

73049-26

07/02/2001

Page 187

ABG-3097®  
PLANT GROWTH REGULATOR  
SOLUBLE POWDER  
[FOR GREENHOUSE USE ONLY]

ACTIVE INGREDIENT

[S]-trans-2-Amino-4-[2-aminoethoxy]-3-butenoic Acid Hydrochloride.....86%

OTHER INGREDIENTS.....14%

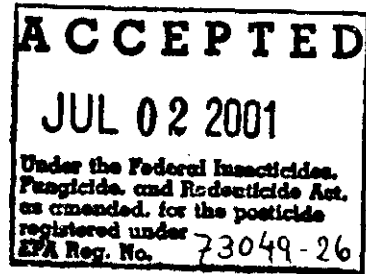
TOTAL.....100%

KEEP OUT OF REACH OF CHILDREN  
CAUTION

EPA Registration No. 73049-26  
EPA Est.

Lot No.

Valent BioSciences Corporation  
870 Technology Way  
Libertyville, IL 60048



Net weight: 4.41 lbs (2000 grams)

FIRST AID	
If on skin or clothing	--Take off contaminated clothing. --Rinse skin immediately with plenty of water for 15-20 minutes. --Call a poison control center or doctor for treatment advice.
If inhaled	--Move person to fresh air. --If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. --Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-6-Valent.	

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

**CAUTION**

Harmful if absorbed through skin or inhaled. Avoid breathing dust or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear:

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

Follow the 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. 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 pesticide is moderately toxic to avian species and exposure to birds should be avoided. Do not contaminate water when cleaning equipment or 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.

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.

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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 protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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

- Coveralls
- Waterproof gloves
- Shoes plus socks

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE**

Keep containers tightly closed when not in use.

**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**

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

**GENERAL INFORMATION**

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

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rev. 06/29/01

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Discard any unused spray material at the end of each day. Prepare solution concentrations by mixing the required amount of product with water in a clean, empty spray tank.

Data concerning the compatibility of ABG-3097® with other agricultural products is not available.

Use only as directed. The label should be read thoroughly and understood before making applications. Product efficacy requires that all parts of the plant or crop receive thorough spray coverage or the desired result may not occur. When a range of application rates is indicated, use the concentration and spray volume recommended by your local Valent Agricultural Specialist. (1-800-6-Valent)

**NOTE:** ABG-3097® contains a potent plant growth regulator. For best results, read all directions for use thoroughly. Consult your local Valent Agricultural Specialist for the spray schedule best suited to your conditions. (1-800-6-Valent)

ABG-3097® contains a plant growth regulator which has been shown to reduce the incidence of shipping-related problems (e.g., flower senescence, flower bud abscission, leaf yellowing) when applied to plants immediately prior to boxing/shipping. The active ingredient in ABG-3097® is a fermentation metabolite that inhibits the endogenous production of ethylene in treated plant tissues.

#### **SPRAY GUIDELINES FOR MINIATURE CARNATIONS**

Use enough spray solution to wet the foliage thoroughly. Do not exceed maximum rates. It is important to wet all leaves, flower buds, and flowers thoroughly. The use of a non-ionic surfactant known to not cause phytotoxicity on this crop is recommended for inclusion in the final spray solution. Consult your Abbott Agricultural Specialist (1-800-6-Valent) for a recommendation on which non-ionic surfactant to use.

For reduction in shipping-related flower bud abscission.

**Guide:** For Colorado Majestic Mountain™ and related varieties, apply a solution containing 500 ppm to 1000 ppm of active ingredient (see TABLE 1 below). Apply one spray 24 to 48 hours prior to boxing/shipping.

**Guide:** For European-type varieties, apply a solution containing 1000 ppm to 1500 ppm of active ingredient (see TABLE 1 below). Apply one spray 24 to 48 hours prior to boxing/shipping.

