

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

FEB 24 2ma

Christie Hitchcock Registration Specialist Makhteshim Agan of North America, Inc. 4515 Falls of Neuse Road, Suite 300 Raleigh, NC 27609

SUBJECT: Applications for Pesticide Notification – Several Label Updates, Including Updated

Warranty, per Pesticide Registration Notices (PRNs) 98-10 and 2007-4

Pramitol® 1.8L EPA Reg. No. 66222-44

Application Dated June 23, 2008

Pramitol® 2.2L EPA Reg. No. 66222-45 Triflurex® HFP EPA Reg. No. 66222-46 V

Pramitol® 1.8RTU EPA Reg. No. 66222-52 V

-Applications-Dated-June-24, 2008 EPA Reg. No. 66222-62 ¥ Thionex® 50W

Application Dated August 5, 2008

Parallel® PCS EPA Reg. No. 66222-86

Application Dated July 17, 2008

Glyphogan® Herbicide EPA Reg. No. 66222-105

Application Dated August 13, 2008

Dear Ms. Hitchcock:

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRNs) 98-10 and 2007-4 for the above products. The Registration Division (RD) has conducted a review of these requests for their applicability under PRNs 98-10 and 2007-4, and finds that the actions requested fall within the scope of these PRNs. The labels submitted with the applications have been date-stamped "Notification" and will be placed in our records.

If you have any questions, please contact me directly at 703-305-6249 or Terri Stowe of my staff at 703-305-6117.

Sincerely

Linda Arrington

Lackel C. Halloman
la Arrington for Notifications & Minor Formulations Team Leader

Registration Division (7505P) Office of Pesticide Programs

Please read instructions of	United State Environmental Prote Washington, De	ection Age c 20460	ncy	Registra Amenda Other	ation	O. Approval expires 2-28-
		cation for F	esticide - Sec			
1. Company/Product Num 66222-62	ider		2. EPA Product Mar Linda Arrington	nager	3. Pro	oposed Classification
4. Company/Product (Nar Thionex 50W Insecti		*	PM#13 Registration Sup	pport Branch		None ✓ Restricted
5. Name and Address of	Applicant (Include ZIP Code)		6. Expedited Rev	veiw. In accorda	nce with	FIFRA Section 3(c)(3)
_	of North America, Inc.		(b)(i), my product	is similar or ident	NOTH	recition and labeling
4515 Falls of Neus			to: EPA Reg. No			
Raleigh, NC 27609			Li A 110g. 140		FEB 2	4 2009
Check if t	his is a new address		Product Name			
		Sect	ion - II			
Notification - Explain Explanation: Use addition	esponse to Agency letter dated		Agency let "Me Too" Other - Exp	Application.		
regulations at 40 CFR 152 156.146, and 156.156. No violation of 18 U.S.C. Sec terms of PR Notice 98-10	2.46, and with the guidance of PR N other changes have been made to . 1001 to willfully make false statem and 40 CFR 152.46, and the requiral each of the subject to enforcement action	otice 2007-4 and the labeling or the ents to EPA. I ful rements of 40 CF	requirements of EPA ne Confidential Statem ther understand that in R §§156.10, 156.140,	's regulations at 40 (ent of Formula of the f this notification/am 156.144, 156.146,	CFR §§156 is product. I ended labe	10, 156.140, 156.144, understand that it is a lis not consistent with the
		Sect	ion - III		·-···	
1. Material This Product \	Vill Be Packaged In:					
Child-Resistant Packaging Yes No * Certification must be submitted	Unit Packaging Yes √ No If "Yes" No. pe Unit Packaging wgt. contai	er If "Yes	e wgt containe	2. Type of	Container Metal Plastic Glass Paper Other (S	pecify)
3. Location of Net Conten	ts Information 4. Size(s) Retail Contair	·	5. Location of La	pel Directio	ns
✓ Lebei) lbs or less; me		on label		
6. Manner in Which Label	is Affixed to Product	ithograph Paper glued Stenciled	√ Othe	Self-adhesive		
		Secti	on - IV			£ C 7
1. Contact Point (Comple	te items directly below for identif	fication of indivi	dual to be contacted,	if necessary, to pr	ocess this	application.)
Name Christie Hitchcock		Title Regulato	ry Specialist		Teléphilie 919-256-	(No. (Include Area Code)
I certify that the sta	Cert	tification n and all attachr	nents thereto are tru	e, accurate and co		6. Date Application Received as

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowlingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

3. Title

5. Date

Regulatory Specialist

08-05-08

hustie Bitchwek

2. Signature

4. Typed Name

Christie Hitchcock

(Stamped)



August 5, 2008

Document Processing Desk (NOTIF) Registration Division (7504P) OPP, USEPA Ariel Rios Building 1200 Pennsylvania Ave, NW Washington DC 20460

Re:

Thionex 50W Insecticide, EPA Reg. No. 66222-62

Notification per PRN 98-10 and 2007-4

To Whom It May Concern:

We are notifying the Agency of several label updates as allowed in PR Notices 98-10 and 2007-4. The changes are summarized below:

- Added a voluntary marketing statement about use of an adjuvant (allowed per PRN 98-10, §II(N)(3))
- Updated container disposal instructions per PRN 2007-4

In support of this submission, the following documents are attached:

- Application for Pesticide Registration (EPA Form 8570-1)
- One copy of final printed labeling

Please contact me at 919-256-9342 or by email at chitchcock@manainc.com if you have any questions regarding this submission or would like a copy of the annotated label showing the changes for your files.

Sincerely,

Christie Hitchcock Registration Specialist

Enclosures

RESTRICTED USE PESTICIDE

Due to acute toxicity to humans, aquatic organisms, and avian species. 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.

