



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

March 1, 2018

Niamh McMahon
Regulatory Product Manager
AMVAC Chemical Corporation
4695 MacArthur Court #1200
Newport Beach, CA 92660

Subject: Label Amendment – Updating Water Soluble Packaging mixing and loading language
Product Name: AMBUSH 25W INSECTICIDE WATER SOLUBLE PACK
EPA Registration Number: 5481-503
Application Date: 27 September 2017
Decision Number: 538089

Dear Ms. McMahon:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Helen Hull-Sanders by phone at 703-347-0243, or via email at hull-sanders.helen@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Elizabeth Fertich". The signature is written in a cursive style with a large initial "E".

Elizabeth Fertich
Product Manager 4
Invertebrate & Vertebrate Branch 1
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

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® 25W INSECTICIDE
Water Soluble Pack

GROUP	3	INSECTICIDE
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ACTIVE INGREDIENT:

Permethrin

(3-Phenoxyphenyl)methyl(±)-*cis,trans*-3-(2,2-dichloroethenyl)-

2,2-dimethylcyclopropanecarboxylate*25.0%

INERT INGREDIENTS:75.0%

TOTAL100.0%

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

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.)

FIRST AID

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 eye. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • 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 by 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 further treatment advice.

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:

For Medical Emergencies phone:.....1-888-681-4261
For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC®1-800-424-9300
For Product Use Information phone: AMVAC®1-888-462-6822

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

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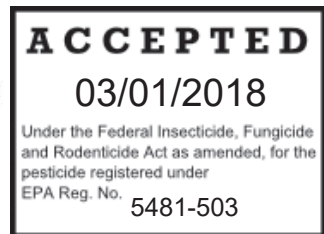
EPA Est. No. _____

Net Weight:

As Marked on Container



4100 E. Washington Blvd.
Los Angeles, CA 90023 U.S.A.



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Wear protective eyewear such as goggles, face shield or safety glasses. Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing dust or spray mist. Do not get in eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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.

See engineering controls for additional requirements.

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 STATEMENT

Water soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard [40 CFR 170.607(d)]. Mixers and loaders handling this product while it is enclosed in intact water soluble packets may elect to wear reduced PPE of long-sleeved shirt, long pants, shoes, socks, a chemical-resistant apron, and chemical-resistant gloves. When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for “applicators and other handlers” and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection 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.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to 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 water mark. Do not contaminate water when disposing of equipment wash waters. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

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 on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging the treatment area.

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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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

AGRICULTURAL USE REQUIREMENTS

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

PRODUCT INFORMATION

Apply AMBUSH 25W as shown in "Directions for Application". Use sufficient water to obtain full coverage of foliage. Base timing and frequency of applications 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. active ingredient (a.i.) per acre per season. Crops on 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.

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.

https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs143_023819.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).

Buffer Zone for ULV Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural 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 so 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.

Read label to determine rate of AMBUSH 25W insecticide to be applied. Consult the Rate Conversion Chart to determine number of acres a 1.0 lb. or 2.0 lbs. water-soluble pack will treat at the desired rate. Based on the number of acres to be sprayed per tank load, drop in the required number of unopened packs.

MIXING INSTRUCTIONS

Instructions for Using Water Soluble Packages Directly into Spray tanks:

Water Soluble Packages (WSPs) are designed to dissolve in water. Agitation may be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide products in WSPs. WSPs, when used properly, qualify as a closed mixing/loading system under the Agricultural Worker Protection Standard [40 CFR 170.607(d)].

Handling Instructions

Follow these steps when handling pesticide products in WSPs.

1. Mix in spray tank only.
2. Handle WSP(s) in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on PPE required for clean-up and then continue with mixing instructions.
3. Keep the WSP(s) in outer packaging until just before use.
4. Keep the WSP dry prior to adding to the spray tank.
5. Handle with dry gloves and according to the label instructions for PPE.
6. Keep WSP intact. Do not cut or puncture WSP.
7. Reseal the WSP outer packaging to protect any unused WSP(s).

Mixing Instructions

Follow the steps below when mixing this product, including if tank mixed with other pesticide products. If being tank mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank mix products. WSPs may, in some cases, be mixed with other pesticide products so long as the directions for use of all mixed products do not conflict. Do not tank mix this product with products that prohibit tank mixing or have conflicting mixing directions.

