

PM 03

45639-194

10/7/97

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OCT -7 1997

Dr. Nang-Ly Chow
AgrEvo USA Company
2711 Centerville Road
Wilmington, DE 19808

Dear Dr. Chow:

Subject: Amendment- Delete unsupported crops including
Alfalfa, Artichokes, Peas, Safflower,
Sugar Beets and Sunflowers.
Phaser 50WSB Insecticide
EPA Registration Number 45639-194
Your submission dated October 1, 1997

The amendment referred to above, submitted in connection with a registration under FIFRA section 3(c)(7)(a), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a) Regarding the Small Grains use retention, please note that no Agency decision has been reached yet regarding your response on overdue data requirements on behalf of the Endosulfan Task Force. This letter is not to be construed as a determination by the Agency regarding the acceptability of your proposed actions or schedules.
 - b) Because this current label submission does not include the tablespoon per single gallon directions in the Commercially Grown Ornamentals section, you may delete "Food utensils such as tablespoons or measuring cups must not be used for food purposes after use in measuring pesticides." from the Hazards to Humans and Domestic Animals section.

- c) Delete the heading PHYSICAL OR CHEMICAL HAZARDS and its associated text, since this is not appropriate for this wettable powder formulation.
- d) In the directions for Barley, Oats, Rye and Wheat, the Agency questions the **Method of Application** entry for Army cutworms. This product is a water soluble bag, yet the directions call for use of crop oil rather than water. Will the water soluble film dissolve correctly in crop oil? Please document or revise the directions to indicate water. Also, no timing for control of this pest is given in the current directions.
- e) The NOTES that appear under each crop directions apply to all uses for that crop. You may wish to add a statement to that effect in the General Instructions. Also, delete "All uses:" from the NOTES for Barley, Oats, Rye, Wheat; Broccoli, Brussel Sprouts, Cabbage, Cauliflower; Cotton; Cucumbers, Melons, Summer and Winter Squash; Pecans; Tobacco; and Tomatoes. Inconsistent use of this introduction could lead a user to believe that the NOTES for all other crops only pertain to the last pest in a given group of directions for a specific crop. Alternatively, you may elect to add "All uses:" at the beginning of each crop's NOTES (for Lettuce "All uses:" would have to appear after the specific NOTES for Head Lettuce and Leaf Lettuce).
- f) For the group Apricots, Nectarines, and Peaches, relocate "100 gals." from the **Method of Application** column back to the Rate of Application column directly under "1 to 1 1/2 lbs. per".
- g) For the crop Strawberries, revise the third sentence in the **Method of Application** for Cyclamen mite to read "For multiple applications, do not apply at intervals less than 35 days during the fruiting period."
- h) For the crop Sweet Potatoes, there is are two errors in the **Method of Application** column. The entry for the pest Whitefly should read "Make applications when insects appear or feeding is noticed." The entry for Sweet Potato flea beetle and Sweet potato weevil should be all of the present entry without the line separating "as soon as flea beetles appear" and "For sweet potato weevil control, apply in sufficient water for com-". Please note required addition of hyphen after "com".

4. Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Sincerely,

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

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AGREVO®

Phaser® 50WSB

INSECTICIDE

For Agricultural or Commercial use Only

NOT FOR USE IN CALIFORNIA

ACCEPTED
with COMMENTS
in EPA Letter Dated

OCT - 7 1997

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
45639-194



Specimen Label

ACTIVE INGREDIENT:
Endosulfan (hexachlorohexahydromethano-
2,4,3-benzodioxathiepin-3-oxide) 50.0%



INERT INGREDIENTS:** 50.0%

TOTAL 100.0%

EPA Reg. No. 45639-194

KEEP OUT OF REACH OF CHILDREN

DANGER — PELIGRO
POISON

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

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center immediately. Vomiting should be induced only under medical supervision. Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger, or by giving 1 ounce of syrup of ipecac, if available. If person is unconscious or convulsing, do not give anything by mouth and do not induce vomiting.

