



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

NOV 27 1990

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

Ms. Elizabeth A. Hirsh
ICI Agricultural Products
Wilmington, DE 19897

Dear Ms. Hirsh:

Subject: Application For Amendment
Ambush 2E Insecticide
EPA Registration No. 10182-18
Ambush 25WP Insecticide
EPA Registration No. 10182-35
Ambush 25WP WSP Insecticide
EPA Registration No. 10182-110
Your Letter Dated November 21, 1990

300,583,5490
17

The Agency accepts your application for amended registration incorporating the terms and conditions stipulated in the subject letter.

Therefore in accordance with FIFRA section 3 the conditional registrations of the subject products are approved for a period not to exceed November 15, 1992.

A stamped copy of the draft labeling submitted November 7, 1990 is enclosed. We agree that this labeling including supplemental labeling will be revised to incorporate the revisions specified in paragraph 1 of the subject letter before distribution or use. Please submit five copies of revised finished labeling when printing is completed.

Sincerely,

A handwritten signature in dark ink, appearing to read "George T. LaRocca".

George T. LaRocca
Product Manager 15
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Enclosure

AMBUSH® 25W

(WETTABLE POWDER)

EPA REGISTRATION NO. 10182-35



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND
DOMESTIC ANIMALS**

WARNING

**MAY CAUSE EYE IRRITATION
IF SWALLOWED**

Do not get in eyes, on skin, or on clothing.
Wash thoroughly after handling.

**STATEMENT OF PRACTICAL FIRST-
AID:** 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 uncon-
scious person.

**FOR IN-HOUSE EMERGENCY MEDICAL
ASSISTANCE, CALL
(800) 4-A-S-T-E-R-9 (287-4289).
FOR CHEMICAL EMERGENCY: Call
Tox, Inc., exposure, or accident Call
CHEMTREC 1-800-424-9303.**

ENVIRONMENTAL HAZARDS:

RESTRICTED USE PESTICIDE. See Attachment A



**Keep Out
of Reach
of Children**

WARNING

See Data Sheet
for Additional
Precautions,
Restrictions,
and
Antidote Information.

EPN Reg. No. 10-107-20
EPA Reg. No. 2525-107-1
EPA Pesticide ID No. 107-1

Net Weight
2 POUNDS

**WETTABLE
POWDER**

AVISO - PRECAUCION AL USUARIO:

Si usted no lee ingles, no use este producto
hasta que le entregue la hoja de explicacion
en su idioma.

ACTIVE INGREDIENTS:

Permethrin	95%
(2-PHENYL-4-METHOXYPHENYL) ETHANOL	5%
INERT INGREDIENTS	95%
Net Weight	2 POUNDS

*Contains 100% permethrin (95% active and 5% inert).



DIRECTIONS FOR USE

It is a violation of Federal law to use this
product in a manner inconsistent with
its labeling.
Refer to attached label for directions
for use.
ENDANGERED SPECIES: Refer to product
labeling for use restrictions to protect.

STORAGE AND DISPOSAL

PRECAUTIONS: Do not contaminate
water, food or feed by storage or
disposal. Do not reuse empty con-
tainer.

STORAGE: Store 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 surface, sweep
up and remove to chemical waste
area.

PESTICIDE DISPOSAL: Wastes re-
sulting 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 equip-
ment. Then dispose of empty bag in a
sanitary landfill or by incineration, or,
if allowed by state and local authori-
ties, by burning. If burned, stay out
of smoke.

WETTABLE
POWDER

WETTABLE
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WETTABLE
POWDER

See Attachment B



Agricultural Products

ICI Americas Inc.
Wilmington, Delaware 19807

BEST AVAILABLE COPY

NOV 27 1990

1216

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.

ATTACHMENT B

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). 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. Do not apply this product or contaminate water when disposing of equipment washwaters.

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.

(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)

Notice to Buyer and User: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label 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 use conditions, or under conditions not reasonably foreseeable to 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. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OF 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)

(Roundel) Agricultural Products
ICI Americas Inc.
Wilmington, Delaware 19897

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EPA Reg. No. 10182-35

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO PRECAUCION AL USUARIO:

Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicado ampliamente.