THIONEX® 50W

NOTIFICATION

INSECTICIDE

FEB 2 4 2009

Not for use or storage in or around residential sites-See DIRECTIONS FOR USE/GENERAL **INSTRUCTIONS** for prohibited areas

> For Agricultural or Commercial Use Only (Wettable Powder in Water Soluble Bags)

ACTIVE INGREDIENT	%	BY WT.
Endosulfan: (Hexachlorohexahydromethano-2,4,3-benzodioxathiepin-3-oxide)		50.0%
INERT INGREDIENTS:		50.0%
	TOTAL	100.0%

EPA Reg. No. 66222-62

EPA Est. No.



Manufactured for:

Makhteshim Agan of North America, Inc. 4515 Falls of Neuse Rd, Suite 300 Raleigh NC 27609

NET CONTENTS:

POUNDS

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:	Call a poison control center or doctor immediately for treatment advice. Live person sin a close of water if able to everylless.		
	 Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. 		
	Do not give anything by mouth to an unconscious or convulsing person.		
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes.		
	Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.		
	Call a poison control center or doctor for treatment advice.		
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	Take off contaminated clothing.		
CLOTHING:	Rinse skin immediately with plenty of water for 15-20 minutes.		
	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. Probable mucosal damage may contraindicate the use of gastric layage.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Fatal if swallowed. Corrosive. Causes irreversible eye damage. May be fatal if inhaled. Harmful if absorbed through skin. Do not get in eyes or on clothing. Do not breathe dust or spray mist. Avoid contact with skin. Do not contaminate food or feed. Keep out of reach of domestic animals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some of the materials that are chemical-resistant to this product are any waterproof material such as butyl rubber, neoprene rubber, nitrile rubber, polyethylene, and polyvinylchloride. If you want more options, follow the instructions for category *A* on an EPA chemical-resistance category selection chart.

All handlers except those using engineering controls must wear:

 A respirator with 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 prefix TC-14G), or a NIOSH approved respirator with an (OV) cartridge or canister with any R, P, or HE prefilter.

IN ADDITION:

Handlers supporting or using high pressure handwand equipment and flaggers must wear:

- Coveralls over long sleeved shirt and long pants
- · Chemical-resistant footwear plus socks
- Chemical-resistant gloves (except for flagging)
- · Goggles or face shield
- Chemical-resistant headgear when exposed overhead
- Chemical-resistant apron when mixing and loading

All other handlers must wear:

- Long-sleeved shirt and long pants
- Socks and shoes
- · Goggles or face shield
- Chemical-resistant gloves except for applicators using enclosed cabs or cockpits
- Chemical-resistant headgear when exposed overhead
- Chemical-resistant apron when mixing and loading, applying dips, cleaning up spills, or cleaning/repairing equipment
- · A respirator of the type specified above for all handlers except for those using engineering controls

See engineering controls for additional requirements.

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

ENGINEERING CONTROL STATEMENT:

Water-soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard (WPS) for Agricultural Pesticides [40 CFR 170.240(d)(4)].

Mixers and loaders using water-soluble packets must:

- -wear long-sleeved shirt, long pants, shoes, socks, chemical-resistant gloves, and chemical-resistant apron,
- -wear protective eyewear (face shield or goggles, and
- -be provided and have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown; chemical resistant footwear, and the type of respirator specified in the PPE.

Applicators using airblast equipment on all crops except ornamental trees and shrubs must use an enclosed cab that meets the definition of the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, such applicators must:

- -wear the personal protective equipment required in the PPE section of this labeling,
- -either wear the type of respirator specified in the PPE section of this labeling or use an enclosed cab that is declared in writing by the manufacturer or by the government agency to provide at least as much respiratory protection as the type of respirator specified in the PPE section of this labeling.
- -be provided and must have immediately available for use in an emergency when they must exit the cab in the treated area; coveralls, chemical-resistant gloves, chemical-resistant footwear, chemical-resistant headgear if overhead exposure, and if using an enclosed cab that provides respiratory protection, a respirator of the type specified in the PPE section of this labeling,
- -take off any PPE that was worn in the treated area before reentering the cab, and
- -store all such PPE in a chemical resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(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/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates, and toxic to birds, and mammals. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. See **Requirements for Reducing Spray Drift** section of this label under "Directions for Use." Do not contaminate water when disposing of equipment wash waters or rinsate. 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.

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.

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.

CHEMIGATION STATEMENT: Do not apply this product through any type of irrigation equipment.

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).

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
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

Notify workers of the application by warning them orally and by posting warning signs at the entrances to treated areas.

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

Not for use or storage in or around residential sites, including homes, non-agricultural outbuildings, non-commercial greenhouses, pleasure boats, recreational vehicles, preschools, day care centers, and applications to humans and pets.

Spraying Instructions

Do not use high pressure hand wand equipment except for bark treatment. If using high pressure hand wand equipment or Right-of-Way sprayers, reduce the maximum rate of application to 0.005 lb. active ingredient per gallon.

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 5 gallons 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. When applying 4 pounds or more of Thionex 50W, mix in a minimum of 10 gallons of water.

Mixing Instructions

1.0

Thionex 50W, a wettable powder formulation of the insecticide endosulfan, is individually packaged in one-pound units in a translucent water soluble bag contained within an outer package. Do not open the water soluble bags. Do not allow the inner bag to become wet before adding to spray or nurse tank. Do not handle the inner bag with wet hands or wet gloves. Rough handling may cause breakage. Do not store at temperatures below 32°F (0°C). Allow to warm above 50°F (10°C) before normal use. Cooler water temperatures increase the time needed for the inner bag to dissolve completely.

This product is intended for dilution with water for spray application. Do not use strainers finer than 50-mesh size. Determine the number of water soluble bag(s) to make up necessary spray suspension. Where dosages are expressed as fractions of pounds, prepare the tank mix to the lower of the nearest whole package. Use a minimum spray volume of 5 gallons of water per acre. Fill the spray or nurse tank ½ full with water. Open the outer wrapper of this product and immediately dump required contents into spray tank. If possible, direct the fill water over the top of the packets. Allow the water soluble bag(s) to dissolve completely. Depending on the water temperature and agitation, the packets should be completely dissolved within approximately 3 to 5 minutes from the time they were added to the spray tank. Start hydraulic or mechanical agitation. Air agitation is not recommended. Mix thoroughly to fully disperse and suspend the wettable powder. Fill the spray tank with the required amount of water. Once the water soluble packets have dissolved, add other products following conventional mixing order practices. Maintain agitation during storage in nurse or supply tank or application.