1. If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.
2. Fill tank with water to approximately one-third to one-half of the desired final volume of spray.
3. Stop adding water and stop any agitation.
4. Place intact/unopened WSP(s) into the tank.
5. Do not spray water from a hose or fill pipe to break or dissolve the WSP(s).
6. Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
7. Dissolving the WSP(s) may take up to 5 minutes or longer, depending on water temperature, water hardness and intensity of agitation.
8. Stop agitation before tank lid is opened.
9. Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSPs have fully dissolved and the contents have been thoroughly mixed into the solution.
10. Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
11. Once the WSP have fully dissolved and any other products have been added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
12. Use the spray solution when mixing is complete.
13. Maintain agitation of the diluted pesticide mix during transport and application.
14. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

AMBUSH 25W insecticide is intended for dilution with water for spray application. Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Agitate thoroughly before and during application. Good bypass agitation is sufficient to keep AMBUSH 25W insecticide thoroughly mixed. Do not let spray mixture stand overnight in the spray tank. Rinse spray tank at the end of the day.

Fill spray tank 1/4 to 1/2 full of water. With the agitator running, drop the required number of unopened soluble packs of AMBUSH 25W insecticide into the tank. Continue agitation while adding the remainder of the water. Do not use this product with oil.

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE Lbs. AI/Acre (Oz. Product/Acre)	REMARKS
COLE CROPS - Brassica Leafy Vegetables			
Broccoli	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid ^a	0.05-0.2 (3.2- 12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. 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 lb. a.i. per acre per season. Do not apply within 1 day of harvest. Allow a minimum of 5 days between treatments.
Brussels Sprouts	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid ^a	0.05-0.1 (3.2-6.4)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. 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 lb. a.i. per acre per season. Do not apply within 1 day of harvest. Allow a minimum of 5 days between treatments.

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE Lbs. AI/Acre (Oz. Product/Acre)	REMARKS
Cabbage	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid ^a	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. 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. per acre per season. Do not apply within 1 day of harvest. Allow a minimum of 5 days between treatments.
Cauliflower	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid ^a	0.05-0.1 (3.2-6.4)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. 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) lb. a.i. per acre per season. Do not apply within 1 day of harvest. Allow a minimum of 5 days between treatments.
Chinese Broccoli ^b (gai lon, white flowering)	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid ^a	0.05-0.2 (3.2- 12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.2 lb. a.i./A or more than 0.8 lb. a.i. per acre per season. Do not apply within 1 day of harvest. Allow a minimum of 5 days between treatments.
Chinese Cabbage (Tight-heading varieties only)	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid ^a	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. 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. per acre per season. Do not apply within 1 day of harvest. Allow a minimum of 5 days between treatments.
CUCURBIT VEGETABLES			
Cucurbit Vegetables+	Leafminers and Squash Bugs	0.2 (12.8)	Apply by air or ground equipment. Apply a minimum of 4 gallons of finished spray per acre by air or 20 gallons of finished spray per acre with ground equipment. Do not apply more than 0.2 lb. a.i./A per application or more than 1.2 lbs. a.i. per acre per season. AMBUSH 25W may be applied up to harvest. Allow a minimum of 7 days between treatments. Cantaloupe 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) Rindworms and Squash Vine Borer	0.1-0.2 (6.4-12.8)	
FRUITING VEGETABLES			
Eggplant	Colorado Potato Beetle	0.15 (9.6)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. 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) lb. a.i. per acre per season. Do not apply within 3 days of harvest. Allow a minimum of 7 days between treatments.
	Vegetable Leafminer Cabbage Looper Flea Beetle	0.1-0.2 (6.4-12.8)	

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE Lbs. AI/Acre (Oz. Product/Acre)	REMARKS
Peppers (Bell)	Vegetable Leafminer Cabbage Looper Flea Beetle Pepper Weevil European Corn Borer	0.1-0.2 (6.4-12.8) 0.2 (12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. 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 lb. a.i. per acre per season. Do not apply within 3 days of harvest. Allow a minimum of 5 days between treatments.
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 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. 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) lb. a.i. per acre per season. Can be applied up to the day of harvest. Do not apply as a band. Do not use on tomato varieties in which the mature tomatoes will be less than 1 inch in diameter (such as cherry tomatoes). Allow a minimum of 7 days between treatments.
LEAFY VEGETABLES			
Leafy Vegetables* (except Brassica)	Vegetable Leafminer Cabbage Looper Cutworm Complex Fall Armyworm Beet Armyworm Corn Earworm Green Cloverworm Leafhoppers European Corn Borer	0.1-0.2 (6.4-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. 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 (1.2 in HI) lbs. a.i. per acre per season. Can be applied up to 1 day of harvest. 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) lbs. a.i./A per season. 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. per acre per season. Allow a minimum of 3 days between treatments.

