

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs

EPA Reg. Number:
275-132

Date of Issuance:
11/21/96

Biopesticides and Pollution Prevention Division (7501W)
401 M Street, S.W.
Washington, DC 20460

Term of Issuance: Conditional

NOTICE OF PESTICIDE:
 X Registration
 Reregistration
(under FIFRA, as amended)

Name of Pesticide Product:
ABG-6459 Biological
Insecticide

Name and Address of Registrant (include ZIP Code): Abbott Laboratories, Chemical and Agricultural Products
Division, 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 submit or cite all data no later than the time such data are required to be submitted for similar pesticide products already registered in accordance with FIFRA sec 3(c)(2)(B) and provided that you:

1. Revise the label by changing the words "EPA Reg. No. 275-RGE" to read "EPA Reg No. 275-132".
- 2 Submit two copies of the final printed label to the Agency for the record.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:
Paul L. Anderson

Date:
11/21/96

EPA Form 8570-6

305-8717/BAPP-315th/BLK. 102-6402

CONCURRENCES

SYMBOL	7501W	7501W					
SURNAME	DALL	HUTTON					
DATE	11/20/96	11/20/96					

2712

ABG-6459
BIOLOGICAL INSECTICIDE

Active Ingredient:

Bacillus thuringiensis, subsp. *kurstaki*,
 Lepidopteran Active Toxin.....3.2%
 Inert Ingredients.....96.8%
 Total.....100.0%

Potency: 16,000 International Units of Potency per mg
(7.26 Billion International Units per pound)

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

STATEMENTS OF PRACTICAL TREATMENT

- IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.
- IF IN EYES: Flush eyes with plenty of water. Get medical attention if irritation persists.

Chemical and Agricultural Products Division
Abbott Laboratories
North Chicago, Illinois 60064

EPA Reg. No. 275-*RGIE*
EPA Est. No. 33762-IA-1

Net Contents:
Filled by weight, not volume.

ACCEPTED
with COMMENTS
In EPA Letter Dated

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NOV 21 1996

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

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abg 08-13-96 275-132

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RECD EPA/OPP/DPD1

275-132

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

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If not 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.

Environmental Hazards

Do not contaminate water when disposing of equipment washwaters.

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.

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.

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 enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 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.
- Shoes plus socks.

STORAGE AND DISPOSAL

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

STORAGE: Reclose container of unused ABG-6459. Store in dry place.

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

DAYS TO HARVEST

There are no restrictions on applying ABG-6459 up to the time of harvest.

SITES: ABG-6459 may be used for any labeled pest in both field and greenhouse uses.

For Smaller Spray Volumes:

If Rate is	Use This Amount Per Gallon
1/4 lb./acre or 100 gals.	1/2 tsp.
1/2 lb./acre or 100 gals.	1 tsp.
1 lb./acre or 100 gals.	2 tsps.
2 lb/acre or 100 gals.	4 tsps.

APPLICATION DIRECTIONS

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

ABG-6459 is a highly selective 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-6459 to be affected. Always follow these directions:

- Treat when larvae are young (early instars) before the crop is extensively damaged.
- Larvae must be actively feeding on treated, exposed plant parts.
- Thorough spray coverage is needed to provide a uniform deposit of ABG-6459 at the site of larval feeding. For some crops directed drop nozzles by ground machine are required.
- Under heavy pest population pressure, use the higher label rates, shorten the spray interval, and/or raise gallonage to improve spray coverage.
- Repeat applications at an interval sufficient to maintain control, usually 3 to 14 days depending on plant growth, 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 extensive crop damage occurs.

After eating a lethal dose of ABG-6459, larvae stop feeding within the hour, and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

ABG-6459 may be applied in conventional ground or aerial equipment with quantities of water sufficient to provide thorough coverage of infested plant parts.

The amount of water needed per acre will depend on crop size, weather, spray equipment, and local experience. Unless otherwise indicated, use at least 2 gallons of water by air; except in the far west, 5 to 10 gallons is the usual minimum. Add water to the spray or mixing tank at the level that provides maximum agitation. With the agitator running, slowly sprinkle in the ABG-6459. Continue agitation. Then add other spray materials (if any). Add the balance of the water and agitate until mixed. Maintain the suspension while loading and spraying. Do not mix more ABG-6459 than can be used in a 12-hour period.

