

ACCEPTED

APR - 7 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide registered under EPA Reg. No. 264-656

Phaser[®] 50WSB INSECTICIDE

For Agricultural or Commercial use Only

Not for use or storage in or around residential sites *see*
Directions For Use / General Instructions for prohibited areas.

NOT FOR USE IN CALIFORNIA

| | |
|---|---------------|
| ACTIVE INGREDIENT: Endosulfan (hexachlorohexahydromethano-2,4,3-benzodioxathiepin-3-oxide)..... | 50.0% |
| INERT INGREDIENTS:** | 50.0% |
| TOTAL | 100.0% |

EPA Reg No. 264-656

EPA Est. No. 407-IA-02



KEEP OUT OF REACH OF CHILDREN
DANGER PELIGRO
POISON



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

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

FIRST AID

| | |
|--------------------------------|--|
| IF SWALLOWED: | <ul style="list-style-type: none"> • Immediately call a poison control center or doctor for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Have person sip a glass of water if able to swallow. • Do not give anything by mouth to an unconscious person. |
| IF INHALED: | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice. |
| IF ON SKIN OR CLOTHING: | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice. |
| IF IN EYES: | <ul style="list-style-type: none"> • 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. • Call a poison control center or doctor for treatment advice. |

For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN: Endosulfan is a central nervous system stimulant absorbable by mouth, inhalation or through contact with skin. It may cause convulsions. There is no specific antidote. Diazepam I.V. is the drug of choice. Barbituric acid derivatives such as phenobarbital may be used additionally. A neuromuscular blocking agent may be used if convulsions persist. This type of drug may be used **only** if complete control of respiration can be maintained. Epinephrine derivatives are absolutely contraindicated.

This formulation contains petroleum hydrocarbons. Vomiting should be induced **only** under the direct supervision of a physician. Care should be taken to prevent aspiration because of the possibility of chemical pneumonia or pulmonary edema due to the organic solvent in the formulation.

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.

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.

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.

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 C-FR 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 eyewear; 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 residential sites, including homes, non-agricultural outbuildings, non-commercial greenhouses, recreational vehicles, preschools, day care centers, and not for applications to humans and pets.

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.**

APPLES (21)

| Insects Controlled | Rate of Application | Method of Application |
|--|---|--|
| Aphids (including Apple Aphid, Rosey 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 peachtree borer | 1 1/2 lbs. per 100 gallons or 4 to 5 lbs. per acre Pacific Northwest: 1 to 1 1/2 lbs. per 100 gals. 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. |
| 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. | | |

BARLEY, OATS, RYE, WHEAT

| Insects Controlled | Rate of Application | Method of Application |
|---|-----------------------|---|
| Army Cutworm | 1 lb. per acre | Apply when small larvae are readily found in the field. For aerial applications, use a minimum of 2 gallons of water 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. |
| 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 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. | | |

BROCCOLI (7), BRUSSELS 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 | |
| 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 applications 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 applications 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. | | |

CHERRIES (21)

| Insects Controlled | Rate of Application | Method of Application |
|---|--|---|
| Peachtree borer Lesser peachtree borer | 1 1/2 lbs. per 100 gallons or 4 to 5 lbs. per acre Pacific Northwest: 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.
Full Personal Protective Equipment (PPE) requirements for applicators also apply to this dipping operation.

CITRUS (Non-Bearing Trees and Nursery Stock)

| Insects Controlled | Rate of Application | Method of Application |
|--------------------|---|--|
| Citrus Aphid | 1 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 Diamondback Moth (larvae) Fall armyworm Flea Beetle Harlequin Bug Imported Cabbageworm Leafhopper | 1 1/2 to 2 lbs. per acre | Make applications 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 |
|---|----------------------|--|
| Boll 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 | 2 to 3 lbs. per acre | |
| Cabbage Looper | | |
| Cotton Leafperforator | | |
| Lygus Bug | | |
| Stink Bug | | |
| Thrips | 3 lbs. per acre | |
| 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 | 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. |
| Cucumber Beetle | | |
| Melonworm | | |
| Pickleworm | | |
| Rindworm (on watermelons) | | |
| Squash Beetle | | |
| Squash Bug | | |
| Squash Vine Borer | | |
| Striped Flea Beetle | | |
| Cabbage Looper | 2 lbs. per acre | |
| Omniverous leafroller | | |
| Whitefly | | |
| 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 | 1 - 2 lbs. per acre | Make applications when insects appear or feeding is noticed. |
| Colorado Potato Beetle | | |
| Flea Beetle | | |
| Green Peach Aphid | | |
| Green Stink Bug | | |
| Whitefly | 2 lbs. per acre | |
| 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. | | |

