



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

J. Allen Dunlap III
Platte Chemical Company
P.O. Box 667
Greeley, CO 80632-0667

AUG 23 1999

Subject: Sniper 2-E Azinphos Methyl Insecticide
EPA Registration No. 34704-691
Amendment dated August 12, 1999
Label changes as per MOA dated August 2, 1999

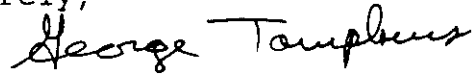
Dear Mr. Dunlap:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable, provided that you make the labeling changes indicated below before you release the product for shipment bearing the amended labeling:

1. On page 3 under the Agricultural Use Requirements heading the statement under "All other crops" presently states that each 2 day REI is increased to 4 days in outdoor areas where the average rainfall is less than 25 inches a year. This should be changed to 3 days as per the instructions in the MOA.
2. On page 2 under "Work Safety Statements" in the 7th paragraph delete the last 3 words "or retail-greenhouses" since the uses in greenhouses is prohibited.
3. On page 4 under the crops blackberries, boysenberries, loganberries, raspberries in the subheading for raspberry crown (root) borer..etc the PHI must be changed from 3 days to 4 days since the PHI can not be less than the REI, which is 4 days.
4. On page 6 the PHI for both cucumbers and tomatoes must be changed from 2 days to 4 days.

The conditions stated in paragraph 7 of the MOA are accepted by the EPA as a condition of registration for this product. Submit two copies of your final printed labeling before you release the product for shipment. A copy of the labeling stamped "Accepted with Comments" is enclosed for your records.

Sincerely,



George Tompkins, Ph.D., Entomologist
Insecticide-Rodenticide Branch
Registration Division (7505C)

RESTRICTED USE PESTICIDE

Due to Acute Toxicity
For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

SNIPER® 2-E AZINPHOS METHYL INSECTICIDE

AGLEST...
with COMMENTS...
In EPA Letter Date...
AUG 23 1999
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pest... registered under EPA Reg. 34704-691

Organophosphate Insecticide

For control of certain insect pests on field crops, fruit, vegetable crops, nuts and certain ornamental plantings.

This product must be sold/distributed and used in a closed dry-coupling mixing/loading system.

ACTIVE INGREDIENT:

O,O-Dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] phosphorodithioate	22%
INERT INGREDIENTS:	78%
TOTAL	100%

THIS PRODUCT CONTAINS 2.0 LBS. AZINPHOS METHYL PER GALLON.

STOP! READ THE LABEL BEFORE USE

KEEP OUT OF REACH OF CHILDREN

**DANGER
PELIGRO**



POISON

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

See Below For Additional Precautionary Statements.

EPA REG. NO. 34704-691

EPA EST. NO. 34704-MS-1

NET CONTENTS 5 GALS. (18.92 L)

IHT

EXP08R99

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER POISON

Fatal if swallowed, inhaled, or absorbed through the skin. Do not get in eyes or on skin. Do not breathe fumes or spray mist. Spray operator should work to windward to stay out of drift or mist.

Do not contaminate feed or foodstuffs. Keep out of reach of children and domestic animals.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category (G) on the EPA chemical resistance category selection chart.

Airblast applicators must be in fully enclosed cabs or if not in fully enclosed cabs, applicators must wear: chemical resistant suit over long-sleeved shirt and long pants, chemical resistant hood, full-face respirator or half-faced respirator with a face shield, and chemical resistant footwear plus socks. **Applicators (other than air-blast) and other handlers (other than mixers and loaders) must wear:** coveralls worn over long-sleeved shirt and long pants, chemical-resistant gloves, such as: barrier laminate or viton; chemical-resistant footwear plus socks, protective eyewear, chemical resistant headgear, and chemical-resistant apron when cleaning equipment. For exposure outdoors: Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C). For exposure in enclosed areas: A respirator with either an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Mixers and loaders must wear: coveralls worn over long-sleeved shirt and long pants, chemical-resistant gloves, such as: barrier laminate or viton; chemical-resistant footwear plus socks, protective eyewear and chemical-resistant apron when mixing or loading. For exposures in enclosed areas: A respirator with either an organic vapor-removing cartridge with a prefilter

approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G). For exposures outdoors: Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements:

Human flagging is prohibited. All aerial applications must be made with aircraft having an enclosed cockpit.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

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

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STATEMENT OF PRACTICAL TREATMENT

In case of poisoning, call a physician immediately. Have patient lie down and keep quiet.

