

5481-549

12/5/2008

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Ms. Julie Tran  
Amvac Chemical Corporation  
4695 MacArthur Court, Suite 1250  
Newport Beach, CA 92660

DEC - 5 2008

Dear Ms. Tran:

Subject: Amendment – Response to Feb 21, 2008 letter implementing spray drift language and  
Permethrin RED risk mitigation labeling  
Ambush Insecticide  
EPA Reg. No. 5481-549  
Your submission dated August 13, 2008

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (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. In the ingredients statement, add a double asterisk after "Inert Ingredients" to refer down to a second footnote as follows: "\*\*\* Contains petroleum distillates".
  - b. In the First Aid "If swallowed" advice, replace "Have person sip a glass of water if able to swallow." with "Do not give any liquid to the person.". Also, at the bottom of the First Aid section, add a "Note to Physician" as follows "Probable mucosal damage may contraindicate the use of gastric lavage. May cause aspiration pneumonia hazard."
  - c. Revise the heading PERSONAL PROTECTIVE EQUIPMENT to read PERSONAL PROTECTIVE EQUIPMENT (PPE).

- d. Under the heading PERSONAL PROTECTIVE EQUIPMENT (PPE), after the paragraph beginning "Some materials..." add the following subheading and text (due to the fogging use for mushroom houses):

**Applicators using ULV cold foggers and/or fog/mist generators in indoor spaces must wear:**

- Coveralls over long-sleeved shirt and pants
  - Chemical-resistant gloves
  - Chemical-resistant footwear plus socks, and
  - Chemical-resistant headgear if overhead exposure
- e. Also in the PERSONAL PROTECTIVE EQUIPMENT (PPE) section, revise the next subheading to read: "**All other mixers, loaders, applicators, and other handlers must wear:**". In the last bulleted item of this subsection, delete "and for handlers performing animal dip applications" since there are no directions for such a use on this label.
- f. Add an outline box enclosing the heading USER SAFETY REQUIREMENTS and the associated two bullets.
- g. Directly under the heading DIRECTIONS FOR USE add "**RESTRICTED USE PESTICIDE**" in bold print.
- h. Under the heading "BUFFER ZONES", correct the website URL (address) for guidance to read as follows: [www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf](http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf). Also, add headings for Buffer Zones for Aerial Application (both ULV and non-ULV, if that is what your label directions permit). For all buffer zone headings, qualify the site "ponds" to read "natural ponds" and qualify "streams" to read "permanent streams".
- i. Under the heading "CHEMIGATION", delete Use Precaution "L", "Do not apply when wind speed favors drift beyond the area intended for treatment.". The appropriate spray drift precautions now appear under the heading "SPRAY DRIFT REQUIREMENTS".
- j. In the REMARKS for each crop giving the maximum rate per application and the seasonal maximum application rate, give both the ounces of formulated product and the pounds active per acre for both entries. For example, revise the entries to read "Do not apply more than X oz. of product (Y lbs. a.i.)/A per application or more than X oz. of product (Y lbs. a.i.) per acre per season". Substitute X and Y with the appropriate value for each crop.
- k. For many crops, although the "LBS AI/A" Rate was revised, the "Oz/A" Rate was not adjusted accordingly. For Broccoli, revise the "OZ/A" Rate entry to read "(3.2 – 12.8)".
- l. For Chinese Broccoli, revise the "OZ/A" Rate entry to read "(3.2 – 12.8)".
- m. For Collards, revise the "OZ/A" Rate entry to read "(3.2 – 9.6)".

bb. For Pine Seed Orchards, in the REMARKS add the following as the last item:

PROHIBITION - Harvesting of conifer seed cones is prohibited within 30 days of application.

cc. For ROSES (Greenhouse), indicate the type of application equipment (such as pump spray or power spray) and whether ULV and/or mist or fogging equipment is permitted or prohibited, since this could affect the PPE required.

dd. In the Rate Conversion chart, you may want to add 0.25 pounds active/acre and its associated conversions since this is a rate appearing for fruit tree crops and add 0.3 pounds active/acre and its associated conversions since this is a rate appearing for pistachios and for onions.

ee. For the Storage and Disposal section, include the label revisions specified by PR Notice 2007-4, which is available at [www.epa.gov/oppmsd1/PR\\_Notices/pr2007-4.pdf](http://www.epa.gov/oppmsd1/PR_Notices/pr2007-4.pdf) .

ff. In the third paragraph of the Limited Warranty and Disclaimer, add "To the extent permitted by law" before "in no event shall...".

A stamped copy of the label is enclosed for your records. Please submit three copies of the amended labeling bearing the above revisions before you release the amended label for shipment. Please note that acceptance of this amendment does not constitute reregistration of the subject product.

Sincerely,

*Dana R. Pelitt*

*for* Richard Gebken.  
Product Manager 13  
Insecticide Branch  
Registration Division (7505P)

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**RESTRICTED USE PESTICIDE**

**Due to Toxicity to Fish and Aquatic Organisms**

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.

**AMBUSH<sup>®</sup> Insecticide**

**Active Ingredient:**

Permethrin

(3-Phenoxyphenyl)methyl(±)-cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate\* ..... 25.6%

**Inert Ingredients** ..... 74.4%

**Total** ..... 100.0%

\*Cis/trans ratio: Min. 35% (±) cis and max. 65% (±) trans.

AMBUSH Insecticide contains 2 lb. active ingredient per gallon and is an emulsifiable concentrate.

**KEEP OUT OF REACH OF CHILDREN**

**WARNING - AVISO**

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.)

