228-688 09-15-2009 1/14

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Matthew Granahan
Registration Manager
Nufarm Americas Inc.
150 Harvester Drive, Suite 200
Burr Ridge, IL 60527

SEP 15 2009

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4 and 98-10
- Primary Brand Name Change: Nufarm Chlormequat Pro Plant Growth Regulator
- Updated Warranty Statement
- Other minor changes

Dear Mr. Granahan:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notices (PRN) 2007-4 and 98-10 dated July 15, 2009 for:

EPA Registration 228-688 Nufarm Chlormequat Pro Plant Growth Regulator

The Registration Division (RD) has conducted a review of the request(s) for applicability under 2007-4 and 98-10 and finds that the label changes requested fall within the scope of 2007-4 and 98-10. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identify the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

Please read instructions on reverse before completing form. Form Approved OMB No. 2070-0060, Approval expires 2-28-95

EPA

United States
Environmental Protection Agency
Washington, DC 20460

- ☐ Registration
- ☐ Amendment
- ☑ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
228-688	Tony Kish	☑ None ☐ Restricted
4. Company/Product (Name)	**PM#**	
Chlormequat E-Pro Plant Growth Regulator	22	

5. Name and Address of Applicant *(Include ZIP Code)*
Nufarm Americas, Inc.
150 Harvester Drive, Ste. 200
Burr Ridge, IL 60527

☐ *Check if this is a new address*

6. Expedited Reveiw. 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

- ☐ Amendment - Explain below.
- ☐ Resubmission in response to Agency letter dated _____
- ☑ Notification - Explain below.
- ☐ Final printed labels in repsonse to Agency letter dated
- ☐ "Me Too" Application.
- ☐ Other - Explain below.

NOTIFICATION
SEP 15 2009

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Notification of a primary brand name (Nufarm Chlormequat Pro Plant Growth Regulator) and minor label changes per PRN 98-10 and storage and disposal changes per PRN 2007-4. This notification is consistent with the provisions of PRN 98-10, PRN 2007-4 and EPA regulations at 40 CFR 152.46, 156.10, 156.140, 156.144, 156.146, and 156.156 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 PRN 98-10, PRN 2007-4 and 40 CFR 152.46, 156.10, 156.140, 156.144, 156.146, and 156.156 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 FIFRA.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Container
☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Metal ☑ Plastic ☐ Glass ☐ Paper ☐ Other (Specify)
***Certification must be submitted**	If "Yes" Unit Packaging wgt. / No. per container	If "Yes" Package wgt / No. per container	

3. Location of Net Contents Information	4. Size(s) Retail Container	5. Location of Label Directions
☑ Label ☐ Container	4 x 1 gallon	☑ On Label ☐ On Labeling accompanying product

6. Manner in Which Label is Affixed to Product ☑ Lithograph Paper glued Stenciled ☐ Other _____

Section - IV

1. Contact Point *(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)*

Name	Title	Telephone No. (Include Area Code)
Lizbeth Rea	Regulatory Manager	919/655-0701

Certification
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowlingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received (Stamped)

2. Signature	3. Title	4. Typed Name	5. Date
Lizbeth Rea	Regulatory Manager	Lizbeth Rea	7/15/2009

Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL		
EPA Registration #	**Date Submitted to EPA**	**Electronic file name**
000228-00688	July 17, 2009	000228-00688.20090715.EXFRNotification

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

Signature

07-17-2009
Date

Lizabeth Rea
Name (typed)

Product Registration Manager
Title

Nufarm Americas, Inc.
Lizbeth Rea
Regulatory Manager
150 Harvester Drive, Suite 200
Burr Ridge, IL 60527
Phone: 919.655.0701 Fax: 919.342.5176
liz.rea@us.nufarm.com

4/14

July 15, 2009

Via Overnight Courier

Linda Arrington
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U. S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-4501

Subject: Chlormequat E-Pro Plant Growth Regulator
EPA Reg. No. 228-688
PBN Change: Nufarm Chlormequat Pro Plant Growth Regulator
Minor Label Changes

Dear Ms. Arrington:

The following documents are attached in support of the primary brand name and minor label changes being made via notification under PRNs 98-10 & 2007-4.

