



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Anne Stout Makhteshim-Agan of North America, Inc. 551 Fifth Avenue, Suite 1100 New York, NY 10176

NOV 1 4 2002

Dear Ms. Stout:

Subject: Amendment- Update to match use patterns and limitations

appearing on source material label;

Revise Per PR Notices 98-8 and 2001-1; and

Add Chemigation on Potatoes

Thionex 3EC

EPA Registration Number 66222-63

Your submission dated October 21 2002

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable and a stamped copy of the label is enclosed for your records.

When preparing the finished label, please incorporate the following revisions:

- a. Do not delete the front panel limitation "For Agricultural or Commercial Use Only". This should appear above the new limitation "Not for use ...".
- b. Revise the fourth item of the If Swallowed advice in the First Aid section to read as follows; "Do not give anything by mouth to an unconscious or convulsing person.".
- c. Under the heading GENERAL INSTRUCTIONS, revise the site listing of the new limitation to include homes, i.e. to read "including homes, non-agricultural outbuildings,...".
- d. Under the heading Ornamental Trees and Shrubs, delete the proposed addition of Junipers and Maples from the list of plants attacked by Dogwood Borer and Lilac Borer. The Agency does not have knowledge of these insects being pest problems for Junipers or Maples.
- e. For the crop Peas, based on the latest MUP labeling this crop should appear as "PEAS (Succulent, except seed crop)".

Sincerely,

George T. LaRocca Product Manager 13 Insecticide Branch Registration Division (7505C)

THIONEX® 3EC

INSECTICIDE

Not for use or storage in or around residential sties-see DIRECTIONS FOR USE/GENERAL INSTRUCTIONS for prohibited areas

TOTAL 100.0%

*Contains Xylene Range Aromatic Solvent. Contains 3 pounds of endosulfan per gallon.

KEEP OUT OF REACH OF CHILDREN



SEE OTHER PANELS FOR ADDITIONAL PRECAUTIONARY INFORMATION.

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.)

FIRST AID

IF SWALLOWED:

- Immediately call a poison control center or doctor.
- Do not induce vomiting unless told to so by a poison control center or doctor.
- Do not give any liquid to the person.
- Do not give anything by mouth to an unconscious person.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF IN EYES:

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

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact PROSAR at 1-877-250-9291 for emergency medical treatment information.

NOTE TO PHYSICIAN: Endosulfan is a central nervous system stimulant absorbable by mouth, inhalation, or through contact with skin. It may cause convulsions. There is no specific antidote. Diazepam I.V. is the drug of choice. Barbituric acid derivatives such as Phenobarbital may be used additionally. A neuromuscular blocking agent may be used if convulsions persist. This type of drug may be used *only* if complete control of respiration can be maintained. Epinephrine derivatives are absolutely contraindicated. This formula contains petroleum hydrocarbons (xylene range aromatic solvent). Care should be taken to prevent aspiration because of the possibility of chemical pneumonia or pulmonary edema due to the organic solvent in the formulation.

NET CONTENTS: 2 ½ GALLONS

Makhteshim-Agan of North America, Inc. 551 Fifth Avenue, Suite 1100 New York, NY 10176

EPA Reg. No. 66222-63
EPA Est. No. 11678-ISR-002
with COMMENTS
In EPA Letter Dated:

NOV 1 4 2002

Under the Federal Insectibile, Summede, and Rudenticide Act. mented, for the personal Control when IPA 2 2

66222-63

PRECAUTIONARY STATEMENTS

Page 1 of 24

3 224

HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Fatal if swallowed. Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin, or on clothing. May be fatal if inhaled or absorbed through skin. Do not breathe vapors or spray mist. Do not contaminate food or feed. Keep out of reach of domestic animals. Food utensils such as spoons or measuring cups must not be used for food purposes after use in measuring pesticides.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or Viton > 14 mils
- Chemical-resistant footwear plus socks
- · Protective eyewear
- · Chemical-resistant headgear for overhead exposure
- A NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter
- Add a chemical-resistant apron when cleaning equipment, mixing, or loading

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/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL STATEMENT: When handlers use closed systems, enclosed cabs, or aircraft 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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Birds feeding on treated areas may be killed. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Due to the risk of runoff and drift, do not apply within a distance of 300 feet of lakes, ponds, streams, and estuaries. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, and other aquatic life are important resources. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This product must not be used in areas where impact on threatened endangered species is likely. Contact your State Fish and Game Agency before applying this product. Apply this product only as specified on this label.

This pesticide is toxic to bees exposed to direct application. Applications should be timed to coincide with periods of minimum bee activity, usually between late evening and early morning.

PHYSICAL AND CHEMICAL HAZARDS

Do not use, pour, spill, or store near heat or open flame.

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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate or Viton > 14 mils

involves contact with anything that has been treated, such as plants, soil, or water is:

- Chemical-resistant footwear plus socks
- Protective eyewear
- · Chemical-resistant headgear for overhead exposure

This product may be used in California by following the specific crop directions and the SUPPLEMENTAL LABEL found at the end of this label.

GENERAL INSTRUCTIONS

'ot for use or storage in or around residential sites, including non-agricultural outbuildings, non-commercial greenhouses, pleasure boats, recreational vehicles, preschools, day care centers, and applications to humans and pets.

Do not use in undiluted form.

Apply the listed amount per acre when insects first appear and repeat as required, unless otherwise noted, to maintain effective control. Use in sufficient water for thorough coverage of listed crops unless otherwise noted. Coverage of upper and lower leaf surfaces is essential for good control. For ground application, apply recommended amount of pesticide in a minimum of 10 gallons of water per acre on vegetable or row crops unless otherwise noted. Observe use limitations. If insect control is required beyond the following use patterns, supplement the control program with other suitable pesticides.

When applying this material by aircraft, mix the recommended amount with sufficient water to provide a minimum of 1 gallon of finished spray per acre on vegetable and field crops unless otherwise noted, and a minimum of 20 gallons of finished spray per acre on fruit and nut trees and on vines. Where more than 2 quarts of this material are recommended, mix with sufficient water to provide a minimum of finished spray equal to twice the amount of Thionex Endosulfan 3EC Insecticide used.

Do not plant root crops other than carrots, potatoes, sweet potatoes, and sugar beets as follow-up crops.

PREHARVEST INTERVAL

Observe days interval between last application and harvest indicated by number in () following the crop.

CHEMIGATION STATEMENT

CHEMIGATION USE INSTRUCTIONS - POTATOES ONLY

Do not apply this product through any type of irrigation system to other crops. Do not apply this product to potatoes through any type of irrigation system unless the Chemigation Application Instructions are followed.

APPLICATION THROUGH IRRIGATION SYSTEMS - CHEMIGATION

Apply this product only through sprinkler, including center pivot, lateral move, end tow side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. 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.

Mix in clean supply tank the recommended amount of this product for acreage to be covered, and needed quantity of water

5724

This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use. Follow precautionary statements and directions for all tank-mix products.

On all crops, 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. Continuous mild agitation of pesticide mixture may be needed to assure a uniform application, particularly if the supply tank requires a number of hours to empty.

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

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note: Makhteshim-Agan of North America 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 systems 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 a least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional reduced-ressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from a 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 shutdown.

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 material that are compatible with pesticides and capable of being fitted with a system interlock.

SPRINKLER CHEMIGATION (FOLIAR SPRAY USES)

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 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 system interlock.