IF INHALED: Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention.

IF ON SKIN: Remove contaminated clothing and wash with soap and water. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

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.

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IN CASE OF MEDICAL EMERGENCIES OR HEALTH AND SAFETY INQUIRIES, OR IN CASE OF FIRE, LEAKING, OR DAMAGED CONTAINERS, INFORMATION MAY BE OBTAINED BY CALLING 800-228-5635, EXT. 202.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
(AND DOMESTIC ANIMALS)
DANGER

Fatal if swallowed or inhaled. Harmful if absorbed through skin. Causes moderate eye irritation. Do not breathe dust or spray mist. Avoid contact with skin, eyes, or clothing. Do not contaminate food or feed. Keep out of reach of domestic animals. Food utensils such as tablespoons or measuring cups must not be used for food purposes after use in measuring pesticides.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and Other Handlers Must Wear:

- Coveralls over short-sleeved shirt and short pants.
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- A respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).
- Add a chemical-resistant apron when cleaning equipment, mixing or loading

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, or 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 OR CHEMICAL HAZARDS

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

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Do not store in or around the home or store near heat, open flame, or hot surfaces.

Keep out of reach of children and animals. Store in original containers only. Store in 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. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill: Avoid contact, isolate the area, and keep out animals and unprotected persons.

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 pesticides, 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: When all water soluble bags have been used, the empty outer bag should be disposed of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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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.

Do not apply this product through any type of irrigation system.

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 intervals. 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 involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls over short-sleeved shirt and short pants; waterproof gloves; chemical-resistant footwear plus socks; protective eye-wear; chemical-resistant headgear for overhead exposure.

DIRECTIONS FOR USE OF WATER SOLUBLE BAGS

PHASER® 50WSB Insecticide is a wettable powder formulation individually packaged in 1-pound units in a translucent bag contained in an outer package.

DO NOT OPEN 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.

RESEAL OUTER BAG TO PROTECT REMAINING INNER BAG(S).

Fill the spray tank with one-half of the total amount of water to be used. Open the outer wrapper of each product container to be used. Immediately dump the required number of bags into the spray tank.

Determine the total amount of PHASER 50WSB Insecticide to be added to the spray tank, based on the rates in the crop recommendations. For each pound of wettable powder to be added to the spray tank, use one 1-pound bag. For example, if it is determined that 10 pounds of PHASER 50WSB Insecticide should be added to the spray tank, add ten 1-pound bags. Where rates are expressed as fractions of pounds, prepare the tank load to the lower of the nearest whole pound.

Operate the agitator while mixing. Cooler water temperatures increase the time needed to completely dissolve the bags. Mix thoroughly to fully disperse and suspend the wettable powder. Maintain agitation during storage in nurse or supply tank, and during application.

PHASER 50WSB Insecticide is compatible with most commonly used pesticides and liquid fertilizers. However, the water-soluble bags must be completely dissolved before adding any other products. Do not use PHASER 50WSB Insecticide in a tank mix with products containing boron, chromium, or other micronutrients.

THIS PRODUCT IS NOT INTENDED FOR USE IN CALIFORNIA. FOR CALIFORNIA, USE PHASER 50WSB INSECTICIDE FOR USE IN CALIFORNIA.

GENERAL INSTRUCTIONS

Not for use or storage in or around the home.

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. When applying 4 pounds or more of 50% PHASER 50WSB Insecticide, mix in a minimum of 10 gallons of water.

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

**OBSERVE DAYS INTERVAL BETWEEN LAST APPLICATION AND HARVEST
INDICATED BY NUMBER IN () FOLLOWING THE CROP NAME.**

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APPLES (21)

Insects Controlled	Rate of Application	Method of Application
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. per 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 1 1/2 lb/100 gals. to control apple aphid and rosy apple aphid.

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 year.
Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.

