

04/20/2006

Flease read instructions on reverse before co	mpleting form.						Form App	proved. OMB No. 2070-0060
SEPA Environm	United States ental Protect Washington, DC 2	tion Ager	псу		x	Registra Amenda Other		OPP Identifier Number
	Applicat	tion for P	estici	le - Sect	ion	1		
1. Company/Product Number 67690-20				Product Mane			-	roposed Classification
4. Company/Product (Name) Topflor Ornamental Plant Growth Regulator			PM# 22]
5. Name and Address of Applicant Include SePRO Corporation 11550 N. Meridian St., Ste. 600 Carmel, IN 46032-4565 Check if this is a new address			(b)(i), m to: EPA R		s sim	ilar or ident	ical in co	FIFRA Section 3(c)(3) emposition and labeling
		Sect	ion - I)				
Amendment - Explain below.				Final printed		s in repsons	e to	NOTIFICATION
Resubmission in response to Agenc X Notification - Explain below.	y letter dated	·	- 🔲	"Me Too" A	pplica	ition.		APR 2 0 2006
Directions for Use section of the i and Disposal information was mo	ved to the botto	om of the I		ns for Use				
1. Material This Product Will Be Packaged I		144	oluble Pr		<u></u>			
Child-Resistant Packaging Unit Packagin Yes Yes No No	Q		Yes No	ickaging		2. Type of	Metal Plastic Glass	
* Certification must be submitted	No. per ng wgt. conteiner	If "Yes" Package		No. per container			Paper Other (Specify)
3. Location of Nat Contents Information	4. Size(s) R	leteil Contain	er		5. Lo	cation of Lat	oel Direction	ons
Label Container 6. Manner in Which Label is Affixed to Proc		ograph ar glued sciled		Other				
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1. Contact Point (Complete items directly i	elow for identifice				f neci	essery, to pr	ocess this	application.)
Name Amy Dugger-Ronyak		Titte Regulate	ory Affa	irs Specia	list			e No. (Include Area Code) 30-828ନ
I certify that the statements I have m I acknowledge that any knowlingly for both under applicable law.	Certific ade on this form ar alse or misleading s	nd all attachn	nents the ly be pun	reto are true shable by fin	, accu	irate and cor mprisonmen	mplete. t or	6. Date Application Received (Stamped)
2. Signature My/Musica-K	enyall	3, Titte Regul	atory	Affairs	Sp	ecialist		
4. Typed Name Amy Dugger-Ronyak		5. Date April	05,	2006				

(Laminated booklet, cover):



Topflor*

Ornamental Plant Growth Regulator

A growth regulator for use on ornamental plants grown in containers in commercial nurseries, greenhouses and shadehouses.

Active Ingredient:

flurprimidol: a-(1-methylethyl)-a-[4-(trifluoromethoxy)phenyl]-5-pyrimidinemethanol	0.38%
Inert Ingredients	
Total	

Contains 14.4 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, Directions for Use and Storage and Disposal Information.

Shake well before using.

EPA registration. No. 67690-20 FPL 040506

EPA Est. No. XXXXXX-XX-XXX SPC - XXXXXX

*Trademark of SePRO Corporation SePRO Corporation • Carmel, IN 46032, U.S.A.

Ornamental Plant Growth Regulator

Net Contents 67.6 fluid ounces (2 liters)

(Page 1 through end of datapack)

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION / PRECAUCIÓN

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material
- 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.

First Aid	
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 poison control center or doctor for treatment advice.
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.
If swallowed	 Call a poison control center or doctor 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 a unconcious person.
If inhaled	 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.
Have the produ	uct container or label with you when calling a poison control center or doctor, or going for

Environmental Hazards

InfoTrac toll free at 1-800-535-5053.

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.

treatment. In case of emergency endangering health or the environment involving this product, call

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.

Shake well before using.

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
- Shoes plus socks
- · Long sleeved shirt and long pants

GENERAL INFORMATION

Topflor Plant Growth Regulator is for use on ornamental plants grown in containers in nurseries, greenhouses and shadehouses. Use of Topflor effectively reduces internode elongation through the inhibition of gibberellin biosynthesis, resulting in a more desirable compact plant. Topflor has been shown to increase the quality of plants even in the absence of growth reduction. Some of these desirable qualities include darker leaf color, higher chlorophyll content, greater leaf thickness, stronger stems, and decreased water loss. When used as directed, Topflor produces no phytotoxic effects. Do not reuse pots, trays, or other containers that previously were used in the production of a crop that was treated with Topflor.