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

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION		
APPLES (21) (Except California)	Aphids (including Apple Aphid, Rosy Apple Aphid, Woolly Apple Aphid), Apple Rust Mite, Green Fruitworm, Tarnished Plant Bug, Tentiform Leafminer, White Apple Leafhopper (first generation)	¾ qt./100 gals. or a maximum of 3 ^⅓ qts. per acre	Applications made at pink and/or petal fall provide best control of Tarnished Plant Bug and Green Fruitworm. For best control of first generation White Apple Leafhopper, apply when nymphs first appear on leaves. If necessary, prior to petal fall, use 1 qt. per 100 gals, to control Apple Aphid and Rosy Apple Aphid, For control of Tentiform Leafminer, make first application as soon as moth flights begin. A second application should be made 10 days later.		
	 Do not feed pomace from Do not feed cull fruits to a Do not make more than 2 Do not make more than 3 	animals or allow live 2 applications during	stock to graze in treated orchards. g the fruiting period.		
			gredient (i.e., 4 qts.) per acre per year.		
APPLES (California only)	Aphids (including Apple Aphid, Rosy Apple Aphid, Woolly Apple Aphid), Apple Rust Mite, White Apple Leafhopper (first generation)	⅔ qt. per 100 gals. or a maxi- mum of 3⅓ qts. per acre	For best control of first generation White Apple Leafhopper, apply when nymphs first appear on leaves. If necessary, prior to petal fall, use 1 qt. per 100 gals, to control Apple Aphid and Rosy Apple Aphid.		
	Do not feed pomace from		ivestock. istock to graze in treated orchards.		
	Do not make more than 2				
			gredient (i.e., 4 qts.) per acre per year.		
APRICOTS, NECTAR- INES, PEACHES (21) (Except California)	Peachtree Borer, Lesser Peachtree Borer	1 qt./ 100 gals. or 2¾ - 3¼ qts. per acre	Pacific Northwest: Use %-1 qt. per 100 gals.; Southeastern States: Use 2 to 3½ qts. per 100 gals. Best control is obtained with a single application post-harvest after the leaves have dropped. Spray all bark areas from ground level to lower scaffold limbs.		
Odilionna/	Do not feed cull fruits to a	nimals or allow live	stock to graze in treated orchards.		
	Do not make more than 2				
			gredient (i.e., 4 qts.) per acre per year.		
APRICOTS, NECTAR- INES, PEACHES (30) (Except California)	Aphids (including Black Cherry Aphid, Black Peach Aphid, Green Peach Aphid, Rusty Plum Aphid), Catfacing Insects (Stink Bug type), Green Fruitworm, Peach Silver	% qt./ 100 gals or a maximum of 3% qts. per acre	Make applications when insects appear or feeding is noticed.		
	Mite. Peach Twig Borer	naimala nas allaus lite	note all the graze in treated archards		
			estock to graze in treated orchards.		
		 Do not make more than 2 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. 			
	1 - Do not exceed a maximu	in or o los. active in	gredient (s.e., 7 gto.) per dore per year.		

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION	
APRICOTS, NECTAR- INES, PEACHES (30)	Aphids (including Black Cherry Aphid, Black Peach Aphid, Green Peach Aphid, Rusty Plum Aphid), Catfacing Insects (Stink Bug type), Peach Silver	² / ₃ qt./ 100 gals. or a maximum of 3½ qts. per acre	Make applications when insects appear or feeding is noticed.	
(California only)	 Do not make more than 2 	applications per ye	stock to graze in treated orchards. ear. gredient (i.e., 4 qts.) per acre per year.	
BARLEY, OATS, RYE, WHEAT	Army Cutworm	⅔ qt. per acre	Apply when small larvae are readily found in the field. For aerial application, apply in 2 gals. of crop oil per acre.	
(Except California)	Cereal Leaf Beetle (Illinois, Indiana, Michigan, and Ohio only)	⅓ - ⅔ qt. per acre	Apply when small larvae are readily found in the field. For aerial application, use a minimum of 1 to 2 gals. of water per acre.	
	Aphids (including Russian Wheat Aphid) Do not apply after heads Do not feed treated forag		Make application when insects appear or feeding is noticed.	
	Do not make more than 2 Do not exceed a maximu	applications per ye mof 1 lb. active ing	redient (i.e., 1% qts.) per acre per year.	
BARLEY, OATS, RYE,	Army Cutworm	¾ qt. per acre	Apply when small larvae are readily found in the field.	
WHEAT (California only)	Aphids (including Russian Wheat Aphid) Do not apply after heads	3/3 -1 qt. per acre	Make applications when insects appear or feeding is noticed.	
O(III)	 Do not apply after heads begin to form. Do not feed treated forage to livestock. Do not make more than 2 applications per year. Do not exceed a maximum of 1 lb. active ingredient (i.e., 1½ qts.) per acre per year. 			
BEANS, SUC- CULENT and DRY (except lima) (3)	Black Bean Aphid, Bean Leaf Skeletonizer, Cowpea Curculio, Cucumber Beetle, Flea Beetles, Green Stink Bug, Leafhopper, Mexican Bean Beetle	⅔ -1⅓ qts. per acre	Make applications when insects appear or feeding is noticed. For control of Cowpea Curculio, make 3 applications at 5-day intervals starting when the pods are ½ inch long.	
SOUTHERN FIELD	Aphid, Armyworm, Western Bean Cutworm, Whitefly	11/3 qts. per acre		
PEAS (Succulent type, Including Black-Eyed Peas, Crowder Peas, and Southern Peas (3)	 Do not feed treated thres Do not use on Lima Bean Do not make more than 3 	is that are to be rem applications per ye	ock to graze in treated fields. noved from the field for processing. ear. gredient (i.e., 4 qts.) per acre per year.	
(Except California)				

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION			
BEANS, SUC- CULENT	Black Bean Aphid, Bean Leaf Skeletonizer, Cucumber Beetle, Flea Beetles, Green	% - 1% qts. per acre	Make applications when insects appear or feeding is noticed.			
and DRY	Stink Bug, Leafhoppers, Mexican Bean Beetle					
(except lima) (3)	Aphids, Western Bean	11/₃ qts. per				
SOUTHERN	Cutworm, Whitefly	acre				
FIELD			ock to graze in treated fields.			
PEAS (Succulent	Do not make more than 3 a		oved from the field for processing.			
type, Including Black-Eyed Peas, Crow-			predient (i.e., 4 qts.) per acre per year.			
der Peas, and South- ern Peas) (3) (Califor- nia only)						
BLUEBER- RIES	Blueberry Bud Mite	2 qts. per acre in 300 gals.	Apply immediately after harvest and repeat 6 to 8 weeks later.			
(Except		Do not apply after buds are well formed.				
California)	Do not make more than 2 a					
BROCCOLI	Do not exceed a maximum Cabbage Aphid, Cabbage		redient (i.e., 4 qts.) per acre per year. Make applications when insects appear or			
(7),	Looper, Cross-striped	1 - 11/3 qts. per acre	feeding is noticed.			
BRUSSELS	Cabbageworm, Diamondback					
SPROUTS	Moth Larvae, Flea Beetle, Harlequin Bug, Imported					
(14), CABBAGE	Cabbageworm, Leafhoppers,					
(7), CAULI-	Stink Bugs					
FLOWER (14) (Except	Armyworm, Cutworm, Whitefly	11/3 qts. per acre	Make applications when insects appear or feeding is noticed.			
California)	Do not make more than 4 applications per year.					
222221	Do not exceed a maximum		redient (i.e., 4 qts.) per acre per year.			
BROCCOLI (7),	Cabbage Aphid, Cabbage Looper, Cross-striped	1 - 11/3 qts. per acre	Make applications when insects appear or feeding is noticed.			
BRUSSELS	Cabbageworm, Diamondback					
SPROUTS (14),	Moth Larvae, Flea Beetles, Harlequin Bug, Imported					
CABBAGE	Cabbageworm, Stink Bugs		;			
(7), CAULI- FLOWER	Armyworms, Cutworms, Whitefly	11/3 qts. per acre				
(14)	Do not make more than 2 a		ar.			
(California only)			redient (i.e., 2 % qts.) per acre per year.			
CARROTS	Green Peach Aphid,	⅔ - 1⅓ qts. per	Make application when insects appear or			
(7)	Leafhopper Armayorm Floa Poetlo	acre	feeding is noticed.			
(Except California)	Armyworm, Flea Beetle, Whitefly	11/3 qts. per acre				
,	Do not use tops for food or	feed.				
	Do not make more than one					
	 Do not exceed a maximum 	of 1 lb. active ingr	edient (i.e., 1¼ qts.) per acre per year.			