- Application for a New Product Registration (EPA Form 8570-1)
- One (1) copy of the Nufarm Chlormequat Pro Plant Growth Regulator label with changes tracked. Changes include:
  - Replaced the product name throughout the label with "this product".
  - Replaced "recommend" and "may" with more definitive language.
  - Updated the Container Disposal statement to be consistent with PR Notice 2007-4.
  - Updated Warranty Disclaimer and Limitation of Liability statements.
- Five (5) copies of the Nufarm Chlormequat Pro Plant Growth Regulator label with changes incorporated.

Please call me at 919/655-0701 if you have any questions and/or comments regarding this submission.

Sincerely,

Lizbeth Rea
Regulatory Manager
Nufarm Americas Inc.

Nufarm Chlormequat Pro Plant Growth Regulator

A PLANT GROWTH REGULATOR FOR USE ON ORNAMENTALS IN GREEN HOUSES

ACTIVE INGREDIENT:
Chlormequat chloride: (2-chloroethyl)trimethylammonium chloride 11.8%
OTHER INGREDIENTS: 88.2%
TOTAL: 100.0%

1 gallon contains 1 pound (2-chloroethyl)trimethylammonium chloride

NOTIFICATION
SEP 10 2

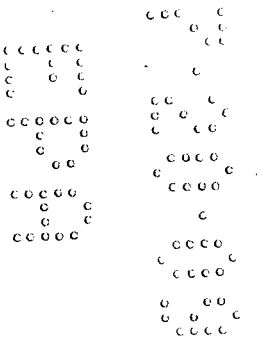
KEEP OUT OF REACH OF CHILDREN
CAUTION / PRECAUCION

Si usted no entiende la etiqueta, busque a alquien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

EPA Reg. No. 228-688

EPA Est. No.

Manufactured for:
Nufarm Americas Inc.
150 Harvester Drive
Burr Ridge, IL 60527



Net Contents:

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves, such as butyl rubber ≥14 mils, or natural rubber ≥ 14 mils, or neoprene rubber ≥14 mils, or nitrile rubber ≥14 mils.
- 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 PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID	
If swallowed:	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for 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 contact 1-800-424-9300 for emergency medical treatment information.	
NOTE TO PHYSICIAN The use of Atropine is contraindicated.	

ENVIRONMENTAL HAZARDS

This product is toxic to wildlife. Keep out of lakes, streams and ponds. 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.

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. Observe all precautionary statements, limitations, and application instructions on this label.

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, 40CFR 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 level 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 area 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, chemical-resistant gloves made of any waterproof material, shoes plus socks.

GENERAL INFORMATION

Before using this product, read all sections of this label.

This product is a plant growth regulator that enhances the aesthetic appeal and improves postproduction shipping and handling durability of ornamentals grown in greenhouses. Treated plants have shorter internodes, stronger stems and greener leaves resulting in a more compact, attractive and hardy plant.

Depending on crop culture, environmental conditions and plant growth habit, this product will typically reduce internode elongation for a period of 1 to 3 weeks following spray treatment. Multiple applications may be made as needed. This product has maximum effect on final plant height when applied at the beginning of a rapid stem elongation period and has less effect if applied when shoots are not elongating vigorously or the plant is at the end of an elongation phase. Individual grower preferences for crop development will dictate application rates, timing and frequency of this product.

USE PRECAUTIONS

This product is not a replacement for good cultural practices and should be used only on healthy plants grown under proper conditions.

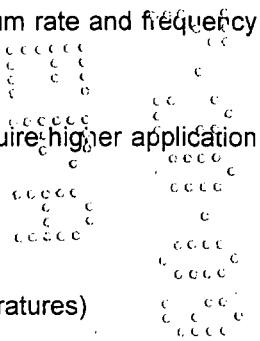
Because this product contains a wetting agent, additional wetting agents are not necessary.