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE Lbs. AI/Acre (Oz. Product/Acre)	REMARKS
ROOT, TUBER AND BULB VEGETABLES			
Onions (Dry Bulb and Garlic)	Onion Thrips Armyworms Cutworms Leafminers Onion Maggots (adult) Stink bugs	0.15-0.3 (9.6-19.2) 0.1-0.3 (6.4-19.2)	Apply by air or ground equipment. Apply in a minimum of 20 gallons of water per acre with ground equipment or in a minimum of 6 gallons per acre 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 lb. a.i. per acre per season. Do not apply within 1 day of harvest. Allow a minimum of 7 days between treatments. Garlic only – Do not apply more than 0.2 lb. a.i./A per application or more than 0.8 lb. a.i./A per season. Allow a minimum of 10 days between treatments.
Potatoes	Colorado Potato Beetle Potato Leafhopper Aster Leafhopper Potato Flea Beetle Potato Aphid Potato Tuberworm Potato Psyllid Cabbage Looper	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. 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 lb. a.i. per acre per season. Can be applied up to 14 days prior to harvest. Allow a minimum of 10 days between treatments.
CEREAL GRAINS			
Field Corn/Popcorn/ Field Corn Grown for Seed (Pre-emergent Use)**	Armyworm Cutworms	0.1-0.15 (6.4- 9.6)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons water per acre. Do not apply more than 0.15 lb. a.i./A per application or more than 0.45 lb. a.i./A per season. Apply in the time period from 5 days prior to planting up to emergence of the crop. Allow a minimum of 7 days between treatments.
Field Corn/Popcorn/ Field Corn Grown for Seed (Foliar Use)**	Cutworms European Corn Borer Armyworm Southwestern Corn Borer Flea Beetle Corn Earworm*** Corn Rootworm Beetle*** Tobacco Budworm*** Stalk Borer	0.1- 0.15 (6.4-9.6)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Do not apply more than 0.15 lb. a.i./A per application or more than 0.45 lbs. a.i. per acre per season. 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. When treating for stalk borer, AMBUSH 25W 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.**
Sweet Corn	Corn Earworm European Corn Borer Fall Armyworm Corn Rootworm Adults Cutworms Aster Leafhopper Flea Beetle ^b	0.1-0.2 (6.4-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Do not apply more than 0.2 lb. a.i./A per application or more than 0.8 lb. a.i. per acre per season. Do not apply within 1 day of harvest of ears or forage or livestock grazing. Allow a minimum of 3 days between treatments. AMBUSH 25W may be mixed with LANNATE® (methomyl) in accordance with label limitations and precautions. Do not exceed label rates.

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE Lbs. AI/Acre (Oz. Product/Acre)	REMARKS
TREE CROPS			
Apples	Apple Aphid Redbanded Leafroller Oblique banded Leafroller Plum Curculio White Apple Leafhopper Spotted Tentiform Leafminer Tarnished Plant Bug	0.1-0.25 (6.4- 16.0)	Apply by ground equipment only. Apply in a minimum of 25 gallons of water per acre. 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 0.5 lb. per acre per season. Allow a minimum of 10 days between treatments.
Avocados	Thrips Leafhoppers Mirid bugs Lepidopterous larvae	0.2 (12.8)	Apply by ground equipment only. Apply in a minimum of 25 gallons of water per acre. 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. Allow a minimum of 7 days between treatments. Do not make more than 4 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 ground equipment only. Apply in a minimum of 25 gallons of water per acre. Apply when insects appear. Do not apply more than 0.2 lb. a.i./A per application or more than 0.6 lb. a.i./A per season. Do not make more than 3 applications per season. Allow a minimum of 10 days between treatments. 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.
Filberts	Filbertworm Oblique Banded Leafroller	0.2-0.25 (12.8-16.0)	Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in a minimum of 25 gallons of water per acre. Use sufficient water to obtain uniform coverage. Apply when insects appear. Do not apply more than 0.75 lb. a.i. per acre per season. Allow a minimum of 10 day between treatments. 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.
Papaya (Florida only)	Fruit Fly	0.15 (9.6)	Apply by ground equipment only. Apply in a minimum of 25 gallons of water per acre. 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. Allow a minimum of 10 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.