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION		
CARROTS (7)	Green Peach Aphid	3⁄3 - 11⁄3 qts. per acre	Make application when insects appear or feeding is noticed.		
(California	Flea Beetles, Whitefly	11/3 qts. per acre			
only)	Do not use tops for food or	r feed.			
	Do not make more than or	ne application per ye	ear.		
			edient (i.e., 1¼ qts.) per acre per year.		
CELERY (4)	Green Peach Aphid,	3/3 - 11/3 gts. per	Make application when insects appear or		
(Except	Cabbage Looper,	acre	feeding is noticed.		
California)	Leafhoppers				
	Armyworm, Flea Beetle, Whitefly	11/3 qts. per acre			
	 Do not make more than or 	ne application per ye	ear.		
	 Do not exceed a maximun 	n of 1 lb. active ingr	edient (i.e., 1¼ qts.) per acre per year.		
CELERY (4)	Green Peach Aphid,	3⁄3-11⁄3 qts. per	Make application when insects appear or		
(California	Cabbage Looper	асте	feeding is noticed.		
only)	Flea Beetles, Whitefly	11/3 qts. per acre			
	Do not make more than or		ear.		
			edient (i.e., 1½ qts.) per acre per year.		
CELERY (7)	Green Peach Aphid	⅓ qt. per acre	Make applications when insects appear or		
(Except	·		feeding is noticed.		
California)	Do not make more than 2 applications per year.				
			edient (i.e., 1½ qts.) per acre per year.		
CELERY (7) (California	Green Peach Aphid	¾ qts. per acre	Make applications when insects appear or feeding is noticed.		
only)	Do not make more than 2	annlications per ver	<u> </u>		
J.1.97		 Do not make more than 2 applications per year. Do not exceed a maximum of 1 lb. active ingredient (i.e., 1½ qts.) per acre per year. 			
CHERRIES	Peachtree Borer, Lesser	1qt./100 gals. or	Best control is obtained with a single		
(21) (Except California)	Peachtree Borer	2% - 3% qts. per acre; Pacific Northwest: % -1 qt./100 gals.	application post-harvest after the leaves have dropped. Spray all bark areas from ground level to lower scaffold limbs.		
	Black Cherry Aphid, Green Fruitworm, Plum Rust (Nursery) Mite	% qt. per 100 gals. or 2% - 3% qts. per acre	Make applications when insects appear or feeding is noticed.		
	Pacific Northwest only: Eye-Spotted Bud Moth Fruittree Leafroller	qua. per acre	For bud moth control, apply at "popcorn" stage. For leafroller control, apply during pre-pink stage of growth.		
	Michigan Only: Mineola Moth	11/3 qts. per 100 gals.	Apply in the delayed dormant period.		
	Do not feed cull fruits to animals or allow livestock to graze in treated orchards.				
	Do not måke more than 2	applications per year	ar.		
			gredient (i.e., 4 qts.) per acre per year.		
CHERRIES	Black Cherry Aphid, Plum	⅔ qt. per 100	Make applications when insects appear or		
(21)	Rust (Nursery) Mite	gals. or 21/3 - 31/3	feeding is noticed.		
(California	- Do not food and famile to a	qts. per acre	took to graze in treated grahands		
only)	•		stock to graze in treated orchards.		
	Do not make more than 2 Do not average a maximum				
	 Do not exceed a maximur 	ii of 3 ids. active ing	redient (i.e., 4 qts.) per acre per year.		

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION		
CHERRY, PEACH, PLUM (Nursery Stock Dip) (Except California)	Peachtree Borer	2 3⁄3 qts. per 40 gals.	Mix thoroughly. Immerse trees so that the roots and crowns are covered well above the grafting bud scar. Full personal protective equipment (PPE) requirements for applicators also apply to this dipping operation. Plant immediately or dry before returning stock to storage.		
CHERRY, PEACH, PLUM (Nursery Stock Dip) (California or	Peachtree Borer	2 % qts. per 40 gals.	Mix thoroughly. Immerse trees so that the roots and crowns are covered well above the grafting bud scar. Full personal protective equipment (PPE) requirements for applicators also apply to this dipping operation. Plant immediately or dry before returning stock to storage.		
CITKUS (Non- bearing Trees	Citrus Aphid	% qt. per 100 gals. or a maximum of 3% qts. per acre	Make applications when insects appear or feeding is noticed.		
and Nursery Stock) (Except California)	Do not make more than 2	ees or trees that wi applications per ye	Il bear fruit within twelve months. ear. gredient (i.e., 4 qts.) per acre per year.		
CITRUS (Non- bearing Trees	Citrus Aphid	3/4 qt. per 100 gals. or a maximum of 31/4 qts. per acre	Make applications when insects appear or feeding is noticed.		
and Nursery Stock) (California only)	Do not make more than 2	2 applications per ye	ll bear fruit within twelve months. ear. gredient (i.e., 4 qts.) per acre per year.		
COLLARDS (21) (Except California)	Aphid, Cabbage Looper, Diamondback Moth Larvae, Fall Armyworm, Flea Beetle, Harlequin Bug, Imported Cabbageworm, Leafhoppers Whitefly	1 - 1½ qts. per acre	Make application when insects appear or feeding is noticed.		
	Do not make more than one application per year.				
0011.4555			redient (i.e., 11/3 qts.) per acre per year.		
COLLARDS (21) (California only	Aphids, Cabbage Looper, Diamondback Moth Larvae, Flea Beetles, Harlequin Bug, Imported Cabbageworm, Whitefly	1 qt. per acre	Make application when insects appear or feeding is noticed.		
	Do not make more than or	one application per v	vear		
	,	and application per	7 Out .		

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION	
COTTON	Aphids	½ - 1 qt. per	Make applications when insects appear or	
(Except	Aprillus	acre	feeding is noticed. For control of aphids	
California)	Boll Weevil	² / ₃ - 2 qts. per	thorough coverage is important.	
oumorna,	30,, 77,007,,	acre	and ought out to age to the personal to	
	Bollworm, Cabbage Looper,	11/3 - 2 qts. per		
	Cotton Leafperforator,	acre		
	Cotton Leafworm,			
	Fleahopper, Lygus Bugs,			
	Stink Bugs, Tobacco			
	Budworm			
	Thrips	2 qts. per acre		
	Whitefly	11/3 qts. per acre		
	 Applications may be mad 	e using ground or a	erial application equipment. The higher rate	
	should be used under he			
	Do not apply after bolls of	pen.		
	Do not graze meat or dail	y animals in treated	d fields.	
	 Do not exceed a maximu 	m of 3 lbs. active in	gredient (i.e., 4 qts.) per acre per year.	
COTTON	Aphids	1/2 - 1 qt. per	Make applications when insects appear of	
(California		асте	feeding is noticed. For control of aphids	
only)	Bollworm, Cabbage Looper,	11/3 - 2 qts. per	thorough coverage is important.	
	Cotton Leafperforator,	асге		
	Fleahoppers, Lygus Bugs,			
	Stink Bugs			
	Thrips	2 qts. per acre		
	Whitefly	1½ qts. per acre		
	Applications may be made using ground or aerial application equipment. The higher rate			
	should be used under heavy pest pressure.			
	Do not apply after boils open.			
	Do not graze dairy or meat animals in treated fields.			
			gredient (i.e., 4 qts.) per acre per year.	
CUCUM-	Aphids, Cucumber Beetle,	¾ - 1¼ qts. рег	Make applications when insects appear of	
BERS (2),	Melonworm, Pickleworm,	acre	feeding is noticed. For squash vine bore	
MELONS	Rindworm (on		control, apply weekly to flower buds, stems, and	
(2),	watermelons), Squash		vines beginning when moths first appear.	
PUMPKINS	Beetle, Squash Bug,			
(2),	Squash Vine Borer, Striped			
SUMMER	Flea Beetle	41/	1	
and	Cabbage Looper,	11/3 qts. per acre		
WINTER	Omnivorous Leafroller, Whitefly			
SQUASH (2)		Constigations		
(Except	Do not make more than 6 Do not exceed a maximum			
California)	Do not exceed a maximu	m or a ids. active in	gredient (i.e., 4 qts.) per acre per year.	

