs. a.i.) must wear: Coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, chemical-resistant footwear plus socks, chemical-resistant headgear, and a NIOSH-approved dust/mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R. P or HE filter.

All other mixers, loaders, applicators, and handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves, and chemical-resistant apron when mixing, loading, or cleaning up spills or equipment.

Application by air or through chemigation is prohibited.

See "ENGINEERING CONTROLS" for additional requirements and

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

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



The DREXEL logo is a registered trademark of Drexel Chemical Company.

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ENGINEERING CONTROLS

Water-soluble packets when used correctly qualify as a closed mixing / loading system under the Worker Protection Standard [40 CFR 170.607(d)]. Mixers and loaders handling this product while it is enclosed in intact water-soluble packets may elect to wear reduced PPE of long-sleeved shirt, long pants, shoes, socks, a chemical-resistant apron and chemical-resistant gloves. When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

Applicators using airblast equipment for application to Citrus in California must use an enclosed cab that meets the definition in the WPS for agricultural pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, such applicators must: wear long-sleeved shirt, long pants, shoes, and socks; either wear a NIOSH-approved dust / mist filtering respirator with NIOSH / MSHA approval number 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, 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 re-entering the cab; and store all such PPE in a chemicalresistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

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

USER SAFETY RECOMMENDATIONS

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

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.

For crops in bloom (except Corn and Soybeans):

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

For Corn and Soybeans:

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

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read the entire label before using this product. Strictly observe label directions and precautions. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE), Restricted Entry Interval (REI), and notification of workers. The requirements in this box only apply to uses of this product that are covered by the WPS. Do not enter or allow worker entry into treated areas during the REI. The REI for carbaryl is 12 hours unless otherwise specified in the directions for use associated with each crop.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls over short-sleeved shirt and short pants, chemical-resistant gloves made of any waterproof material, chemical-resistant footwear plus socks, and chemical-resistant headgear if overhead exposure.

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

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the WPS for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Do not enter or allow others to enter the treated area until sprays have dried.

USE INFORMATION

CARBARYL 80S is a dry powder formulation packaged in water -soluble bag. It readily disperses in water to form a spray which may be applied by ground equipment. Aerial and chemigation applications are prohibited.

DIRECTIONS FOR WATER-SOLUBLE BAGS

EACH WATER-SOLUBLE PAK CONTAINS 1.25 POUNDS OF THIS PRODUCT. Do not sell individual water-soluble paks.

Paks containing this product are water-soluble. Do not allow pak to become wet prior to adding to the spray tank. Do not handle paks with wet hands. Use the entire contents of a water-soluble pak. Do not break open to use partial contents of a water-soluble pak.

Note: Products containing boron and / or fertilizers will prevent the water-soluble packet from dissolving. Boron and / or fertilizer products must only be added after packet(s) have completely dissolved. Other products may be added 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.

INSTRUCTIONS FOR USING WATER-SOLUBLE PACKAGES DIRECTLY INTO SPRAY TANKS

Water-Soluble Packages (WSPs) are designed to dissolve in water. Agitation may be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide products in WSPs. WSPs, when used properly, qualify as a closed mixing/loading system under the Agricultural Worker Protection Standard [40 CFR 170.607(d)].

Handling Instructions:

Follow these steps when handling pesticide products in WSPs.

- 1. Mix in spray tank only.
- Handle WSP(s) in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on PPE required for clean-up and then continue with mixing instructions.
- 3. Keep the WSP(s) in outer packaging until just before use.
- 4. Keep the WSP dry prior to adding to the spray tank.
- Handle with dry gloves and according to the label instructions for DDE
- 6. Keep WSP intact. Do not cut or puncture WSP.
- 7. Reseal the WSP outer packaging to protect any unused WSP(s).

Mixing Instructions:

Follow the steps below when mixing this product, including if tankmixed with other pesticide products. If being tank-mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank-mix products. WSPs may, in some cases,

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be mixed with other pesticide products so long as the directions for use of all mixed products do not conflict. Do not tank mix this product with products that prohibit tank mixing or have conflicting mixing directions

- If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.
- Fill tank with water to approximately one-third to one-half of the desired final volume of spray.
- 3. Stop adding water and stop any agitation.
- 4. Place intact/unopened WSP(s) into the tank.
- Do not spray water from a hose or fill pipe to break or dissolve the WSP(s).
- Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
- Dissolving the WSP(s) may take up to 5 minutes or longer, depending on water temperature, water hardness and intensity of agitation.
- 8. Stop agitation before tank lid is opened.
- Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSPs have fully dissolved and the contents have been thoroughly mixed into the solution.
- Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
- 11. Once the WSP have fully dissolved and any other products have been added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
- 12. Use the spray solution when mixing is complete.
- Maintain agitation of the diluted pesticide mix during transport and application.
- 14. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

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, Maidenhair fern and Virginia creeper as injury may result. Carbaryl may also injure Sand and Virginia pines. The use of adjuvants may increase the potential for crop injury to sensitive crops.

PRE-HARVEST AND GRAZING RESTRICTIONS AND LIMITATIONS

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

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

APPLICATION STATEMENTS

Calibrate and adjust application equipment to ensure proper rate and accurate placement. To clean spray system after use, drain and flush with water and detergent mixture. Rinse thoroughly with clean water. Refer to the "STORAGE AND DISPOSAL" section for disposal instructions.

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

RESISTANT SPECIES NOTICE: All references to Armyworms on the crops listed on this label refer to the species, *Pseudaletia unipuncta*, often called the "True armyworm". Except where indicated otherwise, this product is not registered for the control of other Armyworm species. Regional differences have been noted in the susceptibility of certain strains of Colorado potato beetles, Fall armyworms and Southern green stink bugs to carbaryl. If local experience indicates inadequate product performance, use an alternative pesticide.

MIXING AND HANDLING INSTRUCTIONS

Prepare only as much spray mixture as can be applied on the day of mixing. Maintain continuous agitation during application to assure a uniform suspension. Do not store spray mixture for prolonged periods or degradation of Carbaryl may occur. Local water conditions may also accelerate the degradation of spray mixtures containing carbaryl. See "COMPATIBILITY STATEMENT" below.

COMPATIBILITY STATEMENT

This product, when diluted with at least an equal volume of water, is compatible with a wide range of pesticides. It is not compatible with diesel fuel, kerosene, fuel oil or aromatic solvents. If compatibility with another product and the resulting crop response is unknown, the mixture should be tested on a small scale. Curdling, precipitation, greasing, layer formation or increased viscosity are symptoms of incompatibility. Incompatibility will reduce product performance and may cause application and handling difficulties or plant injury. Observe all precautions and limitations on labeling of all products used in mixtures. When preparing combination sprays, first add this product to at least an equal volume of water, mix thoroughly and then add combination products to the mixture. Do not apply tank-mix combinations unless your previous experience indicates the mixture is effective and will not result in application problems or plant injury. Carbaryl is unstable under highly alkaline conditions and mixture 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

Crop / Site Groupings: Asparagus, Brassica leafy vegetable crops, Cereal grain crops (Field and Popcorn, Grain sorghum, Rice, Sweet corn); Cucurbit vegetables, Flax, Forage crops (Alfalfa, Birdsfoot trefoil, Clovers), Pasture and Grasses grown for Hay and / or seed, Rangeland, Fruiting vegetables, Leafy vegetables, Legume vegetables (such as edible-podded legume vegetables, Dried shelled pea and beans (except soybeans), Soybeans, Foliage of legume vegetables), Non-cropland (such as Conservation Reserve Program, Ditchbanks, Hedgerows, Rights-of-way, Roadsides, Set-Aside Program acreage, Wasteland), Okra, Peanuts, Prickly pear cactus, 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, Imported fire ants, Ticks which may vector Lyme disease, 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 for treatment and specific use information 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.

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REI = Restricted Entry Interval

ASPARAGUS

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Asparagus	Apache cicadas, Asparagus beetles,	1.25
	Cutworms	(1)
	SPECIFIC DIRECTIONS: Repeat appl	ication as necessary up to
	a total of 3 times prior to harvest, but not more often than once	
	every 3 days, or a total of 5 applications per year to spears and	
	ferns combined. For Cutworm, this product is most effective	
	against species which feed on the upper portions of the plant.	
	Do not apply within 1 day of harvest.	
	Apache cicadas, Asparagus beetles,	2.5
	Cutworms (0.5)	
	SPECIFIC DIRECTIONS: Application to ferns or brush growth	
	following harvest of spears: Repeat applications as necessary but	
	not more often than once every 3 days. Do not make more than	
	a total of 5 applications per year to spears and ferns combined.	

