

67690-2

06/19/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Mr Laurent C Mezin
Sepro Corporation
11550 N Meridian Street, Suite 600
Carmel, IN 46032

NOTIFICATION

JUN 19 2012

Subject Notification for Label Change per PRN 98-10 and 2007-4 Storage and disposal update , warranty statements update and other changes
Submission date 5/16/2012
Product Name A-Rest Solution
EPA Reg No 67690-2
Decision Number 465146

Dear Registrant

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 5/16/2012 for the above product The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10 The label submitted with the application has been stamped "Notification" and will be placed in our records

If you have questions concerning this letter, please call Banza Djapao at 703-305-7269 or via email at djapao_banza@epa.gov or you may call me at 703-308-9443

Sincerely,

A handwritten signature in black ink that reads "Banza Djapao for".

Tony Kish
Product Manager 22
Fungicide Branch
Registration Division (7504P)



	United States Environmental Protection Agency Washington DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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Application for Pesticide - Section I

1 Company/Product Number 67690 2	2 EPA Product Manager Tony Kish	3 Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4 Company/Product (Name) SePRO Corporation / A Rest Solution	PM# 22	
5 Name and Address of Applicant (Include ZIP Code) SePRO Corporation 11550 N Meridian Street Suite 600 Carmel IN 46032 <input 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 <input checked="" type="checkbox"/> EPA Reg No <u>JUN 19 2012</u> Product Name _____	

Section - II

<input type="checkbox"/> Amendment Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<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)

Submission of minor label changes as permitted under PRN98 10

Section - III

1 Material This Product Will Be Packaged In				2 Type of Container	
Child Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Metal <input checked="" 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 Package wgt No per container	
3 Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4 Size(s) Retail Container 32oz to 100Gal		5 Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6 Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1 Contact Point (Complete items directly below for identification of individual to be contacted if necessary to process this application)		
Name Laurent C Mezin	Title Mgr Regulatory Affairs	Telephone No (Include Area Code) 317 703 9722
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 knowingly 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 Manager Regulatory Affairs	
4 Typed Name Laurent C Mezin	5 Date 5/16/2012	

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SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565
Phone (317) 580-8282 Fax (317) 580-8290

16 May 2012

Mr Tony Kish
Product Manager 22
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U S Environmental Protection Agency
Document Processing Desk
Room S-4900 One Potomac Yard
2777 South Crystal Drive
Arlington VA 22202

Subject A-Rest Solution (EPA Reg No 67690-2)
Notification – Minor label changes per PRN98-10

Dear Mr Kish

On 18 April 2011 SePRO submitted a label amendment for A-Rest Solution, which was withdrawn at the Agency s request on 28 March 2012 This submission makes minor changes to the label which had been submitted at the time

The following enclosed items support this notification

- Cover letter (this document)
- Application for Registration EPA Form 8570-1
- One copy each of the clean and highlighted labels (FPL20120516)

This notification is consistent with the provisions of the 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

If you have any questions, please do not hesitate to contact me at (317) 580-8286 or at LaurentM@sepro com

Sincerely

Laurent C Mezin
Manager, Regulatory Affairs

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A-Rest* Solution

Plant Growth Regulator

NOTIFICATION

JUN 19 2012

EPA Reg No 67690-2

FPL20120516 Clean

Registration Notes Based off EPA Stamped label dated September 29 2009 with FPL081809

General Label Changes

- 1 Updated FPL date
- 2 Updated Storage and Disposal language to comply with PR Notice 2007-4
- 3 As permitted by PRN 98-10 corrected formatting typos label consistency and updated the warranty statements, if applicable
- 4 Rearranged the format of the label to be consistent with other product labels and recent approvals by EPA

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[Front of label booklet]



A-Rest* Solution

PLANT GROWTH REGULATOR

FOR HEIGHT CONTROL IN CONTAINER-GROWN ORNAMENTALS, FOLIAGE PLANTS AND BEDDING PLANTS

Active Ingredient

ancymidol α -cyclopropyl- α -(*p*-methoxyphenyl)-5-pyrimidinemethanol 0.0264%

Other Ingredients

99.9736%

TOTAL

100.00%

Contains 1.00 gm of active ingredient per gallon

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta busque a alguien 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)

Refer to inside of label booklet for additional precautionary information and *Directions for Use*, including *First Aid* and *Storage and Disposal*