FACTORS AFFECTING PLANT RESPONSE TO TOPFLOR

There are many factors that can affect a plant's response to the application of Topflor. They include cultivar, application technique, environmental conditions, cultural practices and container size. Therefore, the amount of Topflor that is required for the desired plant height may vary.

- CULTIVARS OR VARIETIES within a given plant species may respond differently to Topflor. Varieties that are taller or more vigorous generally require more Topflor than naturally short or less vigorous varieties. Growers may consult university research and extension specialists and plant or seed suppliers for vigor and other growth characteristics for newly released varieties.
- > ENVIRONMENTAL CONDITIONS can also strongly influence the response to Topflor and, therefore, the amount of product applied. Growers in warm climates may need to use higher rates and/or more applications compared to those in cooler climates. The Topflor rate as well as number of applications may also vary depending on the time of year, with higher rates and/or more applications needed during warmer months.
- > CULTURAL PRACTICES may affect the plant's response to Topflor. Plants that are grown at close spacing or in small pots and using high water and fertility levels may require higher rates of Topflor to



achieve the desired response. The effectiveness of a Topflor drench application may be reduced in root media that utilizes a high amount of pine bark.

MIXING INSTRUCTIONS

Shake well before using.

The sprayer must be clean and not contaminated with other chemicals. Use the Dilution Table (Table 1) to determine the amount of Topflor and water needed for the required concentration. Fill the spray tank with half the required amount of water. Measure the desired Topflor volume accurately and add it to the tank. Fill tank with the remaining amount of required water. Agitate the Topflor and water mixture frequently to assure uniform distribution during application.

TABLE 1: TOPFLOR DILUTION TABLE

PPM	ML PER	FL. OZ. PER	FL. OZ. PER	FL. OZ. PER
TOPFLOR	GALLON	GALLON	10 GALLON	100 GALLON
DESIRED	SOLUTION	SOLUTION	SOLUTION	SOLUTION
CONCENTRATION				
0.5	0.493	0.017	0.17	1.67
1	0.987	0.033	0.33	3.34
2	1.974	0.067	0.67	6.67
3	2.961	0.100	1.00	10.01
4	3.947	0.133	1.33	13.35
5	4.934	0.167	1.67	16.69
10	9.87	0.33	3.34	33.37
15	14.80	0.50	5.01	50.06
20	19.74	0.67	6.67	66.75
25	24.67	0.83	8.34	83.43
30	29.61	1.00	10.01	100.12
35	34.54	1.17	11.68	116.81
40	39.47	1.33	13.35	133.49
50	49.34	1.67	16.69	166.87
60	59.21	2.00	20.02	200.24
80	78.95	2.67	26.70	266.98
100	98.68	3.34	33.37	333.73
200	197.37	6.67	66.75	667.46

APPLICATION TECHNIQUES

Plants absorb Topflor through foliage, stems, and roots. **Topflor may be applied as a spray, drench or chemigation to achieve the desired plant height control.** Use industry standard application equipment, which may include backpack sprayers, low-pressure hand wand drench applicators, or other similar equipment. Additionally, standard chemigation equipment and practices may also be used. Multiple or split applications may allow greater treatment flexibility, more uniform growth regulation, and safety from over-application and may be, therefore, desirable.

SPRAY APPLICATIONS

Topflor applied as a foliar spray is absorbed through plant foliage and stems. Additional growth regulation will result from root uptake of Topflor reaching the root medium as runoff from foliar treatments or overspray.

Dilute Topflor to the desired concentration using Table 1.

When applying as a spray, the following should be noted:

- Do not use additional wetting agents in combination with Topflor as crop injury may occur.
- The spray technique used should provide consistent and uniform coverage over all treated plants. Uneven application or over-application may result in irregular or excessive growth control.
- Adequate spray volume should be used to thoroughly wet the plant foliage. The spray volume that drips down to the stem or media may be desirable as it will be taken up by the stems and roots



- increasing the effectiveness of Topflor. However, too much runoff into the media may result in excessive height control.
- Apply uniformly at a rate of 1 gallon of spray per 200 sq. ft. of growing area, regardless of plant spacing. For small plants in small containers or plug trays that are closely spaced, use 0.5-1 gallon of spray per 200 sq. ft. of growing area. For larger plants with a well-developed canopy, a spray volume of 1.5 gallons per 200 sq. ft. of growing area is recommended.
- Typical foliar application rate is 0.5 ppm to 80 ppm (varies by cultivar), applied in 1 gallon of spray mix over 200 square feet.
- Do not allow spray drift to contact non-target plants.