RESTRICTIONS: For pre-harvest application, do not apply more than 3.75 lbs. of this product (3 paks) per acre per year. Do not apply more than 6.25 lbs. of this product (5 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 PLUS TURNIP GREENS

Repeat applications as needed up to a total of 4 times per year, but not more often than once every 7 days.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
All members of the Brassica	Flea beetles, Harlequin	0.6 to 1.25
Leafy Vegetables	bugs, Leafhoppers	(2 to 1)
Crop Group 5 including:	Armyworms, Aster	1.25 to 2.5
Broccoli, Broccoli raab	leafhoppers, Corn	(1 to 0.5)
(rapini), Brussel sprouts,	earworms, Diamondback	
Cabbage, Cauliflower,	moth, Fall armyworms,	
Cavalo broccolo, Chinese	Imported cabbageworms,	
broccoli (gai lon), Chinese	Lygus bugs, Spittlebugs,	
cabbage (bok choy),	Stink bugs, Tarnished plant	
Chinese cabbage (napa),	bugs	
Chinese mustard cabbage		
(gai choy), Collards, Kale,		
Kohlrabi, Mizuna, Mustard		
greens, Mustard spinach,		
Rape greens; Turnip greens		

RESTRICTIONS: Application is permitted only within 30 days from the date of crop emergence or the date of transplanting. Do not apply within 3 days of harvest of Head and Stern 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. For Leafy Brassica Greens Subgroup 5B including Broccoli raab (rapini), Chinese cabbage (bok choy), Collards, Kale, Mizuna, Mustard greens, Mustard spinach, Rape greens, Turnip greens, do not apply within 14 days of harvest. Do not apply more than a total of 7.5 lbs. of this product (6 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.

CEREAL GRAIN CROPS

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

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.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Corn (Field,	Armyworms, Chinch bugs, Corn	1.25 to 2.5
Pop, Seed)	earworms, Corn rootworm adults, Fall	(1 to 0.5)
(Continued)	armyworms, Flea beetles, Japanese	
	beetles, Sap beetles, Southwestern	
	corn borers, Leafhoppers	
		(Continued)

Corn (Field, Pop, Seed) (REI = 24 hours) (Cont.)

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Corn (Field, Pop, Seed) (Cont.)	SPECIFIC DIRECTIONS: For best resu ground equipment to apply at least 20 gal direct spray toward stalk to provide thoro	s. of water per acre and
(Com.)	European corn borers	1.8 to 2.5 (0.67 to 0.5)
	SPECIFIC DIRECTIONS: For best results on European corn borer, do not apply in less than 15 gals. of water by ground.	
	Cutworms, Western bean cutworms	2.5 (0.5)
	SPECIFIC DIRECTIONS: For best result a 12-inch band over the row, using suf to obtain thorough coverage. For broadd least 20 gals. of water by ground per a product is most effective against species portions of the plant. For Western beam infestation averages 15% and at 90 to 10 Treatment after 100% silk emergence will	ficient volume of water cast application, use at cre. For Cutworm, this which feed on the upper cutworms, treat when 00% tassel emergence.

RESTRICTIONS: Do not apply more than a total of 10 lbs. of this product (8 paks) per acre per crop per year. Do not apply within 48 days of harvest of grain and fodder or within 14 days of harvest or grazing of forage or silage. BEE CAUTION: If application cannot be avoided when target crops or weeds are in bloom, limiting applications to times when bees are least active, e.g., within 2 hours of sunrise or sunset, will minimize risk to bees. Notifying beekeepers within 1 mile of treatment area at least 48 hours before product is applied will allow them to take additional steps to protect their bees. Do not apply to target crop 4 days prior to bloom. Prohibitions: Do not enter or allow workers to enter treated areas to perform hand detasseling tasks until 21 days after application. Hand harvesting is prohibited.

Corn (Sweet) (REI = 24 hours)

Repeat applications as necessary up to a total of 8 times per year, but not more than once every 3 days. Good timing and good coverage are essential for effective product performance.

For insects attacking silks and ears, insecticide sprays should be applied starting when first silks appear and continuing until silks begin to dry. During silking, the minimum retreatment interval of 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.

Siloulu be c	onsidered in conjunction with this prod	idot.
Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Sweet corn	Armyworms, Chinch bugs, Corn earworms, Corn rootworm adults, Fall armyworms, Flea beetles, Japanese beetles, Leafhoppers, Sap beetles, Southwestern corn borers	1.25 to 2.5 (1 to 0.5)
	SPECIFIC DIRECTIONS: For best results on Chinch bug, use ground equipment to apply at least 20 gals. of water per acre and direct spray toward stalk to provide thorough coverage.	
	European corn borers	1.8 to 2.5 (0.67 to 0.5)
	SPECIFIC DIRECTIONS: For best results on do not apply in less than 15 gals. of water per	
Sweet corn	Cutworms, Western bean cutworms	2.5 (0.5)
SPECIFIC DIRECTIONS: 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 gals. of water per acre by ground. For Cutworm, this product is most effective against species which feed on the upper portions of the plant. For Western bean cutworms, treat when infestation averages 15% and at 90 to 100% tassel emergence. Treatment after 100% silk emergence will reduce effectiveness.		
RESTRICTIONS: 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		
harvest or grazing or lorage or within 40 days of harvest of lodder. Do not apply		

more than a total of 20 lbs. of this product (16 paks) per acre per crop per year.

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(Continued)

Corn (Sweet) (REI = 24 hours) (Cont.)

(Cont.) BEE CAUTION: If application cannot be avoided when target crops or weeds are in bloom, limiting applications to times when bees are least active, e.g., within 2 hours of sunrise or sunset, will minimize risk to bees. Notifying beekeepers within 1 mile of treatment area at least 48 hours before product is applied will allow them to take additional steps to protect their bees. Do not apply to target crop 4 days prior to bloom.

Prohibitions: Do not enter or allow workers to enter treated areas to perform hand detasselling tasks until 21 days after application. Hand harvesting is prohibited.

Grain Sorghum

Repeat applications as necessary up to a total of 4 times per year, but not more often than once every 7 days. Direct spray into forming heads for best results on insects attacking heads.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Grain sorghum	Armyworms, Chinch bugs, Corn	1.25 to 2.5
	earworms, Fall armyworms, Stink bugs,	(1 to 0.5)
	Webworms	
	SPECIFIC DIRECTIONS: For best results on Ching bug, use	
	high gallonage ground application at the base of the plants.	
	Southwestern corn borers	1.8
		(0.67)
	Cutworms	2.5
		(0.5)
	SPECIFIC DIRECTIONS: For Cutworm, this product is most	
	effective against species which feed on the upper portions of	
	the plant.	
DECEDICATIONS	De mat ample culting 01 days of housest	for male or fordular or

RESTRICTIONS: 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 7.5 lbs. of this product (6 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.

Rice

Repeat applications as necessary up to a total of 2 times per crop per year, but not more often than once every 7 days.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Rice	Armyworms, Chinch bugs, Fall armyworms, Leafhoppers, Stink bugs	1.25 to 1.8 (1 to 0.67)
	SPECIFIC DIRECTIONS: Up to 2 applications per crop per year may be made, but not more often than once every 7 days.	
	Tadpole shrimp (CA only)	1.8 (0.67)
	SPECIFIC DIRECTIONS: For best results on tadpole shrimp, apply to water when pest first appears. Up to 2 applications can be made per year at minimum 7-day intervals.	

RESTRICTIONS: Do not apply within 14 days of harvest for grain or straw. Do not apply more than a total of 3.75 lbs. of this product (3 paks) per acre per crop per year. Discharge from treated rice fields may kill shrimp, crabs, and crayfish. Do not apply propanil herbicides with 15 days before or after application of this product or plant injury may 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.

CUCURBIT VEGETABLES

Repeat applications as necessary up to a total of 6 times per year, but not more often than once every 7 days.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
All members of the Cucurbit Vegetables	Melonworms, Pickleworms	0.6 to 1.25 (2 to 1)
Crop Group 9 including: Momordica spp. (includes Balsam apple, balsam pear, bitter melon, Chinese	Cucumber beetles, Flea beetles, Leafhoppers, Squash bugs	1.25 (1)
cucumber), Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Edible gourd (includes hyotan, cucuzza, hechima, Chinese okra), Muskmelon (hybrids and / or cultivars of <i>Cucumis melo</i> including cantaloupe, true cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon), Pumpkin, Summer squash types (such as crookneck squash, scallop squash, straightneck squash, vegetable marrow and zucchini), Watermelon (including hybrids and / or varieties of <i>Citrullus lanatus</i>), Winter squash types (such as acorn squash, butternut squash, calabaza, cushaw, Hubbard squash), and spaghetti squash)	SPECIFIC DIRECTIONS: Squash bugs, apply suffic thorough coverage and t morning or late afternoon.	ient spray volume for

RESTRICTIONS: Do not apply within 3 days of harvest. Do not apply more than a total of 7.5 lbs. of this product (6 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

Up to 2 applications per crop per year can be made, but not more than once every 14 days.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Flax	Armyworm	1.25 to 1.8
(Except CA)		(1 to 0.67)

RESTRICTIONS: Do not apply within 42 days of harvest for seed or straw. Do not apply more than a total of 3.75 lbs. of this product (3 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.