Notice Read the entire label before using Use only according to label directions **Before using this product, read *Terms and Conditions of Use*, *Warranty Disclaimer*, *Inherent Risks of Use*, and *Limitation of Remedies* inside label booklet**

EPA Reg No 67690-2
FPL20120516

EPA Est No _____
[SPC-]_____

SePRO Corporation, 11550 North Meridian Street, Suite 600, Carmel, IN 46032

Plant Growth Regulator

Net Contents _____
[Refillable/Nonrefillable container _____]

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[Label booklet text, ALL containers]

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION Harmful if swallowed or if inhaled Avoid breathing spray mist or contact with skin, eyes or clothing Remove contaminated clothing and wash before reuse

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • 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 a poison control center or doctor • Do not give anything by mouth to an unconscious person
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing, call 911 or an ambulance then give artificial respiration preferably mouth-to-mouth if possible • Call a poison control center or doctor for further treatment advice
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 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
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing • Rinse skin immediately with plenty of water for 15 to 20 minutes • Call a poison control center or doctor for treatment advice
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053	

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear

- Long-sleeved shirt and long pants and
- 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

Additional Personal Protective Equipment (PPE) is needed for use in California due to differences in federal and state law

Users in California must also wear

- Coveralls and
- Chemical resistant gloves made of any waterproof material

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

ENVIRONMENTAL HAZARDS

Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark Do not contaminate water when disposing of equipment washwaters or rinsate

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling Read all Directions for Use carefully before applying

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

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
- Chemical-resistant gloves made of any waterproof material, and
- Shoes plus socks

PRODUCT INFORMATION

A-Rest* Solution Plant Growth Regulator is for use on ornamental plants grown in containers in nurseries, greenhouses shadehouses and interiorscapes Use of A-Rest effectively reduces internode elongation, resulting in a more desirable compact plant Growth regulation effects produced by A-Rest are the result of inhibition of gibberellin biosynthesis When used as directed A-Rest produces no phytotoxic effects

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FACTORS AFFECTING PLANT RESPONSE TO A-REST

There are many factors that can affect a plant's response to A-Rest. They include proper application, environmental conditions, plant/container size and cultural practices. These factors can affect the amount of A-Rest that is required for the desired plant height.

- **Cultural Practices** may affect the plant's response to A-Rest. Plants which are grown at close spacing or in small pots and using high water and fertility levels may require an increase in the amount of A-Rest needed. The media in which the plants are grown can reduce the effectiveness of plant growth regulator drench applications. The effectiveness of an A-Rest drench application will be reduced in growing media that utilizes a high amount of pine bark.
- **Different Varieties or Cultivars** within a given plant species may require a higher or lower rate of A-Rest. Varieties that are taller and more vigorous generally require more A-Rest 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 A-Rest needed. Stem elongation increases with increased temperatures. Growers in warm climates will need to use higher rates and/or more applications compared to those in cooler climates. The amount of A-Rest needed and the number of applications may also vary depending on the time of year, with higher rates and/or more applications needed during warmer months.

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. Use the A-Rest Dilution Table (Table 1) to determine the amount of A-Rest 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 A-Rest and water frequently to assure uniform distribution during application.

TABLE 1 A-REST DILUTION TABLE					
A-Rest Desired Concentration (ppm)	Fl Oz Per Gallon Solution	ml Per Gallon Solution	A-Rest Desired Concentration (ppm)	Fl Oz Per Gallon Solution	ml Per Gallon Solution
0.5	0.25	7	16	7.8	234
1	0.5	14	17	8.2	246
2	1.0	29	18	8.7	261
3	1.5	43	19	9.2	276
4	1.9	57	20	9.7	287
5	2.4	72	25	12.1	359
6	2.9	87	26	12.6	378
7	3.4	102	30	14.5	430
8	3.9	117	33	16.0	480
9	4.4	132	35	17.0	510
10	4.8	143	40	19.4	573
11	5.3	159	50	24.2	717
12	5.8	174	65	31.5	932
13	6.3	189	66	32.0	960
14	6.8	204	100	48.5	1,433

15	7 3	215	132	64 0	1 892
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APPLICATION TECHNIQUES

Plants absorb A-Rest through both foliage and roots **A-Rest may be applied as a spray or as a drench to achieve the desired plant height control** Split or sequential applications under certain conditions allow greater treatment flexibility and may be desirable