Note: Each bag contains 1.0 pound of formulated product, which is equivalent to 0.5 pound active ingredient.

When an adjuvant is to be used with this product, Makhteshim Agan of North America, Inc. suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

Requirements for Reducing Spray Drift

Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals. A 30 ft. vegetative buffer strip must be maintained between all areas treated with this product and rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries, and commercial fish ponds.

For ground boom applications, do not apply within 100 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries, and commercial fish ponds. Apply with nozzle height no more than 4 feet above the ground or crop canopy and when wind speed is 10 mph or less at the application site as measured by an anemometer. Use medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles.

For airblast applications, do not apply within 100 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries and commercial fish ponds. Direct spray above trees/vines and turn off outward pointing nozzles at row ends and outer rows. Apply only when wind speed is 3-10 mph at the application site as measured by an anemometer outside of the site on the upwind side.

For aerial applications, do not apply within 300 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries, and commercial fish ponds. The boom width must not exceed 75% of the wingspan or 90% of the rotary blade. Use upwind swath displacement and apply only when wind speed is 3 – 10 mph as measured by an anemometer. Use medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or the crop canopy.

The applicator also must use all other measures necessary to control drift.

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 name.

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION		
ALMONDS (58)	(Early infestion of): Peach twig borers	4 lbs. per acre	SPECIFIC DIRECTIONS: Apply during Popcorn, pink, or petal fall for control of early season infestation. Use in a minimum of 200 gals. of water per acre (dilute) or in 40 gals. per acre (concentrate). For areas less than 1 acre, use 1 lb per 100 gals. of water.		
	Do not graze livestock on orch animals.	ard crops or grasses in	treated areas. Treated hulls may be fed to livestock and dairy		
	Do not make more than 1 appli	•	/Alle gradual gradual		
	 Do not exceed a maximum of 2 For airblast application, the use 		(4 lbs. product) per acre per season. ired.		
	Aerial application of this product Postricted Entry Interval (REI)				
	 Restricted-Entry Interval (REI) A 30-foot vegetative buffer stri 	p must be maintained t	petween all areas treated with this product and rivers, natura		
	ponds, lakes, streams, reservo	irs, marshes, estuaries a	and commercial fish ponds.		
	100 feet of rivers, natural pond as a directed spray to foliage.	ls, lakes, streams, rese If using airblast, turn of	rtebrates and toxic to birds and mammals. Do not apply within rvoirs, marshes, estuaries, and commercial fish ponds. Apply foutward pointing nozzles at row ends and outer rows. Apply te as measured by an anemometer outside the orchard on the		
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)	1 lb./ 100 gals. or a maximum of 5 lbs. 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 1½ lbs. per 100 gals. to control Apple Aphid and Rosy Apple Aphid. For control of Tentiform Leafminer make first application as soon as moth flight begins. A second application should be made 10 days later.		
	Do not apply by air				
	 Do not feed pomace from treated apples to livestock. Do not feed cull fruits to animals or allow livestock to graze in treated orchards. 				
	Do not make more than 2 applications during the fruiting period.				
	Do not make more than 3 applications per season. Do not exceed a maximum of 2.5 lbs, active ingredient (i.e., 5 lbs, of product) per season.				
	 Do not exceed a maximum of 2.5 lbs. active ingredient (i.e., 5 lbs. of product) per acre per season. Exception for airblast application to apples: when application using enclosed-cab airblast equipment is not feasible in apple orchards, applicators are permitted to use open-cab airblast equipment PROVIDED they are wearing chemical resistant headgear AND maximum PPE clothing (i.e., baseline clothing plus organic vapor respirator, coveralls over long sleeved shirt and long pants, chemical resistant gloves, chemical resistant shoes plus socks; and goggles or face shield). Restricted-Entry Interval (REI) of 4 days. 				
APPLES (30) (California only)	Aphids (including Apple Aphid, Rosy Apple Aphid, Woolly Apple Aphid), Apple Rust Mite, White Apple Leafhopper (first generation)	1 lb./100 gals. or a maximum of 5 lbs. 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 1½ lbs. per 100 gals. to control Apple Aphid and Rosy Apple Aphid.		
	Do not apply by air				
	 Do not feed pomace from treated apples to livestock. Do not feed cull fruits to animals or allow livestock to graze in treated orchards. 				
	Do not make more than 2 applications during the fruiting period.				
	 Do not make more than 3 applications per season. Do not exceed a maximum of 2.5 lbs. active ingredient (i.e., 5 lbs. of product) per acre per season. 				
	 Exception for airblast application in apple orchards, applicators chemical resistant headgear A coveralls over long sleeved sh and goggles or face shield). 	on to apples: when appli- are permitted to use a AND maximum PPE clo- irt and long pants, cher	ication using enclosed-cab airblast equipment is not feasible open-cab airblast equipment PROVIDED they are wearing othing (i.e., baseline clothing plus organic vapor respirator, mical resistant gloves, chemical resistant shoes plus socks;		
APRICOTS	Restricted-Entry Interval (REI) Peachtree Borer, Lesser	1½ lbs./100 gals. or	Best control is obtained with a single application post-		
(21), NECTAR- INES (21), PEACHES (21) (Except	Peachtree Borer	4-5 lbs. per acre; Pacific Northwest: 1- 1½ lbs./100 gals.; Southeastern: 3-5	harvest after the leaves have dropped. Spray all bark areas from ground level to lower scaffold limbs.		
PEACHES (21)					