EPA Reg. No. 5481-549

EPA Est. No. \_\_\_\_\_

Net Contents: As Marked on Container

**FIRST AID**

<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

**EMERGENCY INFORMATION**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:

Transportation: CHEMTREC ..... 1-800-424-9300

Other: AMVAC ..... 1-323-264-3910

SEE ATTACHED BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:**

**DEC - 5 2008**

**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
5481-549**



4100 E. Washington Blvd.  
Los Angeles, CA 90023 U.S.A  
1-323-264-3910 • www.amvac-chemical.com

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**WARNING**

Harmful if swallowed or absorbed through skin. May cause eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing vapor or spray mist.

**PERSONAL PROTECTIVE EQUIPMENT**

Some materials that are chemical-resistant to this product are Barrier Laminate, Butyl Rubber, Nitrile Rubber, and Viton. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

**Mixers, loaders, applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves for all handlers except for applicators using motorized ground equipment, pilots and flaggers
- Chemical-resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate and for handlers performing animal dip applications

See engineering controls for additional requirements.

**For Mushroom House Use:**

- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

**USER SAFETY REQUIREMENTS**

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

**ENGINEERING CONTROLS**

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

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 pesticide is extremely toxic to fish and aquatic organisms, including fish and invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be

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hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

Under some conditions, it may also have a potential for transport into surface water in runoff (primarily adsorbed to suspended soil particles), for several months or more after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are actively visiting the treatment area.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

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**DIRECTIONS FOR USE**

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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.

Use of high pressure hand wand prohibited in mushroom houses.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 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
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks.

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**GENERAL PRECAUTIONS AND RESTRICTIONS**

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**BUFFER ZONES**

**Vegetative Buffer Strip**

Construct and maintain a minimum 10-foot wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing permethrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers:

*Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp.*

<http://www.in.csusda/v/technical/agronom/newconbuf.pdf>

**Buffer Zone for Ground Application (ground boom, overhead chemigation, or air blast)**

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

**SPRAY DRIFT REQUIREMENTS**

**Wind Direction and Speed**

Only apply this product if the wind direction favors on-target deposition.

Do not apply when the wind velocity exceeds 15 mph.

**Temperature Inversion**

Do not make aerial or ground applications into temperature inversions.

Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

**Droplet Size**

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

**Additional Requirements for Ground Applications**

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For air blast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

**Additional Requirements for Aerial Applications**

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

**GENERAL INSTRUCTIONS**

Apply AMBUSH Insecticide as shown in **Directions for Application**. Use sufficient water to obtain full coverage of foliage. Timing and frequency of applications should be based upon insect populations reaching economic thresholds. The higher rates may be required under conditions of heavy infestation. Do not apply more than 2.0 lbs. a.i./A per season. Crops in this label may be planted immediately after last treatment. Do not plant other crops within 60 days after last application. Any other crop may be planted if it is not harvested or grazed.

**Resistance**

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

**CHEMIGATION**

**Sprinkler Irrigation Application:** Apply AMBUSH Insecticide at rates and timing described elsewhere in this label. Apply with center pivot or continuous-move equipment distributing 1/2 acre-inch or less during treatment. If stationary (solid sets, handlines or wheel lines other than continuous-move) are used, AMBUSH Insecticide should be injected into no more than the last 20-30 minutes of the set. Do not apply when winds are greater than 10-15 mph to avoid drifts or wind skips. Thorough coverage of foliage is required for good control. Good agitation should be maintained during the entire application period.

**USE PRECAUTIONS – SPRINKLER IRRIGATION APPLICATION**

- A. Apply this product only through (sprinkler including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move) irrigation system(s). Do not apply this product through any other type of irrigation system.
- B. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- C. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- D. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- E. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- F. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
- G. The pesticide injection pipeline must also contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- H. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- I. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- J. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- K. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- L. Do not apply when wind speed favors drift beyond the area intended for treatment.
- M. Do not apply through chemigation systems connected to public water systems.

**COMMERCIAL IMPREGNATION AND APPLICATION OF AMBUSH INSECTICIDE ON DRY BULK FERTILIZER**

AMBUSH Insecticide may be impregnated on dry bulk fertilizers. When applied as directed, AMBUSH Insecticide/dry bulk fertilizer mixtures provide insect control equal to the same rate of AMBUSH Insecticide applied in water.



Bulk fertilizer impregnated with AMBUSH Insecticide should be applied immediately, not stored. The AMBUSH Insecticide/fertilizer mixtures may be surface applied or shallow incorporated. If shallow incorporated, the higher rate of AMBUSH Insecticide should be used.

Apply using a minimum of 200 lb. and a maximum of 450 lb. of dry bulk fertilizer/A with the recommended amount of AMBUSH Insecticide/A.

For impregnation of AMBUSH Insecticide on dry fertilizers, use a closed rotary-drum mixer or a similar type of closed blender equipped with suitable spray equipment. The spray nozzle (or nozzles) should be positioned inside of the mixer to provide uniform spray coverage of the tumbling fertilizer. AMBUSH Insecticide should be sprayed uniformly onto the fertilizer using a fine spray pattern.

The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with AMBUSH Insecticide provides a satisfactory dry mixture.

If the absorptive capacity is inadequate, use of a highly absorptive powder is required to provide a dry, free-flowing mixture. Micro-Cel™ E (Manville Sales Corp.) is the recommended absorbent powder. It should be added separately and uniformly to the prepared AMBUSH Insecticide fertilizer mixture in a quantity that is sufficient to provide a suitably free-flowing mixture. Generally less than 2% by weight of Micro-Cel™ E is required.

