

# Topflor® Granular

## Ornamental Plant Growth Regulator



TPDG3550

LICENSED

PERIOD 2014-2016 LIC. NO. 9985.51



LICENSED

PERIOD 2011-2013 LIC. NO.



A product for herbaceous and woody ornamental plants grown in containers.

In New York State, Topflor Granular can be used for greenhouse applications only.

### Active Ingredient

Flurprimidol:  $\alpha$ -(1-methylethyl)- $\alpha$ -[4-(trifluoromethoxy)-phenyl]-5-pyrimidinemethanol.....0.17%

Other Ingredients.....99.83%

TOTAL.....100.00%

Contains 0.0017 pound active ingredient per one (1) U.S. pound of product.

## 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.)

**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* at the end of the label. If terms are unacceptable, return at once unopened.

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• 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.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
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.	

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed. Causes moderate eye irritation.

#### 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.

#### Ground Water Advisory

This pesticide has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

#### Surface Water Advisory

This product is classified as having potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs, will reduce the potential loading of flurprimidol from runoff and sediment.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

It is recommended that applicators and other handlers wear:

- Protective eyewear
- Long-sleeved shirt and long pants;
- Shoes plus socks;
- Chemical-resistant gloves (such as natural rubber or barrier laminate); and

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### 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. Use only according to label directions.

#### Use Information for Growth Regulation of Container Ornamentals

In New York State, Topflor® Granular can be used for greenhouse applications only. Topflor Granular contains the active ingredient flurprimidol, which effectively reduces internode elongation through the inhibition of gibberellin biosynthesis, resulting in a more desirable compact ornamental plant. Topflor Granular 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 Granular produces no phytotoxic effects.

**NOTICE TO USER:** Plant tolerance to Topflor Granular 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 Granular. The Manufacturer has not determined whether Topflor Granular can be used safely on all ornamental plants. Whereas Topflor Granular 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 Granular 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 Granular 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 Granular is applied to a large number of plants, read and understand the section titled *Application Rates*.

#### Use Directions

Topflor Granular is a systemic growth regulator for herbaceous and woody ornamental plants grown in containers.

#### Use Precautions for Growth Regulation of Container Ornamentals

- Do not use Topflor Granular on plants from which fruits, nuts or other commodities may be produced for human consumption.
- Do not apply during prolonged periods of temperature (heat or cold) or moisture stress. Also avoid applications during periods of extreme disease and insect pressure.
- For single applications do not exceed 1.5 lbs ai/A or 882 lbs/A of Topflor Granular.
- Do not apply more than 3.0 lbs ai/A/year or 1,765 lbs/A/year of Topflor Granular.

#### Method of Application

Topflor Granular should be made as a topical application to container grown ornamental plants. Applications can also be applied to individual pots with hand held delivery devices calibrated to deliver a known amount of product.

#### Application Timing

Topflor Granular can be applied at any stage of the growth and development of container and field grown ornamental plants. For woody ornamentals and herbaceous perennials, best results are found when applications are made at the onset of spring greenup when the plants are shaped and pruned to the desired size. If multiple applications are required, the plant should be shaped and pruned again prior to sequential applications. For bedding plants, applications should be made when the plants are well established after transplant.

On all plants, Topflor Granular applications should be moderately watered in to move the active ingredient into the root zone where it can be absorbed and translocated by the plant. Avoid leaching and runoff following application of Topflor Granular.

#### Topical Applications

Apply Topflor Granular as a topical application to individual pots for height control of container ornamentals. Follow listed rates in *Table 1* to target rates of product per pot.

TABLE 1 Topflor Granular Rates for Topical Application to Container Ornamentals			
Ornamentals	Container Size (inches in diameter)	Grams/Pot	Maximum gram/pot/year <sup>1</sup>
<b>Perennial Non-woody Ground Covers and Herbaceous Landscape Ornamentals</b> <i>Examples include: Acalypha; Arbuton; Buddleia; Coreopsis; Fuchsia; Lantana; Lobelia; Jasmine; Pachystachys; Phlox; Plumbago; Scabiosa; Sage, Mexican; Sage, Russian; Verbena; Veronica</i>	4	0.1 - 0.3	2.0
	6	0.2 - 0.6	4.6
	8	0.3 - 1.4	8.2
	10	0.9 - 3.5	12.8
	12	1.4 - 5.6	18.4
<b>Perennial Woody Ground Covers and Woody Ornamental Shrubs and Hedges</b> <i>Examples include: Abelia; Azalea; Bougainvillea; Cotoneaster; Dipladenia; Euonymus; Holly; Honeysuckle; Hydrangea; Ligustrum; Ninebark; Photinia; Rhododendron; Rose; Weigela</i>	4	0.3 - 0.6	2.0
	6	0.6 - 1.1	4.6
	8	1.4 - 2.8	8.2
	10	3.5 - 6.4	12.8
	12	5.6 - 9.2	18.4

**Notice to Users:** The amount of Topflor Granular required for optimum growth regulation response is dependent upon the height and mass of woody stems, foliage volume, sunlight exposure, soil texture, rainfall and temperature conditions, and species tolerance. The user should evaluate Topflor Granular on a small area prior to large scale applications to target plants.

<sup>1</sup>Maximum allowable number of annual applications will be based upon the sum of applications made to not exceed the maximum grams per pot per year.

#### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in original container only. In case of spill, contain material and dispose as waste.

**Pesticide Disposal:** Wastes resulting from use of this product must be disposed of on site or at any approved waste disposal facility.

**Nonrefillable Container Handling (non-rigid, any size):** Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling if available. If recycling not available, then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container Handling (rigid, any size):** Do not reuse or refill this container. Triple rinse (or equivalent). Then offer for recycling (if available) or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

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

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 this *Limitation of Remedies* in any manner.

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Ornamental Plant Growth Regulator Net contents 20 pounds