



U S ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 M St S W  
Washington D C 20460

EPA Reg Number  
275-104

Date of Issuance  
FEB 5 1997

NOTICE OF PESTICIDE  
  x   Registration  
      Reregistration

Term of Issuance  
Conditional

Name of Pesticide Product  
ABG-6406 Biological  
Insecticide

(under FIFRA as amended)

Name and Address of Registrant (include ZIP Code)  
Abbott Laboratories  
Chemical & Agricultural Products Division  
D-28R, Bldg A-1  
1401 Sheridan Road  
North Chicago, IL 60064

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce In any correspondence on this product always refer to the above EPA registration number

On the basis of information furnished by the registrant the above named pesticide is hereby registered/reregistered under the Federal Insecticide Fungicide and Rodenticide Act  
Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency In order to protect health and the environment the Administrator on his motion may at any time suspend or cancel the registration of a pesticide in accordance with the Act The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you

1 Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data

2 Make the following label changes

- a Revise the EPA Registration Number to read, "EPA Reg No '104"
- b Modify the Statement of Practical Treatment to read as follows

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES Flush eyes with plenty of water Call a physician if irritation persists

IF ON SKIN Wash with plenty of soap and water Get medical attention if irritation persists

IF INHALED Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth Get medical attention

Signature of Approving Official

Date FEB 5 1997

c Modify the Hazards to Humans and Domestic Animals section by changing "Harmful if swallowed eyes, or clothing " to read Harmful if inhaled, or absorbed through the skin Causes moderate eye irritation Avoid breathing dust or spray mist Avoid contact with skin, eyes, or clothing "

d In the Agricultural Use Requirements box, modify the REI from 12 to 4 hours

e Move the Storage and Disposal section behind the directions for use on the master label and delete the metal can container disposal instructions since metal cans were not indicated on your application form as a type of container used for this product

f Delete 'ABG-6406 is a non-restricted use pesticide and does not require a restricted use permit for purchase and use " as it is an implied safety claim

g Add "(Ground Application Only)" after "Sunflowers" in the application rate table on page 15 of your label.

h On page 16 of your label modify footnotes 4 and 5 so that they are listed as footnotes 5 and 6 since a different footnote 4 appears on page 15

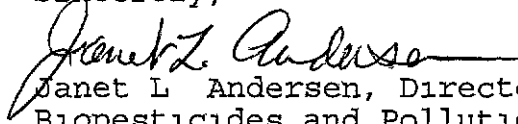
3 The registration of this product will expire January 15, 1998 Subsequent to registration and via an amendment application, the Agency may amend this product to remove the expiration date provision after Agency acceptance of valid LC<sub>50</sub>s from the trout and *Daphnia* studies currently under review in BPPD and referenced in MRID Nos 437576-01 & 438288-01

4 Submit five (5) copies of the revised final printed label for the record

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec 6(e) Your release for shipment of the product constitutes acceptance of these conditions

A stamped copy of the label is enclosed for your records

Sincerely,

  
Janet L. Andersen, Director  
Biopesticides and Pollution  
Prevention Division (7501W)

ABG 6406  
BIOLOGICAL INSECTICIDE

WATER DISPERSIBLE GRANULE  
BIOLOGICAL INSECTICIDE

Active Ingredient

*Bacillus thuringiensis*, subsp. *arizawa*  
Lepidopteran active toxin(s)

10.3% w/w

Inert Ingredients

89.7% w/w

Total

100.0% w/w

Potency 35,000 Diamondback Moth Units per mg of product or 15.9 billion  
Diamondback Moth Units per pound of product

Potency units should not be used to adjust use rates beyond those  
specified in the Directions For Use Section

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Registration No 275-  
EPA Est No 33762-IA 1

APPROVED  
with COMMENTS  
In EPA Letter Dated  
JUN 5 1997  
Under  
EPA

Patent Pending

275-104

**STATEMENT OF PRACTICAL TREATMENT**

In case of contact with eyes or skin, immediately flush eyes or skin with plenty of water  
Get medical attention if irritation persists

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

Harmful if swallowed inhaled or absorbed through the skin May cause eye irritation  
Avoid breathing dust or spray mist Avoid contact with skin eyes or clothing

**PERSONAL PROTECTIVE EQUIPMENT**

WPS USES For those uses covered by the Worker Protection Standard (40 CFR Part 170) - in general, agricultural plant uses are covered - handlers who may be exposed to the dilute through application or other tasks must wear long sleeved shirt and long pants, waterproof gloves shoes plus socks and dust/mist filtering respirator (MSHA/NIOSH approval number prefix TX-21C)