FORAGE CROPS

Alfalfa, Birdsfoot Trefoil, Clovers

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

equipment to ensure adequate coverage.		
Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Alfalfa, Birdsfoot trefoil, Clovers	Blister beetles, Mexican bean beetles	0.6 to 1.25 (2 to 1)
(Continued)	Alfalfa caterpillars, Bean leaf beetles, Cucumber beetles, Green cloverworms, Japanese beetles, Leafhoppers, Potato leafhoppers, Threecornered alfalfa hoppers, Thrips, Velvetbean caterpillars	1.25 (1)
		(Continued)

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Alfalfa, Birdsfoot Trefoil, Clovers (Cont.)

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Alfalfa, Birdsfoot	Alfalfa blotch leafminers, Armyworms,	1.25 to 1.6
trefoil, Clovers	Cloverhead weevils, Corn earworms,	(1 to 0.77)
(Cont.)	Cutworms, Egyptian alfalfa weevil	
	larvae, Essex skippers, European	
	alfalfa beetles, Fall armyworms,	
	Lygus bugs, Stink bugs, Webworms,	
	Yellowstriped armyworms	
	SPECIFIC DIRECTIONS: For Cutworm, this product is most	
	effective against species which feed on the upper portions of	
	the plant.	
	Alfalfa weevil larvae	1.25 to 1.8
	(West of the Rocky Mountains)	(1 to 0.67)
	SPECIFIC DIRECTIONS: If pre-treatment damage is	
	extensive, cut Alfalfa and treat the stubble. This product is not	
	effective against adult Alfalfa weevils.	
	Alfalfa weevil larvae	1.8
	(East of the Rocky Mountains)	(0.67)
	SPECIFIC DIRECTIONS: If pre-tre	•
	extensive, cut Alfalfa and treat the stubble. This product is not	
	effective against adult Alfalfa weevils.	

RESTRICTIONS: Observe "PLANT RESPONSE PRECAUTIONS". Do not apply more than once per cutting. Do not apply within 7 days of harvest or grazing. Do not exceed 1.8 lbs. of this product (1.5 paks) per acre per cutting. Carbaryl may cause 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

Up to 2 applications can be made per year, but not more often than once every 14 days.

	·	
Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per
		Water-Soluble Pak)
Pasture and	Armyworms, Chinch bugs, Essex	1.25 to 1.8
Grasses grown for	skippers, Fall armyworms, Striped	(1 to 0.67)
hay and / or seed	grass loopers, Thrips, Range	
	caterpillars, Range crane flies	
	SPECIFIC DIRECTIONS: To kill Thi	rips, use high spray
	pressure to improve penetration into the	boot. Accurately mark
	swaths to avoid over-application.	
	Ticks	1.25
		(1)
	SPECIFIC DIRECTIONS: This produ	ct will kill only Ticks
	present at the time of application and directly contacted by	
	product.	

RESTRICTIONS: Do not apply within 14 days of harvest or grazing. Do not exceed a total of 3.75 lbs. of this product (3 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

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

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Rangeland	Black grass bugs, Range caterpillars, Range crane flies	0.6 to 1.25 (2 to 1)
	Grasshoppers, Mormon crickets	0.6 (2)
	Ticks	1.25 (1)
	SPECIFIC DIRECTIONS: This produ present at the time of application directly	,

RESTRICTIONS: May be harvested or grazed the same day of treatment. Do not apply more than 1.25 lbs. of this product (1 pak) 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

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

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
All members	Colorado potato beetles, European	1.25 to 2.5
of the Fruiting	corn borers, Fall armyworms, Lace	(1 to 0.5)
Vegetable Crop	bugs, Stink bugs (suppression),	
Group 8 including:	Tarnished plant bugs, Thrips	
Eggplant,	(suppression), Tomato fruitworms,	
Groundcherry,	Tomato hornworms, Tomato	
Pepinos, Pepper	pinworms	
(includes: bell pepper, chili	SPECIFIC DIRECTIONS: Thorough co effectively suppress Stink bugs.	overage is essential to
pepper, cooking	Flea beetles, Leafhoppers	0.6 to 1.25
pepper, pimento,		(2 to 1)
sweet pepper),	Cutworms	2.5
Tomatillo, Tomato		(0.5)
	SPECIFIC DIRECTIONS: For Cutworm	n, this product is most
	effective against species which feed or the plant.	the upper portions of

RESTRICTIONS: Do not apply within 3 days of harvest. Do not apply more than a total of 10 lbs. of this product (8 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.

LEAFY VEGETABLES

Repeat applications as necessary up to a total of 5 times per year, but not more often than once every 7 days.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Dandelion; Endive (escarole);	Flea beetles, Harlequin	0.6 to 1.25
Lettuce (head and leaf);	bugs, Leafhoppers	(2 to 1)
Parsley; Spinach; All members of the Leaf Petioles Vegetable Subgroup 4B including: Cardoon, Celery, Celtuce, Chinese celery, Florence fennel (including sweet anise, sweet fennel, Finocchio), Rhubarb, Swiss chard	Armyworms, Aster leafhoppers, Corn earworms, Fall armyworms, Imported cabbageworms, Lygus bugs, Spittlebugs, Stink bugs, Tarnished plant bugs	1.25 to 2.5 (1 to 0.5)

RESTRICTIONS: Do not apply within 14 days of harvest. Do not apply more than a total of 7.5 lbs. of this product (6 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.

LEGUME VEGETABLES

All members of the Edible Podded Legume Vegetables Crop Subgroup 6A including: Phaseolus spp. including runner bean, snap bean, and wax bean; Vigna spp. including Asparagus bean, Chinese longbean, Moth bean and Yardlong bean; Pisum spp. including Dwarf pea, Edible-pod pea, Snow pea, Sugar snap pea; Jackbean; Pigeon pea; Soybean (immature seed); Sword bean;

All members of the Dried Shelled Legume Vegetables (except soybeans) Crop Subgroup 6C including: Lupinus spp. including Grain lupin, Sweet lupin, White lupin and White sweet lupin; Phaseolus spp. including Field bean, Kidney bean, Dry lima bean, Navy bean, Pinto bean, Tepary bean; Vigna spp. including Adzuki bean, Blackeyed pea, Catjang, Cowpea, Crowder pea, moth bean, Mung bean, Rice bean, Southern pea, Urd bean; Pisum spp. including dwarf pea, edible-podded pea, English pea, field pea, garden pea, Green pea, Snow pea, Sugar snap pea; Broad bean (dry); Chickpea (dry); Guar (dry); Lablab bean (dry); Lentil (dry); Pigeon pea (dry) (DO NOT USE ON LENTILS IN CALIFORNIA).

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

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Repeat applications as necessary up to a total of 4 times per year, but not more often than once every 7 days. Use lower rates for light to moderate populations and smaller instars. Use the higher rates for heavy populations and larger instars.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
See crop listing	Bean leaf beetles, Blister beetles,	0.6 to 1.25
above	Cucumber beetles, Grape colaspis,	(2 to 1)
	Green cloverworms, Japanese	
	beetles, Mexican bean beetles,	
	Velvetbean caterpillars	
	Corn earworms	0.6 to 1.8 (2 to 0.67)
	Alfalfa caterpillars, Colorado potato	1.25
	beetles, Flea beetles, Leafhoppers,	(1)
	Threecornered alfalfa hoppers,	
	Thrips, Western bean cutworms	
	Armyworms, Cutworms, European	1.25 to 1.8
	corn borers, Fall armyworms,	(1 to 0.67)
	Stink bugs, Tarnished plant bugs,	
	Webworms	
	SPECIFIC DIRECTIONS: For Cutwork	
	effective against species which feed	on the upper portions
	of the plant.	Г
	Alfalfa loopers (suppression),	1.5
	Cowpea curculios (suppression),	(0.67)
	Painted ladies (Thistle caterpillars),	
	Pea leaf weevils, Pea weevils,	
	Saltmarsh caterpillars, Woollybear	
	caterpillars, Yellowstriped	
	armyworms	
	CA ONLY (For Supression): Corn	1.5
	earworms, Limabean podborers,	(0.67)
DECEDICTIONS: De	Lygus bugs, Stink bugs	

RESTRICTIONS: Do not apply within 14 days of grazing or harvest for forage or within 3 days of harvest of fresh edible-podded Beans or Peas or within 21 days of harvest of Dried beans or Peas, seed or hay. Do not apply more than a total of 7.5 lbs. of this product (6 paks) per acre per crop per year. Use on succulent, shelled peas and beans, (Crop Subgroup 6B) is prohibited. Do not apply a combination of this product and 2,4-DB herbicides to Soybeans as crop injury may result. Observe "PLANT RESPONSE PRECAUTIONS". BEE CAUTION: For crops in bloom (except Soybeans): Do not apply this product to target crops or weeds in bloom. For Soybeans: If application cannot be avoided when target 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.

