

# PAC O™

## Ornamental Plant Growth Regulator



An American Vanguard Company

FOR USE ON COMMERCIALLY GROWN ORNAMENTAL PLANTS GROWN IN  
CONTAINERS IN NURSERIES, GREENHOUSES, ETC.

### Product Information Bulletin

631

## GENERAL INFORMATION

**PAC O** is a plant growth regulator for use on commercially grown ornamental plants grown in containers in nurseries, greenhouses, etc.

**PAC O** is a 0.4% formulation of the active ingredient paclobutrazol per gallon.

**Common Name:** Paclobutrazol

**Class:** Triazole

GROUP	1	PLANT GROWTH REGULATOR
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**Packaging:** 1 gallon, 4 per case

## RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = **12 hours**

Signal Word = **CAUTION**

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

## MODE OF ACTION

**PAC O** reduces plant internodal length resulting in a shorter and more compact plant.

**PAC O** works by inhibiting gibberellic acid synthesis.

## USE SITES

**PAC O** may be used on commercially grown ornamental plants grown in containers in nurseries, greenhouses, etc.

## APPLICATION AND RATES

**PAC O** label rates are dependent on the crop treated and the level of plant regulation desired:

Rates range from 1 to 30 ppm Drench and 5 to 100 ppm Spray. 1 ppm = 1 milliliter/gallon; 5 ppm = 4.7 milliliter/gallon;

30 ppm = 1 fluid ounce per gallon. Refer to the product label for specific rates. For optimum effects, spray should be directed to plant stems. Application volume is 2 qt./100 sq. ft. or 218 gal. per acre. **CAUTION:** application run-off onto the soil will increase **PAC O** activity. Drench rates compared to spray rates are about a 1:10 factor, that is, 1 ppm drench should be similar to 10 ppm sprayed.

**PAC O** can be applied as a liner dip, drench or spray, and maybe used through subirrigation, or as a bulb soak.

The addition of wetting agents is not necessary.

**PAC O** is not affected by overhead irrigation provided the user waits 30 minutes after **PAC O** application.

## TANK MIXING

**PAC O** or other plant growth regulators are not recommended to be tank mixed with pesticides due to application volume differences. Tank mixes with other PGRs are allowed and may be an effective way to increase overall plant growth control. Growers should trial a small number of plants before committing to any tank mix program(s). Evaluate growth responses for 4-8 weeks after applications.

## RECOMMENDED TRIAL RATES (PPM) BY GENERAL PLANT TYPE

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

*Rates are general use recommendations. Plant varieties, growth stage, growing conditions and environmental factors will influence grower specific rates.*

*N/A = Use is not applicable*

## SPECIFIC PAC O CROP RECOMMENDATION EXAMPLES

Refer to the container label or the OHP PGR Solutions Guide for an expanded list of plant rate recommendations.

		PAC O Plug Soak	PAC O Spray	PAC O Drench	Comment
Bedding Plants	Petunias	4 to 8 PPM Soak 30 seconds	30 to 50 PPM	2 to 5 PPM	Apply after 1 week transplant
	Impatiens	1/2 to 1 PPM Soak 30 seconds	15 PPM	1/2 PPM*	* Stage 3 germination.
	Dianthus	1 to 2 PPM	20 PPM	1/4 to 1/2 PPM	Apply a second spray at 1/2 rate if needed.
	Calibrachoa	4 PPM	15 to 20 PPM	2 PPM	Plug soak is very effective.
	Kale	3 to 4 PPM		1 to 2 PPM*	* Apply at 3 leaf stage.
Flowering Plants	Chrysanthemums		30 to 50 PPM**	1 to 2 PPM	** Apply to 1/2 to 1 inch long shoots.
	Poinsettia		15 to 30 PPM	1/2 to 1 PPM** 1/10 PPM***	** November late drench *** Low dose early drench apply as needed.
Perennials	Echinacea	2 to 4 PPM Soak 30 seconds	30 to 40 PPM*	4 to 6 PPM	* Use half rate for second application if needed.
	Argyranthemum	4 PPM	30 PPM	3 to 4 PPM	Plug soak is very effective.
	Salvia leucantha		30 to 60 PPM**		** Apply second spray as needed.
Woody Plants	Azalea		100 to 150 PPM	10 to 15 PPM	Increased bloom response.
	Gardenia		100 to 150 PPM	15 PPM	Good color response.
Bulbs	Lilium oriental Casa Blanca	80 PPM Bulb soak for one minute	10 to 20 PPM		For height control.
	Lilium and other orientals	200 to 300 PPM			Variable rooting makes drench results variable.
	Lilium Asiatic		15 PPM*	20 PPM	* Apply multiple sprays 2 weeks apart as needed.
	Calla Lily	20 PPM bulb soak*		10 PPM	* Soak 15 minutes.

Growers in the North should use the lower rates and growers in the Southern states and Florida should use the higher rates. Rates are dependent upon grower location and conditions. For more specific rate recommendations visit the OHP PGR Solutions Guide at [www.ohp.com](http://www.ohp.com).



An American Vanguard Company

5151 McCrimmon Pkwy.  
Suite 275  
Morrisville NC 27560  
Technical Service: 800-356-4647  
[ohp.com](http://ohp.com)

Use of Pac O per the labeling is subject to the use precautions and limitations imposed by the label affixed to the container of Pac O. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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