If adjuvants or other chemicals will be used with this product, test areas should be treated first to ensure that no crop injury will occur. The suggested initial application rate for small-scale trials of this product is 1,250 ppm chlormequat chloride (the active ingredient in this product).

Because plants treated with this product may require less water, irrigation schedules may need to be modified in order to prevent over-irrigation.

FACTORS AFFECTING ACTIVITY

Plant growth and response to this product is altered by several factors. The optimum rate and frequency of application will vary depending on how the crop is grown.



Environmental Factors

The following conditions will tend to cause less compact growth and generally require higher application rates of this product:

- Crops produced under low light levels
- Crops produced under high humidity conditions
- Crops produced under higher temperatures
- Crops produced under higher DIF (difference between day and night temperatures)

Cultural Factors

The following cultural factors may cause plants to be more lush and taller, requiring the use of higher rates or more frequent applications at lower rates of this product:

- Crops grown with greater amounts of irrigation
- Crops grown with higher fertilization rates
- Crops grown with high amounts of ammoniacal nitrogen
- Plants that are spaced closely together causing leaves to overlap

The amount of chemical needed to achieve the desired final plant height for photoperiodic crops and varieties (such as poinsettias and chrysanthemums) will vary with the production schedule. Crops that are grown under long schedules with more time between planting and start of flower initiation or between final pinch and flower initiation will be taller than crops grown using short production schedules and will therefore require applications at higher rates or more frequent applications at lower rates of this product.

Varital Differences

Varieties within a species can vary greatly in their growth habits and the amount of this product required for optimum final height with taller, more vigorous varieties requiring greater amounts of this product than do shorter, less vigorous varieties. When applying to unfamiliar varieties, users should consult with plant and seed suppliers and breeder companies for information on growth habit.

In addition to natural height and vigor, colors within a bedding plant series may vary in sensitivity to this product as well.

MIXTURE PREPARATION

Optimum application rates of this product vary depending on the crop, the specific production situation and the final plant height and appearance desired. Users should determine optimum application rate, timing, and frequency for their specific production situations by conducting small-scale trials under the different conditions that this product is to be used before application to an entire crop. The rates specified in this label are general guidelines to be used by growers in the trials used to determine specific, optimum application rates appropriate for their operations.

	Mixing Ratio of Product for Spray or Drench Applications		
Concentration (ppm) chlormequat chloride active ingredient	**Fl. Oz. / Gal.**	**mL / Gal.**	**mL / L**
200	0.22	6.4	1.7
460	0.50	14.7	3.9
800	0.87	25.7	6.8
1000	1.08	32.1	8.4
1250	1.36	40.1	10.6
1500	1.63	48.1	12.7
2000	2.17	64.2	16.9
3000	3.25	94.2	25.4
4000	4.34	128.0	33.9

Nufarm Chlormequat Pro Plant Growth Regulator / B-Nine (EPA Reg. No. 400-69) Tank Mixes

NOTE: A tank mix of this product and B Nine is more active than using either chemical alone.

On plants that are not sensitive to this product or when an excessive number of applications are required, a tank mix of this product and B-Nine can be applied (being sure to follow the guidelines given on the labels of both products). The tank mix is to be applied as a foliar spray ONLY. As described above when using this product alone, the optimum application rates for each product will vary depending on the crop, the user's preference for height control, and the individual production situation. Test the tank mix with a small-scale trial before general use.

Application Rates

In general, the highest rate of this product that does not cause excessive leaf yellowing should be used, with the rate of B-Nine then raised or lowered to adjust the activity of the tank mix.

The following table provides a range of application rates to use when establishing this product and B-Nine trials:

Desired Activity	ppm Chlormequat chloride	ppm Daminozide (B-Nine active ingredient)
Very High	1500	5000
High	1500	2500
Medium	1250	1250
Low	1000	800

Tank Mix Considerations

Bedding Plants and General Crops: A tank mix of this product and B-Nine is effective on a wide range of crops and users must evaluate its use under their individual production situation. The tank mix may be used with low risk of excessive reduction in size on bedding plant plugs such as pansy and vinca. At higher rates, it may be used on plug crops that require stronger chemical activity to produce the desired height control such as salvia, marigold, and dahlia.