Spray Applications

A-Rest applied as a foliar spray is absorbed through plant foliage and is then translocated to the terminal where it reduces internode elongation A-Rest reaching the growing media as runoff from foliar treatments or over-spray will result in additional growth regulation from root uptake

When applying as a spray the following should be noted

- Do not use wetting agents in combination with A-Rest as crop injury may occur
- Avoid uneven application or over-application to prevent irregular or excessive growth control
- Use of the highest recommended application rates may cause a slight delay (two to five days) in flower development on some species
- Do not allow spray drift to contact non-target plants

- 1 **Bench Area Sprays** - This method is generally used for plants in small containers or that are spaced closely Dilute A-Rest to the required concentration using the spray preparation guidelines described in Table 1 Apply uniformly at a rate of one (1) gallon of spray per 200 sq ft of bench area
- 2 **Individual Plant Sprays** - Mix the spray solution with the amount of A-Rest and water to achieve the desired concentration (ppm) in Table 1 Spray individual plant foliage to the point of runoff Care should be taken to apply an equivalent amount of spray volume to plants of the same size and species or cultivar Uniformity in plant response is generally more difficult with individual plant sprays than bench area sprays
- 3 **Sequential Spray Applications** - Using sequential applications may provide more uniform growth regulation 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 With some species for example chrysanthemums and azaleas individual lateral shoots may outgrow 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 help reduce this problem

Drench Applications

Drench treatments of A-Rest will provide treatment accuracy for consistently uniform results A-Rest is readily absorbed by the roots and translocated to the terminals Growing media should be moist but not wet at the time of treatment Best results are obtained when moisture content allows the drench treatment to become well distributed and retained entirely within the pot This may be achieved by watering the plants the day before treating Response may be variable if part of the treatment is lost to flow-through or if growing media is too dry to allow for even distribution of the treatment Generally, a volume of 2 fl oz (60 mL) is required to treat a 4-inch pot or 4 fl oz (120 mL) for treatment of a 6-inch pot (Table 2) Dilute A-Rest to the required concentration using the method described in Table 1 When applying as a drench the use of pine bark in potting soil mix may reduce the effectiveness of drench treatments

TABLE 2 DRENCH VOLUME GUIDELINES		
Pot Diameter (Inches)	Drench Volume (fl oz /pot)	Drench Volume (mls/pot)
4	2	60
5	3	90
6	4	120
8	10	300
10	25	750
12	40	1 200

Note The recommended drench volumes were based on the soil capacity of a common 6-inch azalea-type pot. Extrapolating the recommendation for this type pot to smaller or larger containers may not be correct for the 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 growing media used.

CHEMIGATION (Not for use in California)

Pesticide labels contain directions for use which are necessary for effecting the purpose for which the product is intended and to protect health and the environment. The following information is intended to decrease environmental risks of pesticide contamination of ground water and will decrease direct human exposure to pesticide treated irrigation water by providing appropriate directions for use.

Apply this product only through pressurized drench (flood) sprinkler, or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation systems.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact state Extension Service Specialists, equipment manufacturers, or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise.

Chemigation Systems Connected To Public Water Systems

- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional reduced-pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the

outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe

- The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump
- The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump when the water pressure decreases to the point where pesticide distribution is adversely affected
- Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

Pressurized Drench (Flood) System

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements

- The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow
- The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump
- The pesticide injection pipeline must also contain a functional normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlocked to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

Sprinkler (Spray) Chemigation

- The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow
- The pesticide injection pipeline must contain a functional, automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump
- The pesticide injection pipeline must also contain a functional normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops

- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- Do not apply when wind speed favors drift beyond the area intended for treatment

Drp (Trickle) Chemigation

- The system must contain a functional check valve vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow
- The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump
- The pesticide injection pipeline must also contain a functional normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- Systems must use a metering pump, such as a positive displacement injection pump, (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

General Information

Pesticide supply tanks are recommended for the application of these products. See label instructions for dilution use rates and timing of applications. Agitate prior to use.

Since the material is used in an injections proportioner the pesticide is to be applied continuously for the duration of the water application.

DETERMINING OPTIMUM RATES

The amount of A-Rest required for an optimum growth response will vary among growers and will depend upon several factors: the final desired height, length of control desired, pot size, stage of growth, method of application, season and varietal response. Species-specific cultural practices such as watering, potting media, fertilization and temperature and light conditions will also affect the growth response to a given dosage. Therefore growers should establish specific application rates based on small-scale treatments under actual use conditions and keep records as to plant species and variety sensitivity before A-Rest is applied to a large number of plants. **The rates recommended on this label are rate ranges and should be used only as a guideline.**

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 on a small number of plants using the guideline rates in Table 3.