	Do not apply by air. Do not feed cull fruits to animal Do not make more than 2 appli Do not exceed a maximum of 2 For airblast applications the use Restricted-Entry Interval (REI) of	cations per season. .5 lbs. active ingredient e of a closed cab is requ	(i.e., 5 lbs. of product) per acre per season.
APRICOTS (30), NECTAR- INES (30), 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 Mite, Peach Twig Borer	1 lb./100 gals. or a maximum of 4- 5 lbs. per acre	Make applications when insects appear or feeding is noticed.
	 Do not apply by air. Do not feed cull fruits to animal Do not make more than 2 appli 	cations per season. .5 lbs. active ingredient e of a closed cab is requ	(i.e., 5 lbs. of product) per acre per season.
APRICOTS (30), NECTAR- INES (30), PEACHES (30) (California only)	Aphids (including Black Cherry Aphid, Black Peach Aphid, Green Peach Aphid, Rusty Plum Aphid), Catfacing Insects (Stink Bug type), Peach Silver Mite, Peach Twig Borer	1 lb./100 gals. or a maximum of 4- 5 lbs. per acre	Make applications when insects appear or feeding is noticed.
	Do not apply by air. Do not feed cull fruits to animal Do not make more than 2 appli Do not exceed a maximum of 2 For airblast applications the use Restricted-Entry Interval (REI) of	cations per season. .5 lbs. active ingredient e of a closed cab is requ	(i.e., 5 lbs. of product) per acre per season.
BLUE- BERRIES	Blueberry Bud Mite	3 lbs. per acre in 300 gals.	Apply immediately after harvest and repeat 6 to 8 weeks later.
(Except California)	Do not apply by air Do not apply after buds are wel Do not make more than 2 appli Do not exceed a maximum of 1 Restricted-Entry Interval (REI) of	cations per season. .5 lbs. active ingredient	(i.e., 3 lbs. of product) per acre per season.
BROCCOLI (7), BRUSSELS SPROUTS (14), CABBAGE (7),	Cabbage Aphid, Cabbage Looper, Cross-striped Cabbageworm, Diamondback Moth Larvae, Flea Beetle, Harlequin Bug, Imported Cabbageworm, Leafhopper, Stink Bug	1½ -2 lbs. per acre	Make applications when insects appear or feeding is noticed.
CAULI- FLOWER (14), KOHLRABI (7) (Except California)	Armyworm, Cutworm, Whitefly Do not make more than 2 applie	lbs. active ingredient (i.	e., 4 lbs. of product) per acre per season.
BROCCOLI (7), BRUSSELS SPROUTS (14),	Cabbage Aphid, Cabbage Looper, Cross-striped Cabbageworm, Diamondback Moth Larvae, Flea Beetle, Harlequin Bug, Imported Cabbageworm, Stink Bug	1½ -2 lbs. per acre	Make applications when insects appear or feeding is noticed.
CABBAGE (7), CAULI- FLOWER (14), KOHLRABI (7) (California only)	Armyworm, Cutworm, Whitefly Do not make more than 2 applie	lbs. active ingredient (i.	e., 4 lbs. of product) per acre per season.

CELERY (4)	Green Peach Aphid, Cabbage	1-2 lbs. per acre	Make application when insects appear or feeding is		
(Except	Looper, Leafhopper		noticed.		
California)	Armyworm, Flea Beetle, Whitefly	2 lbs. per acre			
	Do not make more than one ap				
			, 2 lbs. of product) per acre per season.		
OFLEDY (4)	Restricted-Entry Interval (REI)		I Made and in the investment of the investment o		
CELERY (4) (California only)	Green Peach Aphid, Cabbage Looper	1-2 lbs. per acre	Make application when insects appear or feeding is noticed.		
(Camorina Only)	Flea Beetle, Whitefly	2 lbs. per acre	noticed.		
	Do not make more than one ap				
			, 2 lbs. of product) per acre per season.		
	Restricted-Entry Interval (REI)		, 2 lbs. of product) per acre per season.		
CELERY (7)	Green Peach Aphid	1lb. per acre	Make applications when insects appear or feeding is		
(Except		1.0. po. 00.0	noticed.		
California)	Do not make more than 2 appli	cations per season.			
	Do not exceed a maximum of 1	lb. äctive ingredient (i.e.	, 2 lbs. of product) per acre per season.		
	Restricted-Entry Interval (REI)	of 4 days			
CELERY (7)	Green Peach Aphid	1lb. per acre	Make applications when insects appear or feeding is		
(California only)		<u></u>	noticed.		
	Do not make more than 2 appli				
			, 2 lbs. of product) per acre per season.		
	Restricted-Entry Interval (REI)				
CHERRIES	Black Cherry Aphid, Plum Rust	1 lb./ 100 gals. or 4-	Make applications when insects appear or feeding is		
(21) (California	(Nursery) Mite	5 lbs. per acre	noticed.		
only)	Do not apply by air. Do not feed cull fruits to anima	lo or allow livestock to are	are in treated evaluated		
	 Do not feed cull fruits to anima Do not make more than 2 appli 		ize in treated orchards.		
			i e 5 lhe of product) par acre per season		
	For airblast applications the use	 Do not exceed a maximum of 2.5 lbs. active ingredient (i.e., 5 lbs. of product) per acre per season. For airblast applications the use of a closed cab is required. 			
	Restricted-Entry Interval (REI)		ou.		
CHERRIES	Peachtree Borer, Lesser	1½ lbs./100 gals. or	Best control is obtained with a single application post-		
(21)	Peachtree Borer	4-5 lbs. per acre;	harvest after the leaves have dropped. Spray all bark		
(Except		Pacific North-west: 1-	areas from ground to lower scaffold limbs.		
California)		1½ lbs./100 gals.			
	BI I O	4 11 / 400			
	Black Cherry Aphid, Green Fruitworm, Plum Rust (Nursery)	1 lb./ 100 gals. or 4- 5 lbs. per acre	Make applications when insects appear or feeding is noticed.		
	Mite	5 ibs. per acre	noticed.		
	Pacific Northwest only:		For bud moth control apply at "popcorn" stage. For		
	Eye-spotted Bud Moth		leafroller control, apply during pre-pink stage of growth.		
	Fruit Tree Leafroller		,		
	Michigan Only:	2 lbs./ 100 gals. not	Apply in the delayed dormant period.		
	Mineola Moth	to exceed 5 lbs. of			
		product per acre			
	Do not apply by air.				
	Do not feed cull fruits to animals or allow livestock to graze in treated orchards.				
		Do not make more than 2 applications per season.			
	 Do not exceed a maximum of 2.5 lbs. active ingredient (i.e., 5 lbs. of product) per acre per season. For airblast applications the use of a closed cab is required. 				
	For airblast applications the use Restricted-Entry Interval (REI)		eu.		
CITRUS (Non-	Citrus Aphid	1 lb./100 gals. Or a	Make applications when insects appear or feeding is		
bearing Trees		maximum of 5 lbs.	noticed.		
and Nursery		per acre			
Stock)	Do not apply by air.				
(Except	Do not apply to bearing trees o	r trees that will bear fruit v	within twelve months.		
California)	Do not make more than 2 appli				
	Do not exceed a maximum of 2.5 lbs. active ingredient (i.e., 5 lbs. of product) per acre per season.				
	For airblast applications the use of a closed cab is required.				
	Restricted-Entry Interval (REI)				
CITRUS (Non-	Citrus Aphid	1 lb./100 gals. Or a	Make applications when insects appear or feeding is		
bearing Trees		maximum of 5 lbs.	noticed.		
and Nursery	Do not contubu cir	per acre			
Stock) (California only)	Do not apply to bearing trees of	r trace that will boar faile.	within twelve menths		
(Samorina orny)	 Do not apply to bearing trees o Do not make more than 2 appli 		within twelve months.		
			i.e., 5 lbs. of product) per acre per season.		
	For airblast applications the use				
	I - I or ampiant appropriations the not		. • • •		
·	 Restricted-Entry Interval (REI) 	of 4 davs.			