APRICOTS (21) NECTARINES (21), PEACHES (21)

Insects Controlled	Rate of Application	Method of Application
Peachtree borer Lesser peach-tree borer	1 1/2 lbs. per 100 gals. West Coast: 1 to 1 1/2 lbs. per Southeastern States: 3-5 lbs. per 100 gals.	Best control is obtained with a single application post-harvest. Spray all bark areas from ground level to lower scaffold limbs. 100 gals.

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 (6 lbs. 50WSB) per acre per year.

APRICOTS (30), NECTARINES (30), PEACHES (30)

Insects Controlled	Rate of Application	Method of Application
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. per 100 gals. or 4 or 5 lbs. per acre	Make applications when insects appear or feeding is noticed.

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 (6 lbs. 50WSB) per acre per year.

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BARLEY, OATS, RYE, WHEAT

Insects Controlled	Rate of Application	Method of Application
Army cutworm	1 lb. per acre	For aerial applications, apply in 2 gals. of crop oil per acre.
Cereal leaf beetle (Illinois, Indiana, Michigan, and Ohio only)	1/2 to 1 lb. per acre	Apply when small larvae are readily found in the field. For aerial applications, use a minimum of 1 to 2 gals. of water per acre.
All uses: 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 (2 lbs. 50WSB) per acre per year.		

BEANS, Succulent and Dry (except Lima Beans) (3), and SOUTHERN FIELD PEAS (Succulent type, including Black-eyed Peas, Crowder Peas and Southern Peas) (3)

Insects Controlled	Rate of Application	Method of Application
Black bean aphid Bean leaf skeletonizer Cowpea curculio Cucumber beetle Flea beetle Green stink bug Leafhopper Mexican bean beetle	1 to 2 lbs. 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 1/2 inch long.
Aphids Western bean cutworm Whitefly	2 lbs. per acre	
Do not feed treated threshings or allow livestock to graze in treated fields. Do not use on lima beans that are to be removed from the field for processing. Do not make more than 3 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

BLUEBERRIES

Insects Controlled	Rate of Application	Method of Application
Blueberry bud mite	3.0 lbs. per acre in 300 gals. of water	Apply immediately after harvest and repeat 6 to 8 weeks later.
Do not apply after buds are well formed. Do not make more than 2 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

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BROCCOLI (7), BRUSSEL SPROUTS (14), CABBAGE (7), CAULIFLOWER (14)

Insects Controlled	Rate of Application	Method of Application
Cabbage aphid Cabbage looper Cross-striped cabbageworm Diamondback moth (larvae) Flea beetle Harlequin bug Imported cabbageworm Leafhopper Stink bug	1 1/2 to 2 lbs. per acre	Make applications when insects appear or feeding is noticed.
Armyworm Cutworm Whitefly	2 lbs. per acre	
All uses: Do not make more than 4 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

CARROTS (7)

Insects Controlled	Rate of Application	Method of Application
Green peach aphid	1 to 2 lbs. per acre	Make application when insects appear or feeding is noticed.
Armyworm Flea beetle Whitefly	2 lbs. per acre	
Do not use tops for food or feed. Do not make more than 1 application per year. Do not exceed a maximum of 1 lb. active ingredient (2 lbs. 50WSB) per acre per year.		

CELERY (4)

Insects Controlled	Rate of Application	Method of Application
Green peach aphid Cabbage looper	1 to 2 lbs. per acre	Make application when insects appear or feeding is noticed.
Flea beetle Whitefly	2 lbs. per acre	
Do not make more than 1 application per year. Do not exceed a maximum of 1 lb. active ingredient (2 lbs. 50WSB) per acre per year.		

CELERY (7)

Insects Controlled	Rate of Application	Method of Application
Green peach aphid	1 lb. per acre	Make applications when insects appear or feeding is noticed.
Do not make more than 2 applications per year. Do not exceed a maximum of 1 lb. active ingredient (2 lbs. 50WSB) per acre per year.		

