

CAUTION

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

▲ PEEL HERE ▲



Pac-Down

Plant Growth Regulator

ACTIVE CONSTITUENT:
250 g/L PACLOBUTRAZOL

**For the suppression
of Winter Grass
(*Poa annua*) in turf
and for growth
control of container
grown ornamentals as
per Directions for Use.**

**IMPORTANT: READ THIS LEAFLET
BEFORE OPENING OR USING**



Distributed by: Amgrow Pty Ltd ABN 81 100 684 786

Unit B2A, 3-29 Birnie Avenue, Lidcombe NSW 2141 • TELEPHONE: 1800 631 008

CONTENTS
1 Litre

DIRECTIONS FOR USE

Restraints:

DO NOT apply when daytime temperatures are consistently above 32°C or when grasses are stressed from heat, cold or lack of moisture.

DO NOT apply when soils are saturated (waterlogged) as fixing onto the soil will not occur and the product may move away from treated areas especially if heavy rainfall or irrigation follows application.

DO NOT apply when turf has been thinned from disease or insect infestation or damaged from aeration or scarifying – wait until recovery has occurred.

DO NOT apply to over-seeded areas until after establishment and then only use the lower rates until recovery has occurred.

DO NOT scarify and top-dress greens whilst *Poa annua* is undergoing growth regulation.

DO NOT use on trees of low vigour or under stress (see General Instructions)

DO NOT water over the top of ornamental plants for 24 hours after application.

DO NOT re-use potting media from treated plants for subsequent crops.

DO NOT apply to plants under stress.

DO NOT apply by aircraft.

SITUATION - TURFGRASS	WEEDS CONTROLLED
Bentgrass (<i>Agrostis stolonifera</i>) Perennial Ryegrass (<i>Lolium perenne</i>) Kentucky Bluegrass (<i>Poa pratensis</i>) Green Couch* (<i>Cynodon dactylon</i>) * Excludes hybrid cultivars	<i>Poa annua</i> suppression and long term control
Bentgrass (<i>Agrostis stolonifera</i>) Perennial Ryegrass (<i>Lolium perenne</i>) Kentucky Bluegrass (<i>Poa pratensis</i>) Green Couch (<i>Cynodon dactylon</i>) <i>Poa annua</i> turfgrass	Growth regulation – decrease in vertical height, enhanced greening and quality

RATE	CRITICAL COMMENTS
<p>1.6-2.24 L/ha (16-22 mL/100 square metres)</p>	<p>Use the lower rate when the percentage of <i>Poa annua</i> in the turf is so high that the resultant yellowing and retardation would be too extensive to be acceptable. Otherwise use the higher rate. DO NOT apply more than 2 spring or 1 autumn applications. Continue normal cultural practices after application.</p>
<p>0.4 L-1.6 L/ha (4-16 mL/100 square metres)</p>	<p>Apply the 0.4 L/ha rate at 2-4 week intervals or the 800 mL-1.6 L/ha rate at 4-8 week intervals. Use only the low rate (0.4 L/ha) on <i>Poa annua</i>. Continue normal cultural practices after application.</p>

CONTAINER GROWN ORNAMENTALS	
Crop/Situation (Container grown plants)	Dilute Rates of Application (refer to dilution instructions below table)
	Pot drench solution
Chrysanthemums: To produce compact plants	—
Bouvardia: To produce compact plants	8 mL dilute stock solution made up to 1 L with water
Rhododendron: To produce compact plants and induce earlier flowering	—
Camellia japonica: To produce compact plants	—
<i>Eucalyptus</i> spp., <i>Grevillea</i> spp.: To produce compact plants	40 mL dilute stock solution made up to 1 L with water
Zonal geranium: To produce compact plants	—
Marigold: To produce compact plants	4 mL dilute stock solution made up to 1 L with water
Geraldton wax flower (<i>Chamelaucium uncinatum</i>): To produce compact plants	32 mL dilute stock solution made up to 1 L with water

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY
MANNER, CONTRARY TO THIS LABEL UNLESS
AUTHORISED UNDER APPROPRIATE LEGISLATION.**

Dilute Rates of Application (refer to dilution instructions below table)	Critical Comments
Foliar* spray	
48 mL dilute stock solution made up to 1 L with water	Apply after pinching when new shoots are 1-2 cm long. Apply further 1-3 applications at 14 day intervals under rapid growth conditions and for vigorous varieties.
96 mL dilute stock solution made up to 1 L with water	Foliar spray: Apply after pinching when new shoots are 1-2 cm long. Apply further 1-2 applications at 14 day intervals under rapid growth conditions. Pot drench: Apply 50 mL of drench solution per pot, after pinching when regrowth is 1-2 cm long.
200 mL dilute stock solution made up to 1 L with water	Apply single spray in January to control autumn growth flush.
200 mL dilute stock solution made up to 1 L with water	Apply single spray in spring to control summer growth flush.
—	Apply 50 mL of drench solution per pot when growth control is required.
16 mL dilute stock solution made up to 1 L with water	Apply to plants when 7-8 cm high (3-5 leaves expanded). Repeat application as required.
—	Apply 50 mL of drench solution per pot 2 weeks after transplanting.
—	Apply 50 mL of drench solution per pot 2 weeks after rooted cutting potted.

Prepare a dilute stock solution first by measuring 10 mL of Pac-Down and diluting to 1 litre in water. The dilute stock solution is then added to water at the rates shown in the above table. Prepare a fresh stock solution each day.

* **Note:** Multiple applications may cause delay in flowering in some species, for example chrysanthemums.