In addition, handlers who may be exposed to the concentrate through mixing loading application or other tasks must wear long sleeved shirt and long pants waterproof gloves shoes plus socks and dust/mist filtering respirator (MSHA/NIOSH approval number prefix TX-21C)

NON-WPS USES For those uses NOT covered by the Worker Protection Standard 40 CFR Part 170 - in general, agricultural plant uses are covered mixers, loaders, and applicators must wear a dust mask when handling this product

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

## USER SAFETY RECOMMENDATIONS

Users should

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet

- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

The toxicity of this product to the predatory wasp *Trichogramma pretiosum* is not known.

This product is toxic to the green lacewing and the predatory mite *Metaseiulus occidentalis*.

This product is highly toxic to honey bees exposed to direct treatment. Do not apply this product while bees are actively 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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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.

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, waterproof gloves, and shoes plus socks.

**NON AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

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## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal

**Storage** Reclose containers of unused ABG 6406 Store in a dry place inaccessible to children and out of sunlight

**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

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

**Metal Can** Triple rinse (or equivalent) Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities

**Plastic Bag** 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

## DIRECTIONS FOR USE

See Chemigation Section for Chemigation use directions

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

**Days to Harvest** There are no restrictions on applying ABG-6406 up to the time of harvest Individual state regulations may vary and should be consulted for allowable pre-harvest application intervals

**Sites** ABG 6406 may be used for any labeled pest in both field and greenhouse use

ABG-6406 is an insecticide for use against listed caterpillars (larvae) of lepidopterous insects. Close scouting and early attention to infestations is highly recommended. Larvae must eat deposits of ABG-6406 to be affected. Always follow these directions.

Treat when larvae are young (early instars) before the crop is damaged.

Larvae must be actively feeding on treated, exposed plant surfaces.

- Thorough spray coverage is needed to provide a uniform deposit of ABG 6406 at the site of larval feeding. Use overhead and drop nozzles to obtain good spray coverage on both sides of foliage. Use sufficient spray volume to insure uniform deposition on all plant surfaces.

Under heavy pest population pressure, use the higher label rates, shorten the spray interval, and/or raise spray volume to improve spray coverage.

- Repeat applications at an interval sufficient to maintain control, usually 3 to 14 days depending on plant growth rate, moth activity, rainfall after treating, and other factors. If attempting to control a pest with a single spray, make the treatment when egg hatch is essentially complete, but before crop damage occurs.
- A spreader-sticker which has been approved for use on growing and harvested crops should be added for hard-to-wet crops such as cabbage, or to improve weather fastness of the spray deposits.
- ABG-6406 is a non-restricted use pesticide and does not require a restricted use permit for purchase and use.
- ABG-6406 may be tank mixed with other labeled insecticides to enhance control. Use of the resulting tank mix must be in accordance with the more restrictive label limitations and precautions. No dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. Before tank mixing ABG 6406 with other labeled products, including spreader stickers, check for tank mix compatibility.

After ingesting a lethal dose of ABG 6406, larvae stop feeding within the hour, and will die within several hours to 3 days. Mortality varies with larval size (instar), lepidopteran species, and dose consumed. Following ingestion, larvae become sluggish, discolor, then shrivel, blacken and die. Smaller larvae die more quickly.



ABG 6406 may be applied in conventional ground or aerial equipment with quantities of water sufficient to provide uniform coverage of infested plant parts. The volume of water needed per acre will depend on crop development, relative humidity, spray equipment and local experience. Usually, selection of moderate to high spray volume will provide the best results in most equipment. For optimal results, use at least 2 gallons of water per acre by air, except in arid areas where 5 to 10 gallons are required. Add water to the mix tank and provide moderate agitation. With agitating, add the required amount of ABG 6406. Continue agitation and add other spray materials if any. Add remaining water, if any, and agitate until fully mixed. Maintain the suspension with moderate agitation while loading and spraying. Do not mix more ABG 6406 than can be used in a 3 day period.