APPLICATION RATE

Crop	Pest	Pounds/ Acre
Cole Crops and Vegetables including Leafy, Root, Stalk, and Seed and Pod Types (Peas, Beans, Lentils, etc., dry or succulent), Potatoes, Cucurbits	Loopers	1/2 to 1
	Hornworms	1/4 to 1/2
	Imported Cabbageworm	1/4 to 1/2
	Diamondback Moth	1/3 to 2/3
	Green Cloverworm	1/4 to 1/2
	Webworm	1/2 to 1
	Armyworms*	1 to 2

*ABG-6459 may be used to suppress small armyworms (1st and 2nd instar) when populations are light and full coverage ground sprays are applied.

Tomato, Peppers, Eggplant	Loopers	1/2 to 1
	Hornworms	1/4 to 1/2
	Tomato Fruitworm*	1
	Variiegated Cutworm	1
	Saltmarsh Caterpillar	1/2 to 1
	Armyworms**	1 to 2

*Apply weekly in a preventative program.

**ABG-6459 may be used to suppress small worms (1st and 2nd instar) when populations are light and full coverage ground sprays are applied.

Cucurbits: Melons, Squash, Cucumbers, etc.	Rindworm Complex*	1/2 to 1
	Melonworms	1 to 2

*Apply weekly in a preventive program.

Tobacco	Tobacco Budworm	1/2 to 1
	Hornworms	1/4 to 1/2
	Loopers	1/2 to 1

Crop	Pest	Pounds/ Acre
Safflower, Sugar beets, Mints	Loopers	1/2 to 1
	Saltmarsh Caterpillars	1/2 to 1
Soybeans, Sunflowers, Peanuts	Loopers	1/2 to 1
	Green Cloverworm	1/4 to 1/2
	Velvetbean Caterpillar Podworm*	1/2 to 2/3 1/2 to 1

*ABG-6459 suppresses podworms under pest management conditions.

Alfalfa, Hay and Small Grains	Loopers	1/2 to 1
	Alfalfa Caterpillar	1/8 to 1/4
	European Skipper (Essex Skipper)	1/4 to 1/2
	Cotton	Tobacco Budworm* Cotton Bollworm* Loopers**

*Use to suppress light to moderate populations of newly hatched worms in pest management conditions. Use under close scouting when beneficial insects are active or building. Repeat treatments at 4 to 5 day intervals as long as necessary and results are acceptable.

Once beneficial insects are no longer a factor, ABG-6459 (at 1/4 to 3/4 lb./acre) may be tank mixed with methomyl (Lannate[®] or Nudrin[®]) at .225 to .675 lbs. AI per acre to control light to moderate infestations of early instar larvae. Observe any rate, frequency, or boll load label restrictions for methomyl in your area. Methomyl will likely cause reddening of cotton foliage. Discontinue this tank mix if reddening becomes excessive.

Before using any tank mix, read the product labels from all environmental and usage cautions.

**Full plant coverage needed.

Crop	Pest	Lbs./100 Gals.
Turf	Sod Webworm	2 to 4
Flowers and Ornamentals (ground only)	Loopers	1/2 to 1
	Tobacco Budworm	1/2 to 1
	Omnivorous Looper	1/2 to 1
	Omnivorous Leafroller	1/2 to 1
	Diamondback Moth	1/3 to 2/3
	Armyworms*	1 to 2
	Ello Moth (Hornworm)	1/4 to 1/2
	Io Moth	1/2 to 1
	Oleander Moth	1/2 to 1

*ABG-6459 may be used to suppress small armyworms (1st and 2nd instar) when populations are light and full coverage ground sprays are applied.