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CHERRIES (21)

Insects Controlled	Rate of Application	Method of Application
Peachtree borer Lesser peachtree borer	1 1/2 lbs. per 100 gals. West Coast: 1 to 1 1/2 lbs. per 100 gals.	Best control is obtained with a single application post-harvest during the first week in September. Spray all bark areas from ground level to lower scaffold limbs.
Black cherry aphid Green fruitworm Plum rust (nursery mite)	1 lb. per 100 gals. or 4 to 5 lbs. per acre	Make applications when insects appear or feeding is noticed.
Pacific Northwest only: Eyespotted bud moth Fruittree leafroller	1 lb. per 100 gals. or 4 to 5 lbs. per acre	For bud moth control, apply at "popcorn" stage. For leafroller control, apply during pre-pink stage of growth.
Michigan only: Mineola moth	2 lbs. 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 make more than 2 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

CHERRY, PEACH, PLUM NURSERY STOCK DIP

Insects Controlled	Rate of Application	Method of Application
Peachtree borer	4 lbs. per 40 gals.	Mix thoroughly. Immerse trees so that the roots and crowns are covered well above the grafting bud scar.
Plant immediately or dry before returning stock to storage.		

CITRUS (Non-Bearing Trees and Nursery Stock)

Insects Controlled	Rate of Application	Method of Application
Citrus aphid	1/2 lb. per 100 gals. or a maximum of 5 lbs. per acre	Make applications when insects appear or feeding is noticed.
Do not apply to bearing trees or trees that will bear fruit within 12 months. Do not make more than 2 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

COLLARDS (21)

Insects Controlled	Rate of Application	Method of Application
Aphids Cabbage looper Diamond moth (larvae) Flea beetle Harlequin bug Imported cabbageworm Leafhopper	1 1/2 lbs. per acre	Make application when insects appear or feeding is noticed.
Whitefly	2 lbs. per acre	
Do not make more than 1 application per year. Do not exceed a maximum of 1 lb. active ingredient (2 lbs. 50WSB) per acre per year.		

COTTON

Insects Controlled	Rate of Application	Method of Application
Boil weevil	1 to 3 lbs. per acre	Make applications when insects appear or feeding is noticed. Applications may be made using ground or aerial application equipment. The higher rate should be used under heavy pest pressure.
Bollworm Cabbage looper Cotton leafperforator Lygus bug Stink bug	2 to 3 lbs. per acre	
Thrips	3 lbs. per acre	
All uses Do not apply after bolls open. Do not graze dairy or meat animals in treated fields. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

CUCUMBERS (2), MELONS (2), SUMMER AND WINTER SQUASH (2)

Insects Controlled	Rate of Application	Method of Application
Aphids Cucumber beetle Melonworm Pickleworm Rindworm (on watermelons) Squash beetle Squash bug Squash vine borer Striped flea beetle	1 to 2 lbs. per acre	Make applications when insects appear or feeding is noticed. For squash vine borer control, apply weekly to flower buds, stems, and vines beginning when moths first appear.
Cabbage looper Omniverous leafroller Whitefly	2 lbs. per acre	
All uses: Do not make more than 6 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

EGGPLANT (1)

Insects Controlled	Rate of Application	Method of Application
Blister beetle Colorado potato beetle Flea beetle Green peach aphid Green stink bug	1-2 lbs. per acre	Make applications when insects appear or feeding is noticed.
Whitefly	2 lbs. per acre	
Do not make more than 2 application per year. Do not exceed a maximum of 1 lb. active ingredient (2 lbs. 50WSB) per acre per year.		

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FILBERTS (1)

Insects Controlled	Rate of Application	Method of Application
Filbert aphid Filbert leafroller	1 lb. per 100 gals. or 3 to 4 lbs. per acre	Make applications when insects appear or feeding is noticed.
Do not graze livestock on orchard crops or grasses in treated areas. Do not exceed 2 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

GRAPES (7)

Insects Controlled	Rate of Application	Method of Application
Grape leafhopper Grape phylloxera (leaf form) Rose chafer	1 lb. per 100 gals. or 2 to 3 lbs. per acre	Make applications when insects appear or feeding is noticed.
Do not use on Baco No. 1, Baco Noir, Concord, Seibel 7053 (Chancellor), Seibel 8357 (Colobel), Seibel 13053 (Cascade) varieties of grapes as severe injury is likely to occur. Do not make more than 3 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

KALE (21)

Insects Controlled	Rate of Application	Method of Application
Cabbage flea beetle Harlequin bug Imported cabbageworm	1½ lbs. per acre	Make application when insects appear or feeding is noticed.
Do not make more than 1 application per year. Do not exceed a maximum of ¾ lb. active ingredient (1½ lbs. 50WSB) per acre per year.		

