



PM 13 10182-35

File 10182-35

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

JAN 14 1994

Cheryl Bohenic  
ZENECA INC.  
ZENECA AG PRODUCTS  
New Murphy Road & Concord Pike - Box 751  
Wilmington, DE 19897

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 07/28/93 in Response to PR Notice 93-7  
EPA Reg. No. 10182-35  
AMBUSH 25W INSECTICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy/Canola ink or paper that  
contains at least 50% recycled fiber

2026

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

3026

(Front Cover)

**RESTRICTED USE PESTICIDE.**  
**Toxic 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**  
**Wettable Powder**

Complete Directions For Use and Use Precautions

(Inside of Front Cover)

ACCEPTED  
with COMMENTS  
by EPA Letter Dated

JAN 14 1994

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
10182-35

**IMPORTANT:** Read the Entire Directions for Use and the Conditions of Sale and Warranty before using this product.

**CONDITIONS OF SALE AND LIMITED WARRANTY:**

The Directions for Use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, all of which are beyond the control of the seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label, subject to the inherent risks referred to above, when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller and Buyer and User assume the risk of any such use. **SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY.**

4 of 26

When Buyer or User claims losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories), Buyer or User must promptly notify in writing Seller of any claims to be eligible to receive either of the remedies set forth below. The EXCLUSIVE REMEDY OF BUYER OR USER and the LIMIT OF LIABILITY of Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of amount of product used. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

(Back Cover)

Made in U.S.A.  
ZENECA Ag Products  
ZENECA Inc.  
Wilmington, DE 19897

5/26

**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.)

**ACTIVE INGREDIENT:**

Permethrin

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

25.0%

**INERT INGREDIENTS**

75.0%

**TOTAL**

100.0%

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

EPA Reg. No. 10182-35

**STATEMENT OF PRACTICAL TREATMENT**

**IF IN EYES:** Flush with water for 15 minutes. Get medical attention if irritation persists.

**IF SWALLOWED:** Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

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**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).**

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.**

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**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**WARNING**

**MAY CAUSE EYE IRRITATION. HARMFUL IF SWALLOWED.** Do not get in eyes, on skin or on clothing. ~~Wash thoroughly after handling.~~

## Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Waterproof gloves.
- Shoes plus socks.
- Protective eyewear.

Discard clothing and other absorbent materials that have been drenched 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, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

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## 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.

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## ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. For terrestrial uses, 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 contaminate water when disposing of equipment washwaters. 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.

This product 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 visiting the treatment area.

7/26

## 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.**

## GENERAL INSTRUCTIONS

Apply AMBUSH 25W 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. 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.

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## 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 protection equipment (PPE), notification to workers, 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 24 hours.**

**PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:**

80/26

- Coveralls.
- Waterproof gloves.
- Shoes plus socks.
- Protective eyewear.

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

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### **REENTRY STATEMENTS**

~~Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.~~

~~Do not enter treated areas without protective clothing until sprays have dried.~~

~~Protective clothing means, at least, a hat or other suitable head covering, a long sleeved shirt and long legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks.~~

~~Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.~~

~~Written or oral warnings regarding use of protective clothing and accidental exposure must be given to workers who are expected to be in treated areas or in areas about to be treated. Inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure. An example of such information is given under written warnings. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information.~~

~~**WARNING:** Area treated with AMBUSH 25W Insecticide on (insert date). Do not enter without appropriate protective clothing until sprays have dried (if more restrictive, insert State Department of Agriculture reentry interval). In case of accidental exposure to pesticide spray, wash the skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse. If in eyes, flush with plenty of water. Get medical attention if needed.~~

### **CHEMIGATION:**

### **SPRINKLER IRRIGATION APPLICATION**

Apply AMBUSH 25W 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 25W 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 drift or wind skips. Thorough coverage of foliage is required for good control. Good agitation should be maintained during the entire application period.