NON-CROPLAND

Up to 2 applications can be made per year, but not more often than once every 14 days. Accurately mark swath to avoid over-application.

	•	• • •
Site	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Conservation Reserve	Black grass bugs	0.3 to 0.6
Program Acreage,		(3.7 to 2)
Set-Aside Program	Range caterpillars, Range crane	0.6 to 1.25
Acreage, Wasteland,	flies	(2 to 1)
Rights-of-Way,	Mormon crickets	0.6
Hedgerows,		(2)
Ditchbanks,	Ticks	1.25
Roadsides		(1)
	SPECIFIC DIRECTIONS: This produced	duct will kill only Ticks
	present at the time of application	and directly contacted
	by product.	

RESTRICTIONS: Do not apply within 14 days of grazing or harvest for forage or hay. Do not apply more than a total of 3.75 lbs. of this product (3 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

Up to 4 applications can be made per year, but not more often than once every 6 days. Apply using ground equipment in sufficient volume to ensure good coverage. For Grasshopper, refer to "SPECIFIC PESTS ACROSS MULTIPLE SITES" section.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Okra	Corn earworms, Stink bugs	1.25 to 1.8
(Except CA)		(1 to 0.67)

RESTRICTIONS: Do not apply within 3 days of harvest. Do not apply more than a total of 7.5 lbs. of this product (6 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.

PEANUTS

Repeat applications as necessary up to a total of 5 times per year, but not more often than once every 7 days.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Peanuts	Blister beetles, Mexican bean beetles	0.6 to 1.25 (2 to 1)
	Alfalfa caterpillars, Bean leaf beetles,	1.25
	Cucumber beetles, Green cloverworms,	(1)
	Japanese beetles, Leafhoppers,	
	Rednecked peanutworms,	
	Threecornered alfalfa hoppers, Thrips,	
	Velvetbean caterpillars	
	SPECIFIC DIRECTIONS: For best res	sults on Thrips, use
	directed or banded spray with hollow cone	spray nozzles. Ensure
	adequate coverage for the underside of lea	aves.
	Armyworms, Corn earworms, Fall	1.25 to 1.8
	armyworms, Stink bugs, Webworms	(1 to 0.67)
	Whitefringed beetle adults, Cutworms	2.5
	_	(0.5)
	SPECIFIC DIRECTIONS: For Cutworm,	this product is most
	effective against species which feed on the	e upper portions of the
	plant.	

RESTRICTIONS: Observe "PLANT RESPONSE PRECAUTIONS". Do not apply within 14 days of harvest. Do not apply more than a total of 10 lbs. of this product (8 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.

PRICKLY PEAR CACTUS

Up to 3 applications can be made per year, but not more often than once every 7 days. Apply using ground equipment in sufficient volume to ensure good coverage. For Grasshopper, refer to "SPECIFIC PESTS ACROSS MULTIPLE SITES" section.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Prickly pear cactus	Cochineal scales (crawlers)	2.5
(Except CA)		(0.5)

RESTRICTIONS: Do not apply within 3 days of harvest. Do not apply more than 7.5 lbs. of this product (6 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.

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ROOT AND TUBER CROPS

(Except Sugar beets and Sweet potatoes)

Repeat applications as necessary up to a total of 6 times per year, but not more often than once every 7 days.

not more often than once every 7 days.			
Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)	
All members of the Root and Tuber Vegetables Crop Group 1 except Sugar beets and Sweet potatoes: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden), Beet (sugar, root), Burdock (edible), Canna (edible, Queensland arrowroot),	Flea beetles, Leafhoppers Armyworms, Aster leafhoppers, Colorado potato beetles, Corn earworms, Cutworms, European corn borers, Fall armyworms, Lace bugs, Lygus bugs, Spittlebugs, Stink bugs, Tarnished plant	0.6 to 1.25 (2 to 1) 1.25 to 2.5 (1 to 0.5)	
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)	bugs SPECIFIC DIRECTIONS: product is most effective again on the upper portions of the p		

RESTRICTIONS: Do not apply within 7 days of harvest. Do not apply more than 7.5 lbs. of this product (6 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

Repeat applications as necessary up to a total of 2 times per year, but not more often than once every 14 days.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Sugar beets	Armyworms, Beet leaf beetles, Fall	1.25 to 1.8
	armyworms, Flea beetles, Leafhoppers,	(1 to 0.67)
	Webworms	
	Cutworms	1.8
		(0.67)
	SPECIFIC DIRECTIONS: For Cutworm,	this product is most
	effective against species which feed on the	e upper portions of the
	plant.	
DECEDICATIONS. Do not conductable 20 door of housest for roots on forces. Do not		

RESTRICTIONS: Do not apply within 28 days of harvest for roots or forage. Do not apply more than a total of 3.75 lbs. of this product (3 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.

SWEET POTATOES

For foliar spray, repeat applications as necessary up to a total of 8 times per year, but no more often than once every 7 days.

,		
Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per
		Water-Soluble Pak)
Sweet potatoes	Corn earworms, Cucumber beetles,	1.25 to 2.5
	Flea beetles, Sweet potato hornworms,	(1 to 0.5)
	Sweet potato weevils, Tortoise beetles,	
	Whitefringed beetles	
	Yellowstriped armyworms	2.5
		(0.5)

RESTRICTIONS: Do not apply within 7 days of harvest. Do not apply more than a total of 10 lbs. of this product (8 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.

SMALL FRUITS AND BERRIES

(REI: Grapes [East of the Rocky Mountains] 2 days for all activities except grape girdling and cane turning. EXCEPTION: The REI is 6 days for grape girdling and cane turning; Grapes [West of the Rocky Mountains] 6 days)

Repeat applications as necessary up to a total of 5 times per year, but not more often than once every 7 days.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
All members of the Caneberry	European fruit lecaniums,	1.25 to 2.5
Crop Subgroup 13-07A	European raspberry	(1 to 0.5)
including: Blackberry (Rubus	aphids, Flea beetles,	
spp. including Andean	Grape leaffolders, Grape	
blackberry, Artic blackberry,	leafrollers, Japanese	
bingleberry, black satin berry,	beetles, Leafhoppers,	
boysenberry, Brombeere,	Leafrollers, Meadow	
California blackberry,	spittlebugs, Omnivorous	
Cherokee blackberry,	leaftiers, Rose chafers,	
Chesterberry, Cheyenne	Snowy tree crickets,	
blackberry, common	Strawberry bud weevils,	
blackberry, coryberry,	Strawberry clippers,	
darrowberry, dewberry,	Strawberry fruitworms,	
Dirksen thornless berry,	Strawberry leafrollers, Strawberry weevils,	
Evergreen blackberry,	Western grapeleaf	
Himalayaberry, hullberry,	skeletonizers, Western	
Lavacaberry, Loganberry, lowberry, Lucretiaberry,	yellowstriped armyworms	
mammoth blackberry,	SPECIFIC DIRECTIONS:	In Grange for Grand
marionberry, Mora, Mures	leaffolder, apply before t	
deronce, nectarberry,	emerge from rolls.	ine mat brood larvae
Northern dewberry,	emerge nom rous.	
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,		
Black cap, Caneberry,		
Framboise, Frambueso,		
Himbeere, Keriberry,		
Mayberry, Purple raspberry,		
Red raspberry, Thimbleberry,		
Tulameen, Wild raspberry,		
Yellow raspberry, plus		
cultivars, varieties and / or		
hybrids of these).	Dhabamaaaaa	104-25
All members of the Bushberry Crop Subgroup	Blueberry maggots, Cherry fruitworms,	1.8 to 2.5 (0.67 to 0.5)
13-07B including: Aronia	Cranberry fireworms,	(0.07 (0.0)
berry, Blueberry (<i>Vaccinum</i>	Cranberry fruitworms,	
spp. – highbush, lowbush	Cranberry twig girdlers,	
and cultivars and / or hybrids	Elm spanworms, Gypsy	
of these [= all blueberry	moths, Sparganothis	
species], chilean guava,	worms, Tarnished plant	
	buas	
Currant (black, buffalo, native,	bugs Fightspotted foresters.	2.5
Currant (black, buffalo, native, red), Elderberry,	Eightspotted foresters,	
Currant (black, buffalo, native, red), Elderberry, European barberry,	Eightspotted foresters, Cutworms, Grape berry	2.5 (0.5)
Currant (black, buffalo, native, red), Elderberry, European barberry, Gooseberry, Highbrush	Eightspotted foresters,	
Currant (black, buffalo, native, red), Elderberry, European barberry,	Eightspotted foresters, Cutworms, Grape berry moths, June beetles, Omnivorous leafrollers,	
Currant (black, buffalo, native, red), Elderberry, European barberry, Gooseberry, Highbrush cranberry, Honeysuckle	Eightspotted foresters, Cutworms, Grape berry moths, June beetles,	
Currant (black, buffalo, native, red), Elderberry, European barberry, Gooseberry, Highbrush cranberry, Honeysuckle (edible), Huckleberry,	Eightspotted foresters, Cutworms, Grape berry moths, June beetles, Omnivorous leafrollers, Orange tortrix, Raspberry	
Currant (black, buffalo, native, red), Elderberry, European barberry, Gooseberry, Highbrush cranberry, Honeysuckle (edible), Huckleberry, Jostaberry, Juneberry, Lingonberry, Salal, sea buckthorn, plus cultivars,	Eightspotted foresters, Cutworms, Grape berry moths, June beetles, Omnivorous leafrollers, Orange tortrix, Raspberry fruitworms, Raspberry	
Currant (black, buffalo, native, red), Elderberry, European barberry, Gooseberry, Highbrush cranberry, Honeysuckle (edible), Huckleberry, Jostaberry, Juneberry, Lingonberry, Salal, sea buckthorn, plus cultivars, varieties and / or hybrids of	Eightspotted foresters, Cutworms, Grape berry moths, June beetles, Omnivorous leafrollers, Orange tortrix, Raspberry fruitworms, Raspberry sawflies, Redbanded leafrollers, Saltmarsh caterpillars	(0.5)
Currant (black, buffalo, native, red), Elderberry, European barberry, Gooseberry, Highbrush cranberry, Honeysuckle (edible), Huckleberry, Jostaberry, Juneberry, Lingonberry, Salal, sea buckthorn, plus cultivars, varieties and / or hybrids of these.	Eightspotted foresters, Cutworms, Grape berry moths, June beetles, Omnivorous leafrollers, Orange tortrix, Raspberry fruitworms, Raspberry sawflies, Redbanded leafrollers, Saltmarsh caterpillars SPECIFIC DIRECTIONS:	(0.5) For Cutworm, this
Currant (black, buffalo, native, red), Elderberry, European barberry, Gooseberry, Highbrush cranberry, Honeysuckle (edible), Huckleberry, Jostaberry, Juneberry, Lingonberry, Salal, sea buckthorn, plus cultivars, varieties and / or hybrids of	Eightspotted foresters, Cutworms, Grape berry moths, June beetles, Omnivorous leafrollers, Orange tortrix, Raspberry fruitworms, Raspberry sawflies, Redbanded leafrollers, Saltmarsh caterpillars	(0.5) For Cutworm, this against species which