If swallowed: Induce vomiting. Administer water freely and induce vomiting by giving one dose (½ oz. or 15 ml.) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Professional medical assistance should be secured immediately. Never give anything by mouth to an unconscious person.

If inhaled: Remove from contaminated area and have patient lie down and keep quiet.

If on skin: Remove contaminated clothing and wash skin immediately with warm soap and water.

If eyes are contaminated: Wash with flowing water for at least 15 minutes.

SYMPTOMS OF POISONING: A sense of "tightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

TO PHYSICIAN: Administer atropine sulfate by injection. Repeat as necessary to the point of tolerance. 2-PAM is also an antidote, and may be administered in conjunction with atropine. Compound inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious case of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically. **FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-228-5635, EXT. 136, OR CALL COLLECT, 612-851-8180, EXT. 136.**

ROTATIONAL CROPS

Do not plant root crops other than those with registered azinphos-methyl uses in azinphos-methyl treated soil sooner than 6 months after the last application. Do not plant any other crop other than those with registered azinphos-methyl uses in the treated soil sooner than 30 days after last application.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and wildlife. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes. Drift and runoff from treatment areas may be hazardous to aquatic organisms in neighboring areas. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your Cooperative Agricultural Extension Service.

PHYSICAL AND CHEMICAL HAZARDS

Keep away from open flames. Do not heat.

WORK SAFETY STATEMENTS

If handled indoors provide mechanical exhaust ventilation. Keep all unprotected persons, children, livestock, and pets away from treated areas or where there is danger of drift. Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See Statement of Practical Treatment on the label. Respirators must be cleaned and filters replaced according to instructions included with the respirators.

This product may be applied through irrigation systems chemigation for application to CRANBERRIES only. Apply this product only through solid set sprinkler irrigation system(s). Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

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

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2½ inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER. This sign is in addition to any sign posted to comply with the Worker Protection Standard.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note: Platte Chemical Co. does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

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

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

The pesticide injection pipeline must contain a functional, automatic, quick-closing

check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

SPRINKLER CHEMIGATION

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

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

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment. Mix in clean supply tank the recommended amount of this product for acreage to be covered, and needed quantity of water.

Provide constant mechanical agitation in supply tank to keep this product suspended throughout application operations.

Use sufficient gallonage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will vary depending on equipment, pest problem and stage of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or illegal pesticide residues.

Meter this product into the irrigation water uniformly during the period of operation. Do not overlap application. Follow recommended label rates, application timing, and other directions and precautions for crop being treated.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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.

This product may not be reformulated or used under a State Special Local Need Registration for use on sugarcane, ornamentals, Christmas trees, or forest trees.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) listed in the chart below.

CROP	ACTIVITY	REI
Tree Crops (except Citrus)	Propping	2 days
	Hand Thinning	14 days
	Hand Harvesting	14 days
	Mowing	2 days
	Irrigating	2 days
	Scouting	2 days
	Other activities	2 days
	involving similarly minimal contact with treated foliage.	
Citrus	Propping	2 days

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Agricultural Use Requirements Cont'd.:

CROP	ACTIVITY	REI
Citrus	Hand Thinning	30 days
	Hand Harvesting	30 days
	Mowing	2 days
	Irrigating	2 days
	Scouting	2 days
	Other activities	2 days
	involving similarly minimal contact with treated foliage.	
Grapes	Girdling	21 days
	Cane Throwing	21 days
	Leaf Pulling	21 days
	Cane Cutting	21 days
	Bunch Thinning	21 days
	Hand Harvesting	21 days
	Mowing	2 days
	Irrigating	2 days
	Scouting	2 days
	Other activities	2 days
	involving similarly minimal contact with treated foliage.	
All other crops	All activities	4 days
	Except for Mowing,	2 days
	Irrigating, Scouting and Other activities involving similarly minimal contact with treated foliage.	