9/26

## **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 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.**

10/26

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE LBS A/A (OZ/A)	REMARKS
Alfalfa, Alfalfa grown for seed	Alfalfa Caterpillar Armyworm Cutworm Looper Webworm Potato Leafhopper Blue Alfalfa Aphid <sup>1</sup> Green Peach Aphid Pea Aphid <sup>1</sup> Green Cloverworm Spotted Alfalfa Aphid Velvetbean Caterpillar	0.05-0.2 (3.2-12.8)	Use higher recommended dosage for increased pest pressure or for increased residual pest control. Apply in a minimum of 1 gallon of finished spray per acre by aircraft or 10 gallons of finished spray per acre with ground equipment. Use higher gallonage, 5-10 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 pound active per cutting. When rates 0.1 pound active per acre or less are used, application may be made on day of harvest. When rates greater than 0.1 pound active 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.
	Alfalfa Weevil <sup>1</sup> Egyptian Alfalfa Weevil <sup>1</sup> Cucumber Beetle Meadow Spittlebug Plant Bugs including Lygus spp. <sup>1</sup> Stink Bugs	0.1-0.2 (6.4-12.8)	
Almonds	Navel Orangeworm, Peach Twig Borer	0.2-0.4 (12.8-25.6)	Apply by ground equipment using sufficient water to obtain uniform coverage. Can be applied up to 7 days before harvest. Do not apply more than 2.0 lbs. a.i. per acre per season. Do not graze livestock in treated orchards.

11/26/26

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS A/A (OZ/A)</b>	<b>REMARKS</b>
Apples	Apple Aphid, Redbanded Leafroller, Oblique-banded Leafroller, Plum Curculio, White Apple Leafhopper, Spotted Tentiform Leafminer, Tarnished Plant Bug	0.1-0.4 (6.4-25.6)	Apply by ground equipment only, using 25-400 gallons of spray per acre. Spray to wet all foliage. Do not apply after petal fall.
Artichokes	Artichoke Plume Moth	0.1-0.3 (6.4-19.2)	Apply by ground equipment using sufficient water to obtain uniform coverage. Apply as needed. Do not apply more than 1.5 lbs. a.i. per acre per season. Buds may be harvested on the day of application.
Asparagus	Cutworm Complex, Asparagus Beetle	0.05-0.1 (3.2-6.4)	Apply by ground equipment using sufficient water to obtain uniform coverage. Apply as needed. Do not apply more than 0.4 lbs. a.i. per acre per season. Do not apply within 1 day of harvest.
Asparagus Fern	Japanese Beetle, Asparagus Beetle, Lygus Bug	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.

12/26

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS A/A (OZ/A)</b>	<b>REMARKS</b>
Avocados	Thrips, Leafhoppers, Mirid bugs, Lepidopterous larvae	0.2 (12.8) <sup>1</sup> <u>oz./100 gal.</u> 12.8	Apply by ground equipment. Spray to wet all foliage. Apply when insects appear and repeat at 7-10 day intervals as needed to provide control.  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.
Cantaloupes (Refer to Cucurbit Vegetables for application directions)			
Celery (Refer to Leafy Vegetables for application directions)			
Cherries	Lesser Peach Tree Borer, Rose Chafer, Green Fruitworm, Redbanded Leafroller, Plum Curculio, Tarnished Plant Bug	(lbs ai/ 100 gal) 0.025-0.05	Do not exceed 400 gallons per acre. Apply when insects appear. In the East, do not exceed 6 applications per season, with no more than 4 applications after petal fall. 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 feed forage to livestock.
Christmas Trees <sup>c</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.
Chrysan- themums (Florida only)	Vegetable Leafminer	0.1-0.2 (6.4-12.8)	Apply by ground.

