

100-1079

05/31/2001

Please read instructions on reverse before completing form.

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	United States	<input type="checkbox"/> Registration	OPP Identifier Number NOTIFICATION
	Environmental Protection Agency	<input type="checkbox"/> Amendment	
	Washington, DC 20480	<input checked="" type="checkbox"/> Other	

**Application for Pesticide - Section I**

1. Company/Product Number <b>100-1079</b>	2. EPA Product Manager (Acting) Ann Sibold	3. Proposed Classification  <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>BONZIO II ORNAMENTAL GROWTH REGULATOR</b>	PM# <b>Team #10</b>	
5. Name and Address of Applicant (Include ZIP Code)  Syngenta Crop Protection, Inc. Registrations & Regulatory Affairs 410 Swing Road PO Box 18300 Greensboro NC 27409-8300  <input checked="" type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____  Product Name _____	

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	<b>NOTIFICATION</b>  <b>MAY 31 2001</b>
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.).

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. The following changes are being made via this notification: 1) Company name and address have been updated to reflect Syngenta Crop Protection, Inc., 2) EPA Reg. No. changed to new Company number, 3) The copyright date reflects Syngenta., 4) Trademark statements have been updated to reflect Syngenta for those products for which Syngenta holds the trademark. 5) The Internet address has been changed to reflect Syngenta. 6) Other places in the label which refer to the company name have been updated.

**Section - III**

<b>1. Material This Product Will Be Packaged In:</b>					
Child-Resistant Packaging  <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging  <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging  <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>2. Type of Container</b>  <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
Certification must be submitted		If "Yes" Unit Packaging wgt.    No. per Container	If "Yes" Unit Packaging wgt.    No. per container		
<b>3. Location of Net Contents Information</b>  <input type="checkbox"/> Label <input type="checkbox"/> Container		<b>4. Size(s) Retail Container</b>		<b>5. Location of Label Directions</b>  <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
<b>6. Manner in Which Label is Affixed to Product</b>  <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

**Section - IV**

<b>1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)</b>		
Name <b>Martina A. Haw</b>	Title <b>Regulatory Assistant II</b>	Telephone No. (Include Area Code) <b>302 / 476-2373</b>
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		<b>6. Date Application Received (Stamp)</b>   
<b>2. Signature</b>  	<b>3. Title</b> <b>Regulatory Assistant II</b>	
<b>4. Typed Name</b> <b>Martina A. Haw</b>	<b>5. Date</b> <b>May 21, 2001</b>	

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

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**PAPERWORK REDUCTION ACT NOTICE:** Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

**INSTRUCTIONS:** This form is to be used for all applications for new registration, end use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
2. Confidential Statement of Formula (EPA Form 8570-4);
3. Formulator's Exemption Statement (EPA Form 8570-27);
4. Five copies of draft labeling;
5. Three copies of any data submitted;
6. Authorization letter where applicable;
7. Matrices where applicable.

**Submission of Labeling -** Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission. **Submission of Data -** Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

**SPECIFIC INSTRUCTIONS:** Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

**SECTION I -** This section must be completed, as applicable, for all registration actions.

1. Company/Product Number - Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
2. EPA Product Manager - If known, fill in the name and PM number of the EPA Product Manager.
3. Proposed Classification - Specify the proposed classification of this product.
4. Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
5. Name and Address of Applicant - The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
6. Expedited Review - FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

**SECTION II -** This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

**Subject of submission -** Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

**SECTION III - (Packaging and Container Information) -** This Section must be completed for all applications submitted in connection with now registration or applicable amendments.

1. Type of Packaging - Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
2. Type of Retail Container - Indicate type of container in which product will be marketed.
3. Location of Net Contents - Indicate the location of the net contents information for your product.
4. Size(s) of Retail Container - Specify the net contents of all retail containers for your product.
5. Location of Use Directions - Indicate the location of the use directions for your product.
6. Manner in which label is affixed to product - Indicated the method product label is attached to retail container.

**SECTION IV (Contact Point) -** This Section must be completed for all applications for Registration actions, i.e., now products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
6. EPA Use Only

NOTIFICATION

MAY 31 2001

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**BONZI® II**  
**Ornamental Growth Regulator**

**ACTIVE INGREDIENT:**

**Paclobutrazol**

(±)-(R\*,R\*)-beta-((4-Chlorophenyl)methyl)-alpha-  
(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol ..... 00.13%

**INERT INGREDIENTS:** ..... 99.87%

**Total** ..... 100.0%

BONZI 2 contains 0.036 grams active ingredient per fluid ounce (1280 ppm).