Geraniums: The addition of B-Nine to this product does not greatly enhance the height control achieved on geraniums.

Impatiens: A tank mix of this product and B-Nine provides height control on impatiens plugs but is less efficacious on mature impatiens crops.

Poinsettias: Because poinsettias are more sensitive than other crops to the combination of this proudct and B-Nine, use of tank mix application rates that are too high or application late in the crop growth cycle may cause reduced bract size and/or delayed bract coloring. **The "very high" activity rates of this product at 1,500 ppm chlormequat chloride (active ingredient in this product) and B-Nine at 5,000 ppm daminozide (B-Nine active ingredient) should NOT be used on poinsettias.** The high rates of 1,500 ppm chlormequat chloride (active ingredient in this product) and 2,500 ppm daminozide (B-Nine active ingredient) can be used on stock plants during the summer or on crops for flowering in the warmest regions. Outside of the warmest regions, growers should use the medium or low activity rates on crops for flowering. Applications to cuttings in propagation should be at low or medium rates in all regions. **A tank mix of this product and B-Nine should not be applied to natural season poinsettias after September 25th or after the start of short-days in photoperiod-controlled crops. After that date, the B-Nine should be omitted and this product used alone as described in this label.**

SPRAY APPLICATIONS

When sprayed, this product enters the plant through both leaves (both developing and mature) and stems with maximum effect occurring when it thoroughly covers all plant surfaces. The spray volume necessary for thorough plant coverage varies with plant size and foliage cover, but generally is between 2 and 3 quarts of spray solution per 100 square feet of bench space. Applicators should avoid spray volumes that result in heavy runoff of spray solution from the plant. To reduce the growth of upper lateral shoots and have less effect on lower shoots, this product may be applied in light spray volumes of approximately 1 quart per 100 square feet.

Because this product enters the plant while the spray solution stays wet, to provide maximum effect, spray when conditions that support slow drying of spray solutions exist. For best results, time applications of this product so that overhead irrigation or rain will not occur for a period of 6 hours after application.

Depending on the crop and individual user's desired results, and unless otherwise stated in the sections for specific crops below, spray application rates of this product range from 800-4,000 ppm chlormequat chloride (active ingredient in this product). All references to ppm are based on chlormequat chloride (active ingredient in this product).

Spray Application Phytotoxicity

Slight yellowing near leaf margins or at the tip of leaves that are small and rapidly enlarging at the time of application often result from foliar spray applications of this product, however, leaves that are mature when sprayed and leaves formed after application are not affected. Discoloration appears approximately 3 to 5 days after application and discolored areas usually regain most or all of their green color by the end of the crop cycle. The degree of yellowing is proportional to the application rate with the lowest specified rates causing no temporary discoloration or phytotoxicity. Brown necrotic areas that will not recover their green color may result from application rates of this product that are too high.

Trials should be conducted prior to using application rates of 1,500 ppm chlormequat chloride (active ingredient in this product) or greater in order to ensure that the amount of leaf spotting is acceptable to the user. If the amount of yellowing is determined to be unacceptable, the effects of phytotoxicity and temporary discoloration may be reduced by lowering application rates of this product and making more frequent applications at the lower rates.

NOTE: Users should *not* apply this product near the end of a crop cycle unless adequate trials have been conducted to ensure that the rate is low enough to avoid an undesirable appearance during the sales period.

DRENCH APPLICATIONS

This product may be applied to the growing medium as a drench that is taken up through the roots and transported to the stem tips where it is active. In addition to providing longer and more uniform control of stem elongation, drench applications do not cause leaf yellowing. Because the total amount of the active ingredient in this product applied to each container determines the reduction in stem elongation, users *must* ensure that both the amount of solution applied to each container and the concentration of this product in ppm are correct.

To prevent multiple plants in the same container from developing non-uniform heights, uniformly saturate all the potting medium with the drench. The drench should be applied to moist medium and not when crops need irrigation. For best results irrigate crops one day prior to applying the drench of this product.