COLLARDS (21)	Aphid, Cabbage Looper, Diamondback Moth Larvae, Fall	1½ -2 lbs. per acre	Make application when insects appear or feeding is noticed.		
(Except	Armyworm, Flea Beetle, Harlequin		noticed.		
California)	Bug, Imported Cabbageworm,				
	Leafhopper	2 lbo mar acre	4		
	Whitefly Do not make more than one approximately a second content of the	2 lbs. per acre			
	•		, 2 lbs. of product) per acre per season.		
	Restricted-Entry Interval (REI)		, 2 lbs. of producty per acre per season.		
COLLARDS	Aphid, Cabbage Looper,	1½ lbs. per acre	Make application when insects appear or feeding is		
(21) (California	Diamondback Moth Larvae, Flea		noticed.		
only)	Beetle, Harlequin Bug, Imported				
	Cabbageworm, Whitefly Do not make more than one application per season.				
			(i.e., 1½ lbs. of product) per acre per season.		
	Restricted-Entry Interval (REI)		(con the control of t		
CUCUMBERS	Aphid, Cucumber Beetle,	1-2 lbs. per acre	Make applications when insects appear or feeding is		
(2), MELONS	Melonworm, Pickleworm,		noticed. For squash vine borer control, apply weekly to		
(2), PUMPKINS	Rindworm (on watermelons), Squash Beetle, Squash Bug,		flower buds, stems, and vines beginning when moths first appear.		
(2), SUMMER	Squash Vine Borer, Striped Flea		appear.		
and WINTER	Beetle				
SQUASH, (2)	Cabbage Looper, Omnivorous	2 lbs. per acre	1		
(Except	Leafroller, Whitefly	· .	<u> </u>		
California)	Do not make more than 4 appl Do not exceed a maximum of 3		e., 4 lbs. of product) per acre per season.		
	Restricted-Entry Interval (REI)		e., 4 lbs. or product) per acre per season.		
CUCUMBERS	Aphid, Cucumber Beetle,	1-2 lbs. per acre	Make applications when insects appear or feeding is		
(2), MELONS	Melonworm, Pickleworm,	·	noticed. For squash vine borer control, apply weekly to		
(2),	Rindworm (on watermelons),		flower buds, stems, and vines beginning when moths first		
PUMPKINS	Squash Beetle, Squash Bug, Squash Vine Borer, Striped Flea	a	appear.		
(2), SUMMER and WINTER	Beetle				
SQUASH (2)	Cabbage Looper, Omnivorous	2 lbs. per acre			
(California only)	Leafroller, Whitefly				
	Do not make more than 3 applications per season. Do not make more than 3 applications per season.				
	 Do not exceed a maximum of 2 lbs. active ingredient (i.e., 4 lbs. of product) per acre per season. Restricted-Entry Interval (REI) of 3 days. 				
EGGPLANT (1)	Blister Beetle, Colorado Potato	1-2 lbs. per acre	Make applications when insects appear or feeding is		
(Except	Beetle, Flea Beetle, Green	1 2 100. por 0010	noticed.		
California)	Peach Aphid, Green Stink Bug				
	Whitefly	2 lbs. per acre			
	 Do not make more than 2 applications per season. Do not exceed a maximum of 2 lb. active ingredient (i.e., 4 lbs. of product) per acre per season. 				
	 Do not exceed a maximum of 2 Restricted-Entry Interval (REI) 		, 4 lbs. or product) per acre per season.		
EGGPLANT (1)	Blister Beetle, Colorado Potato	1 lb. per acre	Make application when insects appear or feeding is		
(California only)	Beetle, Flea Beetle, Green	, io. por dore	noticed.		
,	Peach Aphid, Green Stink Bug,				
	Whitefly		<u></u>		
	 Do not make more than one application per season. Do not exceed a maximum of 0.5 lb. active ingredient (i.e., 1 lb. of product) per acre per season. 				
	Do not exceed a maximum of (Restricted-Entry Interval (REI)	,	e., 1 lb. of product) per acre per season.		
FILBERTS (1)	Filbert Aphid, Filbert Bud Mite,	1 lb./100 gals. or 3-4	Make application when insects appear or feeding is		
(Except	Filbert Leafroller	lbs. per acre	noticed.		
California)	Do not apply by air.				
	Do not graze livestock on orchard crops or grasses in treated areas.				
	Do not make more than 1 application per season.				
	 Do not exceed a maximum of 2 lbs. active ingredient (i.e., 4 lbs. of product) per acre per season. For airblast applications the use of a closed cab is required. 				
	Restricted-Entry Interval (REI)		rea.		
FILBERTS (1)	Filbert Aphid, Filbert Leafroller	1 lb./100 gals. or 3-4	Make application when insects appear or feeding is		
(California only)	,	lbs. per acre	noticed.		
	Do not apply by air.				
	Do not graze livestock on orch		eated areas.		
	Do not make more than 1 appl		All a of an dual values		
			e., 4 lbs. of product) per acre per season.		
	 For airblast applications the us Restricted-Entry Interval (REI) 		rea.		
	- Nostricted Entry Interval (NEI)	J. 2 days.			