13426

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS A/A (OZ/A)</b>	<b>REMARKS</b>
<b>COLE CROPS</b>			
Broccoli	Cabbage Looper, Imported Cabbageworm, Diamondback Moth, Cabbage Aphid *	0.05-0.1 (3.2-6.4)	Apply every 5 days or as needed by air or ground. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.8 lbs. a.i. per acre per season. Do not apply within 1 day of harvest.
Brussels Sprouts	Cabbage Looper, Imported Cabbageworm, Diamondback Moth, Cabbage Aphid *	0.05-0.1 (3.2-6.4)	Apply as needed by air or ground. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.8 lbs. a.i. per acre per season. Do not apply within 1 day of harvest.
Cabbage	Cabbage Looper, Imported Cabbageworm, Diamondback Moth, Cabbage Aphid *	0.05-0.2 (3.2-12.8)	Apply every 5-10 days or as needed by air or ground. Use sufficient water to obtain full coverage of foliage. Do not apply more than 1.0 lb. a.i. per acre per season. Do not apply within 1 day of harvest.
Cauliflower	Cabbage Looper, Imported Cabbageworm, Diamondback Moth, Cabbage Aphid *	0.05-0.1 (3.2-6.4)	Apply every 5 days or as needed by air or ground. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.8 lbs. a.i. per acre per season. Do not apply within 1 day of harvest.
Chinese Cabbage (Tight-heading varieties only)	Cabbage Looper, Imported Cabbageworm, Diamondback Moth, Cabbage Aphid *	0.05-0.2 (3.2-12.8)	Apply every 5-10 days or as needed by air or ground. Use sufficient water to obtain full coverage of foliage. Do not apply more than 1.0 lb a.i. per acre per season. Do not apply within 1 day of harvest.

14026

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS A/A (OZ/A)</b>	<b>REMARKS</b>
Chinese Broccoli <sup>c</sup> (gai lan, white flowering)	Cabbage Looper, Imported Cabbageworm, Diamondback Moth, Cabbage Aphid <sup>a</sup>	0.05-0.1 (3.2-6.4)	Apply every 5 days or as needed by air or ground. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.8 lbs. a.i. per acre per season. Do not apply within 1 day of harvest.
Collards (AR, AZ, GA, IL, NC, OK, SC, & TX only)	Cabbage Looper, Imported Cabbageworm, Diamondback Moth, Cabbage Aphid	0.05-0.1 (3.2-6.4)	Apply by ground only. Spray using sufficient water to obtain uniform coverage. Apply as needed. Do not exceed 8 applications. Do not apply within 1 day of harvest. Do not graze treated areas or feed crop refuse to livestock.
Conifers <sup>c</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.

150/26

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE LBS A/A (OZ/A)	REMARKS
Cotton	Bollworm, Tobacco Budworm, Pink Bollworm, Lygus Bugs, Cabbage Looper, Cotton Leafperforator, Boll Weevil, Cotton Fleahopper, Saltmarsh Caterpillar, Whitefly, <sup>b</sup> Cotton Aphid, <sup>b</sup> Cutworms	0.1-0.2 (6.4-12.8)	Apply as required by scouting reports, usually at intervals of 5 to 7 days. Apply by air or ground. Do not apply by ground within 25 feet, or by air within 75 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds. Use sufficient water to obtain full coverage of foliage. For control of boll weevils spray on a 3 to 5 day schedule or as needed. Do not apply within 14 days of harvest. The higher rates of AMBUSH 25W (0.15 to 0.2 lbs. a.i. per acre) may be required under conditions of heavy lepidopterous worm infestation. AMBUSH 25W aids in the reduction of lepidopterous egg hatch by contact action. Do not graze livestock in treated areas. Do not apply more than 2.0 lbs. a.i. per acre per season. Do not make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season. Synthetic pyrethroid products include AMBUSH <sup>®</sup> , Ammo <sup>®</sup> , Asana <sup>®</sup> XL, Baythroid <sup>®</sup> , Capture <sup>®</sup> , CYMBUSH <sup>®</sup> , KARATE <sup>®</sup> , Pounce <sup>®</sup> , and Scout <sup>®</sup> , X-TRA.

160926

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS A/A (OZ/A)</b>	<b>REMARKS</b>
Cotton (cont'd)			<p><b>SPRAY DRIFT PRECAUTIONS</b>            All aerial equipment and ground application equipment must be properly maintained and calibrated using appropriate carriers. Do not make aerial or ground applications during temperature inversions. Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wingtip or rotor vortices. Boom length must not exceed 75% of wing span or rotor diameter.</p>
Cucurbit Vegetables *	Leafminers and Squash Bugs  Cabbage Looper, Cucumber Beetle (adults), Cutworms, Melon Worm, Pickleworm, Plant Bugs, (including Lygus and Stink Bugs), Rindworms and Squash Vine Borer.	0.2 (12.8)  0.1-0.2 (6.4-12.8)	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 1.6 pounds active ingredient per acre per season. AMBUSH may be applied up to harvest.