LETTUCE (14)

Insects Controlled	Rate of Application	Method of Application
Cabbage looper Diamondback moth (larvae) Green peach aphid Imported cabbageworm	1½ to 2 lbs. per acre	Make applications when insects appear or feeding is noticed.
Armyworm Whitefly	2 lbs. per acre	
On Head Lettuce: Do not make more than 3 applications after thinning. Remove wrapper leaves at harvest. On Leaf Lettuce: Do not make more than 2 applications per year. Do not feed crop refuse to livestock. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

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MUSTARD GREENS (21)

Insects Controlled	Rate of Application	Method of Application
Aphids Cabbage looper Diamondback Moth (Larvae) Fall armyworm Flea beetle Harlequin bug Imported cabbageworm Leafhopper	1½ to 2 lbs. per acre	Make application when insects appear or feeding is noticed.
Whitefly	2 lbs. per acre	
Do not make more than 1 application per year. Do not exceed a maximum of 1 lb. active ingredient (2 lbs. 50WSB) per acre per year.		

PEARS (7)

Insects Controlled	Rate of Application	Method of Application
Green fruitworm Tarnished plant bug	1 lb. per 100 gals. or 4 to 5 lbs. per acre	Make applications at white bud or petal fall when insects appear or feeding is noticed.
Pear psylla	5 lbs. per acre	Apply in a minimum of 10 gals. of water for aerial applications, in 40 gals. of water for semi-concentrate, or in 300 gals. of water for dilute applications. Apply when adults are first observed or nymphs are small and repeat to maintain control.
Pear rust mite Conspere stink bug (foliar treatment)	1 lb. per 100 gals. or 4 to 5 lbs. per acre	Make applications when insects appear or feeding is noticed. Stink bugs must be wet by spray to obtain control.
Conspere stink bug (soil treatment)	1 lb. per 100 gals. 200 to 400 gals. per acre	Apply to orchard floor and around trees prior to bloom.
Pear leaf blister mite	½ to 1 lb. per 100 gals.	Apply as a post harvest or dormant 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 (6 lbs. 50WSB) per acre per year. NOTE: Aerial application may not result in satisfactory control and should only be employed if impossible to apply by ground.		

PECANS

Insects Controlled	Rate of Application	Method of Application
Black pecan aphid Pecan nut casebearer Spittlebug	1½ lbs. 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	1 to 1½ lbs. per 100 gals.	Apply when nymphs appear and before they are enclosed in plant tissue. For high populations, use the higher rate.
All uses: Do not apply after shuck 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 (6 lbs. 50WSB) per acre per year.		

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PEPPERS (1)

Insects Controlled	Rate of Application	Method of Application
Flea beetle Green peach aphid Hornworm Pepper maggot	1 lb. per acre	Make applications when insects appear or feeding is noticed.
Do not make more than 2 applications per year. Do not exceed a maximum of 1 lb. active ingredient (2 lbs. 50WSB) per acre per year.		

PEPPERS (4)

Insects Controlled	Rate of Application	Method of Application
Armyworm Flea beetle Green peach aphid Hornworm Leafhopper Pepper maggot	1 to 2 lbs. per acre	Make applications when insects appear or feeding is noticed.
Whitefly	2 lbs. per acre	
Do not make more than 2 applications per year. Do not exceed a maximum of 2 lbs. active ingredient (4 lbs. 50WSB) per acre per year.		