KALE (21) (Except	Cabbage Flea Beetle, Harlequin Bug, Imported Cabbageworm	1½ lbs. per acre	Make application when insects appear or feeding is noticed.			
California)	Do not make more than one a	application per season	Hoticea.			
	Do not exceed a maximum of 0.75 lb. active ingredient (i.e., 1½ lbs. of product) per acre per season.					
	Restricted-Entry Interval (REI)					
KALE (21)	Cabbage Flea Beetle, Harlequin	1½ lbs. per acre	Make application when insects appear or feeding is			
(California only)	Bug, Imported Cabbageworm	L	noticed.			
	Do not make more than one a					
			i.e., 1½ lbs. of product) per acre per season.			
LETTUCE (14)	Restricted-Entry Interval (REI)		Make applications when insects appear or feeding is			
(Except	Cabbage Looper, Diamondback Moth Larvae, Green Peach	1½-2 lbs. per acre	noticed.			
California)	Aphid, Imported Cabbageworm,		Troubou.			
- ,	Leafhopper					
	Armyworm, Whitefly	2 lbs. per acre	<u></u>			
	On Head Lettuce: Do not exce	eed 2 applications after thir	nning. Remove wrapper leaves at harvest.			
	On Head and Leaf Lettuce: Details		plications per season.			
	Do not feed crop refuse to live					
			., 4 lbs. of product) per acre per season.			
LETTUCE (4.4)	Restricted-Entry Interval (REI)		I had a second and a second as			
LETTUCE (14) (California only)	Cabbage Looper, Diamondback Moth Larvae, Green Peach	11/2-2 lbs. per acre	Make applications when insects appear or feeding is noticed.			
(Camorna Only)	Aphid, Imported Cabbageworm		nonced.			
	Whitefly	2 lbs. per acre				
			nning. Remove wrapper leaves at harvest.			
	On Head and Leaf Lettuce: Do					
	Do not feed crop refuse to live	estock.				
			., 4 lbs. of product) per acre per season.			
	Restricted-Entry Interval (REI)					
MUSTARD	Aphid, Cabbage Looper, Diamondback Moth Larvae, Fall	1½-2 lbs. per acre	Make application when insects appear or feeding is			
GREENS (21) (Except	Armyworm, Flea Beetle,		noticed.			
California)	Harlequin Bug, Imported					
,	Cabbageworm, Leafhopper					
	Whitefly	2 lbs. per acre				
	Do not make more than one application per season.					
	 Do not exceed a maximum of 1 lb. active ingredient (i.e., 2 lbs. of product) per acre per season. 					
MUSTARD	Restricted-Entry Interval (REI) Applid Cabbaga Lagger	1½ lbs. per acre	Make application when incode appear or feeding in			
GREENS (21)	Aphid, Cabbage Looper, Diamondback Moth Larvae, Fall	1 72 lbs. per acre	Make application when insects appear or feeding is noticed.			
(California only)	Armyworm, Flea Beetle,		nonood.			
(+,,	Harlequin Bug, Imported					
	Cabbageworm, Whitefly					
	Do not make more than one a	Do not make more than one application per season.				
			i.e., 1½ lbs. of product) per acre per season.			
DEADS (7)	 Restricted-Entry Interval (REI) Green Fruitworm, Tarnished 	1 lb./100 gals. or 4-5	Make applications at white bud or petal fall when insects			
PEARS (7) (Except	Plantbug	lbs. per acre	appear or feeding is noticed.			
California)	Pear Psylla	5 lbs. per acre	Apply in a minimum of 10 gals. Of water for aerial			
			application or in 300 gals. Of water for dilute application.			
			Apply when adults are first observed or nymphs are small			
			and repeat to maintain control.			
	Pear Rust Mite, Consperse Stink	1 lb./100 gals. or 4-5	Make applications when insects appear or feeding is			
	Bug (foliar treatment)	lbs. per acre	noticed. Stink bugs must be wet by spray to obtain control.			
	Consperse Stink Bug (soil	1 lb./100 gals; 200-400	Apply to orchard floor and around trees prior to bloom.			
	treatment)	gals. Per acre	Apply to cronate moor and around need prior to bloom.			
	Pear Leaf Blister Mite	½ - 1 lb. per 100 gals.	Apply to trees as a post-harvest or dormant treatment.			
		not to exceed 5 lbs. of				
		product per acre				
	Do not apply by air.					
	Do not feed cull fruits to animals or allow livestock to graze in treated orchards.					
	Do not make more than 2 applications per season.					
			.e., 5 lbs. of product) per acre per season.			
			uired. Exception for airblast application to pears (OR, WA,			
ĺ			last equipment is not feasible in pear orchards, applicators			
	are permitted to use open-cab airblast equipment PROVIDED they are wearing chemical resistant headgear AND maximum PPE clothing (i.e., baseline clothing plus organic vapor respirator, coveralls over long sleeved shirt and					
			anic vapor respirator, coveralls over long sleeved shirt and			
	maximum PPE clothing (i.e.,	baseline clothing plus orga				
	maximum PPE clothing (i.e.,	baseline clothing plus orga gloves, chemical resistant	anic vapor respirator, coveralls over long sleeved shirt and shoes plus socks; and goggles or face shield).			