Each 4 day REI is increased to 5 days and each 2 day REI is increased to 4 days in outdoor areas where the average rainfall is less than 25 inches a year. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls worn over long-sleeved shirt and long pants, chemical-resistant gloves, such as: barrier laminate or viton; chemical-resistant footwear plus socks, protective eyewear, and chemical-resistant headgear for overhead exposure. Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

STORAGE: Store in safe manner. Store in original container only. Store in cool, dry place. Keep container tightly closed when not in use. Do not store under conditions which might adversely affect the container or its ability to function properly. Such conditions include, but are not limited to, positioning of the container in storage, storage temperature, potential for crushing or damage due to stacking, and penetration of moisture. Personnel should use clothing and equipment listed under "PRECAUTIONARY STATEMENTS" when handling open containers. Do not store below temperature of (45°F).

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

IMPORTANT: Read these entire Directions and Conditions of Sale before using this emulsifiable insecticide.

MIXING: This emulsifiable insecticide forms an emulsion when diluted with water and is suitable for use in all power-operated ground sprayers and aircraft sprayers. To mix with water, pour the required amount of product into full amount of water and then agitate. This insecticide may also be applied undiluted as an ultra-low volume spray with either ground or aircraft equipment that has been adapted and calibrated for ultra-low volume spraying as described below under "Recommended Applications" for those crops specified.

DOSAGE: Use specified dosage of this insecticide in the amount of water necessary to give complete coverage of foliage. The type of equipment used will determine the concentration required.

SPRAYING: Application by handheld or backpack sprayers is prohibited. Work to windward. Protect sprayer operators from drift or mist. When low volumes of spray are applied, complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your State Agricultural Extension Service or Experiment Station for specific use information in your area.

USE OF THIS PRODUCT IN GREENHOUSES OR ENCLOSED AREAS IS PROHIBITED.

REQUIREMENTS FOR REDUCING SPRAY DRIFT 5 of 9

- Do not apply under conditions where possible drift to unprotected persons or to food, forage, or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption can occur.
- For aerial applications the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or rotor diameter.
- Use the largest droplet size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure.
- For aerial applications, spray should be released at the lowest height consistent with efficacy and flight safety. Applications more than 10 feet above the crop canopy should be avoided.
- Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.
- Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperature.
- Do not apply within 150 feet by air or 100 feet by ground of an unprotected person(s) or occupied dwelling.
- All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

To address integrated Pest Management issues: Local integrated management systems are available for controlling the pests on this label. Such systems include the use of biological control agents, alternative chemicals, and scouting. Consult your local Extension Specialist or other consultants for further details.

RECOMMENDED APPLICATIONS

CROP	INSECT	PINTS OF THIS PRODUCT	REMARKS
FIELD CROP	Boll weevil	½ to 1	Hand picking of cotton treated with this product is prohibited. Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. For control of bollworm and pink bollworm use 2 pints per acre. Do not make more than 4 applications for a total of 8 pints per acre per crop season regardless of rate, formulation or method of application used. Cotton may be harvested 7 days after the application of this product. Do not graze treated fields. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
Cotton (Conventional or Low Volume Spray)	Brown cotton leafworm,	1	
	Cotton fleahopper,		
	Cotton leafworm,		
	Lygus bugs,		
	Thrips		
Do not use this product on cotton in Louisiana and states east of the Mississippi River.	Rapid plant bug,	1 to 2	
	Tarnished plant bug		
	Stink bug	2	
Cotton (1) (Ultra Low Volume Spray)	Bollworm, Pink bollworm	2	
	Boll weevil	½ to 1	Hand picking of cotton treated with this product is prohibited. This product may be used undiluted in any ground or aerial spray equipment that has been adapted and calibrated for ultra-low volume spraying. Spray machines must be equipped with accepted low volume devices that will produce droplets within the range of 30 to 100 microns in size. ULV aerial applications should be made at altitudes of 10 to 20 feet. A total of 4 applications may be made per crop season regardless of rate, formulation or method of application used. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section. Cotton may be harvested 7 days after the application of this product.