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SMALL FRUITS AND BERRIES (Cont.)

RESTRICTIONS: Do not apply within 7 days of harvest. Do not apply more than a total of 12.5 lbs. of this product (10 paks) per acre per crop per year. BEE CAUTION: Do not apply this product to target crops or weeds in bloom. If weed or cover crop bloom is present, mow orchard floor or between rows prior to applying this product. Do not apply to target crop 4 days prior to bloom.

Note: 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. In Grapes, do not concentrate spray on the bunch or visible residues may result.

SUNFLOWERS

Up to 2 applications may be made per year, but not more often than once every 7 days.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Sunflowers	Stem weevils, Sunflower beetles	1.25 to 1.8
(Except CA)		(1 to 0.67)
	Armyworms, Cutworms, Fall	1.8
	armyworms, Sunflower moths	(0.67)
	SPECIFIC DIRECTIONS: For Cutworm	, this product is most
	effective against species which feed or	the upper portions of
	the plant.	
DECEDICATIONS. Do not combined the 20 does of encoding on homes of for forces		

RESTRICTIONS: 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 3.75 lbs. of this product (3 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.

TOBACCO

(REI = 48 hours)

Plant Bed and Field Treatments — Repeat treatments as necessary up to a total of 4 times per crop per year, but not more often than once every 7 days.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Tobacco	Budworms, Fall armyworms, Hornworms, Japanese beetles, June beetles, Suckflies, Tobacco flea beetles	1.25 to 2.5 (1 to 0.5)
	SPECIFIC DIRECTIONS: Use lower rate on young plants (up knee height). Use at least 10 gallons of prepared spray per at Begin treatments when worms are small.	

RESTRICTIONS: Do not apply within 2 days of harvest. Do not apply more than a total of 10 lbs. of this product (8 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.

TREE FRUIT CROPS

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

Citrus

(REI: All States except CA = 12 hours; CA = 3 days for application rates greater than or equal to 6.25 lbs. of this product (5 paks) per acre.)

Repeat applications as necessary up to a total of 8 times per year, but not more often than once every 14 days.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
All members of the	Avocado leafrollers, California	2.5 to 3.75
Citrus Fruits Crop	orangedogs, Citrus cutworms,	(0.5 to 0.3)
Group 10 including:	Fruittree leafrollers, Orange tortrix,	
Calamondin,	Western tussock moths	
Citrus citron, Citrus	Citrus rust mites, Eriophyid	3.75 to 6.25
hybrids (Citrus spp.,	mites, Plant bugs, Scale insects	(0.3 to 0.2)
includes chironja,	(Black scales, Brown soft scales,	
tangelo, and tangor),	California red scales [except in CA],	
Grapefruit, Kumquat,	Citrus snow scales, Yellow scales	
Lemon, Lime,	[except in CA])	
Mandarin	SPECIFIC DIRECTIONS: For Scale	e, apply when crawlers
(targerine), Orange	are present. For best results on Erio	ophyid mites, including
(sweet and sour),	Citrus rust mites, apply when pest po	opulations are low.
Pummelo, Satsuma	Apopka weevils (adult), Citrus	6.25
mandarin, White	root weevils (adults), Fuller rose	(0.2)
sapote (Casimiroa	beetles, Little leaf notchers (adult)	
spp.), and other	CA Only: California red scales,	6.25 to 15
cultivars and / or	Yellow scales	(0.2 to 0.08)
hybrids of these.	SPECIFIC DIRECTIONS: Do not	make more than 1
	application per crop per year in Cali	fornia for California red
	scale. Apply when crawlers are pres	
DECEDIATIONS D	and the contract of the fact that the contract of the contract	0 115 1 1 1

RESTRICTIONS: Do not apply within 5 days of harvest. In California, do not apply more than 15 lbs. of this product (12 paks) per acre per application. For all other States, do not apply more than 6.25 lbs. of this product (5 paks) per acre per application. Do not apply more than a total of 25 lbs.of this product (20 paks) per acre per crop per year in all States including California. BEE CAUTION: Do not apply this product to target crops or weeds 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

(REI = 72 hours)

Up to 2 applications can be made per crop per year, but not more often than once every 14 days.

Crop	Pest	Lbs. of This
		Product Per Acre
		(Acres Treated per
		Water-Soluble Pak)
Olives	Scale insects (Black scales, Olive	6.25 to 9.3
	scales)	(0.2 to 0.13)

RESTRICTIONS: Do not apply within 14 days of harvest. Do not apply more than a total of 18.75 lbs. of this product (15 paks) per acre per crop per year. BEE CAUTION: Do not apply this product to target crops or weeds in bloom. If weed or cover crop bloom is present, mow orchard floor or between rows prior to applying this product. Do not apply to target crop 4 days prior to bloom.

Pome Fruits

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.