DO NOT impregnate AMBUSH Insecticide onto straight coated ammonium nitrate or straight limestone because these materials will not absorb the insecticide. Dry fertilizer blends containing mixtures of ammonium nitrate or limestone may be impregnated with AMBUSH Insecticide.

The amount of AMBUSH Insecticide actually required in the manufacture of individual fertilizer mixtures should be determined carefully for each production operation. This is necessary to ensure that the amount of AMBUSH Insecticide actually contained in the mixture applied to the soil represents the correct rate of use.

All individual state regulations relating to bulk dry fertilizer blending, registration, labeling and application of the mixtures are the responsibility of the individual and/or company selling the fertilizer and AMBUSH Insecticide mixture.

**DIRECTIONS FOR APPLICATION**

Crop	Target Pests	Rate lbs./a.i./A (oz./A)	Remarks
<b>Cole Crops – Brassica Leafy Vegetables</b>			
Broccoli	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>1</sup> Armyworm spp. Plant Bugs Thrips	0.05- 0.2 (3.2-6.4)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.2 lb. a.i./A per application or more than 0.8 lbs. a.i./A per season. Do not apply within 1 day of harvest. Please allow a minimum of 5 days between treatments.
Brussels Sprouts	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>1</sup> Armyworm spp.	0.05-0.1 (3.2-6.4)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.1 lb. a.i./A per application or more than 0.4 lbs. a.i./A per season. Do not apply within 1 day of harvest.

	Plant Bugs Thrips		Please allow a minimum of 5 days between treatments.
Cabbage	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>1</sup> Southern White Butterfly	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.2 lb. a.i./A per application or more than 0.4 (0.8 in HI) lb. a.i./A per season. Do not apply within 1 day of harvest. Please allow a minimum of 5 days between treatments.
	Armyworm spp. Cutworms Flea Beetles	0.1-0.2 (6.4-12.8)	
Cauliflower	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>1</sup> Armyworm spp. Plant Bugs Thrips	0.05-0.1 (3.2-6.4)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.1 lb. a.i./A per application or more than 0.4 (0.6 in HI) lbs. a.i./A per season. Do not apply within 1 day of harvest. Please allow a minimum of 5 days between treatments.
Chinese Broccoli <sup>2</sup> (gai lon, white flowering)	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>1</sup> Armyworm spp. Plant Bugs Thrips	0.05- 0.2 (3.2-6.4)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.2 lb. a.i./A per application or more than 0.8 lbs. a.i./A per season. Do not apply within 1 day of harvest. Please allow a minimum of 5 days between treatments.
Chinese Cabbage (Tight-heading varieties only)	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>1</sup> Southern White Butterfly	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.2 lb. a.i./A per application or more than 0.4 (0.8 in HI) lb. a.i./A season. Do not apply within 1 day of harvest. Please allow a minimum of 5 days between treatments.
	Armyworm spp. Cutworms Flea Beetles	0.1-0.2 (6.4-12.8)	
Collards (NC, SC, GA, AZ, OK, TX, AR, IL only)	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>1</sup> Beet Armyworm	0.05-0.15 (3.2-6.4)	Apply by ground equipment only. Apply in a minimum of 10 gal. of water/A. Spray using sufficient water to obtain uniform coverage. Do not apply more than 0.15 lb. a.i./A per application or more than 0.45 a.i./A per season. Do not exceed 8 applications. Do not apply within 1 day of harvest. Please allow a minimum of 3 days between

	Corn Earworm Southern White Butterfly Leafminer Leafhoppers European Corn Borer Fall Armyworm Cutworms Green Cloverworms Southern Armyworms Tobacco Budworm Vegetable Leafminer		treatments.
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**Cucurbit Vegetables**

Cucurbit Vegetables+	Leafminers and Squash Bugs Aphids	0.2 (12.8)	Apply by air or ground equipment. Apply a minimum of 4 gal. of finished spray/A by air or 20 gal. of finished spray/A with ground equipment. Do not apply more than 0.2 lb. a.i./A per application or more than 1.2 lb. a.i./A per season. AMBUSH Insecticide may be applied up to harvest. Please allow a minimum of 7 days between treatments.  Cantaloupes only – Do not apply more than 0.1 lb. a.i./A per application or more than 0.8 (1.2 in HI) lb. a.i./A per season.
	Cabbage Looper Cucumber Beetle (adults) Cutworms Melon Worm Pickleworm Plant Bugs (including Lygus and Stink Bugs) Leafhoppers Rindworms Squash Vine Borer	0.1-0.2 (6.4-12.8)	

**Fruiting Vegetables**

Eggplant	Colorado Potato Beetle	0.15 (12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain uniform coverage. Do not apply more than 0.15 lb. a.i./A per application or more than 0.6 (1.0 in HI) lbs. a.i./A per season. Do not apply within 3 days of harvest. Please allow a minimum of 7 days between treatments.
	Vegetable Leafminer Cabbage Looper Flea Beetle	0.1-0.2 (6.4-12.8)	
Peppers (Bell)	Vegetable Leafminer Cabbage Looper Flea Beetle Pepper Weevil Corn Earworm Cutworm	0.1-0.2 (6.4-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain uniform coverage. Do not apply more than 0.2 lb. a.i./A per application or more than 0.8 lbs. a.i./A per season. Do not apply within 3 days of harvest. Please allow a minimum of 5 days between treatments.
	European Corn Borer	0.2 (12.8)	