PLUMS (7) PRUNES (7)

Insects Controlled	Rate of Application	Method of Application
Fruittree leafroller (Pacific Northwest Only)	1 lb. 100 gals. or 4 to 5 lbs. per acre	Apply during pre-pink stage of growth when insects appear or feeding is noticed.
Aphids (including hop aphid, leafcurl aphid, thistle aphid) Plum rust (nursery) mite	1 lb. per 100 gals. or 4 to 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	1½ lbs. per 100 gals. or 4 to 5 lbs. per acre	Make applications when insects appear or feeding is noticed.
Lesser peachtree borer	1½ lbs. per 100 gals. or 4 to 5 lbs. per acre	Best control is obtained with a single application, post harvest. Spray all bark areas from ground level to lower scaffold limbs.
Peachtree borer	1 to 1½ lbs. per 100 gals. or 4 to 5 lbs. per acre	
Do not allow livestock to graze 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 (6 lbs. 50WSB) per acre per year.		

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POTATOES (1)

Insects Controlled	Rate of Application	Method of Application
Aphids Armyworms Colorado potato beetle Green stink bug Leaffooted bug Plant bug Potato flea beetle Potato leafhopper Potato tuberworm Threelined potato beetle	1 to 2 lbs. per acre	Make applications when insects appear or feeding is noticed.
European corn borer Potato psyllid	1 1/2 to 2 lbs. per acre	
False chinch bug Whitefly	2 lbs. per acre	
Do not make more than 6 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

PUMPKINS (1)

Insects Controlled	Rate of Application	Method of Application
Aphids Cucumber beetle Squash vine borer	2 lbs. per acre	Make applications when insects appear or feeding is noticed. For vine borer, apply to flower buds, stems, and vines beginning when moths first appear.
Do not make more than 6 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

SPINACH (21)

Insects Controlled	Rate of Application	Method of Application
Armyworm Crown Mite Flea beetle Green peach aphid Leafhopper	1 1/2 lbs. to 2 lbs. per acre	Make application when insects appear or feeding is noticed.
Whitefly	2 lbs. per acre	
Do not make more than 1 application per year. Do not exceed a maximum of 1 lb. active ingredient (2 lbs. 50WSB) per acre per year.		

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STRAWBERRIES (4)

Insects Controlled	Rate of Application	Method of Application
Meadow spittlebug Strawberry aphid Tarnished plant bug Whitefly	2 lbs. per acre	Make applications when insects appear or feeding is noticed. Do not reapply within 15 days or more than twice during a 35-day period when fruit is present.
Cyclamen mite	4 lbs. per acre in 400 gallons of water	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 day period during the fruiting season.
Do not make more than 3 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

STRAWBERRIES - Northwest Use Only

Insects Controlled	Rate of Application	Method of Application
Garden symphytan (aids in reducing damage)	2 lbs. per 100 gallons	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.
Drain and allow plants to dry before setting them out in the field.		

SWEET CORN (Fresh Vegetable Use Only) (1)

Insects Controlled	Rate of Application	Method of Application
Corn leaf aphid Whitefly	2 lbs. per acre	Make applications when insects appear or feeding is noticed.
Corn earworm	3 lbs. per acre	Apply when silks first appear and continue until they begin to dry. Allow 5 days between applications.
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 (6 lbs. 50WSB) per acre per year.		

SWEET POTATOES (1)

Insects Controlled	Rate of Application	Method of Application
Sweet potato flea beetle Sweet potato weevil	1 lb. 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.
Whitefly	2 lbs. per acre	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 necessary. For sweet potato weevil control in a cleanup program, apply at a rate of 4 lbs. 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 PHASER 50WSB.
Do not feed cull potatoes 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 (6 lbs. 50WSB) per acre per year.		