DRENCH APPLICATIONS

Topflor applied as a drench provides treatment accuracy for consistently uniform results. Topflor is readily absorbed by the roots and translocated to the terminals. Root medium 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 drench solution is lost to flow-through or if root medium is too dry to allow for even distribution of the treatment, especially when multiple cuttings are in the same container. Generally, a volume of 2 fl. oz. (59 ml) is required to treat a 4-inch pot or 4 fl. oz. (118 ml) for treatment of a 6-inch pot (Table 2). Typical application rate is 1 gallon of drench solution (typically 0.25 ppm to 10 ppm) (varies by cultivar), per 32 six inch potted plants. Dilute Topflor to the required concentration using the method described in Table 1. When applying as a drench, the use of pine bark in root media may reduce the effectiveness of drench treatments.

TABLE 2. DRENCH VOLUME APPLICATION GUIDELINES.

Pot Diameter	Drench	Volume	mg a.i. Topflor/pot from solutions mixed at the following ppm					
(Inches)	fl oz/pot	ml/pot	0.5 ppm	1 ppm	2 ppm	3 ppm	4 ppm	
4	2	59	0.029	0.059	0.118	0.177	0.236	
5	3	89	0.044	0.089	0.177	0.266	0.356	
6	4	118	0.059	0.118	0.236	0.355	0.473	
8	10	296	0.148	0.295	0.590	0.888	1.183	
10	25	740	0.370	0.740	1.480	2.220	2.960	
12	40	1184	0.592	1.178	2.360	3.543	4.727	

^{*}Refer to Table 1 for mixing instructions

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 root medium 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 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.

DRIP (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.

APPLICATION RATES

The amount of Topflor required for an optimum growth response depends upon several factors: desired height, duration of growth response and degree of control, pot size, stage of growth, method of application, season and cultivar response. Species-specific cultural practices such as watering, potting media, fertilization, temperature and light conditions 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 cultivar sensitivity before Topflor 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 spray, drench and chemigation applications, do not exceed the maximum recommended rate of 0.36 lbs ai/A for single applications. Do not exceed more than 3.0 lbs ai/A/year. Rate (lbs ai/A) will determine the maximum number of seasonal applications allowed not to exceed 3.0 lbs ai/A/year. If required, repeat applications to the same crop may be applied at 5 to 21 day intervals.

NOTICE TO USER: Plant tolerance to Topflor has been found to be acceptable in research trials for the general plant species listed on this label. However, due to the large number of species of ornamental and nursery plants and their associated varieties and cultivars and due to variable growing conditions, it is impossible to test every plant and variety or cultivar for tolerance to Topflor. The Manufacturer has not determined whether Topflor can be used safely on all ornamental plants. Whereas Topflor has been shown to be safe and effective in a limited number of research trials on certain varieties or cultivars of the plant types listed, the professional user should determine if Topflor can be used safely prior to commercial use. Prior to wide-scale use, users should conduct small-scale tests under local growing conditions using the general guideline rates listed below. For species and their varieties or cultivars not specifically listed on the label, the user assumes all risk from phytotoxicity or unacceptable growth effects.

Topflor is effective in controlling the height of most ornamental crops. The use and rate recommendations for the species that follow should be a starting point in determining the best rate for your specific cultural and environmental growing conditions. Before Topflor is applied to a large number of plants, read and understand the section titled **Application Rates**.

Bedding Plants

Topflor is effective on a wide range of bedding plants for height control. See Table 3 for application rate guidelines for a variety of common bedding plants. For specific plants not identified on Table 3, use 0.5-80 PPM spray as the recommended general guideline rates for plugs to finished bedding plants.

TABLE 3: SPRAY RATE RANGE TRIAL GUIDELINES FOR SOME BEDDING PLANTS*

Plant	Rate Range (PPM)	Plant	Rate Range (PPM)	
Ageratum	20-60	Nemesia ¹	10-15	
Celosia, flame	10-40	Osteospermum	20-60	
Coleus, seed	20-40	Pansy	2.5-7.5	
Geranium, zonal	15-25	Petunia	20-60	
Impatiens	20-60	Salvia	20-80	
Marigold	20-60	Vinca ²	2.5-10	

*These rate ranges were determined largely under mid-Atlantic conditions using medium-vigor cultivars. Rates should be adjusted to reflect the need for higher rates for vigorous cultivars and in the Sunbelt Region and lower rates in the Northern Belt Region. Topflor is not recommended for use on fibrous begonia. Overly stunted plants can result if they receive spray drift from applications to surrounding crops.

¹Nemesia: A rate of 10-15 PPM is recommended for a single spray application. Alternatively, apply twice at 5 PPM with the second application made two weeks after the first.

²Annual vinca (periwinkle): Growers should note that black spotting may result from higher rates of spray application, especially at high temperatures.