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION
CUCUM- BERS (2), MELONS (2), PUMPKINS (2), SUMMER	Aphids, Cucumber Beetle, Melonworm, Pickleworm, Rindworm (on watermelons), Squash Beetle, Squash Bug, Squash Vine Borer, Striped Flea Beetle	⅔ - 1⅓ qts. per acre	Make applications when insects appear or feeding is noticed. For squash vine borel control, apply weekly to flower buds, stems and vines beginning when moths first appear.
and WINTER SQUASH (2)	Cabbage Looper, Omnivorous Leafroller, Whitefly	1⅓ qts. per acre	
(Califor- nia only)	 Do not make more than 3 Do not exceed a maximu 		edient (i.e., 4 qts.) per acre per year.
EGGPLANT (1) (Except California)	Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Green Stink Bug Whitefly	1⅓ qts. per acre	Make applications when insects appear or feeding is noticed.
	Do not make more than 2 Do not exceed a maximum		lient (i.e., 1½ qts.) per acre per year.
EGGPLANT (1) (California only)	Blister Beetle, Colorado Potato Beetle, Flea Beetles, Green Peach Aphid, Green Stink Bug, Whitefly	1½ pts. per acre	Make application when insects appear or feeding is noticed.
	Do not make more than c Do not exceed a maximum		r. edient (i.e., 1¼ pts.) per acre per year.
GRAPES (7) (Except California)	Grape Leafhopper, Grape Phylloxera (leaf form), Rose Chafer	3/4 qt. per 100 gals. or 11/4 - 2 qts. per acre	Make applications when insects appear or feeding is noticed.
,	 Do not use on Concord via Ground application is pre Do not make more than 3 Do not exceed a maximu 	ferred. applications per year.	
GRAPES (7) (California only)	Grape Leafhopper, Grape Phylloxera (leaf form), Rose Chafer	3/4 qt. per 100 gals. or 11/4 - 2 qts. per acre	Make applications when insects appear or feeding is noticed.
	 Do not use on Concord vi Ground application is pre Do not make more than 3 Do not exceed a maximu 	ferred. Lapplications per year.	, ,
KALE (21) (Except California)	Cabbage Flea Beetle, Harlequin Bug, Imported Cabbageworm	1 qt. per acre	Make application when insects appear or feeding is noticed.
	Do not make more than cDo not exceed a maximu		r. redient (i.e., 1 qt.) per acre per year.

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION			
KALE (21) (California only)	Cabbage Flea Beetle, Harlequin Bug, Imported Cabbageworm	1 qt. per acre	Make application when insects appear or feeding is noticed.			
	Do not make more than common than common than to the common than the comm	ne application per	year.			
	 Do not exceed a maximu 	m of 0.75 lb. active	ingredient (i.e., 1 qt.) per acre per year.			
LETTUCE (14) (Except California)	Cabbage Looper, Diamondback Moth Larvae, Green Peach Aphid, Imported Cabbageworm, Leafhoppers	1 - 1½ qts. per acre	Make applications when insects appear or feeding is noticed.			
	Armyworms, Whitefly	11/3 qts. per acre				
	harvest.On Leaf Lettuce: Do not rDo not feed crop refuse to	make more than 2 a o livestock.	ons after thinning. Remove wrapper leaves at applications per year. gredient (i.e., 4 qts.) per acre per year.			
LETTUCE	Cabbage Looper,	1 - 11/3 qts. per	Make applications when insects appear or			
(14) (California only)	Diamondback Moth Larvae, Green Peach Aphid, Imported Cabbageworm, Leafhoppers	acre	feeding is noticed.			
	Whitefly	11/3 qts. per acre				
	 leaves at harvest. On Leaf Lettuce: Do not r Do not feed crop refuse to 					
MUSTARD GREENS (21) (Except California)	Aphids, Cabbage Looper, Diamondback Moth Larvae, Fall Armyworm, Flea Beetle, Harlequin Bug, Imported Cabbageworm, Leafhoppers	1 - 1% qts. per acre	Make application when insects appear or feeding is noticed.			
	Whitefly	11/3 qts. per acre				
	Do not make more than one application per year.					
			redient (i.e., 11/3 qts.) per acre per year.			
MUSTARD GREENS (21) (California only)	Aphids, Cabbage Looper, Diamondback Moth Larvae, Fall Armyworm, Flea Beetles, Harlequin Bug, Imported Cabbageworm, Whitefly	1 qt. per acre	Make application when insects appear or feeding is noticed.			
	Do not make more than of		/ear. ingredient (i.e., 1 qt.) per acre per year.			

CROP	INSECTS CONTROLLED	RATE OF	METHOD OF APPLICATION		
		APPLICATION			
PEARS (7)	Green Fruitworm.	3/3 qt. per 100	Make applications at white bud or petal fall when		
(Except	Tarnished Plantbug	gals. or 21/3 - 31/3	insects appear or feeding is noticed.		
California)		qts. per acre			
	Pear Psylla	31/3 qts. per acre	Apply in a minimum of 10 gals, of water for		
•	ł		aerial application or in 300 gals, of water for		
		}	dilute application. Apply when adults are first		
		j	observed or nymphs are small and repeat to		
			maintain control.		
	Pear Rust Mite. Consperse	% qt. per 100	Make applications when insects appear or		
	Stink Bug (foliar treatment)	gals. or 23/3 - 31/3	feeding is noticed. Stink bugs must be wet by		
		qts. per acre	spray to obtain control.		
	Consperse Stink Bug (soil	⅓ qt. per 100	Apply to orchard floor and around trees prior to		
	treatment)	gals.; 200 – 400	bloom.		
		gals, per acre			
	Pear Leaf Blister Mite	⅓ - ⅔ qt. per	Apply to trees as a post-harvest or dormant		
		100 gals.	treatment.		
	Do not feed cull fruits to animals or allow livestock to graze in treated orchards.				
	Do not make more than 2 applications per year.				
	Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year.				
	Note: Aerial application may not result in satisfactory control and should only be employed if				
	impossible to apply by ground.				
PEARS (7)	Pear Psylla	31/3 qts. per acre	Apply in a minimum of 10 gals, of water for		
(California		}	aerial application or in 300 gals, of water for		
only)		}	dilute application. Apply when adults are first		
• •			observed or nymphs are small and repeat to		
		[maintain control.		
	Pear Rust Mite, Consperse	⅔ qt. per 100	Make applications when insects appear or		
	Stink Bug (foliar treatment)	gals. or 2% - 31/3	feeding is noticed. Stink bugs must be wet by		
		qts. per acre	spray to obtain control.		
	Consperse Stink Bug (soil	¾ qt. per 100	Apply to orchard floor and around trees prior to		
	treatment)	gals., 200 – 400	bloom.		
		gals, per acre			
	Pear Leaf Blister Mite	1/3 - 3/3 qt. per	Apply to trees as a post-harvest or dorman		
		100 gals.	treatment.		
	Do not feed cull fruits to a		stock to graze in treated orchards.		
	Do not make more than 2				
			gredient (i.e., 4 qts.) per acre per year.		
			isfactory control and should only be employed if		
	impossible to apply by gr		islactory control and should only be employed if		
	T WILL CONTROL OF APPLY DY GI	<u> </u>			