ABG-6459 for Fruits, Nuts, Trees, Ornamentals			
Crop	Pest		Pounds/Acre
Grapes, Small Fruits, Cane and Bush Berries	Grapeleaf Skeletonizer (ground only)		2/3 to 1
	Grape Leafroller		1/2 to 3/4
	Achema Sphinx Moth (Hornworm)		1/3 to 3/4
	Saltmarsh Caterpillar (ground only)		1
	Omnivorous Leafroller (ground only)		1/2 to 1
	Loopers		1/2 to 1
		Pounds/100 Gallons* (Ground Equipment)	Pounds/Acre (Aerial** Application)
Stone Fruits, Nut Trees, Pomegranates	Redhumped Caterpillar	1/4 to 1/2	1/3 to 1
	Tent Caterpillars	1/4 to 1/2	1/2 to 1
	Omnivorous Leafroller	1/2 to 1	--
	Fall Webworm	1/4 to 1/2	1/2
	Walnut Caterpillar	1/2 to 1	1/2 to 1
	Cankerworms	1/4 to 1/2	1/2 to 1
Pome Fruits ¹	Cankerworms	1/4 to 1/2	1/2 to 1
	Gypsy Moth	1/2 to 1	1
	Variogated Leafroller	1/2 to 1	--
	Redbanded Leafroller	1/2 to 1	--
	Tufted Apple Budmoth	1/2 to 1	--
	Tent Caterpillars	1/4 to 1/2	1/2 to 1

*Rate for hydraulic sprayer. For mist blowers, mix the applicable amount (lbs.) in 10 gallons of water.

¹Use 400-450 gallons/acre to suppress listed pests in pest management program.

ABG-6459 for Fruits, Nuts, Trees, Ornamentals, continued			
Crop	Pest	Pounds/100 Gallons* (Ground equipment)	Pounds/Acre
Citrus ²	Fruittree Leafroller	1/2 to 1	--
	Orangedog	1/4 to 1/2	--
Tropical Fruits ³	Hornworm	1/2 to 1	--
	Leafroller	1/2 to 1	--
	Omnivorous Looper	1/2 to 1	--
	Loopers	1/2 to 1	--
Forest, Shade, Sugar Maple Trees and Ornamentals	Gypsy Moth	1/2 to 1	1
	Bagworm	1/2 to 1	1/2 to 1
	Redhumped Caterpillar	1/4 to 1/2	1/4 to 1
	Spring & Fall Cankerworm	1/4 to 1/2	1/4 to 1/2
	Fall Webworm	1/2	1/2
	Elm Spanworm	1/2 to 1	1/2 to 1
	Tent Caterpillars	1/4 to 1/2	1/2
	California Oakworm	1/4 to 1/2	1/4 to 1/2
	Pine Butterfly	1	1
	Spruce Budworms ⁴	1	1
	Saddle Prominent Caterpillar	1/2 to 1	--
	Douglas Fir Tussock Moth	1	1
	Western Tussock Moth	1/2 to 1	--
	Fruittree Leafroller	1/2 to 1	--
	Blackheaded Budworm	1	--
	Mimosa Webworm	1/2 to 1	--
Jack Pine Budworm	1/2 to 1	3/4 to 1	
Saddleback Caterpillar	1/2 to 1	--	

**For aerial application, use in one to ten gallons of water depending on type and density of trees. For best results, spray systems which deliver droplet size of 200 microns should be used.

²Use 100 to 400 gallons/acre.

³Use at least 200 gallons/acre.

⁴Use against populations below 35 larvae per 18-inch branch tip. Use a minimum of 1/2 gallon/acre by air.

ABG-6459 FOR STORED AGRICULTURAL COMMODITIES

For the Control of Tobacco Moth on Flue-Cured Tobacco

Apply 0.4 ounce (approximately 5 teaspoonsful) of ABG-6459 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 restock 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 oz. ABG-6459 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.

STORED GRAINS, SOYBEANS, SUNFLOWER SEED, PEANUTS, CROP SEED, POPCORN¹ AND BIRDSEED¹.

Pest	Rate
Indian Meal Moth, Almond Moth	3/4 lb./100 bu (undiluted and diluted)*

*As a surface treatment, apply 1 lb. ABG-6459 in 10 gal. of water per 500 sq. ft. of grain surface area, mix into top 4 inches.

¹For all States except California.

For the control and prevention of these pests, apply ABG-6459 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 dosage into the grain stream as the last (top) four inch layer is augered into the bin. Mix 1/10 lb. ABG-6459 per gallon of water. Apply 0.6 pint of this mixture per bushel as grain is augered into storage. Or, sprinkle the dosage 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 dosage into three applications and mixing the grain between applications.

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

Treatments can be applied to the 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.

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-6459 will not control weevils or other beetles.**

ABG-6459 is exempt from tolerance restrictions and the treated grain can be used at any time after treatment for any use.

NOTICE TO USER

Seller makes no warranty, express or implied, of merchantability fitness or otherwise concerning 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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