Application rates for drench treatments of this product range from 2,000 to 4,000 ppm chlormequat chloride (active ingredient in this product). To determine the optimum rates under your particular conditions trials should be conducted. The following table provides suggested volumes of dilute product solution for different size containers however; these volumes should be modified if the user has established an optimal volume through their own small-scale trials.

Pot Diameter (inches)	Fluid ounces of dilute solution per pot	Number of pots treated with 1 gallon of solution
2 ¼ to 3	2	64.0
4	3	42.5
5	4	32.0
6	6	21.5
8	8	16.0

FACTORS AFFECTING ACTIVITY

Plant growth and response to this product is altered by several factors. The optimum rate and frequency of application will vary depending on how the crop is grown.

Environmental Factors

The following conditions will tend to cause less compact growth and generally require higher application rates of this product:

- Crops produced under low light levels
- Crops produced under high humidity conditions
- Crops produced under higher temperatures
- Crops produced under higher DIF (difference between day and night temperatures)

Cultural Factors

The following cultural factors may cause plants to be more lush and taller, requiring the use of higher rates or more frequent applications at lower rates of this product:

- Crops grown with greater amounts of irrigation
- Crops grown with higher fertilization rates
- Crops grown with high amounts of ammoniacal nitrogen
- Plants that are spaced closely together causing leaves to overlap

The amount of chemical needed to achieve the desired final plant height for photoperiodic crops and varieties (such as poinsettias and chrysanthemums) will vary with the production schedule. Crops that are grown under long schedules with more time between planting and start of flower initiation or between final pinch and flower initiation will be taller than crops grown using short production schedules and will therefore require higher application rates or more frequent applications at lower rates.

Varital Differences

Varieties within a species can vary greatly in their growth habits and the amount of this product required for optimum final height with taller, more vigorous varieties requiring greater amounts of this product than do shorter, less vigorous varieties. When applying to unfamiliar varieties, users should consult with plant and seed suppliers and breeder companies for information on growth habit.

In addition to natural height and vigor, colors within a bedding plant series may vary in sensitivity to this product as well.

APPLICATION INSTRUCTIONS FOR SPECIFIC SPECIES

POINSETTIAS

This product may be applied as needed to all poinsettia varieties that are stock plants, cuttings during propagation, and before or after pinching plants grown for flowering to reduce stem elongation.

Use Precautions

- Poinsettias respond to this product depending on variety and geographical region of the United States in which they are grown. For warmer production areas, higher rates and more frequent applications will be necessary.
- For natural-season crops in the Northern United States, this product must not be used after Oct. 15 with the exception that reduced rates may be used until Oct. 21 ONLY if conditions are warm and sunny.
- For poinsettias grown in the South, this product must not be used after Nov. 1.
- Making applications late in the season or using excessive rates may cause reduced bract size and / or delayed flowering.
- If the crop is being produced outside of its natural season, the last application should be no later than 6 weeks prior to flower maturity.

Application Instructions

Make spray applications at rates between 800 and 1,500 ppm chlormequat chloride (active ingredient in this product). If needed, repeat applications may be made at 3 to 14 day intervals. Frequent reapplication may be necessary if the lowest specified application rates are used. At rates of 1,000 to 1,500 ppm chlormequat chloride, less frequent reapplications will be needed. Higher rates (between 1,500 and 3,000 ppm chlormequat chloride) often result in significant leaf yellowing and are not frequently used, but may be applied if the user has adequately evaluated these rates.

Make drench applications at a rate of 3,000 to 4,000 ppm chlormequat chloride, being sure to follow the procedures listed in the **Drench Applications** section of this label. When making drench applications, be sure to follow the critical cut off dates listed under Use Precautions above.

GERANIUMS

This product controls plant size of seed geraniums and vegetatively propagated geranium types. It is also used inducing early flowering of seed geraniums, decreasing days to flowering and generating more compact growth and lateral breaks,

Application Instructions

Apply spray applications at rates between 800 to 1,500 ppm chlormequat chloride. First applications are typically made 2 to 4 weeks after planting plugs or rooted cuttings and after stems have started elongating. Make repeat applications as necessary to control growth.