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE Lbs. AI/Acre (Oz. Product/Acre)	REMARKS
Peaches	Peach Twig Borer Oriental Fruit Moth Green Fruitworm Lesser Peachtree Borer Plum Curculio Tarnished Plantbug Rose Chafer	0.1- 0.25 (6.4- 16.0)	Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in a minimum of 25 gallons of water per acre. Spray to wet all foliage. Can be applied up to 14 days before harvest. Do not apply more than 0.25 lb. a.i./A per application or more than .75 lb. a.i. per acre 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.
Pears (Dormant)	Pear Psylla	0.2-0.4 (12.8-25.6)	Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in a minimum of 25 gallons of water per acre. Use sufficient water to obtain uniform coverage. Apply at a rate of 0.8 to 1.6 pints (0.2 to 0.4 lb. a.i.) per acre. May be combined with 2 to 8 gallons of spray oil per acre. Apply during the dormant through delayed dormant growth periods only. Do not apply more than 0.65 lb. a.i. per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Allow a minimum of 10 days between treatments.
Pears (Pre-bloom)	Pear Psylla Codling Moth Green Fruitworm	0.2-0.25 (12.8-16.0)	Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in a minimum of 25 gallons of water per acre. Use sufficient water to obtain uniform coverage. Apply two 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. per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Allow a minimum of 10 days between treatments.
Pistachios	Peach Twig Borer Naval Orangeworm Chinch Bug	0.2- 0.3 (12.8-19.2)	Apply by ground equipment only. Apply in a minimum of 25 gallons of water per acre. 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 lb. a.i. per acre per season. Do not apply after 10 percent 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. Allow a minimum of 10 days between treatments.
Walnuts	Navel Orangeworm Codling Moth Walnut Husk Fly	0.2- 0.25 (12.8-16.0)	Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in a minimum of 25 gallons of water per acre. 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 lb. a.i. per acre 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. Allow a minimum of 10 days between treatments.

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE Lbs. AI/Acre (Oz. Product/Acre)	REMARKS
OTHER CROPS			
Alfalfa, Alfalfa grown for seed	Alfalfa Caterpillar Armyworms Cutworms Loopers Webworms Potato Leafhopper Blue Alfalfa Aphid ^c Green Peach Aphid Pea Aphid ^c 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 gallons of finished spray per acre by aircraft or 10 gallons of finished spray per acre with ground equipment. Use higher gallonage, 5 to 10 gallons by air, or 20 by ground, finished spray per acre when foliage is dense and/or when pest populations are high. Do not apply more than 0.2 lb. a.i. per cutting. When rates of 0.1 lb. a.i. per acre or less are used, application may be made on day of harvest. When rates greater than 0.1 lb. a.i. per acre 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. Allow a minimum of 30 days between treatments.
	Alfalfa Weevil ^c Egyptian Alfalfa Weevil ^c Cucumber Beetle Meadow Spittlebug Plant Bugs including Lygus spp. ^c Stink Bugs	0.1-0.2 (6.4-12.8)	
Artichokes	Artichoke Plume Moth	0.1-0.3 (6.4-19.2)	Apply by ground equipment only. Apply in a minimum of 10 gallons of water per acre. 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 lb. a.i. per acre per season. Buds may be harvested on the day of application. Allow a minimum of 10 days between treatments.
Asparagus	Cutworm Complex Asparagus Beetle	0.05-0.1 (3.2-6.4)	Apply by ground equipment only. Apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain uniform coverage. Allow a minimum of 7 days between treatments. Do not apply more than 0.1 lb. a.i./A per application or more than 0.4 lb. a.i. per acre per season. Do not apply within 1 day of harvest.
Mushrooms (Mushroom houses and adjacent premise areas)	Mushroom Flies (Sciarid and Phorid Adults)	Apply 6 oz. ^c to 11 gals. water or 8 level tablespoons to 3 gals. water. As a guide, use 1 gal. spray per 750 sq. ft. (400 to 1,400 sq. ft.)	Spray directly to walls and ceilings as residual surface treatment only. Spray to point of runoff. Use AMBUSH 25W prior to filling house, during cool down, during spawning, up to pinning and between breaks. Do not use when mushrooms are present. Treat 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. Use of high pressure handwand prohibited in mushroom houses.