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**See additional precautionary statements and directions for use inside booklet.**

EPA Reg. No. 100-1079  
EPA Est. No.

Product of USA

Syngenta

Syngenta Crop Protection, Inc.  
Greensboro, NC 27409  
[www.syngenta-us.com](http://www.syngenta-us.com)

**NOTIFICATION**

**MAY 31 2001**

SCP 100-XXXX

Net Contents / U.S. Standard Measure

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## STATEMENT OF PRACTICAL TREATMENT

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**IF ON SKIN:** Wash with plenty of soap and water.

### HOTLINE NUMBER

For 24-Hour Medical Emergency Assistance (Human or Animal)  
or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident)  
Call  
**1-800-888-8372**

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## PRECAUTIONARY STATEMENTS

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### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

HARMFUL IF ABSORBED THROUGH SKIN. AVOID CONTACT WITH SKIN OR CLOTHING.

### PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as Barrier Laminate or Butyl Rubber or Nitrile Rubber or Neoprene Rubber or Polyvinyl Chloride or Viton.
- Shoes plus socks.

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

Do not contaminate water when disposing of equipment washwaters.

### PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flames.

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**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Syngenta Crop Protection, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Syngenta and Seller harmless for any claims relating to such factors.

Syngenta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Syngenta, and Buyer and User assume the risk of any such use. **SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

In no event shall Syngenta or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Syngenta and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of Syngenta.

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**DIRECTIONS FOR USE**

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It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all label directions carefully before use.

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.

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

**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 24 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.
- Chemical-resistant gloves.
- Shoes plus socks.

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**STORAGE AND DISPOSAL**

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**PROHIBITIONS:** Do not reuse empty containers. Do not contaminate water, food, or feed by storage or disposal.

**STORAGE:** Keep container closed when not in use. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. 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:** Plastic containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**GENERAL INFORMATION**

BONZI® II is a plant growth regulator for use on ornamental plants grown in containers in greenhouses, shadehouses, and interiorscapes. Use of BONZI II effectively reduces internode elongation, resulting in more desirable compact plants. When used as directed, BONZI II produces no phytotoxic effects.

**MIXING INSTRUCTIONS**

Be sure the sprayer is clean and not contaminated with any material. Fill the spray tank with half the required amount of water. Using the dilution table (Table 1), determine the amount of BONZI II needed for the required concentration. Measure the desired volume accurately and add it to the tank.

Fill tank with the remaining amount of required water.

Agitate the mixture of BONZI II and water frequently to assure uniform distribution during application.

**TABLE 1  
BONZI II DILUTION TABLE**

ppm BONZI II Desired	Fl. Oz. Per Gallon	mL Per Gallon
1	0.1	3
2	0.2	6
3	0.3	9
4	0.4	12
5	0.5	15
10	1.0	30
20	2.0	60
25	2.5	75
30	3.0	90
40	4.0	120
50	5.0	150
100	10.0	300
200	20.0	600

## APPLICATION TECHNIQUES

Desired height control with BONZI II can be obtained with three different types of applications: sprays, drenches or bulb soaks.

Under certain conditions, sequential spray applications may be desirable.

Frequent agitation of the BONZI II solution and proper application techniques are critical in order to achieve desired results. Be sure of your calculations, volume measurements and sprayer calibration. When in doubt, recalculate.

### 1. SPRAY APPLICATIONS

In spray applications, BONZI II penetrates into plant stems and is translocated to the terminal where it reduces internode elongation.

When applying a spray application, it is important that:

- adequate spray volume is used to thoroughly wet plant stems. The misting technique used for some other growth retardants, where only upper leaves are covered with a light spray, will not produce desired results with BONZI II;
- sprays are not applied to the point of excessive runoff into the potting media. The spray volume which drips down into the media may be desirable as it will be taken up by the roots and increase the effectiveness of BONZI II. However, too much runoff into the media may result in excessive height control;
- the spray technique provide thorough, consistent, uniform coverage of all plants. Failure to do so may result in non-uniform height control..

BONZI II may be applied at any time of the day without danger of burning leaves or causing chlorosis.

Overhead irrigation or rain 30 minutes after spray applications does not reduce the effectiveness of BONZI II.