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RECOMMENDED APPLICATIONS			
CROP	INSECT	PINTS OF THIS PRODUCT	REMARKS
Cotton (1) (Ultra Low Volume Spray) Do not use this product in Louisiana and states east of the Mississippi River. cont'd.			Do not graze livestock in treated areas. Early and Mid-season control: Apply specified dosage per acre in accordance with local recommendations. Diapause Weevil Control: The 1 pint per acre rate only is recommended for control of diapausing boll weevils. Schedule applications in accordance with local recommendations.
FRUIT Nectarines, Peaches	Aphids, Cottony peach scale, European, fruit lecanium scale, Forbess scale, Lesser peach tree borer, Mites, Peach tree borer, Platynota flavedana leaf roller, Plum curculio, Red-banded leaf roller, San Jose scale, Stink bug, Tarnished plant bug, Terrapin scale, Walnut scale, White peach scale	1 to 1½	Application by "fixed wing" aircraft to peaches and nectarines is prohibited. Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 800 gallons of finished spray per acre. Allow at least 14 days between applications. A total of 13½ pints per acre per crop season may be applied to nectarines and peaches. Allow 21 days between last application and harvest. This product is compatible with dormant and summer oils which may be added to peach sprays in accordance with local recommendations. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section. Apply the 1½ pint rate for oriental fruit moth or peach twig borer on nectarines and peaches only before mid-season. For control of peach tree borer, apply 2 to 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. For scale control, apply when crawlers are present. NOTE: It is suggested that when treating nectarines during bloom period, beekeepers should be warned well in advance to remove hives a safe distance from orchards to be treated. This product used alone may not provide satisfactory control. Consult your local agricultural advisor or extension service for recommendations.
	Oriental fruit moth, Peach twig borer	1 to 1½	
Nectarines	Thrips	1 to 1½	
Plums, Prunes	Aphids, Eye-spotted bud moth, Forbess scale, Fruit tree leaf roller, Lesser peach tree borer, Mites, Orange tortrix, Peach tree borer, Peach twig borer, Plum curculio, Red-banded leaf roller, San Jose scale, Stink bug, Tarnished plant bug, Tussock moth	1 to 2	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 800 gallons of finished spray per acre. A total of 13½ pints per acre per crop season may be applied to plums and prunes. Allow at least 10 days between applications. Allow at least 15 days between last application and harvest. For control of peach tree borer, apply 2 to 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. For control of scale, apply when crawlers are present. This product is compatible with dormant and summer oils which may be added to prune sprays in accordance with local recommendations. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section. NOTE: This product used alone may not provide satisfactory control. Consult your local agricultural advisor or extension service for recommendations.
	American plum borer	2	

RECOMMENDED APPLICATIONS			
CROP	INSECT	PINTS OF THIS PRODUCT	REMARKS
Black-berries, Boysen-berries, Logan-berries, Rasp-berries	Leaf-hoppers, Leaf rollers	1	Apply specified dosage per acre to foliage using approximately 200 gallons of water for good coverage. Where ground conditions dictate an air application of this insecticide, use specified rate in a minimum of 1 gallon of water per acre. Do not apply within 14 days of harvest. Do not apply more than twice per season. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
	Leaf miners	1½	
	Aphids	1½ to 2	
	Obscure root weevil	2	
	Raspberry crown (root) borer	4 to 8	For control of root weevils and borers prior to harvest apply specified dosage per acre to lower portions of canes and to the soil beneath the plants using approximately 200 gallons of water. Do not apply more than twice per season. Do not make applications within 3 days of harvest at rates up to 4 pints per acre. Rates above 4 pints per acre should be applied only before fruit set or after crop is harvest. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
	Obscure root weevil	2	
Blue-berries (Eastern & North Central States Only)	Blueberry maggot, Fruitworms, Lecanium Scale, Plum curculio	2 to 3	Apply specified dosage per acre with aerial or ground equipment using sufficient water for good coverage. A total of 3 applications may be made per crop season regardless of rate of formulation used. Allow at least 10 days between applications and at least 7 days between last application and harvest. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
Cranberries	Cranberry fruitworm, Sparganothis sulfureana, Tipworm	2 to 4	Apply specified dosage per acre by air using sufficient water for good coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. A total of 3 applications may be made per crop season regardless of rate of formulation used. Allow at least 14 days between applications and at least 21 days between last application and harvest. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
	Fireworms	4	
Citrus Fruits	Aphids, Black scale, Brown soft scale, Chaff scale, Citricola scale, Citrus mealybug, Citrus rust mite, Citrus thrips, Cottony-cushion scale, brown snail, Florida red scale, Fruit tree leaf rollers, Fuller rose beetle, Glover scale, Orange tortrix, Purple scale, Snow scale, Western tussock moth, Whiteflies	1 to 1½	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 2000 gallons of finished spray per acre. A single application per year may be applied up to within 30 days of harvest. Where 2 applications are required, allow at least 30 days between the second application and harvest. A total of two applications may be applied per fruit year regardless of rate of formulation used. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.