Tomatoes	Tomato Fruitworm Cabbage Looper Tomato Pinworm Vegetable Leafminer Beet Armyworm Southern Armyworm Colorado Potato Beetle Granulate Cutworm Hornworm	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain uniform coverage. Do not apply more than 0.2 lb. a.i./A per application or more than 0.6 (0.8 in HI) lbs. a.i./A per crop season. Can be applied up to the day of harvest. Please allow a minimum of 7 days between treatments.
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<b>Leafy Vegetables</b>			
Leafy Vegetables* (except Brassica)	Vegetable Leafminer Cabbage Looper Cutworm Complex Fall Armyworm Beet Armyworm Corn Earworm Green Cloverworm Leafhoppers European Corn Borer Southern Armyworm Tobacco Budworm Aphids Alfalfa Looper	0.1-0.2 (6.4-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.2 lb. a.i./A per application or more than 1.0 lb. a.i./A per season. Can be applied up to 1 day of harvest. Please allow a minimum of 7 days between treatments.  Lettuce only – Do not apply more than 0.2 lb. a.i./A per application and more than 0.8 (1.2 in HI) lb. a.i./A per season. Please allow a minimum of 7 days between treatments.  Spinach only - Do not apply more than 0.2 lb. a.i./A per application or more than 0.6 lb. a.i./A per season. Please allow a minimum of 3 days between treatments.

**Root, Tuber and Bulk Vegetables**

Horseradish	Imported Crucifer Weevil ( <i>Baris lepidii</i> ) control	0.1% a.i. solution <sup>3</sup> in a spring preplant dip and 0.2 lbs. a.i./A (12.8) as a foliar spray	Soak sets for 30 min. and air-dry before planting; make up to 3 foliar applications as needed to control weevil adults during oviposition. Apply by ground equipment in a minimum spray volume of 20 gal./A. Do not apply within 30 days of harvest. Do not apply more than 0.15 lb. a.i./A per application or more than 0.45 lb. a.i./A per season. Please allow a minimum of 10 days between treatments.
Onions (Dry Bulb and Garlic)	Onion Thrips Armyworms	0.15-0.3 (9.6-19.2)	Apply by air or ground equipment. Apply in a minimum of 20 gal. of water/A with ground equipment or in a minimum of 5 gal./A by air as foliar spray. Begin applications when pests appear. Use the higher label rates as onion thrips population increases and avoid rescue situations. Do not apply more than 0.3 lb. a.i./A per application or more than 1.0 lbs. a.i./A per application or more than 1.0 lbs. a.i./A per application or more than 1.0 lbs.
	Cutworms Leafminers Onion Maggots (adult) Stink Bugs	0.1-0.3 (6.4-19.2)	

			<p>a.i./A per season. Do not apply within 1 day of harvest. Please allow a minimum of 7 days between treatments.</p> <p>Garlic only – Do not apply more than 0.2 lb. a.i./A per application or more than 0.8 lbs a.i./A per season. Please allow a minimum of 10 days between treatments.</p>
Potatoes	<p>Colorado Potato Beetle</p> <p>Potato Leafhopper</p> <p>Aster Leafhopper</p> <p>Potato Flea Beetle</p> <p>Potato Aphid</p> <p>Potato Tuberworm</p> <p>Potato Psyllid</p> <p>Cabbage Looper</p> <p>Beet Armyworm</p> <p>Cutworm</p> <p>European Corn Borer</p> <p>Tarnished Plant Bug</p>	<p>0.05-0.2 (3.2-12.8)</p>	<p>Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.2 lb. a.i./A per application or more than 0.8 lbs. a.i./A per season. Can be applied up to 14 days prior to harvest. Please allow a minimum of 10 days between treatments.</p>
<p>Turnips (FL, GA, IL, IN, OK, SC, TX, WA only)</p>	<p>Cabbage Looper</p> <p>Imported Cabbageworm</p> <p>Diamondback Moth</p> <p>Cabbage Aphid<sup>1</sup></p> <p>Beet Armyworm</p> <p>Corn Earworm</p> <p>Southern White Butterfly</p> <p>Leafminer</p> <p>Leafhoppers</p> <p>European Corn Borer</p> <p>Fall Armyworm</p> <p>Cutworms</p> <p>Green Cloverworms</p> <p>Southern Armyworms</p> <p>Tobacco Budworm</p> <p>Vegetable Leafminer</p>	<p>0.05-0.15 (3.2-6.4)</p>	<p>Apply by ground equipment only. Apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain uniform coverage. Do not apply more than 0.15 lb. a.i./A per application or more than 0.45 lb. a.i./A per season. Do not apply within 1 day of harvest. Do not graze treated areas or feed crop refuse to livestock. Please allow a minimum of 3 days between applications.</p> <p>Do not exceed 8 applications. (TX, OK, IL, IN only)</p> <p>Do not exceed 4 applications. (SC, GA, FL, WA only)</p>
<b>Cereal Grains</b>			