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The maximum rate which may be applied to any crop is 132 ppm

TABLE 3 GENERAL GUIDELINE RATES BY PLANT TYPE		
Plant Type	Spray Rate Range (ppm)	Drench Rate Range (ppm)
Bedding Plants	6 - 66	1 - 4
Bedding Plant Plugs	3 - 35	0.5 - 1
Flowering/Foliage Plants (Annual or Perennial)		
Herbaceous species	20 - 50	1 - 4
Woody species	50	2 - 4
Bulb Crops	25 - 50	2 - 4

USE AND RATE RECOMMENDATIONS BY CROP

A-Rest is effective in controlling the height of most ornamental crops (Table 3) The use and rate recommendations for the species that follow should act as a starting point in determining the best rate for your specific cultural and environmental growing conditions Before you apply A-Rest to a large number of plants, be sure to read and understand the section titled *Determining Optimum Rates*

Azaleas

A-Rest is effective in controlling Azalea height, resulting in a more compact plant

Spray Apply after plants have been trimmed Prepare foliar spray according to directions in Table 1 Apply at a base rate of 26 ppm and thoroughly cover all foliage

Bedding Plants

A-Rest is effective on a wide range of bedding plants for height control

Spray Dilute A-Rest according to directions in Table 1 See Table 4 for application rate guidelines for a variety of common bedding plants For specific plants not identified in Table 4 a base rate of 15 ppm is recommended Growers should establish specific application rates and timing based on small-scale treatments under actual use conditions and keep records as to plant species and variety sensitivity **Apply spray solution uniformly over the treatment area at a rate of 1 gallon per 200 sq ft regardless of plant spacing In general, applications may be made after the plants have initiated new growth after being transplanted**

Drench Apply to uniformly moist potting media Apply at a solution concentration of 1 to 4 PPM at the recommended volume per pot (see Table 2) Rates for a specific plant species variety and set of use conditions should be determined in small-scale treatments prior to large-scale applications The user should determine optimum rates starting with a rate of 2 ppm in the Sunbelt Region and 1 ppm in the Northern Belt Region

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TABLE 4 SPRAY RATE RANGE (PPM) GUIDELINES FOR SOME BEDDING PLANTS			
Plant	Plant Stage of Growth		
	Plug	After Transplant	Finished
Ageratum	7 - 12	10 - 15	15 - 26
Begonia	3 - 5	6 - 12	10 - 15
Celosia	7 - 12	10 - 15	15 - 26
China Aster	7 - 12	10 - 15	15 - 26
Cleome	7 - 12	10 - 15	15 - 26
Cornflower	7 - 12	10 - 15	15 - 26
Dahlia	7 - 12	10 - 15	15 - 26
Dianthus	7 - 12	10 - 15	15 - 26
Geranium	26 - 35	33 - 66	26 - 33
Marigold	13 - 20	18 - 26	26 - 44
Impatiens	10 - 20	20 - 26	26 - 44
Pansy	3 - 7	8 - 10	11 - 15
Petunia	10 - 15	15 - 20	15 - 26
Portulaca	7 - 12	10 - 15	15 - 26
Salvia	10 - 15	15 - 20	15 - 26
Snapdragon	10 - 15	15 - 20	15 - 26
Vinca	5 - 10	8 - 13	13 - 18
Zinnia	7 - 12	10 - 15	15 - 26

Bedding Plant Plugs

Foliar applications of A-Rest are effective in controlling the height and strengthening the stem of bedding plant plugs. The rate of A-Rest for bedding plant plugs will be much lower than the rate for a more mature bedding plant. The grower should determine the optimum rate for the species grown under their cultural and environmental conditions by running trials on a small number of plants. A recommended starting rate range is 5 - 10 ppm. Applications to bedding plant plugs should begin when the plants have reached the 1 to 2 true leaf stage.

Bulb or Fibrous Root Crops

A-Rest is very effective on most bulb crops. A-Rest is most effective when applied as a drench rather than a spray on most bulb crops. For bulbs species not listed, the grower should determine the optimum rate for the species grown under their cultural and environmental conditions by running trials on a small number of plants. A recommended starting rate for a drench application is 1 - 4 ppm for sprays 50 ppm.