<u>Drench</u>: Apply to uniformly moist root media. Apply at a solution concentration at general guideline rates of 0.25-4 PPM at the recommended volume per pot (See Table 2). Rates for a specific plant species/cultivar and set of use conditions should be determined in small-scale treatments prior to large-scale applications. The user should determine his/her own optimum rates noting that the above-listed rate range encompasses production in the warmer and cooler climates.

Bedding Plant Plugs

Spray applications of Topflor may be used to control the height of certain aggressive species of bedding plant plugs. Over-regulation and poor performance after transplanting the plug can occur if rates are too high or if used on overly-responsive crops. Due to the responsiveness of bedding plant plugs to Topflor, it should only be used on Geranium, Impatiens, Marigolds, and Petunia. Do not use Topflor on sensitive bedding plant plugs including Begonia, Pansy, Salvia, and Vinca.



Differences in environmental factors and cultural practices during plug production can have a dramatic impact on plant growth regulator rates and results. Growers should conduct trials on a small scale under their growing conditions to determine the optimum rate that will provide proper efficacy while ensuring desirable growth and crop performance in the finishing stage. A trial spray application of 1-8 PPM is the suggested general guideline rate, which should be adjusted based upon trial results and user observations. Application timing is suggested after the development of the first 1-2 true leaves. Application volume generally should be 0.5-1 gallon per 200 sq. ft. of treatment area. Do not apply as a drench to bedding plant plugs.

Bulb or Fibrous Root Crops

Topfior is very effective on most bulb crops. Topfior is more effective when applied as a drench rather than a spray on most bulb crops (See Table 4). For bulb species not listed in Table 4, 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. In general, apply a soil drench to uniformly moist rooting media approximately 2 weeks after planting when new growth reaches 1 inch.

TABLE 4: RATE RANGE TRIAL GUIDELINES FOR SOME BULB CROPS

	Spray Rate Range	Drench Rate Range	
Plant	(PPM)	mg a.i./pot	
Calla Lily	ND	1-2.5	
Canna Lily	50-80	ND	
Dahlia	NR	0.5-2	
Oriental Hybrid Lily "Stargazer"	ND	0.25-0.5	
Tulip ¹	80-100	0.5-1	
Hyacinth	ND	0.5-1	
Caladium	NR	0.5-2	

These rate ranges were determined largely under mid-Atlantic conditions using medium-vigor to vigorous cultivars. Rates should be adjusted to reflect the need for higher rates in the Sunbelt Region and lower rates in the Northern Belt Region or for less vigorous cultivars.

¹Tulip spray for control of post-harvest stretch.

ND = Rates for this application technique have not been determined.

NR = Not a recommended use.

Flowering /Foliage Potted Plants

Topflor is effective when applied as a spray or drench on a wide variety of flowering and foliage plants.

TABLE 5: RATE RANGE TRIAL GUIDELINES FOR SOME FLOWERING/FOLIAGE PLANTS

	Spray Rate Range	Drench Rate Range	
Plant	(PPM)		
Campanula	10-30	ND	
Cape Primrose (Streptocarpus hybridus)	5-20	ND	
Chrysanthemums ¹	7.5-25	ND	
Exacum	25-50	0.01-0.03	
Geraniums	10-25	ND	
New Guinea Impatiens	5-10	ND	
Poinsettia	2.5-80 (see Table 6)	0.03-0.5	
Sunflower	30-50	1-2	

*These rate ranges were determined largely under mid-Atlantic conditions using medium-vigor cultivars. Rates should be adjusted to reflect the need for higher rates for vigorous cultivars and in the Sunbelt Region and lower rates in the Northern Belt Region.

¹Chrysanthemum spray: A rate of 7.5-15 PPM is recommended for sensitive varieties and 15-25 ppm for others. Spray when the axillary shoots following the pinch are 1.5 inches long or before rapid elongation occurs. If a second application is required, it should be made two weeks after the first.

ND = Rates for this application technique have not been determined.

TABLE 6: POINSETTIA GROWTH VIGOR GROUPS AND SPRAY RATE RANGE TRIAL GUIDELINES

Vigor Groups	Example Cultivars	Weeks of growth after pinch (6.5-inch pot) NORTH	Weeks of growth after pinch (6.5-inch pot) SOUTH	Topflor Spray Rate (PPM)
Very Low	'Hollypoint', 'Carousel'	7-8	4-5	NR
Low	'Maren', 'Sonora Red'	5-6	3-5	2.5-20
Moderate	'Freedom Red', 'Orion'	3-4	2-3	15-40
Substantial	'Red Violet', Spotlight Dark Red'	2-3	2-3	30-60
Extreme	'Monet Twilight', 'Snowcap'	2-3	1-2	60-80

These are guidelines to provide relative growth differences among cultivars. They should not be viewed as specific recommendations.