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.

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.

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.

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.

ENVIRONMENTAL HAZARDS: This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). 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. Do not apply this product or contaminate water when disposing of equipment washwaters.

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.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). 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. Do not apply this product or contaminate water when disposing of equipment washwaters.

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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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. Do not apply more than 12 lbs per acre per season (3 lbs ai/acre). 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.

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.

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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 $\frac{1}{2}$ acre-inch or less during treatment. If stationary (solid sets, handlines of 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.

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.

DIRECTIONS FOR APPLICATION

Crop	Target Pests	Rate lbs ai/A (oz/A)	Remarks
Alfalfa, Alfalfa grown for seed	Alfalfa Caterpillar Armyworm Cutworm Looper Webworm Potato Leafhopper Blue Alfalfa Aphid ^f Green Peach Aphid Pea Aphid ^f Green Cloverworm Spotted Alfalfa Aphid Velvetbean Caterpillar Alfalfa Weevil ^f Egyptian Alfalfa Weevil ^f Cucumber Beetle Meadow Spittlebug Plant Bugs including Lygus spp. Stink Bugs	0.05-0.2 (3.2-12.8) <	

<u>Crop</u>	<u>Target Pests</u>	<u>Rate lbs ai/A (oz/A)</u>	<u>Remarks</u>
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 3 days of harvest.
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.
Avocados	Thrips, Leafhoppers, Mirid bugs, larvae	0.2 (12.8) ¹ <u>oz./100gal.</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)			

Crop	Target Pests	Rate lbs ai/A (oz/A)	Remarks
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 ^c (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.
LE CROPS broccoli	Cabbage Looper, Imported Cabbageworm Diamondback Moth ^g , Cabbage Aphid ^a	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 ^g , Cabbage Aphid ^a	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.

Crop	Target Pests	Rate lbs ai/A (oz/A)	Remarks
Cabbage	Cabbage Looper, Imported Cabbageworm, Diamondback Moth ^g , Cabbage Aphid ^a	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 ^g , Cabbage Aphid ^a	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 ^g , Cabbage Aphid ^a	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.
Chinese Broccoli ^c (gailon, white flowering)	Cabbage Looper, Imported Cabbageworm Diamondback Moth ^g , Cabbage Aphid ^a	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 ^g 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 ^c (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.

Crop	Target Pests	Rate lbs ai/A (oz/A)	Remarks
Cotton	Bollworm, Tobacco Budworm, Pink Bollworm, Lygus Bugs, Cabbage Looper, Cotton Leafperforator, Boll Weevil, Cotton Fleahopper, Saltmarsh Caterpillar, Whitefly, ^b Cotton Aphid, ^b Cutworms	0.1-0.2 (6.4-12.8)	<p>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 Ambush², Ammo², Asana² XL, Baythroid², Capture², Cymbush², Karate², Pounce², and Scout² X-TRA.</p> <p>SPRAY DRIFT PRECAUTIONS</p> <p>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).</p>

Crop	Target Pests	Rate lbs ai/A (oz/A)	Remarks
Cotton			Do not apply when wind velocity is above 10 mph except when average daytime wind velocities exceed 10 mph for more than 48 hours. Under such conditions, applications may be made at wind velocities up to 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.
Cucurbit Vegetables+	Leafminers and Squash Bugs	0.2 (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.
	Cabbage Loper, Cucumber Beetle, (adults), Cutworms Melon Worm, Pickleworm, Plant Bugs, (including Lygus and Stink Bugs), Rindworms and Squash Borer.	0.1-0.2 (6.4-12.8)	
Eggplant	Colorado Potato Beetle ^g	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)	

Crop	Target Pests	Rate lbs ai/A (oz/A)	Remarks
Field Corn/ Popcorn/ Field Corn Grown for Seed (Preemer- gent Use)	Armyworm, 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 are suggested to initiate movement.*
Liberts	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,	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.