Field Corn/ Popcorn/Field Corn Grown for Seed (At Plant Use)	Armyworms Cutworms	0.5 oz./1,000 linear ft. of row	Apply as an in-furrow, band or T-band treatment using a minimum 4 inch band. Use table below to determine the AMBUSH Insecticide needs for each acre.
Row spacing (inches)		40	30
AMBUSH Insecticide (pounds a.i./A)		0.10	0.15
Field Corn/Popcorn/ Field Corn Grown for Seed (Preemergent Use)**	Armyworm Cutworms Stalk Borers	0.1-0.2 (6.4-12.8)  or  0.5-1.0 oz./ 1,000 linear ft. of row (based on a 4 inch band and 40 inch row spacing)	<p>AMBUSH Insecticide may be applied as a preplant or preemergence application. For best results, apply at planting time. Apply as a broadcast spray by ground (minimum of 10 gal. of water/A) or air (minimum of 2 gal. of water/A) or 4 inch to 15 inch band using sufficient spray volume to achieve adequate coverage.</p> <p>Linear row calculations should be used proportional to the standard band width/row width formula to adjust rates for different band widths or row spacings. Use higher rates of AMBUSH Insecticide when incorporating into the soil without exceeding the recommended dosage.</p> <p>Do not apply more than 0.15 lb. a.i./A per application or more than 0.45 lb. a.i./A per season. Please allow a minimum of 7 days between treatments.</p>
Field Corn/Popcorn/ Field Corn Grown for Seed (Foliar Use)**	Armyworm (including Fall Armyworm) Cutworms European Corn Borer Southwestern Corn Borer Flea Beetle Corn Earworm Corn Rootworm Beetle Tobacco Budworm <sup>2</sup> Stalk Borer Hop Vine Borer	0.1-0.2 (6.4-12.8)	<p>Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A.</p> <p>Do not apply more than 0.15 lb. a.i./A per application or more than 0.45 lbs. a.i./A per season. Please allow a minimum of 7 days between treatments. Do not apply within 30 days of harvest of grain or fodder (stover). Forage may be harvested on the day of application.</p> <p>When treating for stalk borer, AMBUSH Insecticide must be applied when or shortly before the stalk borer larvae are moving into the corn from surrounding weeds and grasses. Mowing or burndown herbicide is suggested to initiate movement.</p>
	Western Bean Cutworm	0.05-0.1 (3.2-6.4)	<p>For control of Corn Earworm, apply just before silking and continue as necessary to maintain control.</p>

Sweet Corn	Corn Earworm European Corn Borer Fall Armyworm Corn Rootworm (adults) Cutworms Flea Beetle <sup>2</sup> Hop Vine Borer Leafhoppers Southern Armyworms Stalk Borers	0.1-0.2 (6.4-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Do not apply more than 0.2 lb. a.i./A per application or more than 0.8 lbs. a.i. /A per season. Please allow a minimum of 3 days between treatments. Do not apply within 1 day of harvest of ears or forage or livestock grazing. AMBUSH Insecticide may be mixed with Lannate® (methomyl) in accordance with label limitations and precautions. Label dosage rates should not be exceeded.
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<b>Tree Crops</b>			
Almonds	Navel Orangeworm Peach Twig Borer	0.2-0.25 (12.8 -25.6)	<p>Apply by air or ground equipment. By air, apply in a minimum of 10 gal. of water/A. By ground, apply in a minimum of 25 gal. of water/A. Use sufficient water to obtain uniform coverage. Can be applied up to 7 days before harvest. Do not apply more than 0.25 lb. a.i./A per application or more than .75 lbs. a.i./A per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Please allow a minimum of 10 days between treatments.</p> <p>For control of peach twig borer in dormant season almonds: Apply 0.1-0.2 lbs. a.i./A (6.4-12.8 fl. oz./A). AMBUSH Insecticide may be applied with or without dormant oil by ground equipment (dilute or concentrate sprays) or by aircraft. When combined with dormant oil and applied by air, observe the application rate and spray volume specified on the dormant oil label. When not using dormant oil, almonds may be treated by air with a minimum of 15 gal. of finished spray/A.</p> <p>Apply by air only when soil conditions do not permit regular ground application. For maximum effectiveness, combine AMBUSH Insecticide with labeled rates of dormant oil and apply with air blast ground sprayers in volumes of 100 to 400 gal. of finished spray/A.</p>
	Ants	0.4 (25.6)	Apply by ground equipment in a minimum of 15 gal. of finished spray/A. Applications should follow mowing of weed growth to insure maximum coverage of the soil surface. Overhead moisture following application will enhance activity.

Apples	Apple Aphid Redbanded Leafroller Oblique banded Leafroller Plum Curculio White Apple Leafhopper Spotted Tentiform Leafminer Tarnished Plant Bug Green Fruitworm	0.1-0.25 (6.4-25.6)	Apply by air or ground equipment. By air, apply in a minimum of 10 gal. of water/A. By ground, apply in a minimum of 25 gal. of water/A. Spray to wet all foliage. Do not apply after petal fall. Do not apply more than 0.25 lb. a.i./A per application or more than .05 lbs. a.i./A per season. Please allow a minimum of 10 days between treatments.
Avocados	Thrips Leafhoppers Mirid bugs Lepidopterous larvae Avocado Caterpillar Avocado Lace Bug Avocado Leafroller Orange Tortrix Avocado Looper Avocado Tree Girdler Avocado Whitefly Brown Soft Scale Spanworm Twig Borers Scale Crawlers	0.2 (12.8)	Apply by air or ground equipment. By air, apply in a minimum of 10 gal. of water/A. By ground, apply in a minimum of 25 gal. of water/A. Spray to wet all foliage. Apply when insects appear. Do not apply more than 0.2 lb. a.i./A per application or more than 0.8 lb. a.i./A per season. Please allow a minimum of 7 days between treatments.  Do not make more than 6 applications per season. Do not apply within 7 days of harvest.  Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
Cherries	Lesser Peachtree Borer Rose Chafer Green Fruitworm Redbanded Leafroller Plum Curculio Tarnished Plant Bug	0.1-0.2 (6.4-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 10 gal. of water/A. By ground, apply in a minimum of 25 gal. of water/A. Apply when insects appear. Do not apply more than 0.2 lb. a.i./A per application or more than 0.6 lbs. a.i./A per season. In the East, do not exceed 6 applications per season, with no more than 4 applications after petal fall. Please allow a minimum of 10 days between treatments. In the West, do not apply more than 4 applications per season, with no more than 3 applications after petal fall. Do not apply within 3 days of harvest. Do not graze livestock in treated orchards. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.