NR = Not a recommended use.

Poinsettia Application Timing

Early Applications: Treat plants at pinch up to 6 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 Topflor 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. Like most PGRs, seasonably late applications of Topflor will reduce plant height, with minimal to no effect on bract size.

Perennial Plants, Herbaceous

Topflor is effective in controlling height of a wide variety of herbaceous perennial plants. Rate ranges for different species and cultivars vary greatly. Trials should be conducted using a general guidelines rate of 20-80 PPM for spray applications. Examples of perennials for which the product has provided optimum height control include:

Verbena Acalypha Pachystachys Veronica Arbutilon Phlox Sage, Russian (Perovskia

Butterfly bush (Buddleia sp.)

Coreopsis atriplicifolia)

Fuchsia Sage, Mexican bush (Salvia

Lantana leucantha) Lobelia Scabiosa

Woody Landscape Plants (Container-grown in greenhouses and shadehouses)

Topflor 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 a general guidelines rate of 100-200 PPM for spray applications. Typical application rate is 1 gallon of spray mixture (up to 200 ppm) per 200 square feet of potted plants. Examples of woody nursery plants for which the product has provided optimum height control include:

Abelia Azalea Bouganvillea Cotoneaster dammeri 'Coral Beauty' Crape myrtle 'Natchez' Dipladenia Euonymus kiautschovicus 'Manhattan' Gardenia jasminoides 'Mystery'

Glory bush (Tibouchina sp.)

Holly: Ilex X attentuata 'Fosteri' (Foster holly) Ilex X meserveae 'China Girl' Honeysuckle 'Goldflame' (Lonicera X heekrotti) Hydrangea Photinia X fraseri (Fraser photinia) Rhododendron catawbiense 'Nova Zembla' Rose



Storage and Disposal

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

Pesticide Storage: Avoid 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 must be disposed of on site or at an approved waste disposal facility.

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

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. 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 or application, or other factors, all of which are beyond the control of SePRO Corporation as the seller. All such risks shall be assumed by buyer.

Limitation of Remedies

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.

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. In no case shall SePRO Corporation be liable for consequential or incedential damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies can not 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.

Topflor is a trademark of SePRO Corporation

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(Base Label):



Topflor* Ornamental Plant Growth Regulator

A growth regulator for use on ornamental plants grown in containers in commercial nurseries, greenhouses and shadehouses.

Active Ingredient:

Contains 14.4 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.)

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

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.

Refer to inside of label booklet for additional precautionary information, Directions for Use and Storage and Disposal Information.

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

Shake well before using.

EPA registration. No. 67690-20 FPL 040506

EPA Est. No. XXXXXX-XX-XXX SPC - XXXXXX

*Trademark of SePRO Corporation SePRO Corporation • Carmel, IN 46032, U.S.A.

Ornamental Plant Growth Regulator

Net Contents 67.6 fluid ounces (2 liters)





SePRO Corporation • 11550 North Meridian Street • Suite 600 • Carmel, Indiana 46032-4565 *Phone:* (317) 580-8282 • *Fax:* (317) 580-8280

April 5, 2006

Mr. Tony Kish Product Manager 22 Document Processing Desk (NOTIF) Office of Pesticide Programs (7504C) US Environmental Protection Agency Room 266A, Crystal Mall 2, 1921 Jefferson Davis Highway Arlington, VA 22202-4501

OKAY

RE: Submission of label notification

Topflor Ornamental Plant Growth Regulator

EPA Reg. No. 67690-20

Dear Mr. Kish:

On behalf of SePRO Corporation (11550 North Meridian Street, Suite 600, Carmel, Indiana 46032-4565, EPA Company #67690), I am submitting information to amend the product label for Topflor Ornamental Plant Growth Regulator to (1) add the statement "Shake well before using." to the Directions for Use section of the label, (2) remove redundant label information, (3) move the Storage and Disposal statement to the bottom of the Directions for Use section (per the Label Review Manual), and (4) correct typographical and formatting errors. Please find enclosed the following information to support this notification:

- Application for Pesticide, EPA 8570-1 Form; and
- 5 (five) copies of the updated label with changes highlighted

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This notification is consistent with the provisions of the PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no 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 USC Sec. 1001 to willfully make any false statement to the 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 may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

If you have any questions regarding this submission, please contact me at (317) 580-8286.

Sincerely,

Regulatory Affairs Specialist

SePRO Corporation

Enclosures (6)

cc: Steve D. Cockreham, SePRO