Addition of wetting agents for spray applications is not necessary.

There are two methods of applications for insuring uniform coverage of BONZI II sprays:

**Bench Spray Method:** The recommended spray volume for small plants in small containers which are closely spaced is 2 qts./100 sq. ft. of bench space. For larger plants with a well-developed canopy, a spray volume of 3 qts./100 sq. ft. of bench space is recommended.

**Individual Plant Method:** Apply sprays to individual plants, insuring that all plants of the same species/cultivar and size are treated with an equivalent amount of spray volume. Spray volume requirements will vary with plant size and type: For poinsettias in 6-inch pots with laterals from 1½ to 2 inches, the recommended spray volume is about 0.7 fl. oz. (20 ml.)

**Sequential Applications:** Using sequential applications may provide more uniform growth regulation and safety against over application. In general, sequential spray applications are to be applied using 50-100% of the lower recommended rate. Growers in cooler climates may have to use lower rates.



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With some plant species, particularly chrysanthemums, hibiscus and azaleas, individual lateral shoots will outgrow the other laterals, causing non-uniform plant appearance. This results when individual laterals do not receive enough chemical when spray is applied. The use of sequential applications will reduce this problem.

**2. DRENCH APPLICATIONS**

Application of BONZI II to the growing media will provide good control of plant height. BONZI II is readily absorbed by plant roots and translocated to the terminals.

Drench applications generally provide a longer-lasting, more uniform height control than spray applications. Drench applications should be made to moist potting media. This may be achieved by watering plants the day before treatments. Drench applications to dry media will result in poor distribution.

Multiple plants growing in the same pot require a more uniform distribution of drench solution to achieve uniform height control.

**Drench Rates and Volumes:** The rates recommended for soil drench applications are based on a drench volume of 4 fl. oz. of final solution for an average 6-inch 'azalea' pot. Based on this recommendation, one gallon of solution will treat 32 6-inch pots. For smaller or larger pots, a suitable drench volume is enough final solution applied to achieve total run through of no more than 10%, providing that the potting media is properly moist before treatment. Table 2 may be used as a guide in determining appropriate drench volume needed for the specified pot sizes. For the grower who likes to apply BONZI II as a known amount of active ingredient per pot, Table 2 also shows the amount of active ingredient found in a specific volume at a known concentration.

**TABLE 2  
 DRENCH VOLUME GUIDELINES AND CONVERSIONS**

Pot Diameter (inches)	Drench Volume (fl. oz./pot)	Mg. ai. BONZI II/Pot			
		1 PPM	2 PPM	3 PPM	4 PPM
4"	2	0.063	0.125	0.188	0.25
5"	3	0.094	0.188	0.282	0.375
6"	4	0.125	0.25	0.375	0.50
8"	10	0.313	0.625	0.938	1.25
10"	25	0.783	1.56	2.35	3.125
12"	40	1.25	2.5	3.75	5.0

**NOTE:** The recommended drench volumes were based on the soil capacity of a common 6-inch 'azalea' type pot. Extrapolating the recommendation for this 6-inch 'azalea' type pot to smaller or larger containers may not be correct for total drench volume but should only be used as a guideline. The user must determine the appropriate rate and drench volume needed to achieve the desired result, based on both pot size and potting media used.

**3. PREPLANT BULB SOAKS**

Soaking of bulbs in solutions of BONZI II is also a very effective way to attain height control. The rates used and length of soaking time will vary, depending on the species. See the section on BULB CROPS for specific recommendations.

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## FACTORS AFFECTING PLANT RESPONSE TO BONZI II

IN ADDITION TO PROPER APPLICATION TECHNIQUE, THERE ARE SEVERAL ENVIRONMENTAL AND CULTURAL FACTORS WHICH CAN AFFECT A PLANT'S RESPONSE TO TREATMENT WITH BONZI II. These factors may cause a variation in the amount of BONZI II needed to provide desired plant height.

**Cultural practices** may affect the plant's response to BONZI II. Plants which are grown at close spacing or in smaller pots and using high water and fertilizer levels may require an increase in the amount of BONZI II needed.

For drench applications, plants grown in media with pine bark or a high organic content may require higher rates of BONZI II than those grown in media without pine bark or with a low organic content.

**Different varieties or cultivars** within a given plant species may require a higher or lower rate of BONZI II. The taller, more vigorous varieties generally require more chemical than do the naturally short, less vigorous varieties.