<p>Filberts</p>	<p>Filbertworm Oblique Banded Leafroller</p>	<p>0.2-0.4 (12.8-25.6)</p>	<p>Apply by air or ground equipment. By air, apply in a minimum of 10 gal. of water/A. By ground, apply in a minimum of 25 gal. of water/A. Use sufficient water to obtain uniform coverage. Apply when insects appear. Do not apply more than 1.6 lbs. a.i./A per season. Do not apply within 14 days of harvest. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.</p>
<p>Papaya (Florida only)</p>	<p>Fruit Fly Papaya Webworm Papaya Whitefly Brown Soft Scale Scale Crawlers Aphids Mealybug</p>	<p>0.1-0.15 (6.4-12.8)</p>	<p>Apply by air or ground equipment. By air, apply in a minimum of 10 gal. of water/A. By ground, apply in a minimum of 25 gal. of water/A. Spray to wet all foliage. Apply when insects appear. Do not apply more than 0.15 lb. a.i./A per application or more than 0.75 lb. a.i./A per season. Please allow a minimum of 10 days between treatments.</p> <p>Do not make more than 6 applications per season. Do not apply within 7 days of harvest.</p> <p>Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.</p>
<p>Peaches</p>	<p>Peach Twig Borer Oriental Fruit Moth Green Fruitworm Lesser Peachtree Borer Plum Curculio Tarnished Plantbug Rose Chafer</p>	<p>0.1-0.25 (6.4-19.2)</p>	<p>Apply by air or ground equipment. By air, apply in a minimum of 10 gal. of water/A. By ground, apply in a minimum of 25 gal. of water/A. Spray to wet all foliage. Can be applied up to 14 days before harvest. Do not apply more than 5 applications or more than 0.25 lb. a.i./A per application or more than 0.75 lbs. a.i./A per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Please allow a minimum of 10 days between treatments.</p> <p>For control of peach twig borer in dormant season peaches: Apply 0.1-0.2 lbs. a.i./A (6.4-12.8 fl. oz/A). AMBUSH Insecticide may be applied with or without dormant oil by ground equipment (dilute or concentrate sprays) or by aircraft. When combined with dormant oil and applied by air, observe the application rate and spray volume specified on the dormant oil label. When not using dormant oil, peaches may be treated by air with a minimum of 15 gal. of finished spray/A. Apply by air only when soil conditions do not permit regular ground application. For maximum effectiveness, combine AMBUSH Insecticide with</p>

			<p>labeled rates of dormant oil and apply with air blast ground sprayers in volumes of 100-400 gal. of finished spray/A.</p>
<p>Pears (Post-harvest, Dormant through Pre-bloom)</p>	<p>Pear Psylla Codling Moth Green Fruitworm</p>	<p>0.2-0.4 (12.8-25.6)</p>	<p>Apply by air or ground equipment. By air, apply in a minimum of 10 gal. of water/A. By ground, apply in a minimum of 25 gal. of water/A. Use sufficient water to obtain uniform coverage. Apply at a rate of 0.8-1.6 pts. (0.2 to 0.4 lbs. a.i./A). May be combined with 2-8 gal. of spray oil/A. Apply during the post-harvest through dormant through pre-bloom growth periods only. Do not apply more than 0.65 lbs. a.i./A per season. Please allow a minimum of 10 days between treatments. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.</p> <p>Pre-bloom: Apply 2 pre-bloom sprays. Pre-bloom sprays can be applied from dormant through bud burst stages. Do not apply more than 0.25 lb. a.i./A per application or more than 0.65 lb. a.i./A per season.</p> <p>Post-harvest: For control of Codling Moth: Apply 0.2-0.4 lbs. a.i./A (12.8-25.6 fl. oz./A). AMBUSH Insecticide may be applied with or without dormant oil by ground equipment (dilute or concentrate sprays) or by aircraft. When combined with dormant oil and applied by air, observe the application rate and spray volume specified on the dormant oil label. When not using dormant oil, pears may be treated by air with a minimum of 15 gal. of finished spray/A. Apply by air only when soil conditions do not permit regular ground application. For maximum effectiveness, combine AMBUSH Insecticide with labeled rates of dormant oil and apply with air blast ground sprayers in volumes of 100-400 gal. of finished spray/A.</p>