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION
PEAS (Succulent) (5)	Pea Aphid, Pea Weevil, Loopers, Stink Bugs, Colorado Potato Beetle	3/4 - 11/4 qts. per acre	Make applications when insects appear or feeding is noticed.
(Except California)	Do not make more than 2	to livestock or allow applications per ye	v livestock to graze in treated fields.
PECANS (Except California)	Black Pecan Aphid, Pecan Nut Casebearer, Spittlebug	1 qt. per 100 gals.	Make applications when insects appear or feeding is noticed. For casebearer, apply when eggs of first generation appear on the tips of the young nuts. Another application may be required after the second generation of eggs is deposited. For spittlebug, apply when first leaves are half grown and repeat as required.
	Pecan Leaf Phylloxera	⅔ - 1 qt. per 100 gals.	Apply when nymphs appear and before they are enclosed in plant tissue. For high populations, use the higher rate.
	 Do not apply after shuck Do not graze livestock on Do not make more than 2 Do not exceed a maximum 	orchard crops or g applications per ye	rasses in treated areas. ear. gredient (i.e., 4 qts.) per acre per year.
PECANS (California only)	Black Pecan Aphid, Pecan Nut Casebearer, Spittlebug	1 qt. per 100 gals.	Make applications when insects appear or feeding is noticed. For casebearer, apply when eggs of first generation appear on the tips of the young nuts. Another application may be required after the second generation of eggs is deposited. For spittlebug, apply when first leaves are half grown and repeat as required.
	 Do not apply after shuck Do not graze livestock on Do not make more than 2 Do not exceed a maximum 	orchard crops or g applications per ye	
PEPPERS (1) (Except	Flea Beetle, Green Peach Aphid, Hornworm, Pepper Maggot	⅔ qt. per acre	Make applications when insects appear or feeding is noticed.
California)	 Do not make more than 2 Do not exceed a maximu 		ear. redient (i.e., 1½ qts.) per acre per year.
PEPPERS (1) (California only)	Flea Beetles, Green Peach Aphid, Hornworm, Pepper Maggot	⅓ qt. per acre	Make applications when insects appear or feeding is noticed.
	Do not make more than 2Do not exceed a maximu		ear. redient (i.e., 1½ qts.) per acre per year.
PEPPERS (4) (Except California)	Armyworms, Flea Beetles, Green Peach Aphid, Hornworm, Leafhoppers, Pepper Maggot	3/4 - 11/4 qts. per acre	Make applications when insects appear or feeding is noticed.
·	Whitefly Do not make more than 2		ear. gredient (i.e., 2 ¾ qts.) per acre per year.

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION
PEPPERS	Flea Beetles, Green Peach	3/3 - 11/3 qts. per	Make applications when insects appear or
(4)	Aphid, Hornworms, Pepper	acre	feeding is noticed.
(California	Maggot		
only)	Whitefly	11/3 qts. per acre	
	 Do not make more than 2 		
	Do not exceed a maximus		gredient (i.e., 2 ¾ qts.) per acre per year.
PINEAPPLE :	Pineapple Fruit Mite	2 – 2 % qts. per	Make applications when insects appear of
(For Fresh Market Only)		acre	feeding is noticed. Apply at intervals of 7 to 10 days if necessary, particularly during the 40-day
(7)			period of blooming.
(Except	Do not feed forage or pine	eapple by-products	
California)	Do not make more than 2		
,			gredient (i.e., 4 qts.) per acre per year.
PINEAPPLE	Pineapple Fruit Mite	2 - 2 3/3 ats. per	Make applications when insects appear of
(For Fresh	` `	acre	feeding is noticed. Apply at intervals of 7 to 10
Market Only)			days if necessary, particularly during the 40-day
(7)			period of blooming.
(California	Do not feed treated forage		
only)	Do not make more than 2		
OL 11646 (7)			gredient (i.e., 4 qts.) per acre per year.
PLUMS (7), PRUNES (7)	Fruittree Leafroller (Pacific Northwest Only)	⅔ qt. per 100 gals. or 2⅔ - 3⅓	Apply during pre-pink stage of growth when insects appear or feeding is noticed.
(Except		qts. per acre	
California)	Aphids (including Hop	qts. per acre	For control of aphids, apply when eggs hatch
	Aphid, Leafcurl Plum Aphid,		during pre-bloom or petal fall. Summe
	Thistle Aphid), Plum Rust (Nursery) Mite		applications should be made before leaves curl.
!	Peach Twig Borer	3⁄3 qt. per 100	Make applications when insects appear of
	reach ring borer	gals. or 23/3 - 31/3	feeding is noticed.
:		qts. per acre	
	Lesser Peachtree Borer,	1 qt. per 100	Pacific Northwest: 3/4 - 1 qt. per 100 gals. or 23/4 -
	Peachtree Borer	gals. or 23/3 - 31/3	31/3 qts. per acre. Best control is obtained with a
	!	qts. per acre	single application post-harvest after the leaves
	·	!	have dropped. Spray all bark areas from ground
			level to lower scaffold limbs.
			chard crops or grasses in treated areas.
	B +		ar. gredient (i.e., 4 qts.) per acre per year.
PLUMS (7).	Aphids (including Hop Aphid,	% qt. per 100	For control of aphids, apply when eggs hatch
PRUNES (7)	Leafcurl Plum Aphid, Thistle	gals. or 2 1/3 -	during pre-bloom or petal fall. Summer
(California	Aphid), Plum Rust (Nursery)	31/3 qts. per	applications should be made before leaves
only)	Mite	acre	curl
	Peach Twig Borer	3/3 qt. per 100	Make applications when insects appear or
		gals. or 2 3/3 -	feeding is noticed.
		31/3 qts. per	
	Lossor Possibles Salar	acre	Doct control in obtained with a side
	Lesser Peachtree Borer, Peachtree Borer	% - 1 qt. per 100 gals. or 2	Best control is obtained with a single application post-harvest after the leaves have
	Gacilliee Dolei	% - 3% qts. per	dropped. Spray all bark areas from ground
		acre	level to lower scaffold limbs.
			i i i i i i i i i i i i i i i i i i i
	Do not allow livestock to a		hard crops or grasses in treated areas
	Do not allow livestock to g Do not make more than 2	graze on treated ord	chard crops or grasses in treated areas.