PEARS (7) (California only)	Pear Psylla	5 lbs. per acre	Apply in a minimum of 10 gals. of water for aerial application or in 300 gals. of water for dilute application. Apply when adults are first observed or nymphs are small and repeat to maintain control.
	Pear Rust Mite, Consperse Stink Bug (foliar treatment)	1 lb./100 gals. or 4-5 lbs. per acre	Make applications when insects appear or feeding is noticed. Stink bugs must be wet by spray to obtain control.
	Consperse Stink Bug (soil treatment)	1 lb./100 gals. ; 200- 400 gals. per acre	Apply to orchard floor and around trees prior to bloom.
	Pear Leaf Blister Mite	1/2 - 1 lb. per 100 gals. not to exceed 5 lbs. of product per acre	Apply to trees as a post-harvest or dormant treatment.
	For airblast applications the use Restricted-Entry Interval (REI)	lications per season. 2.5 lbs. active ingredient (se of a closed cab is requi of 4 days.	i.e., 5 lbs. of product) per acre per season. red.
PEPPERS (4) (Except California)	Armyworm, Flea Beetle, Green Peach Aphid, Hornworm, Leafhopper, Pepper Maggot	1-2 lbs. per acre	Make applications when insects appear or feeding is noticed.
	Whitefly Do not make more than 2 app Do not exceed a maximum of Restricted-Entry Interval (REI)	2 lbs. active ingredient (i.e of 2 days.	e., 4 lbs. of product) per acre per season.
PEPPERS (4) (California only)	Flea Beetle, Green Peach Aphid, Hornworm, Pepper Maggot Whitefly	1-2 lbs. per acre	Make applications when insects appear or feeding is noticed.
	Do not make more than 2 app	lications per season. 2 lbs. active ingredient (i.e	e., 4 lbs. of product) per acre per season.
PLUMS (7), PRUNES (7)	Fruittree Leafroller (Pacific Northwest Only)	1 lb./100 gals. or 4-5 lbs. per acre	Apply during pre-pink stage of growth when insects appear or feeding is noticed.
(Except California)	Aphids (including Hop Aphid, Leafcurl Plum Aphid, Thistle Aphid), Plum Rust (Nursery) Mite		For control of aphids, apply when eggs hatch during pre- bloom or petal fall. Summer applications should be made before leaves curl.
	Peach Twig Borer		Make applications when insects appear or feeding is noticed.
	Lesser Peachtree Borer, Peachtree Borer	1½ lbs./100 gals. or 4- 5 lbs. per acre; Pacific Northwest:1-1½ lbs./100 gals. or 4-5 lbs. per acre	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.
	 Do not apply by air. Do not feed cull fruits to anima Do not make more than 2 app Do not exceed a maximum of For airblast applications the use Restricted-Entry Interval (REI) 	als or allow livestock to gra lications per season. 2.5 lbs. active ingredient (se of a closed cab is requi	i.e., 5 lbs. of product) per acre per season.
PLUMS (7), PRUNES (7) (California only)	Aphids (including Hop Aphid, Leafcurl Plum Aphid, Thistle Aphid), Plum Rust (Nursery) Mite	1 lb./100 gals. or 4-5 lbs. per acre	For control of aphids, apply when eggs hatch during pre- bloom or petal fall. Summer applications should be made before leaves curl.
	Peach Twig Borer Lesser Peachtree Borer,	1-1½ lbs./100 gals. or	Make applications when insects appear or feeding is noticed. Best control is obtained with a single application post-
	Peachtree Borer Do not apply by air.	4-5 lbs. per acre	harvest after the leaves have dropped. Spray all bark areas from ground level to lower scaffold limbs.
	 Do not feed cull fruits to animals or allow livestock to graze in treated orchards. Do not make more than 2 applications per season. Do not exceed a maximum of 2.5 lbs. active ingredient (i.e., 5 lbs. of product) per acre per season. For airblast applications the use of a closed cab is required. 		
POTATOES (1) (Except California)	Restricted-Entry Interval (REI) Aphid, Armyworm, Colorado Potato Beetle, Green Stink Bug, Leaffooted Bug, Plant Bug, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Threelined Potato Beetle	1-2 lbs. per acre	Make applications when insects appear or feeding is noticed.