GENERAL INSTRUCTIONS

TURFGRASS

Pac-Down is a suspension concentrate formulation for spray application under dilution with water. Apply to dry or wet turf and water in immediately with 4-6 mm of sprinkler irrigation. The degree of *Poa annua* control will be influenced by application rate as well as the turf management practices, climate, soil type, grass variety, and *Poa annua* biotype. Growth of *Poa annua* will be reduced 1-2 weeks after application. Higher application rates will cause *Poa annua* to discolour (yellow to brown) and stop or slow its growth allowing desirable turf species to dominate. Application 1-2 weeks prior to *Poa annua* seed-head emergence will reduce seed-head visibility, but not formation. Repeat application 4-8 weeks apart (depending on rate) are required where *Poa annua* content is high (See Critical Comments for Restrictions).

Use in areas containing greater than 70% *Poa annua* will result in widespread discolouration of the fairway and green and may not appear acceptable to the user. Use of other cultural techniques are encouraged to lower the percentage of *Poa annua* below the 70% level. Over-seeding is recommended to hasten the conversion from *Poa annua* to more desirable grasses. To avoid stunting the growth of desirable seedlings, allow at least 14 days after treatment before over-seeding and in newly over-seeded areas. Make treatments at least 6 weeks after over-seeding. On new grass plantings delay application until after establishment. Delay planting grass seed until after heavy rain or watering and not sooner than 1 month after application.

CONTAINER GROWN ORNAMENTALS

Pac-Down is a systemic growth regulator that reduces internode lengths of new shoots and causes earlier formation of terminal buds and controls plant height in a range of ornamental plants. Use of Pac-Down should begin only when trees are nearing their optimum size. If a tree is under stress, Pac-Down should NOT be used.

Stress can be caused by: moisture shortage due to lack of rain, or inadequate irrigation; high temperature; salinity; moisture excess due to water table, flooding or inappropriate irrigation; severe or successive frosts; poor fertility caused by imbalance of major or minor nutrients; diseases; insects; inappropriate herbicide use; mechanical damage.

MIXING

Turfgrass: Add the required quantity of Pac-Down to water in the spray tank and mix thoroughly.

Ornamentals: A dilute stock solution of Pac-Down in water must be made first. Measure 10 mL of Pac-Down and dilute in water to make up to a total volume of 1 L. The dilute stock is then further diluted with water as per the rates indicated in the table above for container grown ornamentals.

As an example, for foliar use on rhododendrons, add 200 mL of dilute stock solution to 800 mL of water to make up to a total volume of 1 L spray solution. Half fill spray tank with clean water, add the required quantity of Pac-Down and agitate during the completion of filling. Frequent or constant agitation of the spray mixture is recommended. Wash out spray tank thoroughly after use.

APPLICATION METHOD

Turfgrass

Apply Pac-Down by boom sprayer fitted with flat fan nozzles and calibrated to apply sufficient spray mixture per hectare to cover the foliage well without causing run-off. Volumes between 400-800 L/ha are suitable. Even application is essential. Avoid double application at boom edges to maintain uniformity in turfgrass response. High pressures are not required and should not be used. Avoid drift onto non-target plants such as garden beds, shrubs and trees. Spray pressures of 150-200 kPa are sufficient.

Ornamentals

Foliar spray: Spray when foliage is dry. Use 2 litres of spray solution per 10 m² or sufficient to give thorough coverage of plants. Activity results from chemical uptake by young green stem tissue.

Pot/Soil drench: Avoid loss of chemical through excessive free drainage by restricting watering before and after application. Use 50 mL drench solution per pot to ensure uniform distribution.

COMPATIBILITY

Pac-Down should not be used in conjunction with sterol inhibitor (SI) fungicides or with dimethylation inhibitor (DMI) fungicides. A seven (7) day window should separate fungicide applications and the use of Pac-Down.

DO NOT use this product with other chemicals for use on ornamental plants.

SURFACTANTS

Pac-Down contains a surfactant and additional surfactant is not recommended.

RE-ENTRY PERIOD

DO NOT allow re-entry into treated areas until spray has dried.

PROTECTION OF LIVESTOCK, WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate dams, streams, rivers or waterways with the product or used containers.

STORAGE AND DISPOSAL

Store in the closed original container in a dry, cool, well-ventilated area away from children, animals, food and feedstuffs. Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.

SAFETY DIRECTIONS

Avoid contact with eyes and skin. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, available from www.amgrow.com.au

CONDITIONS OF SALE: Amgrow Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Amgrow's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Amgrow has any authority to add to or alter these conditions.

Additional information required under the Globally Harmonised System (GHS) classification of the substance/mixture: Text. Text

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GLUE AREA 11.5mm

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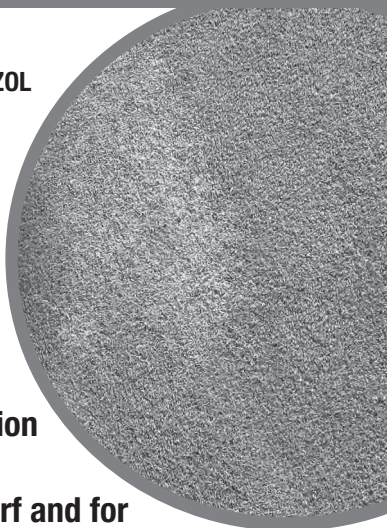


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Additional information required under the Globally Harmonised System (GHS) classification of the substance/mixture: **Suspected of damaging fertility or the unborn child. Causes eye irritation. Very toxic to aquatic life.** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash contacted areas thoroughly after handling. Avoid release to the environment. Wear protective clothing /eye protection. IF exposed or concerned: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. Collect spillage. Store locked up. Dispose of contents and containers as specified on the registered label.

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**IN A TRANSPORT
EMERGENCY DIAL 000**
• POLICE OR FIRE
BRIGADE •



Batch Number

Date of Manufacture

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