#### For Smaller Spray Volumes

If Rate is	Use This Amount Per Gallon (wt)	
1/4 lb /acre or 100 gals	1/2 tsp	(0.04 oz)
1/2 lb /acre or 100 gals	1 tsp	(0.08 oz)
1 lb /acre or 100 gals	2 tsps	(0.16 oz)
2 lb /acre or 100 gals	4 tsps	(0.32 oz)

#### CHEMIGATION USE DIRECTIONS

Refer to these label sections under **General Instructions** for application rate information when chemigation is used.

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 systems. Do not apply this product through any other type of irrigation systems. Do not connect an irrigation system (including greenhouse systems) used for pesticide applications to a public water system.

#### Spray Preparation

First prepare a suspension of ABG 6406 in a mix tank. Fill tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of ABG 6406, and then the remaining volume of water. Then set the sprinkler to deliver a minimum of 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the suspension of ABG 6406 into the irrigation water line so as to deliver the desired rate.

per acre The suspension of ABG 6406 should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing Any questions on calibration should be directed to your State Extension Service Specialists to equipment manufacturers or other experts

**NOTE** When treatment with ABG 6406 has been completed, further field irrigation over the treated area should be avoided for 24 to 48 hours to prevent washing the material off the crop

**General Precautions for Applications Through Sprinkler Irrigation Systems**

Maintain continuous agitation in the mix tank during the mixing and application to insure a uniform suspension

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume for a more dilute solution per unit time

Crop injury, lack of effectiveness, or illegal residues in the crop can result from nonuniform distribution of treated water 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 Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water

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

The pesticide injection pipeline must contain a functional, automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump

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 is either automatically or manually shut down

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops

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

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. Do not apply when wind speed favors drift beyond the area intended for treatment

Do not apply when wind speed favors drift when system connections or fittings leak when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained

### GENERAL INSTRUCTIONS/APPLICATION RATE

Crop Group (Miscellaneous)	Pests	Pound/Acre
<b>Alfalfa (Hay and Seed) Hay and Other Forage Crops</b>	Loopers *Alfalfa Caterpillar *European Skipper (Essex Skipper) Armyworms	1/4 1 1/2 1/4 - 1 1/2 1/4 1 1/2 1/4 3
<b>Berries and Small Fruit</b> such as Grapes Strawberries and Blackberries and Cranberries	Grapeleaf Skeletonizer *Grape Leafroller *Achemia Sphinx Moth (Hornworm) *Saltmarsh Caterpillar *Omnivorous Leafroller Loopers *Orange Tortrix *Oblique Banded Leafroller Armyworms' Tobacco Budworm Grape Berry Moth *Melonworms *Cutworms	1/4 1 1/2 1/4 - 1 1/2 1/4 1 1/2 1/4 1 1/2 1/4 - 1 1/2 1/4 1 1/2 1/4 - 1 1/2 1/4 - 3 1/4 - 2 1/4 - 2 1/4 1 1/2 1/4 1 1/2
<b>Bulb</b> such as Garlic and Onions (green and bulb)	Loopers *Omnivorous Leafroller *Hornworms Imported Cabbageworm Diamondback Moth <sup>4</sup> *Green Cloverworm Webworm *Saltmarsh Caterpillar Armyworms *Cutworms Cross-striped Cabbageworm Heliothis	1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 3 1/2 1 1/2 1/4 1 1/2 1/4 - 2

APPLICATION RATE (Continued)

Crop Group (Miscellaneous)	Pest	Pounds/Acre
<b>Curcubit Vegetables</b> such as Melons Cucumbers and Squash	Loopers	1/4 1
	*Melonworms	1/4 - 1
	*Rindworm complex	1/4 1
	Armyworms <sup>1</sup>	1/4 3
	Cutworms	1/4 2
<b>Flowers, Bedding Plants and                      Ornamentals</b> (Ground application only)	Loopers	1/4 - 1 1/2
	Tobacco Budworm	1/4 1 1/2
	*Omnivorous Looper	1/4 1 1/2
	*Omnivorous Leafroller	1/4 - 1 1/2
	Diamondback Moth <sup>4</sup>	1/4 - 1 1/2
	Armyworms	1/4 3
	*Ello Moth (Hornworm)	1/4 - 1 1/2
	*Io Moth	1/4 1 1/2
	*Oleander Moth	1/4 - 1 1/2
	*Azalea Caterpillar	1/4 1 1/2
<b>Fruiting Vegetables</b> such as Tomatoes, Peppers and Eggplant	Loopers	1/4 - 1 1/2
	Hornworm	1/4 - 1 1/2
	Tomato Fruitworm	1/4 - 1 1/2
	*Variegated Cutworm	1/4 - 1 1/2
	*Saltmarsh Caterpillar	1/4 - 1 1/2
	Armyworms <sup>1</sup>	1/4 - 3
<b>Greenhouse/Shadehouse                      and Outdoor Nursery Crops</b> such as Leafy Herbs, Brassica and Fruiting groups	Loopers	1/4 1 1/2
	Heliothis	1/4 - 2
	Armyworms <sup>1</sup>	1/4 - 3
<b>Herbs, Spices and Mints</b> such as Basil Chives, Dill, Leeks and Peppermint	Looper	1/4 - 1 1/2
	*Saltmarsh Caterpillar	1/4 1 1/2
	Armyworms <sup>1</sup>	1/4 - 3