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RECOMMENDED APPLICATIONS			
CROP	INSECT	PINTS OF THIS PRODUCT	REMARKS
Citrus Fruits cont'd.	California red scale, Texas citrus mite, Yellow scale	1½	
Grapes	Grape berry moth, Grape bud beetle, Grape cane girdlers, Grape mealybug, Leafhoppers, Mites, Red-banded leaf roller, Thrips	1 to 2	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 300 gallons of finished spray per acre. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 14 days between applications. Repeat applications made at less than a 21 day interval are considered early entry activities. Appropriate applicator and early entry PPE must be worn. Allow 21 days between last application and harvest. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
Strawberries	Aphids, Meadow spittlebug, Oblique-banded leaf roller, Omnivorous leaf tier, Obscure root weevil, Pea leaf weevil, Small black (Grass) weevil, Strawberry leaf rollers, Whittely	2	Apply specified dosage in 200 gallons of water per acre as a full coverage spray*. Where ground conditions dictate an air application, use specified rate in a minimum of 1 gallon of water per acre. A total of 4 applications may be made per crop season regardless of rate or formulation used. Allow at least 5 days between last application and harvest. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
NUTS Almonds	Peach twig borer	1½ to 2	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 500 gallons of finished spray per acre. Do not apply more than twice per season nor within 60 days of harvest. Allow 30 days between applications. Do not apply after husks split. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
Filberts (Pacific Northwest Only)	Apple mealybug, Filbert aphids, Filbert leaf roller, Filbertworm	1 to 3	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 1000 gallons of finished spray per acre. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 14 days between applications and at least 45 days between last application and harvest. Do not graze livestock in treated groves for 21 days after treatment. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
Pecans	Aphids, Fall webworm, Hickory shuckworm, Leaf miners, May beetles, Mites, Pecan case-bearer, Southern green stink bug, Spittlebug, Twig	1½ to 2½	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 1800 gallons of finished spray per acre. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 7 days between applications. Repeat applications made at less than 21 day interval are considered early entry activities. Appropriate applicator and early entry PPE must be worn. Allow at least 45 days between last application and harvest.

RECOMMENDED APPLICATIONS			
CROP	INSECT	PINTS OF THIS PRODUCT	REMARKS
Pecans cont'd.	girdlers, Walnut caterpillar		Livestock may be grazed in treated groves after a 21 day post-treatment interval. Consult your local agricultural advisor or cooperative extension service for recommendations. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
Walnuts	Codling moth, Filbert-worm	1½ to 3¾	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 1100 gallons of finished spray per acre. A total of 3 applications may be made per crop season regardless of dosage or formulation used. Allow at least 14 days between applications. Allow at least 21 days between last application and harvest. Do not graze livestock in treated groves for 21 days after treatment. Restricted-entry interval is specific by and activity, see the Table in the Agricultural Use Requirements section.
VEGETABLES Broccoli, Brussels sprouts, Cabbage, (Includes tight heading varieties of Chinese cabbage), Cauliflower	Aphids, Cabbage looper, Diamond-back moth, Imported cabbage-worm	2 to 3	Apply specified dosage per acre in sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 7 days of harvest for Brussels sprouts, 15 days of harvest for broccoli and cauliflower, nor within 21 days of harvest for cabbage. Do not exceed more than 3 applications per season. Restricted-entry interval is specific by crop and activity see the Table in the Agricultural Use Requirements section.
	Cabbage maggot	½	Mix specified dosage in 50 gallons of water. Apply 4 to 6 ounces of this emulsion per plant immediately after transplanting. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
	Cabbage maggot (Transplant Fields in California only)	3	Apply specified dosage in 300 to 400 gallons of water per acre as a soil drench in the row when damage first appears. Additional applications may be necessary. Do not apply within 21 days of harvest. Do not exceed more than 3 applications per season. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
	Cabbage maggot (Direct Seeded Fields in California only)	3	Apply specified dosage per acre in sufficient water for uniform distribution. Mix in the upper 2 inches of soil prior to seeding or spray in the seed row at planting time. Usually 2 to 3 additional sprays are necessary during the growing season depending upon time of year and maggot population. Do not apply within 21 days of harvest. Do not exceed more than 3 applications per season. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
Celery	Aphids, Leaf miners, Leafhoppers, Spittlebugs, Tarnished plant bug	2	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 200 gallons of finished spray per acre. This concentration is calculated for conventional hydraulic-type sprayers. When lower volumes of spray are applied per acre with concentrate sprayers, increase the concentration of this product in the spray mixture in order to apply a amount of product per acre equivalent to a full coverage spray. Do not apply within 14 days of harvest. Do not exceed more than 3 applications per season. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.