Growers should consult with plant and seed suppliers for vigor and other growth characteristics for newly released varieties.

**Temperature** can be the overriding factor in determining the amount of BONZI II needed. Stem elongation increases with increased temperatures. Growers in warm climates need to use higher rates and/or more applications compared to those in cooler climates.

The amount of BONZI II needed and number of applications may also vary depending on the time of year, with higher rates and/or more applications needed during warmer months.

## DETERMINING OPTIMUM RATES

Optimum BONZI II rates will vary with different growers and will depend on their individual desired final plant height, growing conditions, and applications techniques. Different varieties or cultivars of the same species may respond differently to BONZI II. **Growers should conduct trials with small numbers of plants using the recommended rates to determine the optimum rates for their situations.**

Before BONZI II is applied to large numbers of plants, it is important that the user determine their own optimum rate for each species.

**The rates recommended on this label are rate ranges and should be used only as a guideline.**

The user should conduct trials on a small number of plants, adjusting the rate of BONZI II to achieve the desired height and length of control. For preplant bulk soak trials, it may be necessary to adjust both the rate and length of soak time in order to achieve desired results.

For plant species listed on the label, the user should run initial trials using the lowest recommended rates.

For plant species not specifically listed on the label, the user should run initial trials using the rates recommended in Table 3.

**TABLE 3**  
**RECOMMENDED TRIAL RATES (ppm) BY GENERAL PLANT TYPE\***

Plant Type	Spray	Drench	Bulb Soak
Bedding Plants	30	1	N/A
Bedding Plant Plugs	5	NR	N/A
Flowering/Foliage Plants (Annual or perennial)			
- Herbaceous Species	30	1	N/A
- Woody Species	50	2	N/A
Woody Landscape Plants	100	4	N/A
Bulb Crops	100	10	20 (@ 15 min.)

NR = Use is not recommended  
N/A = Use is not applicable

\* The recommended trial rates are based on information developed in the Sunbelt Region. Growers in regions north of the Sunbelt should run initial tests using ½ X the recommended trial rates listed in Table 3.

**USE AND RATE RECOMMENDATIONS BY CROP**

BONZI II is effective in controlling the height of most ornamental crops. Be sure to read and fully understand the section on DETERMINING OPTIMUM RATES before applying to large numbers of plants.

**A. AZALEAS (FLORIST)**

BONZI II can be used to control plant height, reduce bypass shoot elongation and promote flower bud initiation.

**Spray applications** are effective in the rate range of 100 to 200 ppm.

**Drench Applications** are effective in the rate range of 5 to 15 ppm. To control plant height and promote flower bud initiation, applications should begin when new growth, following final shaping, is 1½ to 2 inches long.

To reduce bypass shoot development, applications should be made after bud set when bypass shoots are barely visible, or about 5 to 7 weeks prior to cooling.

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**B. BEDDING PLANTS**

Spray applications of BONZI II will provide height control of most bedding plants at a wide rate range of 5 to 90 ppm. The rate ranges for some specific bedding plants are:

Plant	Rate Range (ppm)	Plant	Rate Range (ppm)
Ageratum	15 - 45	Marigold (French)	15 - 45
Celosia	15 - 45	Pansy	5 - 15
Coleus	15 - 45	Petunia	30 - 60
Dahlia	15 - 45	Salvia	20 - 60
Dianthus	20 - 60	Snapdragon	45 - 90
Impatiens	15 - 45	Zinnia	15 - 45
Marigold (African)	30 - 60		

- Do not use on fibrous begonias as they are very sensitive to BONZI II. Overly stunted plants can result if they receive spray drift from applications made to surrounding species.
- Do not use on annual Vinca (periwinkle) as BONZI II may cause spotting of foliage, especially at high temperatures.

For bedding plants not specifically listed above, the user should determine optimum rates starting with a rate of 30 ppm in the Sunbelt Region and 15 ppm in the Northern Belt Region. Time of application should begin when new growth in height or width reaches 2 inches or when plants reach desired size to hold them at a marketable stage.

Late application timings and/or excessive rates may slow the growth of plants when transplanted.

High rates of BONZI II may delay flowering, especially of impatiens.

**Drench applications** are effective on bedding plants, but are recommended only for those plants in containers 6 inches or larger. The user should determine optimum rates, starting at 1 ppm.