Pistachios	Peach Twig Borer Naval Orangeworm Chinch Bug Plant Bugs Stink Bugs Leaffooted Bugs	0.2- 0.3 (12.8-25.6)	Apply by air or ground equipment. By air, apply in a minimum of 10 gal. of water/A. By ground, apply in a minimum of 25 gal. of water/A. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.3 lb. a.i./A per application or more than 0.9 lbs. a.i./A per season. Do not apply after 10% hull split. Nuts may be harvested on the day of application. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Please allow a minimum of 10 days between treatments.
	Ants	0.4 (25.6)	Apply by ground equipment in a minimum of 15 gal. of finished spray/A. Applications should follow mowing of weed growth to insure maximum coverage of the soil surface. Overhead moisture following application will enhance activity.
Walnuts	Navel Orangeworm Codling Moth Walnut Husk Fly	0.2- 0.25 (12.8-25.6)	Apply by air or ground equipment. By air, apply in a minimum of 10 gal. of water/A. By ground, apply in a minimum of 25 gal. of water/A. Use sufficient water to obtain uniform coverage. Apply when insects appear. Do not apply more than 0.25 lb. a.i./A per application or more than 0.75 lbs. a.i./A per season. Do not apply within 1 day of harvest. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Please allow a minimum of 10 days between treatments.
<b>Other Crops</b>			
Alfalfa, Alfalfa grown for seed	Alfalfa Caterpillar Armyworms Cutworms Loopers Webworms Potato Leafhopper Blue Alfalfa Aphid <sup>5</sup> Green Peach Aphid Pea Aphid <sup>5</sup> Green Cloverworm Spotted Alfalfa Aphid Velvetbean Caterpillar	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. Use higher recommended dosage for increased pest pressure or for increased residual pest control. Apply in a minimum of 2 gal. of finished spray/A by aircraft or 10 gal. of finished spray/A with ground equipment. Use higher gallonage, 510 gal. by air, or 20 by ground, finished spray/A when foliage is dense and/or when pest populations are high. Do not apply more than 0.2 lbs. a.i. per cutting. When rates 0.1 lb. a.i./A or less are used, application may be made on day of harvest. When rates greater than 0.1 lb. a.i./A are used, do not apply within 14 days of harvest. Avoid application when bees are actively foraging by applying during the early morning or during the evening hours. Please allow a minimum of 30 days between

	Alfalfa Weevil <sup>5</sup> Egyptian Alfalfa Weevil <sup>5</sup> Cucumber Beetle Meadow Spittlebug Plant Bugs (including Lygus spp.) <sup>5</sup> Stink Bugs	0.1-0.2 (6.4-12.8)	treatments.  Do not apply to mixed stands with intentionally grown forage grasses.
Artichokes	Artichoke Plume Moth Leafminers	0.1-0.3 (6.4-19.2)	Apply by air or ground equipment. By air, apply in a minimum of 2-10 gal. of finished spray/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain uniform coverage. Do not apply more than 0.3 lb. a.i./A per application or more than 0.9 lbs. a.i./A per season. Buds may be harvested on the day of application. Please allow a minimum of 10 days between treatments.
Asparagus	Cutworm Complex Asparagus Beetle	0.05-0.1 (3.2-6.4)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of finished spray/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient water to obtain uniform coverage. Do not apply more than 0.1 lb. a.i./A per application or more than 0.4 lbs. a.i./A per season. Do not apply within 1 day of harvest. Please allow a minimum of 7 days between treatments.
	Asparagus Beetle Tarnished Plant Bug Lygus Bugs Japanese Beetle <sup>2</sup> (adult stage)	0.1 (6.4)	For post harvest application, apply to the fern stage of the asparagus plant after spear harvest when larval and adult stage of the asparagus beetle, lygus bugs and the adult stage of the Japanese beetle are present.
Mushrooms (Mushroom houses and adjacent premise areas)	Mushroom Flies (Sciarid and Phorid Adults)	Apply as a fogging or aerosol treatment at the rate of 3.2-4. oz. (0.05-0.0625 lbs. a.i.)/30 oz. of water or suitable diluent. Use 1 qt. of solution per standard double house (35,000 cu. ft.: 8,000 sq. ft.)	Preparation of the building prior to fogging: (1) Close all doors, windows, and ventilators, (2) Lock or barricade all entrances, turn off pilot lights, post warning signs, and take precautions to prevent persons and animals from entering the area. Use prior to filling the house, during cool-down, during spawning, up to pinning and between breaks. Do not use when mushrooms are present. Treat once daily or as needed when flies appear. Do not make more than 20 applications prior to pinning of first break; apply no more than 2 applications between each break. Do not apply more than 30 applications total per crop of 5 breaks. Do not apply within 3 days of harvest. Length of exposure time should be limited to 1 hr.; then ventilate the house. Use fans to ventilate in houses that do not have forced air circulation. Wear a

			respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).
Range Grass (NM Only)	Range Caterpillar	0.01 (0.64)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Use sufficient volume to obtain uniform coverage. Apply as needed. Do not apply more than once per year. Cattle may be present during application. Do not harvest or feed hay to livestock.
Soybeans	Green Cloverworm Mexican Bean Beetle Bean Leaf Beetle Cabbage Looper Potato Leafhopper Velvetbean Caterpillar Saltmarsh Caterpillar Cutworm Flea Beetle Thistle Caterpillar	0.05-0.1 (3.2-6.4)	Apply by air or ground equipment. By air, apply in a minimum of 2 gal. of water/A. By ground, apply in a minimum of 10 gal. of water/A. Do not apply more than 0.2 lb. a.i./A per application or more than 0.4 lbs. a.i./A per season. Can be applied up to 60 days before harvest. Do not graze treated areas or harvest for forage or hay. Please allow a minimum of 10 days between treatments.
	Corn Earworm Beet Armyworm Japanese Beetle Soybean Looper <sup>4</sup> Webworms	0.1-0.2 (6.4-12.8)	
<b>Ornamentals</b>			
Christmas Trees <sup>2</sup> (container and field grown)	Nantucket Pine Tip Moth	0.1-0.2 (6.4-12.8)	Apply first application when adults appear and repeat at 5-7 day intervals or as needed throughout the season. Use sufficient water to obtain full coverage of foliage.
Chrysanthemum s	Vegetable Leafminer Liromyza Leafminer Flies	0.1-0.2 (6.4-12.8)	Apply by ground.  Avoid spraying the blooms. AMBUSH Insecticide may be applied on a weekly schedule. Caution: AMBUSH Insecticide has demonstrated excellent plant safety, however, not all cultivars have been tested. Before treating large numbers of plants of a particular cultivar, treat a few plants and observe prior to full scale applications.