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RECOMMENDED APPLICATIONS			
CROP	INSECT	PINTS OF THIS PRODUCT	REMARKS
Cucumbers	Spotted cucumber beetle, Striped cucumber beetle, Western-striped cucumber beetle	2	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications and at least 2 days between last application and harvest. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
	Eggplant	Leaf miners European corn borer, Flea beetles	
Onions (Green & Dry)	Thrips	2 to 3	Apply specified dosage per acre by air or ground equipment in sufficient water to give complete coverage but not less than 1 gallon per acre. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications for dry bulb onions. Allow at least 10 days between applications for green onions. For dry onions, allow at least 28 days between last application and harvest. For green onions, allow at least 14 days between last application and harvest. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
		Peppers	
Potatoes	Colorado potato beetle	1½	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications and 7 days between last application and harvest. NOTE: Resistance of Colorado potato beetle has occurred in some areas. Consult your local Extension Service or field consultant for details. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
	Banded cucumber beetle, Leaf miners	1½ to 2	
	European corn borer, Flea beetle, Leaf-hoppers, Spittlebugs, Tarnished plant bug, Tuberworm	2 to 3 2½ to 3	

RECOMMENDED APPLICATIONS			
CROP	INSECT	PINTS OF THIS PRODUCT	REMARKS
Spinach	Aphids, Leaf miners, Mites	1½ to 2	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 14 days of harvest. Do not exceed more than 3 applications per season. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
Tomatoes	Colorado potato beetle	1½	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. A total of 4 applications may be made per crop season regardless of rate, formulation or method of application used. The high rates should be used where heavy infestations of late instar lepidopterous larvae (large worms) and pinworms are present. Allow at least 7 days between applications. Rates of 3 pints per acre or less may be applied up to within 2 days of harvest. Rates above 3 pints require an interval of 14 days between last application and harvest. NOTE: Resistance of Colorado potato beetle has occurred in some areas. Consult your local Extension Service or field consultant for details. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
	Banded cucumber beetle, Drosophila, Green stink bug, Leaf miners, Whitefly	1½ to 2	
	Aphids, European corn borer, Flea beetles, Grass-hoppers, Leaf-hoppers, Thrips	2 to 3	
	Tuberworm Corn earworm, Fruit worm, Hornworm, Pinworm, Yellow-striped armyworm	¼ to 3 3 to 6	
MELONS Honeydew Melons, Muskmelons (Cantaloupe), Watermelons, Other melons	Leaf-hoppers, Leaf miners, Rindworms	1½ to 2	Apply specified dosage per acre by air or ground equipment in sufficient water to give complete coverage but not less than 1 gallon per acre. A total of 3 applications may be made per crop season regardless of rate formulation or method of application used. Allow at least 5 days between applications and at least 7 days between last application and harvest. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.
	Spotted cucumber beetle, Striped cucumber beetle, Western-striped cucumber beetle	2	
Southern Pine Seed Orchards	Coneworm, Seedworm	See Remarks	Aerial application is the only method permitted in applying this product to Southern Pine Seed Orchards. A maximum rate of 6 pints per acre per application is permitted with no more than 3 applications per year. A total annual maximum amount that can be applied is 18 pints per acre. Make the first application within 30 days of conelet closure. Thorough coverage of cones is necessary for maximum control. Apply dosage per acre in not less than one gallon of water per acre. Restricted-entry interval is specific by crop and activity, see the Table in the Agricultural Use Requirements section.

RESTRICTIONS

Do not use on other crops used for food or forage. Use only according to label directions. Application at rates above those shown may result in illegal crop residues. Do not graze livestock in treated orchards or groves for 21 days after treatment. Do not treat food crops grown in the greenhouse.

NOTICE

IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. CROP INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS,

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