**APPLICATION RATE (Continued)**

Crop Group (Miscellaneous)	Pests	Pounds/Acre
<b>Leafy and Cole Crops</b> such as Lettuce (head and leaf), Kale, Celery Spinach Broccoli, Cabbage Mustard Greens Brussel Sprouts, Cauliflower, Collards, Chinese Cabbage, Endive Kohlrabi and Parsley	Loopers *Omnivorous Leafroller *Hornworms Imported Cabbageworm Diamondback Moth* *Green Cloverworm Webworm *Saltmarsh Caterpillar Armyworms *Cutworms Cross striped Cabbageworm Heliothis	1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 3 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 2
<b>Legume Vegetables</b> such as Beans Peas Lentils and Soybeans	Loopers Soybean Looper *Green Cloverworm *Velvetbean Caterpillar Armyworms *Podworms	1/4 - 1 1/2 1/4 - 2 1/4 - 1 1/2 1/4 - 2 1/4 - 3 1/4 - 2
<b>Root and Tuber</b> such as Carrots, Potatoes, Beets and Sugarbeets	Loopers *Omnivorous Leafroller *Hornworms Imported Cabbageworm Diamondback Moth* *Green Cloverworm Webworm *Saltmarsh Caterpillar Armyworms *Cutworms Cross-striped Cabbageworm Heliothis	1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 3 1/4 - 1 1/2 1/4 - 1 1/2 1/4 - 2

**APPLICATION RATE (Continued)**

Crop Group (Miscellaneous)	Pest	Pounds/Acre
Stone Fruit such as Cherry Plum Peach Prune and Nectarine	*Redhumped Caterpillar	1/4 3
	*Tent Caterpillars	1/4 3
	*Omnivorous Leafroller	1/4 - 3
Pome Fruit such as Apples and Pear	*Fall Webworm	1/4 - 3
	*Walnut Caterpillar	1/4 - 3
Tree Nuts such as Almond Pecan Walnut and Filbert	*Cankerworms	1/4 3
	*Gypsy Moth	1/4 - 3
Pomegranates	*Variegated Leafroller	1/4 - 3
	*Redbanded Leafroller	1/4 3
	*Tufted Apple Budmoth	1/4 - 3
	*Fruittree Leafroller	1/4 3
	*Oriental Fruit Moth	1/4 - 3
	*Cutworms	1/4 - 3
	*Filbert Leafroller	1/4 - 3
	*Obliquebanded Leafroller	1/4 - 3
	*Codling Moth	1/4 - 3
	Armyworms	1/4 - 3
	*Twig Borer	1/4 - 3
Small Grains	Loopers	1/4 2
	Armyworms'	1/4 - 3
Tropical Fruits	Armyworms	1/4 - 3
	*Hornworm	1/4 - 2
	*Leafrollers	1/4 - 2
	*Omnivorous Looper	1/4 - 2
	Loopers	1/4 - 2