TABLE 1. Conversion Table for Miniature Carnations

Desired Spray Concentrations (ppm)	Amount of Active Ingredient (grams)	Amount of ABG-3097* (grams)	Spray Volume (gallons)	Treatment Area
500	7.6	8.8	4	1000 ft <sup>2</sup>
500	340.6	396.1	180	1 acre
1000	15.1	17.6	4	1000 ft <sup>2</sup>
1000	681.3	792.2	180	1 acre
1500	22.7	26.4	4	1000 ft <sup>2</sup>
1500	1021.9	1188.3	180	1 acre

**\*86% Active Ingredient**

Note: For Colorado Majestic Mountain™ and related varieties, it is recommended that the finished plants should have approximately 2-3 open flowers, 4-8 flower buds just beginning to open and showing some degree of color, and 15-30 closed, but viable, flower buds at the time of spraying.

Note: For European-type varieties, it is recommended that the finished plants should have approximately 8-15 open flowers, 8-15 flower buds just beginning to open and showing some degree of color, and 25-50 closed, but viable, flower buds at the time of spraying.

**SPRAY GUIDELINES FOR HIBISCUS**

Use enough spray solution to thoroughly wet the foliage. Do not exceed maximum rates. It is important to wet all leaves, flower buds, and flowers thoroughly. The use of a non-ionic surfactant known to not cause phytotoxicity on this crop is recommended for inclusion in the final spray solution. Consult your Valent Agricultural Specialist (1-800-6-Valent) for a recommendation on which non-ionic surfactant to use.

For reduction in shipping-related flower bud abscission.

Guide: Apply a solution containing 50 ppm to 500 ppm of active ingredient (see TABLE 2 below). Apply one spray 24 to 48 hours prior to boxing/ shipping.

TABLE 2. Conversion Table for Hibiscus

Desired Spray Concentration (ppm)	Amount of Active Ingredient (grams)	Amount of ABG-3097* (grams)	Spray Volume (gallons)	Treatment Area
50	0.9	1.1	5	1000 ft <sup>2</sup>
50	41.6	48.4	220	1 acre
100	1.9	2.2	5	1000 ft <sup>2</sup>
100	83.3	96.8	220	1 acre
250	4.7	5.5	5	1000 ft <sup>2</sup>
250	208.2	242.1	220	1 acre
500	9.5	10.9	5	1000 ft <sup>2</sup>
500	416.4	484.1	220	1 acre

\*86% Active Ingredient

Note: At the time of boxing/shipping, it is recommended that the finished plants should have all open flowers and flower buds at the "cigar stage" of development removed. All flower buds remaining on the plant should either be at the "candle stage" or as true closed green buds.

**SPRAY GUIDELINES FOR ROOTED GERANIUM CUTTINGS AND SEEDLINGS**

Use enough spray solution to thoroughly wet the foliage. Do not exceed maximum rates. It is important to wet all leaves thoroughly. The use of a non-ionic surfactant known to not cause phytotoxicity on this crop is recommended. Consult your Valent Agricultural Specialist (1-800-6-Valent) for a recommendation on which non-ionic surfactant to use.

For reduction of shipping-related problems and/or promotion of flowering.

Guide: Apply a solution containing 25 ppm to 250 ppm of active ingredient (see TABLE 3 below). If the plants are to be shipped, the spray should be applied 24 to 48 hours prior to boxing/shipping.

TABLE 3. Conversion Table for Geraniums

Desired Spray Concentration (ppm)	Amount of Active Ingredient (grams)	Amount of ABG-3097* (grams)	Spray Volume (gallons)	Treatment Area
25	0.5	0.6	5.7	1000 ft <sup>2</sup>
25	23.7	27.5	250	1 acre
50	1.1	1.3	5.7	1000 ft <sup>2</sup>
50	47.3	55	250	1 acre
75	1.6	1.9	5.7	1000 ft <sup>2</sup>
75	70.9	82.5	250	1 acre
100	2.2	2.5	5.7	1000 ft <sup>2</sup>
100	94.6	110	250	1 acre
250	5.4	6.3	5.7	1000 ft <sup>2</sup>
250	236.6	275.1	250	1 acre

\*86% Active Ingredient

**NOTICE TO USER:**

Seller makes no warranty, expressed 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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