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE Lbs. AI/Acre (Oz. Product/Acre)	REMARKS
Soybeans	Green Cloverworm Mexican Bean Beetle Bean Leaf Beetle Cabbage Looper Potato Leafhopper Velvetbean Caterpillar Saltmarsh Caterpillar	0.05-0.1 (3.2-6.4)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Do not apply more than 0.2 lb. a.i./A per application or more than 0.4 lb. a.i. per acre per season. Can be applied up to 60 days before harvest. Do not graze treated areas or harvest for forage or hay. Allow a minimum of 10 days between treatments.
	Corn Earworm Beet Armyworm Japanese Beetle*** Soybean Looper ^d	0.1-0.2 (6.4-12.8)	

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE Lbs. AI/Acre (Oz. Product/Acre)	REMARKS
ORNAMENTALS			
Asparagus Fern	Japanese Beetle Asparagus Beetle Lygus Bugs	0.1 (6.4)	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.
Christmas Trees ^b (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 to 7 day intervals or as needed throughout the season. Use sufficient water to obtain full coverage of foliage.
Chrysanthemums (Florida only)	Vegetable Leafminer	0.1-0.2 (6.4-12.8)	Apply by ground.
Conifers ^b (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 to 7 day intervals or as needed throughout the season. AMBUSH 25W may be diluted in a nonvolatile vegetable oil or in water in a minimum of 1 gallon of finished spray per acre using equipment calibrated to give adequate coverage.
Ornamentals Nursery Stock ^b (field grown)	Beet Armyworm Cabbage Looper Citrus Thrip Heliothis Spp. Leafhoppers Leafminers Whiteflies Cutworms	0.1-0.2 (lbs. a.i./100 gals.)	Marginal leaf burn may occur on Salvia, Dieffenbachia and Pteris 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.
Roses ^b (field grown)	Heliothis Spp.	0.1-0.2 (6.4-12.8)	Apply by air or ground equipment. Apply in a minimum of 2 gallons per acre by air and 10 gallons of finished spray per acre with ground equipment.

DIRECTIONS FOR APPLICATION

CROP	TARGET PESTS	RATE Lbs. AI/Acre (Oz. Product/Acre)	REMARKS
Roses ^b (greenhouse)	Beet Armyworm Cabbage Looper Omnivorous Leafroller	8 fl. oz./100 gals. water	AMBUSH 25W 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 25W, and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.

NOTE: Do not tank mix AMBUSH® 25W Insecticide with BICEP™, GRAMOXONE® SUPER/GRAMOXONE® EXTRA.

- * 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 25W may be applied in tank mixtures with the following herbicides in accordance with label limitations and precautions. Label dosage rates should not be exceeded. LASSO®/Atrazine Premix; LASSO® 4E & ME; DUAL® 8E; Atrazine 4L & 80W; BLADEX® 80W & 4L; PRINCEP®; PRINCEP® CALIBER® 90; 2,4-D; ROUNDUP®, BRONCO®, BANVEL™, EXTRAZINE™

*** Not for control of this insect in California.

^a Aids in suppression.

^b Currently not registered for use in California.

^c 1 oz. of this powder equals 5 level teaspoons.

^d Maximum use rate in California is 0.1 lb. a.i. per acre.

^e Under heavy insect pressure use 0.2 lb. a.i. per acre. A second application of alternate chemistry may be necessary to reduce populations below economic thresholds.

RATE CONVERSION CHART								
AMBUSH 25W INSECTICIDE TREATMENT RATE (LBS. A.I. PER ACRE)								
	.05	.10	.15	.20	.25	.30	.35	.40
Treated Acres/ 1 lb.	5	2-1/2	1-2/3	1-1/4	1	5/6	5/7	5/8
Treated Acres/ 2 lb.	10	5	2-1/3	2-1/2	2	1-2/3	1-3/7	1-1/4

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not reuse empty container.

PESTICIDE STORAGE: Mix as needed. Do not store diluted material. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, sweep up and remove to chemical waste area.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label and (b) 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. This warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable.

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