Colorado Potato Beetle Seren Pistin Bug Leaffooted Bug Plant Bugs Potato Flea Beetle, Potato Leafhopper. Potato Leafhopper Potato Debendorn Threelined Potato Debendorn Potato Tuberworm Threelined Potato Debendorn Potato Tuberworm Threelined Potato Debendorn Potato Tuberworm Threelined Potato Beetle Potato Leafhopper Potato Tuberworm Potato	CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION	
Psyllid acre False Chinch Bug, Whitefly 1½ qts per acre e • Do not make more than 6 applications per year. • Do not exceed a maximum of 3 lb, active ingredient (i.e., 4 qts.) per acre per year. POTATOES (1) (California only) Aphids, Armyworms, 7½ - 1½ qts, per acre per year. Potato Tuberworm, 7 brotelined Potato Beetle, 12 per potato Beetle, 14 per potato Beetle, 15 per potato Beetle, 15 per potato Beetle, 16 per potato Beetle, 16 per potato Beetle, 17 per potato Beetle, 18 per potato Beetle, 19 p	(1) (Except	Colorado Potato Beetle. Green Stink Bug, Leaffooted Bug, Plant Bugs, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Threelined Potato Beetle	acre	For application by irrigation systems, apply the specified dosage of Thionex 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section	
POTATOES (1) California only) Aphids, Armyworms. (California only) A		Psyllid	асге		
POTATOES (1) (California only) Aphids. Armyworms. (Colorado Potato Beetle. Green Stink Bug. Leaffooted Bug. Plant Bugs. Potato Flea Beetle. Potato Leafhopper. Potato Tuberworm. Threelined Potato Beetle European Com Borer, Potato Psyllid acre Psyllid acre Do not exceed a maximum of 3 lb. active ingredient (i.e., 4 qts.) per acre per year. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Po not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Po not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Po not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Po not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Po not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Po not make more than one application per year. Do not exceed a maximum of 1 lb. active ingredient (i.e., 4 qts.) per acre per year. Po not exceed a maximum of 1 lb. active ingredient (i.e., 4 qts.) per acre per year. Po not exceed a maximum of 1 lb. active ingredient (i.e., 4 qts.) per acre per year. Po not exceed a maximum of 1 lb. active ingredient (i.e., 1½ qts. per acre per year.) Po not make more than one application per year. Do not exceed a maximum of 0.75 lb. active ingredient (i.e., 1½ per acre per year.) Parawberry Aphid. Tarnished plant Bug. Whitefly Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. Do not make more than 3 applications per year. Po not make more than 3 applications per year. Po not make more than 3 applications per year. Po not make more than 3 applications per year. Po not make more than 3 applications per year. Po not make more than 3 applications per year. Po not make more than 3 applications per year. Po not make more than 3 applications per year. Po not make more than 3 applications per year.		,	асте		
Aphids, Armyworms, Colorado Potato Beetle, Green Stink Bug, Leaffooted Bug, Plant Bugs, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Threelined Potato Beetle European Corn Borer, Potato Position Bug, Whitefly 1½ qts, per acre Psyllid acre		Do not make more than 6 a	pplications per year	ar.	
Colorado Potato Beetle, Green Stink Bug, Leaffooted Bug, Plant Bugs, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Threelined Potato Beetle European Corn Borer, Potato acre **Do not make more than 6 applications per year* **Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. **SPINACH (21) (Except California)** **PINACH (21) (California)** **Pon ont make more than one application per year.** **Do not exceed a maximum of 1 lb active ingredient (i.e. 1½ qts. per acre per year.)* **PINACH (21) (California)** **PINACH (21) (California)** **Pon ont make more than one application per year.** **Do not make more than one application per year.** **Do not make more than one application per year.** **Do not make more than one application per year.** **Do not make more than one application per year.** **Do not make more than one application per year.** **Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1½ per acre per year.** **Do not make more than one application per year.** **Do not make more than one application per year.** **Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year.** **Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year.** **Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year.** **Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year.** **Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year.** **Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year.** **Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year.** **Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year.** **Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year.** **Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year.** **Do not exceed a maximum of 0.75 lb. ac					
Psyllid acre False Chinch Bug, Whitefly 1½ qts. per acre	(1) (California	Colorado Potato Beetle, Green Stink Bug, Leaffooted Bug, Plant Bugs, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm,	• •		
False Chinch Bug, Whitefly Do not make more than 6 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. SPINACH (21) (Except California) Whitefly 1½ qts. per acre acre Do not make more than one application per year. Do not exceed a maximum of 1 lb. active ingredient (i.e. 1½ qts. per acre per year.) SPINACH (21) (California) SPINACH (21) (California) Or on texceed a maximum of 1 lb. active ingredient (i.e. 1½ qts. per acre per year.) SPINACH (21) (California) Only Do not make more than one application per year. Do not make more than one application per year. Do not make more than one application per year. Do not make more than one application per year. Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year. STRAW-BERRIES (A) (Except California) On the complete of the plant bug. Whitefly Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Cyclamen Mite 2 ½ qts. per acre in 400 gals of water Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year.		, ·			
Do not make more than 6 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Armyworms, Crown Mite, Flea Beetles, Green Peach Aphid, Leafhoppers Whitefly Do not make more than one application per year. Do not exceed a maximum of 1 lb, active ingredient (i.e., 1½ qts. per acre per year.) SPINACH (21) (California) SPINACH (21) (California) On the field beetles, Green Peach Aphid, Whitefly California Only) STRAW- BERRIES (4) Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug, Whitefly Except California) On to reapply within 15 days or more than twice during a 35-day period when fruit is present. Do not make more than 3 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. Do not make more than 3 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. The fielding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. The fielding is noticed. Make applications when insects appear of feeding is noticed. The fielding is noticed. Make applications when insects appear of feeding is noticed. The fielding is noticed. Make applications when insects appear of feeding is noticed. The fielding is noticed. The fi			11/3 qts. per		
Armyworms, Crown Mite, Flea Beetles, Green Peach Aphid, Leafhoppers Whitefly Do not make more than one application per year. Do not exceed a maximum of 1 lb. active ingredient (i.e. 1½ qts. per acre per year.) Crown Mite, Flea Beetles, Green Peach Aphid, Whitefly California only) SPINACH (21) (California only) STRAW- BERRIES (4) (Except California) Claifornia Claifornia Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Cyclamen Mite Po not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Cyclamen Mite Po not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Cyclamen Mite 2 ½ qts. per acre per year. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. For multiple applications, do not apply at intervals less than 35 days when fruit is present. Do not make more than 3 applications per year.					
Beetles, Green Peach Aphid, Leafhoppers Beetles, Green Peach Aphid, Leafhoppers Whitefly 1½ qts. per acre					
California) Whitefly 1½ qts. per acre Do not make more than one application per year. Do not exceed a maximum of 1 lb. active ingredient (i.e. 1½ qts. per acre per year.) SPINACH (21) (California only) STRAW- BERRIES (4) (Except California) California) Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year. Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug, Whitefly Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. California) Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Cyclamen Mite 2¾ qts. per dake applications when insects appear of feeding is noticed. Cyclamen Mite 2¾ qts. per dake applications when insects appear of feeding is noticed. Cyclamen Mite 2¾ qts. per dake applications when insects appear of feeding is noticed. Thoroughly wet the foliage stem and crown of the plant. For multiple applications, do not apply at intervals less than 35 days when fruit is present. Do not make more than 3 applications per year. Do not make more than 3 applications per year.	(21)	Beetles, Green Peach Aphid,	' '	, , , , , , , , , , , , , , , , , , , ,	
Plant Bug. Whitefly (Except California) California) California) (Except California) California) California) (Except California) California) California) For multiple applications, do not apply at intervals less than 35 days when fruit is present. Do not make more than 3 applications per year. I qt. per acre Make application when insects appear of feeding is noticed. Make application when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when insects appear of feeding is noticed. Make applications when fruit is present. Make applications when fruit is present. Make applications when insects appear of feeding is noticed. Thoroughly wet the foliage stem and crown of the plant. For multiple applications, do not apply at intervals less than 35 days when fruit is present. Do not make more than 3 applications per year.	· · · · · · · · · · · · · · · · · · ·	Whitefly			
Crown Mite, Flea Beetles, Green Peach Aphid, Whitefly (California only) STRAW- BERRIES (4) (Except California) Claifornia Count Mite, Flea Beetles, Green Peach Aphid, Whitefly Except California Count make more than one application per year. Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year. Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug, Whitefly Except California Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. Do not make more than 3 applications per year. Cyclamen Mite 2 % qts. per acre in 400 gals. of water For multiple applications, do not apply at intervals less than 35 days when fruit is present. Do not make more than 3 applications per year.					
(21) (California only) Do not make more than one application per year. Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year. Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug, Whitefly (Except California) Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Cyclamen Mite 2 ½ qts. per acre in 400 feeding is noticed. Thoroughly wet the foliage gals. of water For multiple applications, do not apply at intervals less than 35 days when fruit is present. Do not make more than 3 applications per year.					
Do not exceed a maximum of 0.75 lb. active ingredient (i.e. 1qt.) per acre per year. STRAW-BERRIES (4) (Except California) Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Cyclamen Mite 2 ½ qts. per acre in 400 feeding is noticed. Thoroughly wet the foliage gals. of water For multiple applications, do not apply at intervals less than 35 days when fruit is present. Do not make more than 3 applications per year.	(21)	Green Peach Aphid, Whitefly	· '	feeding is noticed.	
Meadow Spittlebug, Strawberry Aphid, Tarnished (4) (Except California) Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug, Whitefly Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. Do not make more than 3 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Cyclamen Mite 2 % qts. per acre in 400 gals. of water For multiple applications, do not apply at intervals less than 35 days when fruit is present. Plant Bug, Whitefly Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. Make applications when insects appear of feeding is noticed. Thoroughly wet the foliage stem and crown of the plant. For multiple applications, do not apply at intervals less than 35 days when fruit is present. Do not make more than 3 applications per year.	•				
 (Except California) Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. Do not make more than 3 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Cyclamen Mite 2 % qts. per acre per year. Make applications when insects appear of feeding is noticed. Thoroughly wet the foliage stem and crown of the plant. For multiple applications, do not apply at intervals less than 35 days when fruit is present. Do not make more than 3 applications per year. 	BERRIES	Meadow Spittlebug, Strawberry Aphid, Tarnished	11/3 qts. per	Make applications when insects appear or	
 Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. Cyclamen Mite 2 ½ qts. per acre per year. Adake applications when insects appear of feeding is noticed. Thoroughly wet the foliage gals. of water stem and crown of the plant. For multiple applications, do not apply at intervals less than 35 days when fruit is present. Do not make more than 3 applications per year. 					
Cyclamen Mite 2 % qts. per acre in 400 feeding is noticed. Thoroughly wet the foliage gals. of water • For multiple applications, do not apply at intervals less than 35 days when fruit is present. • Do not make more than 3 applications per year.	· · · - · · · - · · · · · · · · ·				
 For multiple applications, do not apply at intervals less than 35 days when fruit is present. Do not make more than 3 applications per year. 		Cyclamen Mite	2 3/3 qts. per acre in 400	Make applications when insects appear or feeding is noticed. Thoroughly wet the foliage.	
Do not make more than 3 applications per year.		For multiple applications, de-		<u></u>	
Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year.					