17/2/26

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS A/A (OZ/A)</b>	<b>REMARKS</b>
Eggplant	Colorado Potato Beetle	0.2 (12.8)	Apply by ground or air equipment using sufficient water to obtain uniform coverage. Apply as needed. Do not apply more than 3.0 lbs. a.i. per acre per season. Do not apply within 3 days of harvest.
	Vegetable Leafminer, Cabbage Looper, Flea Beetle	0.1-0.2 (6.4-12.8)	
Field Corn/ Popcorn/ Field Corn Grown for Seed (Preemer- gent Use)	Amyworm, Cutworms	0.1-0.2 (6.4-12.8)	Apply in the time period from 5 days prior to planting up to emergence of the crop. Apply as a broadcast spray in a minimum of 10 gallons of finished spray/acre with ground equipment or 1 gallon/acre by air*.
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	0.1-0.2 (6.4-12.8)	Apply prior to the brown silk stage. Apply a minimum of 1 gallon of finished spray/acre by air and 10 gallons/acre with ground equipment.*  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.*

180/26

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS A/A (OZ/A)</b>	<b>REMARKS</b>
Filberts	Filbertworm, Oblique banded Leafroller	0.2-0.4 (12.8-25.6)	Apply when insects appear. Do not apply more than 1.6 lbs. a.i. per acre per season. Apply in a minimum of 15 gallons of finished spray per acre with ground equipment. Do not apply within 14 days of harvest. Do not graze livestock in treated orchards.
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 every 3-5 days or as needed by air or ground. Use sufficient water to obtain full coverage of foliage. Do not apply more than 2.0 lbs. a.i. per acre per season. Can be applied up to 1 day of harvest.
Lettuce (Refer to Leafy Vegetables for application directions)			
Mushrooms (Mushroom houses & adjacent premise areas)	Mushroom Flies (Sciarid and Phorid Adults)	Apply 6 oz. <sup>d</sup> to 11 gal. water or 8 level tablespoons to 3 gal. water. As a guide, use 1 gal. spray per 750 sq. ft. (400- 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 cooldown, 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 two 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.

19 of 26

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS A/A (OZ/A)</b>	<b>REMARKS</b>
Onions (Dry Bulb) and Garlic	Onion Thrips Armyworms	0.15-0.3 (9.6-19.2)	Apply in a minimum of 20 gals per acre with ground equipment or in a minimum of 6 gallons/acre by air <sup>o</sup> as a foliar spray. Begin applications when pests appear and repeat as necessary to maintain control. Use the higher label rates as Onion Thrips population increases and avoid rescue situations. Do not apply more than 2.4 pounds active per acre per season. Do not apply within 1 day of harvest. Do not graze livestock in treated areas or cut treated crops for feed.
	Cutworms Leafminers Onion Maggots (adults) Stink Bugs	0.1-0.3 (6.4-19.2)	
Ornamentals Nursery Stock <sup>c</sup> (field-grown)	Beet Armyworm Cabbage Looper Citrus Thrip Heliothis Spp. Leafhoppers Leafminers Whiteflies Cutworms	0.1-0.2 (lbs ai/100 gal)	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.
Papaya (Florida only)	Fruit fly	0.1 (12.8) <sup>1</sup> <u>oz./100 gal.</u> 6.4	Apply by ground equipment. Spray to wet all foliage. Apply when insects appear and repeat at 7-10 day intervals as needed to provide control.  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.

