



Gem[®] granules

RESIDUAL GRANULAR HERBICIDE

CONTAINING 40g/kg (4% w/w) PROPYZAMIDE

Gem[®] Granules is a residual herbicide, acting by uptake through the roots, for pre-emergence use for the control of annual broad-leaved and grass weeds in forestry, amenity vegetation and ornamental plant production.

SAFETY INFORMATION

HAZARD STATEMENT

- Suspected of causing cancer.
- Toxic to aquatic life with long lasting effects.
- To avoid risks to human health and the environment, comply with the instructions for use.

PRECAUTIONARY STATEMENT

- Obtain special instructions before use.
- Avoid release to the environment.
- Wear protective gloves, protective clothing, eye protection and face protection.
- Collect spillage.
- If exposed or concerned get medical advice/attention.
- Dispose of contents/container to a licensed hazardous waste disposal contractor or to a collection site, except for empty clean containers which can be disposed of as non-hazardous waste.

WARNING

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). SEE BACK PEEL REVEAL LABEL FOR 'DIRECTIONS FOR USE'.

FOR PROFESSIONAL USE ONLY



GEM GRANULES

This booklet is part of the approved product label.

SAFETY PRECAUTIONS

Operator Protection

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

- WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the product or applying the product.
- However engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard protection.
- IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).

Environmental Protection

- 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.
- EMPTY CONTAINER COMPLETELY and dispose of safely.
- KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
- KEEP OUT OF REACH OF CHILDREN.

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

FOR PROFESSIONAL USE ONLY AS A FORESTRY AND HORTICULTURAL/AMENITY HERBICIDE

Crops/situations	Maximum individual dose: (kg product/ha)	Maximum total dose	Maximum number of treatments (per year)	Latest time of application
Farm forestry, forest	37.5	-	1	-
Amenity vegetation, ornamental plant production (around)	37.5	-	1	-

Other specific restrictions

- Use in ornamental plant production is restricted to application to around Christmas trees (listed species only).
- Application must only be made between 1st October and 31st January.

READ THIS 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.

To access the Safety Data Sheet for this product, scan the QR code.



PROFESSIONAL HERBICIDE

MAPP 19182
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Authorisation Holder:
Certiplant B.V.,
Lichtenberglaan 2045,
3800 Sint-Truiden, BELGIUM,
Tel: +32 11 88 03 92 • Fax: +32 11 70 74 84

Marketing Company:
Agrigem Limited, Gem House, Unit 6, Riverside
Enterprise Park, Skellingthorpe Road, Saxilby, LN1 2FU
Tel 01522 246491 • www.agrigem.co.uk
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DIRECTIONS FOR USE

IMPORTANT

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

INTRODUCTION

This product is a residual herbicide, acting by uptake through the roots, for the control of annual grass and broad-leaved weeds in amenity vegetation, forestry and ornamental plant production.

The product is taken up by the emerging shoot (especially grasses) or by root absorption soon after germinating. The product remains effective in the upper soil layer for several weeks.

CROP INFORMATION

Recommended trees and shrubs: the product can be used around all trees and shrubs. Before treating new species or varieties on a large scale test treat a small batch initially to verify for one's self the tolerance of the species/variety to the treatment.

FARM FORESTRY / FOREST

The product is recommended for use on trees (excluding ornamentals) at any stage, either pre-planting or post-planting, provided that they have become established for at least 4 weeks by the earliest time of treatment

i.e. 1st October.

If required, land to be planted with well-grown trees (not nursery transplants) may be treated before planting the trees in their final positions. The product may be used amongst the following species: Alder, Beech, Birch, Bishop Pine, Blue Spruce, Corsican Pine, Douglas Fir, Fraser Fir, Grand Fir, Horse Chestnut, Larch, Lawson Cypress, Lodgepole Pine, Monterey Pine, Noble Fir, Nordmann Fir, Norway Spruce, Oak, Poplar, Scots Pine, Sitka Spruce, Southern Beech, Sycamore, Wild Cherry.

AMENITY VEGETATION

The product is recommended for use on ornamental trees and shrubs which have been in their final position for at least one season and have become firmly established. When planted in the spring they may be treated in the following autumn (see Timing of application).