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 plant 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 | 1 1/2 lbs. per acre | Make applications when insects appear or feeding is noticed. |
| Do not make more than 1 application per year. Do not exceed a maximum of 3/4 lb. active ingredient (1 1/2 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 | 1 1/2 to 2 lbs. per acre | Make applications when insects appear or feeding is noticed. |
| Armyworm Whitefly | 2 lbs. per acre | |
| <p>On Head Lettuce: Do not make more than 3 applications after thinning. Remove wrapper leaves at harvest.</p> <p>On Leaf Lettuce: Do not make more than 2 applications per year.</p> <p>Do not feed crop refuse to livestock. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year</p> | | |

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 | 1 1/2 to 2 lbs. per acre | Make applications 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 | 1/2 to 1 lb. per 100 gals. | Apply to trees 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 | 1 1/2 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 - 1 1/2 lbs. per 100 gals. | Apply when nymphs appear and before they are enclosed in plant tissue. For high populations, use the higher rate. |
| Do not apply after shuck 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. | | |

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. per 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 | 1 1/2 lbs. per 100 gals. or 4 to 5 lbs. per acre | Make applications when insects appear or feeding is noticed. |
| Lesser Peachtree Borer Peachtree Borer | 1 1/2 lbs. per 100 gallons or 4 to 5 lbs. per acre Pacific Northwest: 1 to 1 1/2 lbs. per 100 gals. or 4 to 5 lbs. per acre | Best control is obtained with a single application, post-harvest after the leaves have dropped. Spray all bark area from ground level to lower scaffold limbs. |
| 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. | | |

POTATOES (1)

| Insects Controlled | Rate of Application | Method of Application |
|---|--------------------------|--|
| Aphids Armyworms Colorado potato beetle Green stink bug Leffooted 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 (2)

| 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 applications 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. | | |

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 days when fruit is present. |
| 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 Symphylan (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 the entire plant. |
| Drain and allow plants to dry before setting them out in the field. Full Personal Protective Equipment (PPE) requirements for applicators also apply to this dipping operation. | | |

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 | <p>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.</p> <p>For Sweet Potato Weevil control, apply in sufficient water for complete coverage. Applications may be made to transplants in the nursery and/o, in the field. Repeat applications may be made as necessary. For sweet potato weevil control in a clean-up program, apply at a rate of 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.</p> |
| Whitefly | 2 lbs. per acre | Make applications when insect activity or feeding is noticed. |

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.

TOBACCO (5)

| Insects Controlled | Rate of Application | Method of Application |
|--|---|--|
| Aphids (including green peach aphid, tobacco aphid) Budworm Cabbage looper Flea beetle Hornworm | <p>Seed Bed: 1 lb. per 100 gals.</p> | Make applications when insects appear or feeding is noticed. Apply approximately 6 gallons of finished spray per 100 square yards. |
| Green june bug (larvae) | <p>Plant Bed: 1/2 lb. per 100 gals.</p> | Make applications when insects appear or feeding is noticed. Drench at a rate of 1 gallon per sq yd. |
| Aphids (including green peach aphid, tobacco aphid) Budworm Cabbage looper Flea beetle Green june bug (larvae) Hornworm | <p>Field: 1 to 2 lbs. per acre</p> | Make applications when insects activity or feeding is noticed. |
| Stink bug | <p>Field: 2 to 3 lbs. per acre 100 gals.</p> | |

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 Beetle 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 | 1 1/2 to 2 lbs. per acre | |
| Tomato Fruitworm Tomato Russet Mite Whitefly Yellowstriped Armyworm | 2 lbs. per acre | |
| Whitefly | 1 lb. per 100 gals. of water. Use 100 to 200 gals of spray per acre. | Make applications when insects appear or feeding is noticed. Higher spray volumes may be necessary for thorough coverage when high Whitefly populations exist. |
| Do not make more than 6 applications per year. Do not exceed a maximum of 3 lbs. active ingredient (6 lbs. 50WSB) per acre per year. | | |

WALNUTS

| Insects Controlled | Rate of Application | Method of Application |
|---|--|--|
| Walnut aphid | 3 to 4 lbs. per acre (Apply in a minimum of 100 gallons of water 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
GROWN OUTDOORS ONLY**

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. | | |

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

| Insects Controlled | Rate of Application | Method of Application |
|---|----------------------------|--|
| Zimmerman Pine Moth | 1 1/2 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. | | |

IMPORTANT: READ BEFORE USE

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**Bayer CropScience LP
P.O. Box 12014, 2 T.W. Alexander Drive
Research Triangle Park, North Carolina 27709
1-866-99BAYER (1-866-992-2937)**

Phaser 50 WSB Insecticide (PENDING) Submitted 3/11/03.