	European Corn Borer, Potato Psyllid	1½-2 lbs. per acre	Make applications when insects appear or feeding is noticed.	
	False Chinch Bug, Whitefly	2 lbs. per acre		
	Do not make more than 4 appl Do not exceed a maximum of Restricted-Entry Interval (REI)	2 lbs. active ingredient (i.e	e., 4 lbs. of product) per acre per season.	
POTATOES (1) (California only)	Aphid, Armyworm, Colorado Potato Beetle, Green Stink Bug, Leaffooted Bug, Plant Bug, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Threelined Potato Beetle	1-2 lbs. per acre	Make applications when insects appear or feeding is noticed.	
	European Corn Borer, Potato Psyllid	1½-2 lbs. per acre		
	False Chinch Bug, Whitefly	2 lbs. per acre		
	 Restricted-Entry Interval (REI) 	2 lbs. active ingredient (i.e of 2 days.	., 4 lbs. of product) per acre per season.	
STRAW- BERRIES (4) (Except	Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug, Whitefly	2 lbs. per acre	Make applications when insects appear or feeding is noticed.	
California)	 Do not make more than 2 appl 	ications per season. 2 lbs. active ingredient (i.e	a 35-day period when fruit is present.	
	Cyclamen Mite	2 lbs. per acre in 400 gals. of water	Make applications when insects appear or feeding is noticed. Thoroughly wet the foliage, stem, and crown of the plant.	
	 Do not make more than 2 appl 	ications per season. 2 lbs. active ingredient (i.e	nan 35-days when fruit is present.	
STRAW- BERRIES (4) (California only)	Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug, Whitefly	2 lbs. per acre	Make applications when insects appear or feeding is noticed.	
	 Do not apply by air. Do not reapply within 15 days or more than twice during a 35-day period when fruit is present. Do not make more than 2 applications per season. Do not exceed a maximum of 2 lbs. active ingredient (i.e., 4 lbs. of product) per acre per season. Restricted-Entry Interval (REI) of 5 days. 			
	Cyclamen Mite	2 lbs. per acre in 400 gals. of water	Make applications when insects appear or feeding is noticed. Thoroughly wet the foliage, stem, and crown of the plant.	
	 Do not make more than 2 appl 	ications per season. 2 lbs. active ingredient (i.e	nan 35-days when fruit is present.	
WALNUTS (Except	Walnut Aphid	3-4 lbs. per acre.	Apply in a minimum of 100 gals. of water per acre. Make application when insects appear or feeding is noticed.	
California)	 Do not apply by air. Do not apply after husk split. Do not graze livestock on orch Do not make more than 1 appl Do not exceed a maximum of a for airblast applications the us Restricted-Entry Interval (REI) 	ication per season. 2 lbs. active ingredient (i.e e of a closed cab is requi	eated areas.	
WALNUTS (California only)	Walnut Aphid	3-4 lbs. per acre.	Apply in a minimum of 100 gals. of water per acre. Make application when insects appear or feeding is noticed.	
	 Do not apply by air. Do not apply after husk split. Do not graze livestock on orch. Do not make more than 1 appl Do not exceed a maximum of 2 For airblast applications the us 	ication per season. 2 lbs. active ingredient (i.e	., 4 lbs. of product) per acre per season.	

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COMMERCIALLY GROWN ORNAMENTALS GROWN OUTDOORS IN NURSERIES ONLY Ornamental Trees And Shrubs

CROP	INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION	
DOGWOOD, LILAC, (Except	Dogwood Borer, Lilac Borer	1 lb. per 100 gals.	Apply in early June and repeat in 10 to 14 days. Drench all bark areas down to the ground level.	
California)	Restricted-Entry Interval (REI)	<u> </u>	i.e., 5 lbs. of product) per acre per season.	
DOUGLAS FIR (Grown for Ornamentals, Nursery Stock,	Aphid, Cooley Spruce Gall Adelgid, Douglas Fir Needle Midge	1 lb. per 100 gals.	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.	
or Christmas Trees) (Pacific Northwest Only)	Do not exceed a maximum of Restricted-Entry Interval (REI)		i.e., 5 lbs. of product) per acre per season.	
PINES (Austrian, Jack, Red, Scotch,	Zimmerman Pine Moth	1 lb. per 100 gals.	Apply in mid-April and again, if necessary, in late fall. Thoroughly wet bark and main stem, especially where branches join main stem.	
White) (Except California)	Do not exceed a maximum of Restricted-Entry Interval (REI)		i.e., 5 lbs. of product) per acre per season.	
SHADE TREES (Except Birch),	Aphid	1 lb. per 100 gals.	Make applications when insects appear or feeding is noticed.	
SHRUBS (Except California)	Do not exceed a maximum of Restricted-Entry Interval (REI)		i.e., 5 lbs. of product) per acre per season.	
SPRUCE (New England Area	Spruce Gall Aphid	1 lb. per 100 gals.	Apply in late April or early May when aphids are present but before galls are formed.	
Only)	 Do not exceed a maximum of 2.5 lbs. active ingredient (i.e., 5 lbs. of product) per acre per season. Restricted-Entry Interval (REI) of 4 days. 			
TAXUS (Except	Taxus Bud Mite	1 lb. per 100 gals.	Make 3 to 5 applications beginning in mid-May. Thoroughly spray foliage, twigs, and bark.	
California)	Black Vine Weevil	2 lbs. per 100 gals.	Spray thoroughly and drench soil under the plants. Apply when the weevils first appear and repeat in 14 days.	
	 Do not exceed a maximum of 2.5 lbs. active ingredient (i.e., 5 lbs. of product) per acre per season. Restricted-Entry Interval (REI) of 4 days 			
LEATHER- LEAF FERN (LEATHER	Leatherleaf Fern Borer	1 lb. per 100 gals.	Begin treatment when first larval feeding is observed in the mid-vein area at the base of the leaflets. Repeat at intervals of 2 to 3 weeks as necessary.	
HOLLY FERN) (Except California)	Do not exceed a maximum of Do not use in the greenhouse. Restricted-Entry Interval (REI)		i.e., 5 lbs. of product) per acre per season.	

STORAGE AND DISPOSAL

Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not store in or around the home.

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, fold and roll back bags, clamp and close tightly. Do not put concentrate or dilute material into food or drink containers. 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: If liquid, dike surrounding area or absorb with sand, cat litter, or commercial clay. If dry material, cover to prevent dispersal. 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:

Nonrefillable Container (flexible-bag-all weights): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable Container (rigid-fifty lbs. or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

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Nonrefillable Container (rigid-greater than fifty lbs.): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Refillable Container: Refillable container. Refill this container with endosulfan only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE), CALL INFOTRAC AT 1-800-535-5053.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following CONDITIONS, DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY.

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

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Makhteshim Agan of North America, Inc.'s election, the replacement of 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

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- 1. All application equipment should be properly maintained and calibrated using appropriate carriers.
- 2. Do not make aerial or ground applications during temperature inversions.
- 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.
- 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 1/18 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.
- 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.
- 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 50W (66222-62)(EPA app 10-31-07)(notif to EPA 08-05-08)