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**C. BEDDING PLANT PLUGS**

**Spray applications** of BONZI II can also be used to effectively control height of bedding plant plugs. The recommended rate range of 1 to 20 ppm is much lower than the rate range for older bedding plants.

Plant	Rate Range (ppm)	Plant	Rate Range (ppm)
Ageratum	5 - 10	Marigold	10 - 20
Celosia	5 - 10	Pansy	1 - 5
Coleus	5 - 10	Petunia	5 - 10
Dahlia	5 - 10	Salvia	5 - 10
Dianthus	5 - 10	Snapdragon	5 - 10
Impatiens	5 - 20	Zinnia	5 - 10

For bedding plant plugs not specifically listed above, the user should determine optimum rates starting with a rate of 5 ppm. Timing of application should begin at the 1 to 2 true leaf stage.

**Drench applications** are not recommended for bedding plant plugs due to the sensitivity and extremely low rates needed.

**D. BULB CROPS**

Height control can be achieved on a variety of bulb crops by any of the three application types.

**Spray applications**, although moderately effective, are the least desirable method for controlling height. Sequential applications are recommended in order to achieve desired uniformity. Applications should begin when plants are 2 to 4 inches tall.

**Drench applications** are very effective in the rate range of 8 to 160 ppm. Optimum rates vary widely, depending on species. Timing of application will also vary, depending on species. For bulbs which require a cold period, BONZI II is generally applied 1 to 5 days after removal from the cooler. For most other bulb types, application should be made when newly emerged shoots are 1 to 2 inches tall.

**Preplant bulb soaks** are also very effective. Effective rates for most species are in the range of 5 to 25 ppm, with a soaking time of 15 minutes to 1 hour. In general, lower use rates will require longer soaking times.

The following table gives recommended rate ranges and length of soaking time for a variety of bulb species:

Bulb Type	Spray Rate (ppm)	Drench Rate (ppm)	Preplant Bulb Soak Rate (ppm) / Soak Time
Amaryllis	ND	200	ND
Caladium	100 - 200	10 - 20	ND
Calla Lily	ND	10 - 30	20 / 15 min.
Daffodil	ND	20 - 40	ND
Freesia	ND	ND	100 - 300 / 1 hr.
Hybrid Lily	250 - 500	10 - 20	20 - 30 / 15 min.
Montbretia	ND	ND	20 - 30 / 15 min.
Tulip	ND	5 - 40	2 - 5 / 1 hr.

ND = Rates for this particular use have not been determined. For these applications the user should run trials using the rates recommended in Table 3.

For species not specifically listed, trials should be conducted using rates outlined in the section on DETERMINING OPTIMUM RATES.

#### E. CHRYSANTHEMUMS (POT)

BONZI II is effective in controlling the height of pot chrysanthemums when applied as either a spray or drench.

**Spray applications** are effective at rates of 50 to 200 ppm. Applications should begin when axillary shoots are 2 to 3 inches long. BONZI II can be applied earlier to vigorous varieties if additional control is desired.

Sequential applications of lower rates generally provide more uniformly shaped plants than single-spray applications.

BONZI II may be applied at time of disbud to reduce late stretch without reducing flower size or delaying flowering.

**Drench applications** of BONZI II are effective at recommended rates of 1 to 4 ppm. Application timing is when axillary shoots are 2 to 3 inches long.

Because pot chrysanthemums are usually planted with multiple cuttings per pot, uniform application is critical to achieving desired results.

#### F. FLOWERING PLANTS/FOLIAGE PLANTS (not specifically listed)

BONZI II is effective as a spray or drench application in controlling height on a wide variety of other flowering plants and foliage plants. It can be used as either a holding agent to stop growth (e.g., interiorscape) or a toning agent to slow growth. In general, herbaceous species will require lower rates than woody species. Trials should be conducted using rates outlined in the section on DETERMINING OPTIMUM RATES.

#### G. GERANIUMS

Geraniums are particularly sensitive to BONZI II. The user must determine optimum rates before applying to large numbers of plants.

**Spray applications** of BONZI II at recommended rates of 10 to 30 ppm will effectively control growth of geraniums. Early applications may require lower rates to avoid overstretching. Time of application for zonal geraniums is when growth is 1½ to 2 inches long; for seed geraniums, 2 to 4 weeks after transplanting or when needed.

BONZI II will reduce late stretch when applied as the flower stems begin to elongate.

**Drench applications**, although effective, should be made with caution due to the extreme sensitivity of geraniums to BONZI II. Trials should be conducted to determine optimum rates.