The product may be used amongst the following species: *Berberis darwinii*, *Buddleia davidii*, *Chamaecyparis spp* (False cypress), *Cotoneaster spp*, *Crataegus spp* (Hawthorns), *Fagus sylvatica* (Beech), *Forsythia x intermedia*, *Ilex aquifolium* (Holly), *Larix decidua* (Larch), *Philadelphus spp* (Mock orange), *Picea spp* (Spruces), *Pinus spp* (Pines), *Prunus gladiosa*, *Quercus spp* (Oak), *Rosa spp* (Roses including Rose rootstocks), *Spiraea x bumalda* 'Froebelii', *Syringa vulgaris* (Lilac), *Taxus baccata* (Yew), *Thuja orientalis*, 'Rosedalis'.

ORNAMENTAL PLANT PRODUCTION (Restricted to use around listed Christmas tree species only)

The product may be used amongst Christmas trees (*Picea abies*). Other species that are grown for Christmas tree production may be treated provided the species is included within one of the lists above under FARM FORESTRY / FOREST or AMENITY VEGETATION.

The subject plants must have been in their final position for at least one season and have become firmly established. When planted in the spring they may be treated in the following autumn (see Timing of application).

TIMING OF APPLICATION

For best control, cool, moist soil conditions are required after application. In southern counties of England and Wales, and on peaty gleys and peat soils with a depth of organic matter greater than 10 cm (4 in), best control is usually achieved with application from 1 October, but no later than the end of January. Local conditions (e.g. altitude, north facing slopes, previous weather) may affect these timings. Should warm, dry conditions prevail after application, weed control may be reduced.

APPLICATION EQUIPMENT

The following Applicators are suitable. Ensure even application (Horstine Farmery) Motorised Knapsack Sprayer / Stihl SG 17 with granule adaptor Huntley Applicator, Pepper pot applicator and other specialised rotary spreaders and other application equipment. Special care must be taken to ensure even distribution of the Granules.

SOIL TYPES

The product can be used on all soil types. However, in common with other residual herbicides, efficacy may be reduced on organic soils, in the presence of excessive organic debris or on ploughed-up turf.

WEATHER CONDITIONS

The product requires moisture for root uptake. Best residual action is obtained in moist, cold soils. The product can be applied in all weather conditions. Application on top of snow and to severely frozen ground is not recommended where run-off is likely to occur.

CROP RECOMMENDATION PAGES

WEEDS IN FOREST, FARM FORESTRY, AMENITY VEGETATION AND ORNAMENTAL PLANTS

Pre-emergence of the weeds:

Susceptible:

Annual Meadow Grass
Common Bent
Creeping Soft-grass
Fescues
Meadow Foxtail
Ryegrasses
Sweet Vernal Grass
Wavy Hair-grass
Black-bindweed
Cleavers
Curled Dock
Knotgrass
Small Nettle

Beats
Yorkshire Fog
Cock's Foot
False Oat Grass
Purple Moor-grass
Smooth Meadow-grass
Timothy
Wood Small-reed
Black Nightshade
Common Chickweed
Fat-hen
Redshank
Speedwells

Common Couch
Yellow Oat-grass
Crested Dog's-tail
Mat-grass
Rough Meadow-grass
Soft-brome
Tufted Hair-grass
Bittersweet
Broad-leaved Dock
Creeping Buttercup
Field horsetail
Sheep's sorrel

Moderately susceptible:

Common Fumitory
Shepherd's-purse
Sedges

Resistant:

Bracken
Briars
Heaths
Bramble
Foxglove
Rosemary
Willowherb

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protections Product Regulations 1995 or Regulation (EC) No. 1107/2009.

CONDITIONS OF SUPPLY

The manufacturer / seller / registration holder only guarantees that the supplied product complies with the quality standards in force. The manufacturer / seller / registration holder cannot be held liable neither for results nor for any damage due to the storage, transport or application of the product.

SUCCEEDING CROPS

Number of weeks between last application of the product and drilling or planting a following crop

Following crops	Waiting time when the product previously applied
Lettuce	0 weeks
Field beans, broad beans, peas, chicory, radish, clover, Lucerne	10 weeks
Brassicas, leeks, onions, parsley, parsnips, celery, oilseed rape, strawberries	25 weeks or plant/sow after 15th June, whichever occurs sooner
Cereals and grasses ¹	30 weeks
Any other crop ¹	40 weeks

¹ Treated land must be mouldboard ploughed to a depth of 15 cm prior to drilling a following crop of cereal, grass or any other crop not listed above.