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TOBACCO (5)

Insects Controlled	Rate of Application	Method of Application
Aphids (including green peach aphid, tobacco aphid) Budworm Cabbage looper Flea beetle Hornworm	Seed Bed: 1 lb. per 100 gals.	Make applications when insects appear or feeding is noticed. Apply approximately 6 gals. of finished spray per 100 square yards.
Green june bug (larvae)	Plant Bed: ½ lb. per 100 gals.	Make applications when insects appear or feeding is noticed. Drench at a rate of 1 gal. per sq. yd.
Aphids (including green peach aphid, tobacco aphid) Budworm Cabbage looper Flea beetle Green june bug (larvae) Hornworm	Field: 1 to 2 lbs. per acre	Make applications when insect activity or feeding is noticed.
Stink bug	Field: 2 to 3 lbs. per acre 100 gals.	
All uses: Do not make more than 6 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

TOMATOES (Field and Greenhouse) (2)

Insects Controlled	Rate of Application	Method of Application
Aphids Blister beetles Colorado potato beetle Flea beetle Tomato hornworm	1 to 2 lbs. per acre	Make applications when insects appear or feeding is noticed.
Cabbage looper Stink bug	1½ to 2 lbs. per acre	
Tomato fruitworm Tomato russet mite Whitefly Yellowstriped armyworm	2 lbs. per acre	
Whitefly	1 lb. per 100 to 200 gals. of water per acre	Higher spray volumes may be necessary for thorough coverage when high whitefly populations exist.
All uses: Do not make more than 6 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

WALNUTS

Insects Controlled	Rate of Application	Method of Application
Walnut aphid	3 to 4 lbs. per acre	Make applications when insects appear or feeding is noticed.
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 (6 lbs. 50WSB) per acre per year.		

**COMMERCIALLY GROWN ORNAMENTALS
ORNAMENTAL PLANTS**

18/20

LEATHERLEAF FERN (Leather Holly Fern)

Insects Controlled	Rate of Application	Method of Application
Leatherleaf fern borer	1 lb. per 100 gallons	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.
Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

ORNAMENTALS (Greenhouse and Out-of-Doors)

Insects Controlled	Rate of Application	Method of Application
Aphids Cyclamen mite Rose chafer Whitefly	1 lb. per 100 gallons	Make applications when insects appear or feeding is noticed.
On chrysanthemums, best results will be obtained if applied before plants flower. Do not apply to "Bonnafon Deluxe", "Fred Shoemith", and "White Knight" chrysanthemums as injury may result. Do not use on Birch Trees. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

ORNAMENTAL TREES AND SHRUBS

DOGWOOD, LILAC

Insects Controlled	Rate of Application	Method of Application
Dogwood borer Lilac borer	1 to 2 lbs. per 100 gallons	Apply in early June and repeat in 10-14 days. Drench all bark areas down to the ground level.
Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

DOUGLAS FIR (Grown for Ornamentals, Nursery Stock or Christmas Trees) *Pacific Northwest Only*

Insects Controlled	Rate of Application	Method of Application
Aphids Cooley spruce gall Adelgid Douglas fir Needle midge	1 lb. per 100 gallons	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.
Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

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PINES (Austrian, Jack, Red, Scotch, White)

Insects Controlled	Rate of Application	Method of Application
Zimmerman pine moth	1½ lbs. per 100 gallons	Apply in mid-April and again, if necessary, in late fall. Thoroughly wet bark and main stem, especially where branches join main stem.
Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

SHADE TREES (except Birch), SHRUBS

Insects Controlled	Rate of Application	Method of Application
Aphids	1 lb. per 100 gallons	Make applications when insects appear or feeding is noticed.
Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

SPRUCE (New England Area Only)

Insects Controlled	Rate of Application	Method of Application
Spruce gall aphid	1 lb. per 100 gallons	Apply in late April or early May when aphids are present but before galls are formed.
Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

TAXUS

Insects Controlled	Rate of Application	Method of Application
Taxus bud mite	1 lb. per 100 gallons	Make 3 to 5 applications beginning in mid-May. Thoroughly spray foliage, twigs and bark.
Black vine weevil	2 lbs. per acre 100 gallons	Spray thoroughly and drench the soil under the plants. Apply when the weevils first appear and repeat in 14 days.
Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year.		

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