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION		
STRAW- BERRIES (4)	Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug, Whitefly	11/3 qts. per acre	Make applications when insects appear or feeding is noticed.		
(California			rice during a 35-day period when fruit is present.		
only)	Do not make more than 3 applications per year.				
			redient (i.e., 4 qts.) per acre per year.		
	Cyclamen Mite	2 ¾ qts. per acre in 400 gals.	Make applications when insects appear or feeding is noticed. Thoroughly wet the foliage, stem, and crown of the plant. For multiple applications, do not apply at intervals less than 35 days when fruit is present.		
	Do not make more than 3 a		ar.		
			redient (i.e., 4 qts.) per acre per year.		
STRAW- BERRIES (Northwest Use Only)	Garden Symphylan (aids in reducing damage)	1⅓ qts. per 100 gals.	Mix thoroughly. Dip entire plant. When immersing bundles of plants, make certain any trapped air is forced out to assure thorough wetting of entire plant. Full personal protective equipment (PPE) requirements for applicators also apply to this dipping operation. Drain and allow plants to dry before setting them out in the field.		
SWEET CORN	Corn Leaf Aphid, Whitefly	11/3 qts. per acre	Make applications when insects appear or feeding is noticed.		
(Fresh Vegetable Use Only)	Corn Earworm	2 qts. per acre	Apply when silks first appear and continue until they begin to dry. Allow 5 days between applications.		
(1) (Except California)	 Do not apply to sweet corn to be processed. Do not feed treated forage or ensilage to livestock or allow livestock to graze in treated fields. Do not make more than 3 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. 				
SWEET CORN	Corn Leaf Aphid, Whitefly	1½ qts. per acre	Make applications when insects appear or feeding is noticed.		
(Fresh Vegetable Use Only)	Corn Earworm	2 qts. per acre	Apply when silks first appear and continue until they begin to dry. Allow 5 days between applications.		
(1)	 Do not apply to sweet corn 	to be processed.			
(California	Do not feed treated forage or ensilage to livestock or allow livestock to graze in treated fields.				
only)	Do not make more than 3 applications per year.				
	Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 gts.) per acre per year.				
SWEET POTATOES (1) (Except California)	Sweet Potato Flea Beetle, Sweet Potato Weevil	⅔ qt. per acre	Make applications when insects appear or feeding is noticed. For flea beetle control, begin applications shortly after transplanting or as soon as flea beetles appear. For sweet potato weevil control, apply in sufficient water for complete coverage. Applications may be made to transplants in the nursery and/or in the field. Repeat applications may be made as necessary. For sweet potato weevil control in a clean up program, apply at a rate of 2 ¾ qts. per acre to the soil under the sweet potato nursery beds and to the area immediately surrounding the nursery beds. Do not place the seed tubers directly on the ground treated with endosulfan.		

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION		
Except California) continued)	Whitefly	1½ qts. per acre	Make applications when insects appear or feeding is noticed.		
	Banded Cucumber Beetle Larvae (aids in control) (South Central States and Puerto Rico Only)	11/3 - 23/3 qts. per acre broadcast or 1/2 to 1 qt. per acre on a 16-inch band over the row (48-inch row spacing).	Work into the soil to a depth of approximately 3 inches. Treatment should be made just prior to plant set.		
	Do not feed cull potatoes to		livestock to graze in treated fields.		
	Do not make more than 3 a	pplications per yea			
SWEET POTATOES (1) I fornia Guy)	Sweet Potato Flea Beetle, Sweet Potato Weevil	⅔ qt. per acre	Make applications when insects appear or feeding is noticed. For flea beetle control, begin applications shortly after transplanting or as soon as flea beetles appear. For sweet potato weevil control, apply in sufficient water for complete coverage. Applications may be made to transplants in the nursery and/or in the field. Repeat applications may be made as necessary.		
	Do not feed cull potatoes to livestock or allow livestock to graze in treated fields.				
	Do not make more than 3 a				
TORACCO	Do not exceed a maximum Aphids (including Green		ngredient (i.e., 2 qts.) per acre per year. Seed Bed: Make applications when insects		
TOBACCO (5) (Except California)	Peach Aphid, Tobacco Aphid), Budworm, Cabbage Looper, Flea Beetles, Hornworms	⅔ qt. per 100 gals.	appear or feeding is noticed. Apply about 6 gals. of finished spray per 100 square yards.		
	Green June Bug Larvae	⅔ pt. per 100 gals.	Plant Bed: Make applications when insects appear or feeding is noticed. Drench at a rate of 1 gal. per square yard.		
	Aphids (including Green Peach Aphid, Tobacco Aphid), Budworm, Cabbage Looper, Flea Beetles, Green June Bug Larvae, Hornworms	3 - 1% qts. per acre	Field: Make applications when insect activity or feeding is noticed.		
	Stink Bugs	⅔ qt. per 100 gals.	Field: Make applications when insect activity or feeding is noticed.		
	Do not make more than 6 a	pplications per yea	ar _/		
			redient (i.e., 4 qts.) per acre per year.		
TOMA- TOES (Field and Green- house) (2) (Except California)	Aphid, Blister Beetle. Colorado Potato Beetle, Flea Beetle, Tomato Hornworm Cabbage Looper, Stink Bug	% - 1% qts. per acre	Make applications when insects appear or feeding is noticed.		
	Tomato Fruitworm, Tomato Russet Mite, Whitefly, Yellowstriped Armyworm	acre 1½ qts. per acre	Make applications when insects appear or feeding is noticed.		
	Whitefly	% qt. per 100 gals. of water Use 100-200 gals. of spray per acre	Make applications when insects appear or feeding is noticed. Higher spray volumes may be necessary for thorough coverage when high whitefly populations exist.		

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION	
TOMA-	Do not make more than 6 applications per year.			
TOES (Field and Green- house) (2) (Except California) (continued)	Do not exceed a maximun	n of 3 lbs: active ing	redient (i.e., 4 qts.) per acre per year.	
TOMATOES	Aphids, Blister Beetle,	3/4 - 11/4 qts. per	Make applications when insects appear or	
(Field and Green- house) (2) (California only)	Colorado Potato Beetle, Flea Beetle, Tomato Hornworm, Webworm	acre	feeding is noticed.	
	Cabbage Looper, Stink Bug	1 - 11/3 qts. per acre		
	Tomato Fruitworm, Tomato Russet Mite, Whitefly, Yellowstriped Armyworm	11/3 qts. per acre		
	Whitefly	3/4 qt. per 100 gals. Use 100-200 gals.of spray per acre	Make applications when insects appear or feeding is noticed. Higher spray volumes may be necessary for thorough coverage when high whitefly populations exist.	
	Do not make more than 6 applications per year.			
	Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year.			
WALNUTS (Except California)	Walnut Aphid	2 - 2 % qts. per	Make applications when insects appear or	
		acre	feeding is noticed. Apply in a minimum of 100 gals. Of water per acre.	
	Do not apply after husk split.			
	Do not graze livestock on orchard crops or grasses in treated areas.			
	Do not make more than 2 applications per year.			
	Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year.			

COMMERCIALLY GROWN ORNAMENTALS Grown Outdoors in Nurseries ONLY Ornamental Trees And Shrubs

Ornamental Trees And Situus				
CROP	INSECTS CONTROLLED	RATE OF	METHOD OF APPLICATION	
		APPLICATION		
DOG-	Dogwood Borer, Lilac Borer	3/4 - 11/4 qts. per	Apply in early June and repeat in 10 to 14	
WOOD,		100 gals.	days. Drench all bark areas down to the	
LILAC,		(11/3 - 21/3	ground level.	
JUNIPERS,		teaspoons per		
MAPLES		gal.)		
(Except California)	 Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. 			
DOUGLAS FIR (Grown for Ornamen- tals, Nursery Stock or Christmas	Aphids, Cooley Spruce Gall Adelgid, Douglas Fir Needle Midge	ろ qt. per 100 gals. (1分 teaspoons per gal.)	Make applications when insects appear or feeding is noticed. For control of gall adelgid, apply when white cottony tufts appear. For control of needle midge, apply in late April or early May just before buds open.	
	 Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides. 			
Trees) (Pacific Northwest Only)	Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year.			