#### H. HIBISCUS

**Spray applications** at 30 to 150 ppm will effectively reduce shoot elongation. Application should be made when laterals are 1 to 4 inches long, depending on desired final plant size.

Single applications will control lateral growth for 3 to 6 weeks. Sequential applications may provide more uniform plant shape. BONZI II can be applied 1 to 2 weeks prior to flowering to prevent late stretch.

**Drench applications** will also effectively reduce shoot elongation. Trials should be conducted using recommended rates outlined in the section on DETERMINING OPTIMUM RATES.

#### I. POINSETTIAS

**Spray applications** of BONZI II will effectively control height of poinsettias. Recommended rates at 10 to 30 ppm for most areas of the U.S. In southern Florida, higher rates of 15 to 45 ppm are recommended.

Single applications may be made using the higher recommended rates. However, sequential applications initially using lower rates will provide better safety against overly retarded plants. For subsequent applications use 50 to 100% of the initial rate, depending on plant vigor at the time of reapplication.

Applications to slower growing varieties in cool climates should begin when axillary shoots are 2 to 3 inches long. For vigorous growing varieties in warm climates, applications should begin when axillary shoots are 1½ to 2 inches long. Sequential applications may be applied 1 to 3 times, at 7 to 14-day intervals, depending on plant vigor/growth.

Seasonably late applications of BONZI II will reduce plant height, but, like most PGR's may also reduce bract size. For growers scheduling early December flowering, BONZI II should not be applied after initiation of short days. As a guide, do not apply BONZI II after October 1 for areas outside of Florida, or after October 25 in Florida.

**Drench applications** generally have less of an effect on bract size than do sprays. Recommended rates are in the range of 2 to 4 ppm, based on a drench volume of 4 fl. oz./6-inch pot. Application should be made when axillary shoots are 2 to 3 inches long.

**NOTE:** Optimum BONZI II rates and timings for both spray and drench applications to poinsettias will vary depending on the variety.

**J. WOODY LANDSCAPE PLANTS (Container-grown in greenhouses/shadehouses)**

BONZI II is effective in controlling height on a wide variety of woody landscape plants using both spray or drench applications. Rate ranges for different species vary greatly. Trials should be conducted using rates outlined in the section on DETERMINING OPTIMUM RATES.

Examples of woody plants on which the product can be applied are:

- |               |              |
|---------------|--------------|
| Azalea        | Juniper      |
| Bougainvillea | Ligustrum    |
| Camellia      | Magnolia     |
| Euonymus      | Photinia     |
| Hydrangea     | Pine         |
| Ilex          | Rhododendron |

BONZI® Registered trademark of a Syngenta Group Company.





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Registrations and Regulatory Affairs  
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**FEDERAL EXPRESS**

May 21, 2001

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (H7504C)  
U.S. Environmental Protection Agency  
Ariel Rios Building  
1200 Pennsylvania Avenue NW  
Washington DC 20460

Attn: Ms. Sherada Hobgood (RD)

Dear Ms. Hobgood:

**SUBJECT: BONZIO II ORNAMENTAL GROWTH REGULATOR  
EPA REG. NO. 100-1079  
NOTIFICATION OF NAME CHANGE TO SYNGENTA CROP PROTECTION, INC.**

Enclosed is one copy of the subject product label which includes the following changes: [Note: Although a change in company name and address according to PR Notice 98-10 Part IV D. does not require a notification to the Agency as long as the ownership of the registration has been officially changed, Syngenta is submitting this notification to aid in state registration. In addition, the new EPA Reg. No., we believe, constitutes the need for a notification.]

1. Company name and address have been updated to reflect Syngenta Crop Protection, Inc.
2. The EPA Registration Number has been changed from 10182-382 to 100-1079 to reflect the new company number.
3. The copyright date reflects Syngenta.
4. Trademark statements have been updated to reflect Syngenta for those products for which Syngenta holds the trademark.
5. The Internet address has been changed to reflect Syngenta.
6. Other places in the label which refer to the company name have been updated.

To complete this notification, an EPA Form 8570-1 is included as well.

If you have any questions regarding this notification, please feel free to contact me at 302/476-2373.

Sincerely,

*Martina A. Haw*  
Martina A. Haw  
Regulatory Assistant II

Enclosures

cc: Ann Sibold, US EPA Acting Insecticide Product Manager, Team 10 (letter only)