\* For all states except California

## APPLICATION RATE

Other Crops	Pests	Pounds/Acre
Asparagus	Armyworms	1/4 3
Avocado	Armyworms	1/4 3
	*Amorbia Moth	1/4 2
	*Omnivorous Leafroller	1/4 2
	*Omnivorous Looper	1/4 2
	*Orange Tortrix	1/4 2
	*Spanworm	1/4 2
Bananas	Armyworms	1/4 3
	*Banana Skipper	1/4 1 1/2
Canola (Rape)	Looper	1/4 2
	Armyworms	1/4 3
	Heliothis	1/4 2
Citrus	Armyworms	1/4 3
	*Fruittree Leafroller	1/4 2
	*Orangedog	1/4 2
	*Citrus Cutworm <sup>3</sup>	1/4 2
Corn (Sweet Field and Popcorn) Sorghum	Armyworms	1/4 3
	*Headworms	1/4 2
	European Corn Borer	1/4 2
Cotton	*Tobacco Budworm <sup>2</sup>	1/4 -3
	*Cotton Bollworm <sup>2</sup>	1/4 3
	Loopers	1/4 3
	*Saltmarsh Caterpillar	1/4 3
	Armyworms	1/4 3
Hops	Loopers	1/4 2
	Armyworms	1/4 3
Kiwi Fruit	Armyworms	1/4 3
	*Omnivorous Leafroller	1/4 2
Malanga	*Saltmarsh Caterpillar	1/4 2
	Armyworms	1/4 3
Peanuts	Armyworms	1/4 3
	Loopers	1/4 1 1/2
	*Velvetbean Caterpillar	1/4 1 1/2
	*Green Cloverworm	1/4 1 1/2
	*Podworms	1/4 1 1/2



**APPLICATION RATE (Continued)**

Other Crops	Pests	Pounds/Acre
Pineapple	Armyworms	1/4 3
	Gummosos Batrachedra comosae (Hodges)	1/4 1 1/2
	Thecla Thecla basilides (Geyr)	1/4 1 1/2
Safflower	Loopers	1/4 - 2
	*Saltmarsh Caterpillar	1/4 - 2
	Armyworms <sup>1</sup>	1/4 3
Sunflowers	Armyworms	1/4 - 3
	Loopers	1/4 - 2
	*Head Moth	1/4 - 2
Tobacco	Armyworms	1/4 - 3
	Tobacco Budworm	1/4 - 2
	*Hornworms	1/4 - 2
	Loopers	1/4 - 2
Turf	Armyworms <sup>1</sup>	1/4 - 3
	Sod Webworm	1/2 - 2

\*For all states except California

<sup>1</sup> ABG-6406 may be used to control small armyworms and/or podworms (1st and 2nd instar) when populations are light and full coverage sprays are applied Repeat treatment as necessary If mature worms or heavy populations are present a contact insecticide should be used to enhance control

<sup>2</sup> Use to control light to moderate populations of newly hatched worms in integrated pest management conditions Repeat treatments at 4 to 5 day intervals as long as necessary and results are acceptable Use in combination with ovicidal rates of labeled Heliothis ovicides

<sup>3</sup> Apply to light to moderate populations of newly hatched worms

<sup>4</sup> For best results use a ground applicator a minimum of 50 gallons total mix per acre 50 100 psi and 3 7 nozzles per bed

## APPLICATION RATE

ABG 6406 for Trees and Forests<sup>4</sup> (For all states except California)

Crop	Pest	lbs/100 gallons <sup>5</sup>
Forest Shade Sugar Maple Trees and Ornaments  (Ground Application Only)	Gypsy Moth	1/4 1
	Bagworm	1/4 1
	Redhumped Caterpillar	1/4 1
	Spring & Fall Cankerworm	1/4 1
	Fall Webworm	1/4 1
	Elm Spanworm	1/4 1
	Tent Caterpillars	1/4 1
	California Oakworm	1/4 1
	Pine Butterfly	1/4 1
	Spruce Budworms	1/4 1
	Saddle Prominent Caterpillar	1/4 1
	Douglas Fir Tussock Moth	1/4 1
	Western Tussock Moth	1/4 1
	Fruittree Leafroller	1/4 1
	Blackheaded Budworm	1/4 1
	Mimosa Webworm	1/4 1
	Jack Pine Budworm	1/4 1
Saddleback Caterpillar	1/4 1	
Greenstriped Mapleworm	1/4 1	
Hemlock Looper	1/4 1	

<sup>4</sup>Forest Shade, Sugar Maple Trees and Ornaments

<sup>5</sup>Rate for hydraulic sprayer For mist blowers, mix the applicable amount (lbs ) in 10 gallons of water

Note Inc usion of a suitable spreader-sticker approved for forest insect control is recommended to improve coverage rain fastness and/or resist wash-off

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### APPLICATION RATE

**ABG-6406 FOR STORED AGRICULTURAL COMMODITIES** (For all States except California)

**GRAINS, SOYBEANS, SUNFLOWER SEED, CROP SEED, CONDIMENTAL SEEDS, SPICES, HERBS, BIRDSEED AND POPCORN**

<u>Pest</u>	<u>Rate</u>
Indian Meal Moth <sup>o</sup>	3/8 lb 100 bu (undiluted and diluted)*
Almond Moth <sup>o</sup>	