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION	
PINES (Austrian, Jack, Red,	Zimmerman Pine Moth	1 qt. per 100 gals. (2 teaspoons per gal.)	Apply in mid-April and again, if necessary, in late fall. Thoroughly wet bark and main stem, especially where branches join main stem.	
Scotch. White) (Except California)	 Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. 			
SHADE TREES (Except	Aphids	3⁄4 qt. per 100 gals. (13⁄4 teaspoons per gal.)	Make applications when insects appear or feeding is noticed.	
Birch), SHRUBS (Except California)	 Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. 			
SHADE TREES (Except	Aphids	⅔ qt. per 100 gals. (1⅓ teaspoons per gal.)	Make applications when insects appear or feeding is noticed.	
Birch), SHRUBS (California only)	 Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. 			
SPRUCE (New England Area Only)	Spruce Gall Aphid	3/4 qt. per 100 gals. (11/4 teaspoons per gal.)	Apply in late-April or early-May when aphids are present but before galls are formed.	
	 Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. 			
TAXUS (Except California)	Taxus Bud Mite	3/3 qt. per 100 gals. (11/3 teaspoons per gal.)	Make 3 to 5 applications beginning in mid- May. Thoroughly spray foliage, twigs, and bark.	
	Black Vine Weevil	1½ qts. per 100 gals. (2¾ teaspoons per gal.)	Spray thoroughly and drench soil under the plants. Apply when the weevils first appear and repeat in 14 days.	
	 Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides. Do not exceed a maximum of 3 lbs. active ingredient (i.e., 4 qts.) per acre per year. 			

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Do not store in or around the home. Do not store below 20°F (-7°C). Do not use or store near heat, open flame, or hot surfaces. Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lid and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spills. Contact INFOTRAC: (800) 535-5053.

To confine spill: Dike surrounding area or absorb with sand, cat litter, or commercial clay. Place damaged package in a holding container. Identify contents.

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. Do not cut or weld metal containers.

WARRANTY STATEMENT

MAKHTESHIM-AGAN OF NORTH AMERICA warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of MAKHTESHIM-AGAN OF NORTH AMERICA. In no case shall MAKHTESHIM-AGAN OF NORTH AMERICA be liable for consequential, special or indirect damages resulting from the use, or handling of this product. All such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except as expressly provided herein, MAKHTESHIM-AGAN OF NORTH AMERICA makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at MAKHTESHIM-AGAN OF NORTH AMERICA's election, the replacement of this product.

CALIFORNIA SUPPLEMENTAL LABEL

PROCEDURES FOR REDUCING RISK OF CONTAMINATION OF AQUATIC ECOSYSTEMS

FOR CROP USES LISTED ON THE PRODUCT LABEL

Endosulfan may be a source of contamination in aquatic ecosystems as a result of run-off from agricultural land due to discharge of irrigation water or during periods of heavy rainfall.

To minimize the chance of aquatic impact, the following conditions must be met to allow endosulfan applications:

DIRECTIONS FOR USE (General)

IN ADDITION TO SPECIFIC INSTRUCTIONS UNDER DIRECTIONS FOR USE ON THE PRINCIPAL LABELS. THE FOLLOWING CONDITIONS MUST ALSO BE FOLLOWED FOR USE IN CALIFORNIA:

- 1. Do not apply this product to fields during irrigation or irrigate for 72 hours following an application.
- 2. Do not apply this product through any type of irrigation system.
- 3. Do not apply more than 1½ lbs. a.i./acre/application or more than 3 lbs. a.i./acre/season. (Orchard crops and strawberries exempted on rate/acre/application restriction.)
- 4. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark.
- 5. Do not apply by ground or air within a distance of 300 feet to natural bodies of water including lakes, ponds, streams, and estuaries.

FOR DRIFT CONTROL

- 1. All application equipment should be properly maintained and calibrated using appropriate carriers.
- 2. Do not make aerial or ground applications during temperature inversions.
- 3. 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 10 mph. Do not discharge at a height of more than 10 feet above the crop or target.
- 4. For aerial applications, a positive shutoff system shall be in place to control flow of liquid to spray nozzles as follows: Each individual nozzle shall be equipped with a check valve and the flow controlled by a suckback device or a boom pressure release device or each nozzle shall be equipped with a positive action valve.
- 5. For aerial applications, the spray boom must be mounted on the aircraft so as to minimize drift caused by wing tip or rotor vortices. The working boom length must not exceed 75% of wing span or rotor diameter.
- 6. Aircraft boom pressure shall not exceed 40 pounds per square inch.
- 7. Aircraft nozzles shall be equipped with orifices directed backward parallel to the horizontal axis of the aircraft in flight.
- 8. Aircraft nozzles shall not be equipped with any device or mechanism which would cause a sheet, cone, fan, or similar type dispersion of the discharged material except as otherwise provided.
- 9. Fixed wing aircraft and helicopters operating in excess of 60 mph shall be equipped with jet nozzles having an orifice not less than ¹/₁₆ inch in diameter (D-4 or larger).
- 10.Helicopters operating at 60 mph or less shall be equipped with nozzles having an orifice not less than $\frac{1}{16}$ inch in diameter. A number 46 or equivalent whirlplate may be used.
- 11. For ground applications, equipment other than handguns shall be equipped with nozzles having an orifice not less than $^{1}/_{16}$ inch in diameter or larger. Boom nozzles shall be operated at a boom pressure not to exceed 30 pounds per square inch.

READ CONTAINER LABEL FOR COMPLETE USE INSTRUCTIONS

ACCEPTABLE SITES FOR ENDOSULFAN APPLICATION

- 1. FIELDS, WITH NO DRAINS, HAVING CONTAINMENT THROUGH BERMS (able to hold irrigation water and normal rainwater), LEVEES AND NON-DRAINING CIRCULATION SYSTEMS.
- 2. FIELDS WITH DRAINS, BUT DRAINAGE FLOWS TO SUMP, FARM POND, EVAPORATION POND, OR RECIRCULATION SYSTEM WITHOUT DRAINAGE (uncontrollable overflow acceptable, e.g., 10 or 100 year flood). Only grower maintained recirculation systems without drainage are acceptable.
- 3. FIELDS WITH SURFACE DRAINS THAT NATURALLY FLOW ONTO PASTURELAND OR FALLOW FIELDS THAT HAVE NO CHANNELED DRAINAGE AND ARE AT LEAST 300 FEET LONG.

UNACCEPTABLE SITES FOR ENDOSULFAN APPLICATION

- 1. FIELDS DRAINING DIRECTLY INTO SURFACE WATERS SUCH AS STREAMS, RIVERS, LAKES, PONDS. MARSHES, BAYS, ESTUARIES, OR THE OCEAN.
- 2 FIELDS DRAINING INTO SURFACE DRAINAGE DITCHES OR CANALS THAT FLOW DIRECTLY INTO SURFACE WATERS SUCH AS STREAMS, RIVERS, LAKES, PONDS, MARSHES, BAYS, ESTUARIES, OR THE OCEAN.

24 82

- * 3 ANY AND ALL FIELDS WITH SURFACE DRAINAGE PATTERNS IN THE MOSS LANDING DRAINAGE SYSTEM HAVING MAIN ARTERIES THAT DRAIN INTO THE ELKHORN SLOUGH (northern portion of Monterey County).
 - 4. ANY AND ALL FIELDS WITH DRAINAGE PATTERNS IN THE SAN DIEGO CREEK DRAINAGE SYSTEM HAVING MAIN ARTERIES THAT DRAIN INTO NEWPORT BAY.

ALL APPLICABLE DIRECTIONS, RESTRICTIONS, AND PRECAUTIONS ON THE EPA REGISTERED LABEL ARE TO BE FOLLOWED.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

Thionex 3EC (66222-63) (to EPA 10-21-02)