To promote earlier flowering of seed geraniums, make two spray applications at 35 and 42 days after seeding using a rate of 1,500 ppm chlormequat chloride.

BEDDING PLANTS

This product controls stem elongation in the following (and other) bedding plant crops grown in packs, pots, hanging baskets, and plug trays:

Ageratum	Celosia	Cleome	Coleus
Dahlia	Dianthus	Gomphrena	Hypoestes
Jerusalem cherry	Marigold	Nasturtium	Salvia
Sunflower	Verbena	Vinca	Zinnia

Because the growth rates of bedding plants vary greatly depending on the growers' cultural practices applications of this product must be specifically tailored to grower practices being used and the desired final plant size. Additionally, since plant growth after transplanting is affected by the amount of this product (or other) growth regulator that is applied to the plant during the plug stage, using this product during the plug stage will reduce the amount needed after transplanting.

Make spray applications at a rate of 800 to 1,500 ppm chlormequat chloride after transplanted plugs begin to grow and the amount of growth control required can be determined. Use an increased rate of 3,000 ppm chlormequat chloride after extensive trials are conducted to evaluate the effects of the higher rate. For bedding plants in seedling stage, users should evaluate use of this product starting at one-half of the rate used on finished bedding plants.

OTHER HERBACEOUS CROPS

Apply this product as either a drench or foliar spray to other herbaceous crops not specifically listed (such as flowering potted plants, tropical and temperate perennials, and foliage plants) to reduce stem elongation. Optimum rate, timing and frequency of applications of this product will vary for different crops and amount of height control desired by individual users, and users should conduct trials with a small number of plants prior to using this product on entire crops.

Examples of other herbaceous crops treated with this product:

Achimenes	Aster	Astilbe	Begonia, hiemalis
Begonia, tuberous	Calceolaria	Carnation	Chrysanthemum
Columbine	Easter Lily	Gynura aurantica	Ivy
Kalanchoe	*Lilium* spp.	Morning glory	Pachystachys
Pilea spp.	Pentas	*Salvia* spp.	Schefflera
Sedum spp.	Sunflower		

HIBISCUS

To improve flowering and to produce compact plants with uniform shoot growth, make applications of this product to plants of *Hibiscus* spp. at rates of 200 to 600 ppm chlormequat chloride (active ingredient in this product. It is suggested that users start conducting trials with a rate of 460 ppm chlormequat chloride. To produce the most compact flowering plants (height less than 18" in 6-inch pot), make 3 to 4 applications as needed after the final pinch, and first application should be made when laterals are 0.5 to 1 inch long. To produce most uniform growth, apply this product in multiple applications and once before first and second pinches to produce more compact plants before final pinch.

AZALEAS

Applications of this product generate earlier budded plants with multiple buds per shoot that have more compact, and symmetrical heads. It can also be used to induce flower bud set in crops produced out of season in a year-round production system.

Optimum spray rates for this product generally range between 1,000 and 2,000 ppm chlormequat chloride in most situations, but range as high as 4,000 ppm chlormequat chloride in some cases since Azalea growth habit and response to this product varies with variety, geographical region and production system. Make two to six applications when laterals are about 2 inches long, approximately 3 to 5 weeks after last pinch. Plants treated with this product flower a few days later than non-treated plants.

OTHER WOODY FLOWERING CROPS

Treat other woody flowering crops not specifically listed with this product to produce more compact growth and earlier flower bud initiation by applying as needed prior to pinching or after the last pinch. Optimum rate, timing and frequency of applications will vary for different crops and amount of height control desired by individual users, and users should conduct trials with a small number of plants prior to using this product on entire crops.

Examples of flowering woody crops treated with this product:

Barleria cristata	Bougainvillea	Camellia
Fuchsia	Gardenia	Hollies
Hydrangea	Lantana	Potted rose
Pseuderanthemum lactifolia	Rhododendron	

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container. Do not store below freezing temperatures.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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 containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

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