TABLE 5 RATE RANGE GUIDELINES FOR SOME CROPS		
Plant	Spray Rate Range (ppm)	Drench Rate Range (ppm)
Easter Lily	30 - 132	2 - 4
Dahlia	NR	2 - 4
Tulip	NR	1 - 4

NR = Not Recommended

Easter Lily

Spray Apply to plants 2 to 6 inches in height. A base rate of 50 ppm is recommended on Ace and Nellie White varieties. A rate of 50 - 132 ppm is recommended on the

Japanese Georgia variety A second application if required should be made two weeks after the first

Drench Apply to uniformly moist potting media Plants may be treated from emergence to 12 inches in height For optimum results treat when plants are from 2 to 6 inches in height

Dahlia

Soil Drench Apply to uniformly moist potting media approximately 2 weeks after planting Dahlia cultivars *Siemen Doornbosch* and *Honey* may not respond satisfactorily to an A-Rest treatment

Tulip

Drench Apply to uniformly moist potting media from one week before to two days after forcing begins The rate used should be established in small scale treatments according to the variety used and the final height desired for market

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

Chrysanthemums (Pot)

A-Rest is effective in controlling the height of potted Chrysanthemums as either a spray or a drench application

Spray A base rate of 25 ppm is recommended for sensitive varieties and 50 ppm for all others Spray sensitive varieties when plants have reached the desired height For less sensitive varieties, spray when the axillary shoots following the pinch are 2 1/2 to 3 inches long If a second application is required it should be made two weeks after the first

Drench Apply at a concentration of 2 - 4 ppm For optimum results apply to uniformly moist potting soil when plants are 2 to 6 inches in height (approximately two weeks following pinch)

Flowering Plants/Foliage Plants

A-Rest is effective when applied as a spray or drench on a wide variety of other flowering plants and foliage plants 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* A recommended starting rate for a drench application is 1 - 4 ppm and for sprays 33 ppm

TABLE 6 RATE RANGE GUIDELINES FOR SOME FLOWERING/FOLIAGE PLANTS		
Plant	Spray Rate Range (ppm)	Drench Rate Range (ppm)
Alternanthera	25 - 132	2 - 4
Bleeding Heart	65 - 132	2 - 4
Clematis	25 - 132	2 - 4
Columbine	65 - 132	2 - 4
Delphinium	35 - 132	2 - 4

Dracaena	25 - 132	2 - 4
Fatshedera	65 - 132	2 - 4
Gerbera Daisy	25 - 132	2 - 4
Liatris	25 - 132	2 - 4
Monstera	25 - 132	2 - 4
Nepthytis, Green Gold	25 - 132	2 - 4
Nepthytis Green	25 - 132	2 - 4
Philodendron	25 - 132	2 - 4
Pilea	25 - 132	2 - 4
Pothos	25 - 132	2 - 4
Purple Passion	25 - 132	2 - 4
Schefflera	25 - 132	2 - 4

Bleeding Heart

Bench Area Spray Apply at 65 - 132 ppm when plants are well rooted and have 6 - 8 inches of new growth but prior to initiation of flowering

Drench Apply to uniformly moist media about 3 weeks after planting at a concentration of 2 - 4 ppm

Columbine (Aquilegia)

Bench Area Spray Apply when plants are well rooted but prior to initiation of flowering

Delphinium

Bench Area Spray Apply when plants are well rooted but prior to initiation of flowering

Drench Apply to uniformly moist potting media

Fatshedera

Spray Apply when plants are well rooted and actively growing

Drench Apply to uniformly moist potting media

Liatris

Drench Apply to uniformly moist potting media

Poinsettias

Drench Apply at a concentration of 0.5 - 2 ppm Apply to uniformly moist potting media Application timing may vary depending upon the variety height goal desired and individual grower experience

Application Timing

- **Early Applications** Treat plants at pinch to 4 weeks after pinch or 8 to 12 weeks before finishing
- **Late Applications** The timing of application should be based upon the height of the poinsettia in relation to height goal If final plant height goal is 15 inches then apply A-Rest when the plants are 12 - 13 inches in height To ensure uniformity any plants shorter than 12 - 13 inches should not be treated at that time
- **Applications after the Start of Short Days** A-Rest may be applied as a drench very late in the crop cycle without adversely affecting the bract size or quality The suggested trial rate is 1.0 ppm

**Woody Landscape Plants
(Container-Grown In Greenhouses and Shadehouses)**

A-Rest is effective in controlling the height on a wide variety of woody landscape plants using either 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*

Some examples of woody landscape plants to which A-Rest may be applied are

- Azalea
- Gardenia
- Holly
- Hydrangea

STORAGE AND DISPOSAL

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

Pesticide Storage Keep from freezing. Store in original container only. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

Pesticide Disposal Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling

Nonrefillable Container **DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying, then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) 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 ¼ 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.

