

PLANT GROWTH REGULATOR

PIROUETTE[®]

A GROWTH REGULATOR FOR USE IN ORNAMENTAL PLANT PRODUCTION
(CONTAINER GROWN, PROTECTED).

A suspension concentrate containing 4 g/L paclobutrazol

A growth regulator for use in protected container and pot grown
ornamentals

Product registration number: **MAPP 17203**

A high purity paclobutrazol formulation for profitable growth management of a wide range of greenhouse grown ornamentals.

Helps growers create more marketable bedding and pot or container plants which are more compact with deeper green foliage.

Label recommendations for use on:

Azalea, Kalanchoe, Lobelia, Pelargonium, Petunia, Poinsettia, Mini Rose, Salvia, Viola.



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**USE PLANT PROTECTION PRODUCTS SAFELY.
ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE**

PIROUETTE

- Produces more uniform, compact and sturdier plants.
- Enhances flowering and colour of both flowers and foliage.

The following text is taken from the approved product label:

PIROUETTE contains the systemic plant growth regulator paclobutrazol. Paclobutrazol is a gibberellins biosynthesis inhibitor that is taken-up by plant shoots, roots and leaves. PIRouETTE can be used as a foliar spray to control plant growth on a wide range of ornamental crops by limiting internode growth and getting more compact plants. This is often associated with a darker foliage colour. Many crops have also shown improved and earlier flowering. The correct timing of the application is critical for the success of the treatment.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

Mixing

After determining the rate of PIRouETTE needed for the crop, add the correct amount of product for the required tank volume and strength of spray into approximately half of the water volume, agitate and complete the water volume. The spray solution should be sprayed immediately. Constant agitation of the spray solution is recommended

Do not leave spray liquid in the sprayer for long periods (i.e. during meals or overnight).

General recommendations

Use only on pot and container grown plants.

The degree of root development at the time of treatment can affect the plant response to PIRouETTE. Poorly rooted plants can be excessively stunted.

Foliar spray

Apply PIRouETTE on dry well growing plants, with good stem coverage. Ensure homogeneous coverage of the crop but do not

spray to run-off. Adapt the spray volume to the crop development stage and the vegetation volume. On vigorous varieties, apply at an early stage of plant growth.

Spray preferably in the morning or in the evening, when relative humidity is higher, so as to ensure optimum absorption of PIRouETTE and enhance the efficacy. Do not apply on plants under water stress.

Specific recommendations

The response to treatments with PIRouETTE can vary depending on the variety, stage of growth and local environmental conditions. Therefore, growers are advised to use PIRouETTE in small scale tests at the lower recommended rate in the first instance, before extensive use with some rate adaptation when necessary.

Spray application

Azaleas

Rate: 25 mL/L, to be adapted depending on cultivar. In the case of a split application, spray 2 times at 12.5 mL/L in a 8-14 day interval.

Apply PIRouETTE after the final pruning when new growth is 3-7 cm long.

Mini Rose

Rate : 10 - 20 mL/L

Spray should be applied when shoots are 5-15 cm long. Repeated applications after 2-3 weeks may be necessary.

Maximum number of applications: 3.

Pelargonium

Rate: 2-4 mL/L.

Geraniums are extremely sensitive to paclobutrazol.

Apply 2-3 weeks after potting or when new growths are 4-5 cm long. Repeat if necessary.

Maximum number of applications: 2 per crop.

Poinsettia

Rate: 1.25 - 5 mL/L.

Apply when axillary shoots are 5 cm long and repeat when necessary. Treatments can be split but in this case lower rates as low as 1.25 mL/L should be applied with up to 2 applications per week and no more treatment from 5-6 weeks before expected flowering.

Kalanchoe

Rate: 1.25 - 4 mL/L

If necessary, treatment can be repeated on vigorous varieties and mini Kalanchoes every 8-15 days.

Maximum number of applications: 3 per crop.

Bedding plants

Treat about 2 weeks after transplant when new growth has started.

Rate: 1-10 mL/L (see table 1 below).

For bedding plants which are not listed (in table 1) above, it is highly recommended to make a small test on few plants to determine the rate to be used locally.

Maximum rate: 50 L/ha/crop.

Warning

For plant species not listed on this label or for new cultivars, it is recommended to run first a small scale test to determine the correct rate and positioning of the treatment to obtain the desired plant growth control in the local conditions.

Do not use PIROUETTE on Annual Vinca (risk of spotting of foliage) nor on fibrous begonias.