Pest	Product Per Acre (Acres Treated per Water-Soluble Pak)
White apple leafhoppers	0.6 to 1.8 (2 to 0.67)
Apple aphids, Codling moths	1.25 to 3.75 (1 to 0.3)
Apple aphids, Apple maggots, Apple mealybugs, Apple rust mites, Bagworms, California pearslugs (Pear sawflies), European apple sawflies, Eyespotted bud moths, Fruittree leafrollers, Gypsy moths, Japanese beetles, Lesser appleworms, Lygus bugs, Orange tortrix, Pearleaf blister mites, Pear psyllas, Pear rust mites, Periodical cicadas, Plum curculios, Redbanded leafrollers, Rosy apple aphids, Scale insects (Forbes scales, Lecanium scales, San Jose scales), Tarnished plant bugs, Tentiform leafminers, Woolly apple aphids, Yellowheaded fireworms SPECIFIC DIRECTIONS: On Apples,	
thinning is desired. Use for pesticidal act also may result in fruit removal. For Ps hatch or young nymphs are present. F	tivity during this period ylla, apply when eggs
<u> </u>	1.25 to 3.75 (1 to 0.3)
0.3 to 0.6 lb. per 100 gals. of spray mixt varieties, apply 0.6 to 1.25 lbs. per 100 Apply between 10 and 25 days after fu as tree age, variety, nutrition, previous crudegree of set favor excessive fruit thin Exercise caution to avoid possible yield vary depending on variety and local orchaperatory. The use of this product deformity under certain environmental con any variety of Apples, the user must benefits when using this product, pabetween 80% petal fall and 6 mm fru are more sensitive to this phenomen the varieties Bisbee, Red Chief and susceptible to conditions causing fruit of and temperatures below 65°F increases deformity. The use with Summer spray of may increase the risk of fruit deformity a fruit thinning experts in your area for adviction on specific apple varieties under locor other questions. Observe all restriction	ure. For difficult-to-thin gals. of spray mixture. Il bloom. Factors such op, pruning, bloom and ning with this product. reduction. Rates may ard conditions. Just may result in fruit onditions. Before using weigh the risk versus inticularly when using it size. Red Delicious on and in particular, Vallee Spur are very deformity. Precipitation is the possibility of fruit oils and wetting agents and injury. Consult with the on using this product all growing conditions on the use of this
	White apple leafhoppers Apple aphids, Codling moths Apple aphids, Apple maggots, Apple mealybugs, Apple rust mites, Bagworms, California pearslugs (Pear sawflies), European apple sawflies, Eyespotted bud moths, Fruittree leafrollers, Gypsy moths, Japanese beetles, Lesser appleworms, Lygus bugs, Orange tortrix, Pearleaf blister mites, Pear psyllas, Pear rust mites, Periodical cicadas, Plum curculios, Redbanded leafrollers, Rosy apple aphids, Scale insects (Forbes scales), Tarnished plant bugs, Tentiform leafminers, Woolly apple aphids, Yellowheaded fireworms SPECIFIC DIRECTIONS: On Apples, period from full bloom until 30 days after thinning is desired. Use for pesticidal ac also may result in fruit removal. For Ps hatch or young nymphs are present. F Crawlers are present. — SPECIFIC DIRECTIONS: For easily th 0.3 to 0.6 lb. per 100 gals. of spray mixt varieties, apply 0.6 to 1.25 lbs. per 100 Apply between 10 and 25 days after fu as tree age, variety, nutrition, previous cr degree of set favor excessive fruit thin Exercise caution to avoid possible yield vary depending on variety and local orcha PRECAUTIONS: The use of this prod deformity under certain environmental co on any variety of Apples, the user must benefits when using this product, pa between 80% petal fall and 6 mm fru are more sensitive to this phenomen the varieties Bisbee, Red Chief and susceptible to conditions causing fruit of and temperatures below 65°F increases deformity. The use with Summer spray of may increase the risk of fruit deformity a fruit thinning experts in your area for advic on specific apple varieties under loc or other questions. Observe all restriction or other questions. Observe all restriction

RESTRICTIONS: Do not apply to Quince. Do not use on Pears between the tight flower cluster up to the 20 mm fruit size. Use during this period may result in undesirable fruit thinning and / or deformed fruit. Do not apply within 3 days of harvest. Do not apply more than a total of 18.75 lbs. of this product (15 paks) per acre per crop per year. Do not make more than a total of 8 applications per crop per year. BEE CAUTION: Do not apply this product to target crops or weeds in bloom. If weed or cover crop bloom is present, mow orchard floor or between rows prior to applying this product. 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.

SPRAY 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

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.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
All members of the Stone Fruit Crop Group 12 including: Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh) (Continued)	Apple pandemis, Black cherry aphids, Cherry fruitworms, Cherry maggots (Cherry fruit flies), Codling moths, Cucumber beetles, Eastern tent caterpillars, Eyespotted bud moths, European earwigs, Fruittree leafrollers, Green fruitworms, Gypsy moths, Japanese beetles, June beetles, Lesser peachtree borers, Mealy plum aphids, Orange tortrix, Oriental fruit moths, Peach twig borers, Periodical cicadas, Plum curculios, Prune leafhoppers, Redbanded leafrollers, Rose chafers, Scale insects (Brown soft scales, Forbes scales, Lecanium scales, Olive scales, Oystershell scales, San Jose scales), Tarnished plant bugs, Tussock moths, Variegated leafrollers SPECIFIC DIRECTIONS: For best results crawlers are present. For Lesser peachtre have been found by thoroughly spraying	e borers, best results
	at weekly intervals during moth flight. Peach twig borers, Scale insects (Brown soft scales, Forbes scales, Lecanium scales, Olive scales, Oystershell scales, San Jose scales) SPECIFIC DIRECTIONS: Apply in crecommended dormant oil at the dorman timing. Refer to the dormant oil product la directions and restrictions.	
All members of the Stone Fruit Crop Group 12 including: Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh and dried)	CA ONLY: Black cherry aphids, Cherry fruitworms, Cherry maggots (Cherry fruit flies), Codling moths, Cucumber beetles, Eyespotted bud moths, European earwigs, Fruittree leafrollers, Green fruitworms, Mealy plum aphids, Orange tortrix, Oriental fruit moths, Peach twig borers, Scale insects (Brown soft scales, Forbes scales, Lecanium scales, Olive scales, Oystershell scales, San Jose scales), Tarnished plant bugs, Tussock moths SPECIFIC DIRECTIONS: Repeat applicat to a total of 3 times per crop per year bu once every 14 days. An additional applic	t no more often than at the dormant
(Cont.)	or delayed dormant timing may be made Scale, apply when crawlers are present.	e. For best results on

RESTRICTIONS: Do not apply more than a total of 11.25 lbs. of this product (9 paks) per acre per crop per year during the production season. Do not apply more than a total of 6.25 lbs. of this product (5 paks) per acre at the dormant or delayed dormant timing. Do not apply more than a total of 17.5 lbs. of this product (14 paks) per acre per crop per year.

All States except CA: Do not apply more than 3.75 lbs. of this product (3 paks) per acre per application during the production season. Do not apply within 3 days of harvest

CA Only: Do not apply more than 5 lbs. of this product (4 paks) per acre per application during the production season. Do not apply within 1 day of harvest. 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

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) at minimum 7-day intervals.

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, density and other factors.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Pistachios	Brown soft scales, Lecanium scales, Navel orangeworms	3.75 to 6.25 (0.3 to 0.2)
	SPECIFIC DIRECTIONS: For Scale are present.	, apply when crawlers
	Scale insects	5 to 6.25 (0.25 to 0.2)
	SPECIFIC DIRECTIONS: For dorma	ant or delayed dorman
	timing, apply in combination with a re to the dormant oil product label for a and restrictions.	
6.25 lbs. of this prod a total of 18.75 lbs. o any application at the apply this product to	o not apply within 14 days of harvest. I uct (5 paks) per acre per application. I of this product (15 paks) per acre per of e dormant or delayed dormant timing. I target crops or weeds in bloom. If weed d floor or between rows prior to applyi	Do not apply more than crop per year, including BEE CAUTION: Do no d or cover crop bloom i
apply to target crop 4 All members of the	days prior to bloom. Black margined aphids, Calico	2.5 to 6.25
Tree Nuts Crop Group 14 including: Almond, Beech nut,	scales, Codling moths, European fruit lecaniums, Fall webworms, Filbert aphids, Filbert leafrollers,	(0.5 to 0.2)
Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory	Filbertworms, Frosted scales, Fruittree leafrollers, Hickory shuckworms, Lesser webworms, Navel orangeworms, Peach twig	
nut, Macadamia nut (bush nut), Pecan, Walnut [including	borers, Pecan leaf phylloxeras, Pecan stem phylloxeras, Pecan nut casebearers, Pecan spittlebugs,	
black and English (Persian) walnuts].	Pecan weevils, San Jose scales, Twig girdlers, Walnut caterpillars SPECIFIC DIRECTIONS: Use lo	wer rates for pest
	attacking leaves. Use higher rates f and for higher infestations. For Scal- are present. For Peach twig borers, applications have been found by i	e, apply when crawler best results with folia making applications i
	popcorn or petal fall stages when th hatch. For Navel orangeworms in a best results have been found by timin applications to correspond with m	Almonds and Walnuts g early and mid-seaso
	Filbert leafrollers, best results have applications when eggs are hatching in first appearance of moths and ag For Codling moths in Walnuts, be	g, repeating applicatio ain 3 to 4 weeks late
	found by making applications when a diameters of developing nuts are 0.5 during middle or late June as needed Chestnut weevils, European	to 0.75 inch and agai
	earwigs SPECIFIC DIRECTIONS: For Chestr	(0.25 to 0.2) nut weevils, best result
	have been found with 4 application beginning in late July. The last made prior to shuck split. For Europe coverage of trunks, branches and negulits.	application should be bean earwigs, thoroug
Almonds	Peach twig borers, Scale insects	5 to 6.25 (0.25 to 0.2)
	SPECIFIC DIRECTIONS: For dormatiming, apply in combination with a roll. Pefor to the dormant oil product	ant or delayed dormar ecommended dormar

RESTRICTIONS: Do not apply within 14 days of harvest. Do not apply more than a total of 18.75 lbs. of this product (15 paks) per acre per crop per year. BEE CAUTION: Do not apply this product to target crops or weeds in bloom. If weed or cover crop bloom is present, mow orchard floor or between rows prior to applying this product. Do not apply to target crop 4 days prior to bloom.

directions and restrictions.

oil. Refer to the dormant oil product label for additional use

FORESTED AREAS AND RANGELAND TREES

Repeat applications as needed up to a total of 2 times per year at minimum 7-day (for foliar) and 6-month (for direct trunk treatment) intervals.