\*As a surface treatment, apply 1/2 lb ABG-6406 in 5 10 gal of water per 500 sq ft of grain surface area mix into top 4 inches For commodities coarser than shelled corn increase depth of treatment according to the habit of the pest

<sup>o</sup>For the control and prevention of these pests, apply ABG-6406 in a constantly agitated water suspension to the top four inch surface layer of grain in the bin Use a sprinkler can or sprayer to apply the suspension into the grain stream as the last (top) four inch layer is augered into the bin Mix 1/20 lb ABG-6406 per gallon of water Apply 0.6 pint of this mixture per bushel as grain is augered into storage Or sprinkle the suspension onto the surface of the grain in the bin and mix thoroughly with a scoop or rake to the depth of four inches More thorough coverage may be achieved by dividing the recommended concentration into three applications and mixing the grain between applications

For the protection of bagged grain including popcorn, apply the suspension to the entire grain mass and mix thoroughly prior to bagging

Treatments can be applied to stored grain at any time, but for best results, make application immediately after harvest before moth activity occurs In areas where late fall harvested grain is not subject to infestation because of low temperatures, application can be delayed until late winter or early spring before moth activity begins Control for a full storage season should normally be expected, however repeat application if infestation recurs

APPLICATION RATE (Continued)

ABG-6406 FOR STORED AGRICULTURAL COMMODITIES (Continued) (For all states except California)

GRAINS, SOYBEANS, SUNFLOWER SEED, CROP SEED, CONDIMENTAL SEEDS, SPICES, HERBS, BIRDSEED AND POPCORN (Continued)

This treatment controls the moth larvae. If an infestation is present when the grain is treated, moth emergence may continue for several days. If immediate control of severe infestations is desired, grain should be fumigated prior to application of this treatment. ABG-6406 will not control weevils or other beetles.

PEANUTS (For all states except California)

<u>Pest</u>	<u>Rate</u>
Indian Meal Moth, Almond Moth	1/4 lb /ton*

\*Apply this rate to the top four to eight feet of nuts when filling the warehouse

To prevent and control these pests, spray an even coating of ABG 6406 on the farmer stock peanuts while filling the warehouse. To make the spray solution, mix 3-3/4 lbs ABG-6406 per 5 gallons of water. Apply to 15 tons of commodity. Do not pre-mix more spray solution than will be used within 12 hours. Keep the spray suspension agitated during application, and use pressures and nozzles sufficient to handle this suspension.

Before filling the warehouse, clean thoroughly, then spray interior of the facility with a ABG-6406 suspension at the rate of 1/2 lb ABG-6406 per 100 gallons water. Spray enough suspension to wet all cracks and crevices.

For bagged peanuts, treat the entire quantity at the rate indicated above.

**APPLICATION RATE**

**ABG-6406 FOR STORED AGRICULTURAL COMMODITIES (Continued)**

**FLUE-CURED TOBACCO (For all states except California)**

<u>Pest</u>	<u>Rate</u>
Tobacco Moth	0.2 oz /100 lbs*

\*Apply 0.2 ounce (approximately 2 1/2 tsps ) of ABG 6406 in one quart of water per 100 pounds of tobacco as a fine mist spray. Avoid overwetting. Tobacco should have just enough moisture to be handled without shattering at the time of application.

**Tobacco to be Stored up to Twelve Months.**

Spray loose leaves as the tobacco is being bundled from the curing barn. For tobacco on sticks, treat both sides of leaves.

**Stored Tobacco.**

For tobacco which is to be carried over, rebundle or restack sticks, fluff up tobacco and spray loose leaves.

For tobacco that has been stored over three weeks, apply at first signs of infestation promptly open bundles, spray loose leaves, then bundle.

**Treatment of Storage Barns.**

If tobacco has been treated, or is going to be treated, treatment of the floors and walls may be made to aid in control. Sweep out the area, especially cracks and corners, and all of the loose tobacco pieces in which the moth might breed. Make a spray mixture containing 1/2 oz (6 tsps ) ABG 6406 per 2 1/2 gallons of water. Apply this at a rate of 1/2 gallon per 1000 sq ft of surface area. Be sure to spray into cracks and between floorboards.

**NOTICE TO BUYER**

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

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