

# B-NINE® WSG

## Plant Growth Regulator



FOR USE ON ORNAMENTALS GROWN IN COMMERCIAL OR RESEARCH GREENHOUSES, SHADEHOUSES, AND NURSERIES.

Product Information Bulletin

175

### GENERAL INFORMATION

**B-Nine** reduces stature in ornamental plants by reducing internode length. Additional **B-Nine** benefits include a more aesthetically pleasing, compact plant with deeper green color that is more resistant to breaking during shipping.

When applied to plant foliage, **B-Nine** is absorbed into the leaf and moves within the plant to growing points to reduce internode elongation through inhibiting gibberellin synthesis.

**B-Nine** contains 85% Daminozide.

**B-Nine** is a water soluble granule (WSG) formulation.

**Common Name:** Daminozide

**Class:** Hydrazide

GROUP	1	PLANT GROWTH REGULATOR
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**Packaging:** 1 pound bag, 12 per case and 5 pound bag, 8 per case

### RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = 24 hours

Signal Word = CAUTION

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

### MODE OF ACTION

**B-Nine** works by reducing plant internodal length resulting in a shorter and more compact plant. **B-Nine** is a Ga3 inhibitor.

### USE SITES

**B-Nine** may be used on ornamental plants grown in commercial or research greenhouses, shadehouses, and nurseries. Containerized plants labeled for use by **B-Nine** are but not limited to: Azaleas, Bedding Plants/ Flowering Plants, Plugs and Liners, Chrysanthemums, Foliage Plants, Gardenias, Hydrangeas and Poinsettias.

### APPLICATION AND RATES

**B-Nine** label rates are dependent on the crop treated and the level of plant regulation desired.

Rates range from 1000 – 7500 PPM (refer to the product label for specific rates).

Spray should be directed at the leaves and stems just to the point of run-off. Application volume should be one gallon per 200 sq. ft. of coverage. For optimum results, water plant to be treated one day before application. Plant foliage should be dry at the time of application.

Do not add wetting agents or mix with other pesticides especially copper based fungicides.

Do not allow tank mix to stand over 24 hours after mixing.

### TANK MIXING

Do not tank mix with insecticides, wetting agents, or foliar fertilizer as burning of the foliage may result. Do not mix **B-Nine** with copper-containing products or within 7 days either before or after an application of a copper based compound.

**B-Nine & Cycocel Tank Mix:** Use on certain crops where **B-Nine** alone provides limited height control. The **B-Nine/** Cycocel tank mix provides a synergistic effect that may result in enhanced activity. Optimum rates for the tank mix can be adjusted to obtain a desired level of activity, but the general guidelines are to use the Cycocel rates which do not cause phytotoxicity and then vary the rate of **B-Nine** to adjust activity. Some guidelines are:

Activity Level	B-Nine WSG (ppm)	Cycocel (ppm)
Very High	5000	1500
High	2500	1250
Medium	1250	1250
Low	800	1000

## SUGGESTED BASIC RATES FOR B-NINE WSG

These suggested rates are for basic plant growth regulation strategy. Please read the **B-Nine** label for specific use rates and crop timings.

**Azaleas:** 2500 ppm, apply once or twice two weeks apart as needed to newly expanded growth (2-3 inches) after shaping.

**Bedding Plants/Flowering Plants:** Use 2500 to 5000 ppm applied as needed on two week intervals. Apply one or two weeks after transplant or pinch to young expanding growth.

**Bedding Plant Plugs/Liners:** 1500 to 2500 ppm applied as needed. Application can begin at the first true leaf stage.

**Chrysanthemums:** 2500 to 5000 ppm, apply after pinch to young 1-2 inch shoots. Apply as needed every two weeks up to one week before disbud stage.

**Foliage Plants:** 2500 to 7500 ppm, apply two or more applications during times of stretch or new growth. Apply every two weeks as needed.

**Gardenia:** 5000 ppm, apply when crop is 60% of final size.

**Hydrangeas:** 5000 ppm for spring forced crop or up to 7500 ppm for summer crops. Bloom timing and or sizing may be disrupted if applications are made near bud set.

**Poinsettias:** 2000 to 3000 ppm, apply on two week intervals, beginning after pinch when new shoots are 1-2 inches in length. Tank mix with Cycocel for increased activity is a common practice. Suggested rates are 1250 to 2500 ppm **B-Nine** plus 1250 ppm Cycocel. Do not apply **B-Nine** after start of short days.

**Perennials:** 2500 to 5000 ppm, apply after transplant or to newly expanding growth. Apply every two weeks as needed. Tank mixing with Cycocel may increase activity. Use 2500 to 5000 ppm **B-Nine** plus 1250 to 1500 ppm Cycocel. Apply to expanding growth.

## GENERAL RATE RECOMMENDATIONS AND BEST USE GUIDE FOR B-NINE WSG

	Plug/Liner	Plug/Liner Comment	Finish	Finish Comment
Bedding Plants	1500-2500 ppm	Apply at first true leaf stage and as needed for compact growth.	1500-2500 ppm	Apply 3-7 days after transplant, then as needed every 2 weeks to control growth.*
Perennials	1250-2500 ppm	Apply to early leaf stage and as needed for growth control.	2500-5000 ppm	Apply 7 days after transplant, then as needed to control growth.*
Foliage Plants	2500 ppm	Apply to early leaf stage and as needed for growth control.	2500-7500 ppm	Apply 7 days after transplant, then as needed to control growth.*
Chrysanthemums	1000 ppm	Use a pre-plant dip to rooted cuttings. Allow to dry before potting up.	2500-5000 ppm	Apply after pinch when shoots are 1" long, then as needed up to 1 week before disbud.
Poinsettias	1250-2000 ppm	Apply to rooting cuttings to reduce stretch and maintain color. Overhead mist will reduce response.	2000-3000 ppm	Apply after pinch when shoots are 1-2" long, then 2 week intervals.**

\* Applications made near flower bud formation may delay bloom response.

\*\* Do not apply after the beginning of short days or about 11 hours maximum of light.

Use of B-Nine according to the labeling is subject to the use precautions and limitations imposed by the label affixed to the bag of B-Nine. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Always read product label prior to product use.

B-Nine is a registered trademark of Chemtura Corp.

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