High rates of PIROUETTE may delay flowering, especially on Impatiens or Petunia.

Paclobutrazol remains in the soil for several months. Therefore do not spray to run-off in order to avoid product leakage from the leaves. Avoid spraying PIROUETTE to the soil or the concrete: this might limit plant growth of subsequent crops. Do not treat on a cultivated area without protecting it with a plastic cover. Do not use PIROUETTE in cut flowers where successive crops are grown in the same soil.

Do not use pot or soil treated with PIROUETTE for other crops.

Pots, boxes etc are to be thoroughly washed before re-use.

The repeated use of PIROUETTE on crops grown on capillary matting may lead to a build-up of paclobutrazol in the matting which may affect following crops. Until fur-

Crop	Recommendations
Lobelia	Rate: 0.625-1.25 mL/L; Maximum number of applications: 4
Petunia	Rate: 1.25 - 5 mL/L; Maximum number of applications: 5 May reduce 'Picote' effect on certain cultivars.
Salvia	Rate: 1.25 mL/L; Repeat if necessary; (Little or variable effect has been reported).
Viola	Rate: 2.5-5 mL/L; Maximum number of applications: 3

ther experience is gained, application should be made in a manner to minimize the amount of PIRouETTE directly reaching the matting.

After treatment, a minimum of 2 hours without rain or irrigation is necessary. Do not use the residual irrigation water to irrigate other crops.

Compatibility

Do not mix with any other product.

Rinsing

Rinse the tank 3 times with clear water and spray on the treated plot. A commercially available cleaning agent can be added.

SAFETY PRECAUTIONS

TO AVOID RISKS TO HUMAN HEALTH AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.

Operator Protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

- (a) Operators must wear suitable protective gloves when handling the concentrate or applying by hand-held equipment.
- (b) Workers must wear suitable protective gloves* when handling treated crops or contaminated surfaces. *Meeting at least glove safety standard EN374-2:2003, Level 2. Such gloves can be identified by a CE Mark with four digits below, and the EN374 pictogram for micro-biological hazards or the pictogram for 'waterproof' and 'low chemical resistance' gloves.

However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

Consumer Protection

DO NOT USE ON FOOD CROPS.

Environmental Protection

HARMFUL TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container.

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

Storage and Disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL PLANT GROWTH REGULATOR

Crops	Ornamental plant production (protected, container grown).
Maximum Individual Dose	40 litres product/ha (see 'Other specific restrictions (1) below).
Maximum total dose:	120 litres product/ ha/year.
Maximum No. of applications	-
Latest time of application:	-

Other Specific Restrictions:

1. The maximum concentration must not exceed 250ml of product per 10 litre water.
2. Treatment must only be made under 'permanent protection' situations which provide full enclosure (including continuous top and side barriers down to below ground level) and which are present and maintained over a number of years.
3. Reasonable precautions must be taken to prevent access of birds, wild mammals and honey bees to treated crops.
4. This product must not be used on ornamentals in compost where the compost will be re-used for cultivation of edible crops for human or animal consumption.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

Risk and Safety Information

Classification: Hazardous to the aquatic environment
Chronic - Category 2
Based on the formulated product's toxicity to Lemna
(EyC50 = 7.5 mg product/L (0.03 mg a.s./L))

GHS Pictogram:



Hazard Statement: H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement Prevention

P273: Avoid release to the environment.

Precautionary Statement Response

P391: Collect spillage.

Precautionary Statement Disposal

P501: Dispose of contents / container according to label specifications.

Supplemental Label Elements

EUH 208: Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

SHAKE BEFORE USE.

PROTECT FROM FROST.

STORE IN A COOL, DRY PLACE.

PRODUCT WARRANTY CONDITIONS AND LIMITATION OF LIABILITY

Fine Agrochemicals Limited ("FINE") warrants that this Product conforms to the specifications indicated on this label. FINE disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for a particular purpose.

It is impossible to eliminate all risks associated with this Product. Plant injury, lack of performance or other unintended consequences may result because of factors such as presence of other materials, the manner of application, use of the Product other than in strict accordance with this label's instructions or other factors, all of which are beyond the control of FINE or the seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

FINE's liability under this label shall be limited to the amount of the purchase price or, at the election of FINE, the free replacement of the Product. FINE disclaims any liability whatsoever for special, incidental or consequential damages resulting from the handling or use of this Product.

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Pack Size: 5 litre outer of 4
1 litre outer of 12.

Safety data sheet available on request.

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