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

ary depending	on the tree size, density and stag	
		Lbs. of This Product Per Acre
Crop	Pest	(Acres Treated per
		Water-Soluble Pak)
Non-urban	Ants*, Apple aphids, Armyworms,	1.25
forests, Tree	Ash whiteflies, Azalea leafminers,	(1)
olantations,	Bagworms, Balsam twig aphids, Birch	(1)
Planted	leafminers, Blister beetles, Boxelder	
Christmas trees,	bugs, Boxwood leafminers, Browntail	
Parks, Rural	moths, Cankerworms, Catalpa	
shelter belts.	sphinx, Chiggers**, Cooley spruce	
Rangeland trees	gall adelgids, Cutworms, Cypress tip	
(Continued)	moths, Douglas-fir tussock moths,	
` ´	Eastern spruce gall adelgids, Elm	
	leaf aphids, Elm leaf beetles, Elm	
	spanworms, Eriophyid mites, European	
	pine shoot moths, Fall armyworms,	
	Flea beetles, Fuchia gall mites,	
	Fuller rose beetles, Gall midges, Gall	
	wasps, Greenstriped mapleworms,	
	Grasshoppers, Hackberry nipplegall	
	makers, Holly bud moths, Holly	
	leafminers, Jackpine budworms,	
	Japanese beetles, Jeffrey pine	
	needleminers, June beetles, Lace	
	bugs, Leafhoppers, Leafrollers, Locust	
	borers, Maple leafcutters, Mealybugs,	
	Mimosa webworms, Nantucket pine	
	tip moths, Oak leafminers, Oak	
	moths, Oak skeletonizers, Oakworm	
	complex, Oleander caterpillars, Olive	
	ash borers, Orangestriped oakworms,	
	Periodical cicadas, Pine loopers,	
	Pine sawflies, Pine spittlebugs,	
	Pitch pine tip moths, Plant bugs,	
	Poinsettia hornworms, Psyllids, Puss	
	caterpillars, Redhumped oakworms,	
	Rose aphids, Rose chafers, Rose	
	slugs, Saddled prominents, Sawflies	
	(exposed), Scale insects (crawlers), Sowbugs, Spiney elm caterpillars,	
	Springtails, Spruce budworms, Spruce	
	needleminers, Subtropical pine tip	
	moths, Tent caterpillars, Thornbugs,	
	Thrips (exposed), Walnut caterpillars,	
	Webworms, Western hemlock loopers,	
	Western spruce budworms, Willow leaf	
	beetles, Woolly gall aphids, Yellow-	
	poplar weevils	
	SPECIFIC DIRECTIONS: Obtain thorou	igh coverage of libber
	and lower leaf surfaces. The addition of	
	product performance. To kill Scale inser	, ,
	and twigs in addition to plant foliage	
	Worm, treat when pests are small. App	
	leafcutters on Sugar maple should be m	
	2nd instar after mining and as cases are	
	Gypsy moths	0.9 to 1.25
	- 21 - 2	(1.4 to 1)
	SPECIFIC DIRECTIONS: Use the h	
	infestations of Gypsy moths. Obtain thoro	ough coverage of upper
	infestations of Gypsy moths. Obtain thorough and lower leaf surfaces. The addition of	
	and lower leaf surfaces. The addition of	
	and lower leaf surfaces. The addition of product performance.	a sticker may improve
	and lower leaf surfaces. The addition of	a sticker may improve
	and lower leaf surfaces. The addition of product performance. Ticks	a sticker may improve 1.25 (1)
	and lower leaf surfaces. The addition of product performance.	a sticker may improve 1.25 (1) icks present at time o

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FORESTED AREAS AND RANGELAND TREES (Cont.)

		()
		Lbs. of This
Crop	Pest	Product Per Acre
0.00		(Acres Treated per
		Water-Soluble Pak)
Non-urban	Elm bark beetles, lps engraver beetles,	3 ozs. per gal.
forests, Tree	Mountain pine beetles, Roundheaded	(1 pak per 6.7 gals.)
plantations,	pine beetles, Spruce beetles, Western	
Planted	pine beetles	
Christmas trees,	SPECIFIC DIRECTIONS: Direct Trunk	Treatment - Effective
Parks, Rural	as a preventative treatment only. Apply	1 gal. of spray per 50
shelter belts,	sq. ft. of bark prior to Beetle flight or hos	t-tree attack. Treat tree
Rangeland trees	trunk from ground level up, until trunk of	diameter is less than 5
(Cont.)	inches. For Elm bark beetles, apply a	pproximately 20 to 30
	gals. of spray mixture for each 50 ft. of	Elm tree for thorough
	coverage of all bark surfaces on trunks,	limbs, and twigs.
DECEDIATIONS	OL "DI ANT DECDONCE DDECAL	ITIONIC" D

RESTRICTIONS: Observe "PLANT RESPONSE PRECAUTIONS". Do not use on syrup-producing Sugar maples where sap is harvested. Do not make more than 2 foliar applications and 2 direct trunk treatments per year. 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.

- * Except carpenter, harvester and Pharaoh.
- ** Will kill only pests that are present at the time of application and directly contacted by this product.

ORNAMENTAL TREES AND PLANTS

(REI: 12 hours; EXCEPTION: The REI is 18 days for Ornamentals grown for cuttings (cut flowers or cut foliage) where production is in outdoor areas and where average 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).)

Repeat applications as necessary up to a total of 6 times per year for foliar application and 2 times per year for direct trunk treatment at 7 day and 6 month intervals, respectively.

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

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Ornamental Trees and Plants: Roses, Flowers, Other Herbaceous plants, Woody plants, Evergreens, Shrubs (Continued)	Ants*, Apple aphids, Armyworms, Ash whiteflies, Azalea leafminers, Bagworms, Balsam twig aphids, Birch leafminers, Blister beetles, Boxelder bugs, Boxwood leafminers, Browntail moths, Cankerworms, Catalpa sphinx, Chiggers**, Cooley spruce gall adelgids, Cutworms, Cypress tip moths, Douglas-fir tussock moths, Eastern spruce gall adelgids, Elm leaf aphids, Elm leaf beetles, Elm spanworms, Eriophyid mites, European pine shoot moths, Fall armyworms, Flea beetles, Fuchia gall mites, Fuller rose beetles, Gall midges, Gall wasps, Greenstriped mapleworms, Grasshoppers, Hackberry nipplegall makers, Holly bud moths, Holly leafminers, June beetles, Lace bugs, Leafhoppers, Leafrollers, Locust borers, Maple leafcutters, Mealybugs, Mimosa webworms, Nantucket pine tip moths, Oak skeletonizers, Oak moths, Oak skeletonizers, Oakworm complex, Oleander caterpillars, Olive ash borers, Orange-striped oakworms, Periodical cicadas, Pine loopers, Pine sawflies, Pine spittlebugs, Pitch pine tip moths,	1.25 (1)
		(Continuea)

ORNAMENTAL TREES AND PLANTS (Cont.)

ORNAMENI	AL TREES AND PLANTS	
		Lbs. of This
Crop	Pest	Product Per Acre
		(Acres Treated per
		Water-Soluble Pak)
Ornamental	Plant bugs, Poinsettia hornworms,	1.25
Trees and Plants:	Psyllids, Puss caterpillars,	(1)
Roses, Flowers,	Redhumped oakworms, Rose aphids,	
Other Herbaceous	Rose chafers, Rose slugs, Saddled	
plants, Woody	prominents, Sawflies (exposed),	
plants,	Scale insects (crawlers), Sowbugs,	
Evergreens,	Spiney elm caterpillars, Springtails,	
Shrubs	Spruce budworms, Spruce	
(Cont.)	needleminers, Subtropical pine tip	
ļ , , ,	moths, Tent caterpillars, Thornbugs,	
	Thrips (exposed), Walnut caterpillars,	
	Webworms, Western hemlock	
	loopers, Western spruce budworms,	
	Willow leaf beetles, Woolly gall	
	aphids, Yellow-poplar weevils	
	SPECIFIC DIRECTIONS: Obtain thoro	nuah coverage of upper
	and lower leaf surfaces. The addition of	
	product performance. To kill Scale inse	
	and twigs in addition to plant foliage	
	Worm, treat when pests are small. App	
	leafcutters on Sugar maple should be	
	in 2nd instar after mining and as cases	
	Gypsy moths	0.9 to 1.25
	Cypsy mouns	(1.4 to 1)
	SPECIFIC DIRECTIONS: For Gypsy	
	rate for heavy infestations. Obtain thore	
	and lower leaf surfaces. The addition of	
	product performance.	i a siickei illay illipiove
	Ticks**	1.25
	TICKS	(1)
	Flor hards handles Inc. angus an	
	Elm bark beetles, lps engraver	3 ozs. per gal.
	beetles, Mountain pine beetles,	(1 pak per 6.7 gals.)
	Roundheaded pine beetles, Spruce	
	beetles, Western pine beetles	
	SPECIFIC DIRECTIONS: Direct Truni	
	as a preventative treatment only. Apply	
	sq. ft. 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 to 30	
	gals. of spray mixture for each 50 ft. of Elm tree for thorough	
	coverage of all bark surfaces on trunks	
RESTRICTIONS: 0	bserve "PLANT RESPONSE PRECAU	TIONS". Do not use on

RESTRICTIONS: Observe "PLANT RESPONSE PRECAUTIONS". Do not use on syrup-producing Sugar maples where sap is harvested. Do not make more than a total of 6 foliar and 2 direct trunk treatments per year. 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.