Crop	Target Pests	Rate lbs ai/A (oz/A)	Remarks
Leafy Vegetables (cont'd)	Leafhoppers, European Corn Borer		
Lettuce (Refer to Leafy Vegetables for application directions)			
Mushrooms (Mushroom houses & adjacent premise areas)	Mushroom Flies (Sciarid and Phorid Adults)	Apply 6 oz. 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.
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 ^c as a foliar spray. Begi. applications when pests appear
	Cutworms Leafminers Onion Maggots (adults) Stink Bugs	0.1-0.3 (6.4-19.2)	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.

Crop	Target Pests	Rate lbs ai/A (oz/A)	Remarks
Ornamentals Nursery Stock ^c (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) orida only))	Fruit fly	0.1 (12.8) ¹ oz./100 gal. 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.
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.

Crop	Target Pests	Rate lbs ai/A (oz/A)	Remarks
Pears (Pre-Bloom/ Seasonal)	Pear Psylla, Codling 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.
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)	
Stachios	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 ^g , 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.

Impkins (Refer to Cucurbit Vegetables for application directions)

Crop	Target Pests	Rate lbs ai/A (oz/A)	Remarks
Raspberries (OR & WA only)	Adult root weevils	0.2 (12.8)	Spray with ground application equipment as needed for control in a minimum of 100 gals. of water per acre. Do not apply within 3 days of harvest. Do not make more than two applications per season. Do not make second application within 11 days of the first.
Roses ^c (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.
Roses ^c (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.
beans	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. 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.
	Corn Earworm, Beet Armyworm Soybean Looper, e.g	0.1-0.2 (6.4-12.8)	

Crop	Target Pests	Rate lbs ai/A (oz/A)	Remarks
Spinach (Refer to Leafy Vegetables for application directions)			
Sweet Corn	Corn Earworm, European Corn Borer, Fall Armyworm, Corn Rootworm Adults, Cutworms, Aster Leafhopper Flea Beetle	0.1-0.2 (6.4-12.8)	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 mixed with LANNATE® (methomyl) in accordance with label limitations and precautions. Label dosage rates should not be exceeded.
Let Corn (Florida only: corn grown for the fresh market)	Corn Earworm, European Corn Borer, Fall Armyworm, Southern Armyworm, Corn Rootworm Adults, Cutworms, Aster Leafhopper	0.1-0.25 (6.4-16.0)	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® (methomyl) in accordance with label limitations and precautions. Label dosage rates should not be exceeded.
Tomatoes (only for application to tomatoes grown in Florida and Puerto Rico for final marketing as fresh tomatoes.)	Tomato Fruitworm, Cabbage Looper, Tomato Pinworm, Vegetable Leafminer, Beet Armyworm Southern Armyworm, Colorado Potato Beetle ^g , Granulate Cutworm, Hornworm	0.05-0.2 (3.2-12.8)	Apply by air or ground in sufficient water to obtain uniform coverage. Do not 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).
Turnips (FL, GA, IL OK, SC WA only)	Cabbage Looper Imported Cabbageworm Diamondback Moth ^g 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 exceed 4 applications. Do not apply within 1 day of harvest. Do not graze treated areas or feed crop refuse to livestock. Do not exceed 8 applications.
(TX & IN only)			

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Crop	Target Pests	Rate lbs ai/A (oz/A)	Remarks
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.

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*AMBUSH 25W may be applied in tank mixtures with the following herbicides in accordance label limitations and precautions. Label dosage rates should not be exceeded.
LASSO®/Atrazine Pre-mix; 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 tank-mix AMBUSH® 25W Insecticide with BICEP®, GRAMOXONE® SUPER.

**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 (sorrell); endive (escarole); fennel, Florence; lettuce (head and leaf); orach; parsley; purslane, garden; purslane, winter, ruhubarb; spinach; spinach, fine; spinach, New Zealand; Swiss chard.

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

+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.

) Only suppression can be expected when utilized on a 5-7 day schedule.

) Currently not registered for use in California.

^c 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.

^g In areas infested with resistant insects 0.2 lbs a.i./Acre will provide suppression only. In this situation due to pyrethroid cross resistance a second application using alternate chemistry may be needed.

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 avacados and 6.4 oz./100 gallons for payayas. 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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