20926

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS A/A (OZ/A)</b>	<b>REMARKS</b>
Peaches	Peach Twig Borer, Oriental Fruit Moth, Green Fruitworm, Lesser Peachtree Borer, Plum Curculio, Tarnished Plantbug, Rose Chafer	0.1-0.4 (6.4-25.6)	Apply by ground equipment using 25-400 gallons of spray per acre. Spray to wet all foliage. Can be applied up to 7 days before harvest. Do not apply more than 3.0 lbs. a.i. per acre per season. Do not graze livestock in treated orchards.
Pears (Dormant)	Pear Psylla	0.2-0.4 (12.8-25.6)	Apply at a rate of 0.8 to 1.6 lbs. (0.2 to 0.4 lbs. active) 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. Apply in 3 to 20 gallons of finished spray per acre by aircraft and 25 to 400 gallons per acre by ground equipment. Do not apply more than 0.8 lbs. a.i. per acre per season. Do not graze orchard floor.
Pears (Pre-Bloom/ Seasonal)	Pear Psylla, Coding Moth, Green Fruitworm	0.2-0.4 (12.8-25.6)	Apply two pre-bloom sprays followed by three seasonal sprays. Pre-bloom sprays can be applied from dormant through bud burst stages. Seasonal sprays can be applied from petal fall up to 14 days of harvest. Do not apply more than 2.0 lbs. a.i. per acre per season.

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS A/A (OZ/A)</b>	<b>REMARKS</b>
Peppers (Bell)	Vegetable Leafminer, Cabbage Looper, Flea Beetle, Pepper Weevil	0.1-0.2 (6.4-12.8)	Apply by ground or air equipment using sufficient water to obtain uniform coverage. Apply as needed. Do not apply more than 1.6 lbs. a.i. per acre per season. Do not apply within 3 days of harvest.
	European Corn Borer	0.2 (12.8)	
Pistachios	Peach Twig Borer, Navel Orangeworm, Chinch Bug	0.2-0.4 (12.8-25.6)	Apply at a rate of 0.8 to 1.6 lbs. (0.2-0.4 lb active) per acre. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.8 lbs. 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 orchards.
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 as needed by air or ground. Use sufficient water to obtain full coverage of foliage. Do not apply more than 2.4 lbs. a.i. per acre per season. Can be applied up to 7 days prior to harvest.
Pumpkins (Refer to Cucurbit Vegetables for application directions)			
Roses <sup>c</sup> (field-grown)	Heliothis Spp.	0.1-0.2 (6.4-12.8)	Apply in 5 gallons of finished spray per acre with ground equipment and 1 gallon acre by air.

*22/06*

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS AVA (OZ/A)</b>	<b>REMARKS</b>
Roses <sup>c</sup> (greenhouse)	Beet Armyworm Cabbage Looper Omnivorous Leafroller	8 fl oz/100 gals water	AMBUSH 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, and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.
Soybeans	Green Cloverworm, Mexican Bean Beetle, Bean Leaf Beetle, Cabbage Looper, Potato Leafhopper, Velvetbean Caterpillar, Saltmarsh Caterpillar  Corn Earworm, Beet Armyworm Japanese Beetle*** Soybean Looper,*	0.05-0.1 (3.2-6.4)          0.1-0.2 (6.4-12.8)	Apply by air or ground. Do not apply more than 0.4 lbs. a.i., per acre per season. Can be applied up to 60 days before harvest. Do not graze treated areas of harvest for forage or hay.
Spinach (Refer to Leafy Vegetables for application directions)			