Triple rinse containers too large to shake (capacity >5 gallons) as follows Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use return the container to the point of purchase or to a designated location This container must only be refilled with a pesticide product Prior to refilling inspect carefully for damage such as cracks punctures, abrasions, worn-out threads and closure devices Check for leaks after refilling and before transport **DO NOT** transport if this container is damaged or leaking If the container is damaged or leaking or obsolete and not returned to the point of purchase or to a designated location triple rinse emptied container and offer for recycling, if available or dispose of container in compliance with state and local regulations

TERMS AND CONDITIONS OF USE

If terms of the following *Warranty Disclaimer Inherent Risks of Use and Limitation of Remedies* are not acceptable return unopened package at once to the seller for a full refund of purchase price paid Otherwise to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer Inherent Risks of Use, and Limitation of Remedies*

WARRANTY DISCLAIMER

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions subject to the inherent risks set forth below **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY**

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product Plant injury lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures soil conditions etc) abnormal conditions (such as excessive rainfall, drought, tornadoes hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller To the extent consistent with applicable law all such risks shall be assumed by the buyer

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract negligence strict liability or other legal theories) shall be limited to, at SePRO Corporation s election one of the following

- (1) Refund of purchase price paid by buyer or user for product bought or
- (2) Replacement of amount of product used

To the extent consistent with applicable law SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing To the extent consistent with applicable law in no case shall SePRO Corporation be liable for consequential or incidental damages or losses

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The terms of the *Warranty Disclaimer Inherent Risks of Use* and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer or Limitations of Remedies* in any manner.

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[Base label for Nonrefillable, Rigid containers 5 gal or less]



A-Rest* Solution

PLANT GROWTH REGULATOR

FOR HEIGHT CONTROL IN CONTAINER-GROWN ORNAMENTALS, FOLIAGE PLANTS AND BEDDING PLANTS

Active Ingredient

ancymidol α -cyclopropyl- α -(*p*-methoxyphenyl)-5-pyrimidinemethanol 0.0264%

Other Ingredients

99.9736%

TOTAL

100.00%

Contains 1.00 gm of active ingredient per gallon

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION Harmful if Swallowed or if Inhaled Avoid breathing spray mist or contact with skin, eyes or clothing Remove contaminated clothing and wash before reuse

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • 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 a poison control center or doctor • Do not give anything by mouth to an unconscious person
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth-to-mouth if possible • Call a poison control center or doctor for further treatment advice
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 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
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing • Rinse skin immediately with plenty of water for 15 to 20 minutes • Call a poison control center or doctor for treatment advice
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of emergency endangering health or the environment involving this product call INFOTRAC at 1-800-535-5053	

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STORAGE AND DISPOSAL

Do not contaminate water food or feed by improper storage or disposal

Pesticide Storage Keep from freezing Store only in original container Do not store near feed or foodstuffs In case of leak or spill use absorbent materials to contain liquids and dispose as waste

Pesticide Disposal Wastes resulting from use of this product may be used according to label directions or disposed of at an approved waste disposal facility

Container Handling

Nonrefillable Container DO NOT reuse or refill this container Triple rinse or pressure rinse container (or equivalent) promptly after emptying then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by incineration or by other procedures approved by state and local authorities

Refillable Container Refill this container with pesticide only **DO NOT** reuse this container for any other purpose Triple rinsing the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller

See attached booklet for complete container disposal directions including triple rinsing and pressure rinsing instructions

Refer to inside of label booklet for additional precautionary information and *Directions for Use*, including First Aid and Storage and Disposal

Notice Read the entire label before using Use only according to label directions **Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies* inside label booklet**

EPA Reg No 67690-2
FPL20120516

EPA Est No _____
[SPC-]_____

SePRO Corporation, 11550 North Meridian Street, Suite 600, Carmel, IN 46032

Plant Growth Regulator

Net Contents _____
[Refillable/Nonrefillable container]_____