- * Except carpenter, harvester and Pharaoh.
- ** Will kill only pests that are present at the time of application and directly contacted by this product.

TURFGRASS

(REI: Turfgrass grown for Sod production [Sod farms] = 24 hours) Do not apply more than a total of 20 lbs. of this product (16 paks) per acre per year. Do not apply by air or chemigation.

Broadcast applications to Turfgrass are permitted only on golf courses, cemeteries, and commercial landscapes. Applications to all other lawns or turf (residential settings) are limited to spot treatments. Apply the specified rates using ground pressure-type equipment in sufficient spray volume for thorough coverage and thatch penetration.

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
Golf turf, Sports fields,	Ants*, Armyworms, Centipedes,	2.5 to 5
Sod farms, Domestic	Chiggers, Cutworms, Earwigs,	(0.5 to 0.25)
and Commercial	Essex skippers, European	
lawns, Cemeteries,	chafers, Fall armyworms,	
Parks, Campsites,	Fiery skippers, Grasshoppers,	
Recreational areas	Green June beetle larvae,	
(Continued)	Leafhoppers, Lucerne moths,	
		(Continued)

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TURFGRASS (Cont.)

TORTORASS (C		Lbs. of This
Crop	Pest	Product Per Acre
		(Acres Treated per
		Water-Soluble Pak)
Golf turf, Sports fields,	Millipedes, Mosquitoes	2.5 to 5
Sod farms, Domestic	(adults)**, Scarab beetle adults	(0.5 to 0.25)
and Commercial	(May beetles, June beetles,	
lawns, Cemeteries,	Japanese beetles, Green June	
Parks, Campsites,	beetles), Sowbugs, Spittlebugs,	
Recreational areas	Springtails, Yellowstriped	
(Cont.)	armyworms	
	SPECIFIC DIRECTIONS: For Armyworm, Cutworm and	
	Fall armyworm: Do not irrigate treated areas within 24	
	hours following insecticide application. For Green June	
	beetle grub (larvae), apply when Grubs are feeding near	
	the soil surface. Water or irrigate Turfgrass soon after	
	treatment.	
	Ticks**	1.25
		(1)
	Centipedes**, Chiggers**,	5
	Earwigs**	(0.25)

RESTRICTION: Repeat applications as necessary up to a total of 4 times per year but not more often than once every 7 days. 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.

- * Except carpenter, harvester and Pharaoh.
- ** Will kill only pests that are present at the time of application and directly contacted by this product

product.	e present at the time of application and	a directly contacted by this
Golf turf, Sports fields,	Chinch bugs, Sod webworms	7.5 to 10
Sod farms, Domestic	(Lawn moths)	(1/6 to 1/8)
and Commercial lawns, Cemeteries, Parks, Campsites, Recreational areas	SPECIFIC DIRECTIONS: 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 hours following insecticide application.	
	Bluegrass billbug larvae, European crane flies, White grubs (such as Japanese beetles, Chafer beetles and Phyllophaga spp. larvae), Black turfgrass ataenius beetle larvae, Hyperodes weevils (Bluegrass weevil) larvae, Springtails SPECIFIC DIRECTIONS: For Treatments should be applied 1 to April 15) or at timing as r	in early Spring (April ecommended by local
	Agricultural Extension Service Agents. For White grub: Apply when Grubs are feeding near the soil surface, usually during late March through May or July through early September or at timing as recommended by local Agricultural Extension Service Agent. Water or irrigate turfgrass within 48 hours after treatment. Fleas* 10 (1/8)	

RESTRICTIONS: Repeat applications as necessary up to 2 times per year but not more than once every 7 days. 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.

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

SPECIFIC PESTS ACROSS MULTIPLE SITES

Grasshoppers

Crop / Site	Pest	Lbs. of This
		Product Per Acre
Grop / Site	1 031	(Acres Treated per
		Water-Soluble Pak)
All crops on this label	Grasshoppers	0.6 to 1.8
		(2 to 0.67)
	SPECIFIC DIRECTIONS: Apply	0.6 to 0.9 lb. of this
	product per acre for nymphs on	
	vegetation. Apply 1.25 to 1.8 lbs.	of this product per acre
	for mature grasshoppers or applic	
	Be certain spray volumes are	appropriate to assure
	adequate coverage.	
DESTRICTIONS: Defer to individual site listing alsowhere on this label for use		

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

Ticks Which May Vector Lyme Disease

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

Crop	Pest	Lbs. of This Product Per Acre (Acres Treated per Water-Soluble Pak)
All crops / sites on	Ixodes spp. (Deer ticks, Bear	1.25
this label including:	ticks, Black legged ticks),	(1)
Pastures, Forested	Amblyomma spp. (Lone star ticks)	
areas, Wasteland,	SPECIFIC DIRECTIONS: To kill juvenile Ticks, apply in	
Rights-of-Way,	late Spring or early Summer. Kill of Adult Ticks can be	
Hedgerows,	obtained with late Summer of Fall applications. Treat	
Ditchbanks,	entire area and perimeter areas w	here exposure to Ticks
Roadsides, Set-Aside	may occur. Ticks may be reintroduced from surrounding	
and Conservation	areas on host animals. Retreat as necessary to maintain	
Reserve Program	low population levels.	
acreage, Ornamental		
Trees and Plants,		
Turfgrass*		

RESTRICTIONS: Refer to individual site listings elsewhere on this label for use limitations and restrictions. Do not use rates higher than listed for the site or exceed other use restrictions. If product is used to kill Ticks on any use site listed on this label, the use rate must not exceed 1.25 lbs. of this product per acre (1 pak / A). Observe all use restrictions. Do not enter or allow others to enter treated areas until sprays have dried. Do not make more than 4 applications per year for Ticks.

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

Imported Fire Ants

Crop / Site	Pest	This Product Per Volume of Water
All crops / sites on	Imported fire ants	1 pak per 67.6 gals.
this label	SPECIFIC DIRECTIONS: Drench Application – To kill active	
	mounds, apply a total of 2 gals. of the	ne diluted solution over
	the surface of each mound or at lea	st 1 quart per 6 inches
	of mound diameter using a bucket, c	an 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 3 ft. to give sufficient force to break mound apex and flow into ant tunnels. For best results, apply in cool weather (65 to 80°F) or in early morning or late evening hours. Repeat application if mound activity resumes after 30 days. Treat new mounds	
	as they appear. Pressurized sprays m	,
	cause migration, reducing product effectiveness.	
	Imported fire ants (foraging)	1 pak per 67.6 gals.
	SPECIFIC DIRECTIONS: Broadcast	
	Use Only)*: Avoid contact with foliage and treat only th	
growing media when using on bedding plants. Do no more than one application per year.		ng plants. Do not make

RESTRICTIONS: Do not enter or allow others to enter treated areas until sprays have dried. For outdoor use only. Do not use in greenhouses.

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

* Broadcast applications to Turfgrass are permitted only on golf courses, 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. Up to 4 applications can be made per year at minimum 7-day intervals.

	, ,
Pest	Rate of
	This Product
Ants*, Bees*, Brown dog ticks*,	1% solution
Centipedes*, Cockroaches*, Crickets,	(1 pak per 13.3 gals.)
Darkling beetles (Lesser mealworms	
or Litter beetles), Earwigs, Firebrats,	
Fleas*, Millipedes, Scorpions*,	
Silverfish*, Spiders*, Wasps*	

SPECIFIC DIRECTIONS: Observe "PLANT RESPONSE PRECAUTIONS". Apply as a coarse, wet spray in a band 6 to 10 ft. 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 structure 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: Do not make more than 4 applications per year. 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 (e.g., 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 pest present at time of applicationand directly contacted by product.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Store in original container only, in cool, dry area, out of reach of children and animals. Do not store in areas where temperature exceed 100°F. If container is damaged, put on Personal Protective Equipment before cleaning up.

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

CONTAINER DISPOSAL:

Nonrefillable Container: Nonrefillable container. Do not reuse or refill this container. Once outer bag of water-soluble packet is empty, offer for recycling, if available, or dispose of in the trash as long as water-soluble packet is unbroken, 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.

WARRANTY—CONDITIONS OF SALE

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and / or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

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