23 of 26

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS A/A (OZ/A)</b>	<b>REMARKS</b>
Sweet Corn	<p> <b> Corn Earworm,  European Corn Borer,  Fall Armyworm,  Corn Rootworm Adults,  Cutworms,  Aster Leafhopper  Flea Beetle<sup>c</sup> </b> </p>	<p> <b> 0.1-0.2  (6.4-12.8) </b> </p>	<p> Apply every 5 days or as needed by air or ground. Do not apply more than 1.2 lbs. a.i. per acre per season. Do not apply within 1 day of harvest of ears or forage or livestock grazing. AMBUSH 25W may be mixed with LANNATE<sup>®</sup> (methomyl) in accordance with label limitations and precautions. Label dosage rates should not be exceeded. </p>
<p> Sweet Corn  (Florida only-corn grown for the fresh market) </p>	<p> <b> Corn Earworm,  European Corn Borer,  Fall Armyworm,  Southern Armyworm,  Corn Rootworm Adults,  Cutworms,  Aster Leafhopper </b> </p>	<p> <b> 0.1-0.25  (6.4-16.0) </b> </p>	<p> Apply every 5 days or as needed by air or ground. Do not apply more than 3.25 lbs. a.i., per acre per crop season. Do not graze livestock in treated areas or harvest for forage. AMBUSH 25W may be mixed with LANNATE<sup>®</sup> (methomyl) in accordance with label limitations and precautions. Label dosage rates should not be exceeded. </p>
<p> Tomatoes  (only for application to tomatoes grown in Florida and Puerto Rico for final marketing as fresh tomatoes.) </p>	<p> <b> Tomato Fruitworm,  Cabbage Looper,  Tomato Pinworm,  Vegetable Leafminer,  Beet Armyworm  Southern Armyworm,  Colorado Potato Beetle,  Granulate Cutworm,  Homworm </b> </p>	<p> <b> 0.05-0.2  (3.2-12.8) </b> </p>	<p> Apply by air or ground in sufficient water to obtain uniform coverage. Do not apply more than 1.2 lbs. a.i./acre per crop 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). </p>

24 of 26

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE LBS AVA (OZ/A)	REMARKS
Turnips (FL, GA, IL, IN, OK, SC, TX, WA only)  (TX, OK, IL, IN only)  (SC, GA, FL, WA only)	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid	0.05-0.1 (3.2-6.4)	Apply by ground equipment only. Spray using sufficient water to obtain uniform coverage. Apply as needed. Do not apply within 1 day of harvest. Do not graze treated areas or feed crop refuse to livestock.  Do not exceed 8 applications.  Do not exceed 4 applications.
Walnuts	Navel Orangeworm, Coding Moth, Walnut Husk Fly	0.2-0.4 (12.8-25.6)	Apply when insects appear. Do not apply more than 1.6 lbs. a.i. per acre per season. Apply in a minimum of 20 gallons of finished spray per acre by aircraft or 100 gallons of finished spray per acre with ground equipment. Do not apply within 1 day of harvest. Do not graze livestock in treated orchards.

\* 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®.

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

\*\* Amaranth (leafy amaranth, Chinese spinach, tampala); arrugula (Roquette); 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, rhubarb; spinach; spinach, fine; spinach, New Zealand; Swiss chard.

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



25 of 26

- + Balsam pear (Bitter Melon); Chinese Waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourds, edible; melons, including hybrids such as cantaloupe, casaba, crenshaw, honeydew melons, honey balls, mango melon, muskmelon, Persian melon; pumpkin; squash, summer and winter; watermelon, including hybrids.
- a Aids in suppression.
- b Only suppression can be expected when utilized on a 5-7 day schedule.
- c Currently not registered for use in California.
- d 1 oz. of this powder equals 5 level teaspoons.
- e Maximum use rate in California is 0.1 lbs. a.i./Acre.
- f Under heavy insect pressure use 0.2 lbs a.i./Acre. A second application of alternate chemistry may be necessary to reduce populations below economic thresholds.
- 1 Do not use more than 12.8 oz. AMBUSH 25W/A. The final spray should be no more concentrated than 12.8 oz./100 gallons for avocados and 6.4 oz./100 gallons for papayas. Since tree size and spacing will affect the amount of spray needed for dilute sprays, the applicator must know the number of gallons of water/A needed to spray the trees to the point of drip. If you do not know this gallonage, you should conduct a test to determine it. If you do not know how to conduct such a test with your equipment, you should ask for assistance from your equipment dealer. For dilute sprays (i.e., sprayed to the point of runoff) 12.8 oz. AMBUSH 25W should be dilute with the gallonage determined by this test.

**STORAGE AND DISPOSAL**

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

**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:** 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.

RATE CONVERSION CHART		
POUNDS ACTIVE/ACRE	FORMULATION OUNCES/ACRE	FORMULATION LBS/ACRE
0.05	3.2	0.2
0.10	6.4	0.4
0.125	8.0	0.5
0.15	9.6	0.6
0.175	11.2	0.7
0.20	12.8	0.8

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