Conifers (container and field grown)	Nantucket Pine Tip Moth	0.1-0.2 (6.4-12.8)	Apply first application when the adults appear and repeat at 5-7 day intervals or as needed throughout the season. AMBUSH Insecticide may be diluted in a nonvolatile vegetable oil or in water in a minimum of 1 gal. of finished spray/A using equipment calibrated to give adequate coverage.
Ornamentals Nursery Stock <sup>2</sup> (field-grown)	Beet Armyworm Cabbage Looper Citrus Thrip <i>Heliothis</i> Spp. Leafhoppers Leafminers Whiteflies Cutworms	0.1-0.2 (lbs. a.i./100 gal)	Marginal leaf burn may occur on <i>Salvia</i> , <i>Dieffenbachia</i> and <i>Pteris</i> Fern. Application to blooming plants may cause browning of petals. Not all species and varieties have been tested. Before treating large numbers of plants of a particular variety, treat a few plants and observe prior to full scale application. Apply to nonbearing plants of fruiting species.
Pine Seed Orchard	Coneworms Seed bugs	13 fl. oz./ 100 gal. water (0.025% dilution by wt.) for high volume sprayers; 68 fl. oz./ 100 gal. water (0.125% dilution by wt.) for low volume sprayers; 48 fl. oz./A application in not less than 10 gal. of water for aerial applications	Apply first application within 1 week of female flower closure or peak pollen flight for webbing coneworm control. For other coneworms and seed bugs, apply first application within 30 days following female flower closure. Repeat applications at intervals of 4 weeks, but do not apply more than 6 applications.  Apply approximately 5-10 gal. of the 0.025% dilution per tree with high volume sprayers. With low volume sprayers, apply 100 gal. of the 0.125% dilution/A.  Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Avoid contact with open water.
Hybrid Poplar Trees (Grown for pulp) (WA, OR, ID Only)	Aphids Beetles Cutworms	0.1-0.2 (6.4-12.8)	Apply by air in a minimum of 5 gal. of water. Apply when field counts indicate damaging insect populations are developing or present. Repeat as necessary to maintain control.
	Spotted Tentiform Leafminer Tarnished Plant Bug	0.2 (12.8)	
Roses <sup>2</sup> (field-grown)	<i>Heliothis</i> Spp.	0.1-0.2 (6.4-12.8)	Apply by air or ground equipment. Apply in a minimum of 2 gal./A by air and 10 gal. of finished spray/A with ground equipment.
Roses <sup>2</sup> (greenhouse)	Beet Armyworm Cabbage Looper Omnivorous Leafroller	8 fl. oz./100 gal. water	AMBUSH Insecticide is not phytotoxic to the following varieties of greenhouse roses: Ballena, Bettina, Cara Mia, Coquette, Excitement, Forever Yours, G. Wave, Jack Frost, Jr. Bridesmaid, Matador, Paul's Pink, Samantha, Seventeen, Town Crier, Tropicana and Visa. Other varieties may vary in their sensitivity to AMBUSH Insecticide, and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.

- \* LEAFY VEGETABLES (Except Brassica): Amaranth (leafy amaranth, Chinese spinach, tampala; arrugla (Roquette); Cardoon; celery; Chinese celery; celtuce; chervil; corn salad; chrysanthemum, edible-leaved; chrysanthemum, garland; cress, garden; cress upland (yellow rocket, winter cress); dandelion; dock (sorrel); endive (escarole); fennel, Florence; lettuce (head and leaf); orach; parsley; purslane, garden; purslane, winter; radicchio (red chicory); rhubarb; spinach; spinach, vine (Malabar spinach, Indian spinach); spinach, New Zealand; Swiss chard.
  - + CUCURBIT VEGETABLES: Chayote (fruit); Chinese Waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourds, edible (includes hyotan, cucuzza, hechima, Chinese okra); Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); muskmelons, including hybrids such as true cantaloupe, cantaloupe, casaba, crenshaw, golden pershaw melon, honeydew melons, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon; pumpkin; squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), and winter (butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon, including hybrids.
  - \*\* AMBUSH Insecticide may be applied in tank-mixtures with the following herbicides in accordance with label limitations and precautions. Label dosage rates should not be exceeded. Gramoxone® MAX; Gramoxone® Extra, Bicep®, Lasso®, Dual® 8E; Atrazine 4L & 90WG; Bladex® 90DF & 4L; Princep®, Caliber 90®, 2,4-D; Roundup®; Banvel®; Extrazine®
- 1 Aids in suppression.
  - 2 Currently not registered for use in California.
  - 3 0.1% a.i. solution = 3 1/3 pt. formulation per 100 gal. of water.
  - 4 Maximum use rate in California is 0.1 lbs. a.i./A.
  - 5 Under heavy insect pressure use 0.2 lbs. a.i./A. A second application of alternate chemistry may be necessary to reduce populations below economic thresholds.

**RATE CONVERSION CHART**

Lbs. a.i./A	Fl. Oz./A	Pt./A	Acres Treated/Gal.
0.05	3.2	0.2	40.0
0.10	6.4	0.4	20.0
0.125	8.0	0.5	16.0
0.15	9.6	0.6	13.3
0.175	11.2	0.7	11.4
0.20	12.8	0.8	10.0

**STORAGE AND DISPOSAL**

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

**STORAGE:** Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. 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:**

**Plastic Containers:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

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