



# RELY 10GR

## Shoot absorbed, Long Residual Pre Emergence Herbicide Product Overview

- RELY 10GR is a pre emergence herbicide containing 10 g/kg Oxadiazon
- RELY 10GR has a Group G Mode of Action
- It is registered for the pre emergence control of Summer Grass, Crowsfoot, Wintergrass and Creeping Oxalis in a range of warm season turfgrass areas including fairways, golf tees, municipal sportsfields and in industrial & commercial lawns
- RELY 10GR is also registered for the pre emergent control of Bittercress, Creeping Oxalis, Petty Spurge, Sorrel, Sowthistle, Trefoils, Willow Herbs and Wintergrass in container grown woody ornamental shrubs, trees and vines as well as certain field grown ornamental crops.

### Mode of Action

**GROUP** **G** **HERBICIDE**

Pre-emergence effects of Oxadiazon are obtained at germination by contact with oxadiazon-treated soil particles. The development of the susceptible weed's shoots is halted as soon as they emerge - their tissues decay very rapidly and the plant dies. When the soil is very dry, the pre-emergence activity is greatly reduced. Very early post-emergence activity is obtained by absorption through aerial parts of weeds which are rapidly killed in the presence of light. The treated tissues wither and dry out.

The primary mechanism of action of Oxadiazon is inhibition of the PPO enzyme which ultimately leads to disruption of cell membranes. Protoporphyrinogen oxidase (PPO) is an enzyme in the chloroplast cell that produce PPIX. PPIX is important because it is a precursor molecule for both chlorophyll (essential for photosynthesis) and heme (food source production in plants).

### Use Rates & Application Information

#### Turf Situations

The application rate for turf is 300 –400 kg/ha. RELY 10GR should be applied evenly to dry foliage and bare areas using a granular spreader able to give an even coverage. Application must be made before weeds have begun to germinate. Established weeds will not be controlled. After application water in with at least 10 mm of irrigation. Control of germinating weed seedlings can be expected for up to 10 weeks after application depending upon temperature, rainfall and soil type. If longer control is required, a repeat application should be made 7-10 weeks after initial application. Do not mow treated area until product has been irrigated in and turf foliage has dried. Avoid application when daytime temperatures are consistently above 32 degrees celsius. RELY 10GR is not recommended for use on putting greens, low cut tees or bowling greens. Do not apply on turf containing Santa Ana Hybrid Couch, Carpetgrass, Centipedegrass and Dichondra. RELY 10GR is registered for use on Kikuyu, Buffalo, Common Couch, Hybrid Couch (not Santa Ana), Saltwater Couch, Queensland Blue Couch, Bahiagrass and Zoysia turf species.

Target Weed in Turf	Rate of RELY 10GR	Application Notes
Summergrass	300 kg/ha (3 kg/100 m <sup>2</sup> )	Use a granular spreader which can be calibrated for uniform output. Use a double application technique (e.g. Half rate width to achieve a full application rate). Apply under calm conditions, thereby reducing drift. Ensure turf area is free of leaves and debris.
Crowsfoot Grass		
Wintergrass		
Creeping Oxalis	400 kg/ha (4 kg/100 m <sup>2</sup> )	



# RELY 10GR

## Ornamental Plant Situations

Situation	Weeds Controlled	Rate	Critical Comments		
Container grown woody ornamental shrubs, trees and vines	Bittercress, Creeping Oxalis, Petty Spurge, Sorrel, Sowthistle, Trefoils, Willow Herbs and Wintergrass.	400 kg per ha or 40 g/m <sup>2</sup>	Apply to soil surface of newly potted or freshly weeded containers. Repeat applications may be made at 10 week intervals #.		
Field grown ornamental crops* Transplants only: Aster, Carnation, Chrysanthemum and seed and Transplant Gypsophila			Rate for Individual Container sizes		
			Container size	Round Container	Square Container
			10.2 cm	0.32 g	0.42 g
			15.2 cm	0.8 g	1.0 g
			25.4 cm	2.0 g	2.6 g
			40.6 cm	5.2 g	6.6 g
			50.8 cm	8.2 g	10.4 g

\*Apply to freshly weeded flower beds. Repeat applications at 10 week intervals. Do not apply to Zinnia or annual Helichrysum seed or transplants.

# Apply using a properly calibrated granular applicator which will in a uniform pattern. Calibrate the applicator frequently prior to use according to manufacturer instructions. Following application ensure granules are washed or brushed off the foliage. Do not apply when the foliage is wet.

RELY 10GR has been used on a wide range of ornamental plant species without damage. Some of the species of the genera listed below have been shown to tolerate RELY 10GR at a dose rate of 40 g per square metre.

Abelia	Bauhinia	Cuphea	Hakea	Kunzea	Metrosideros	Ravenula
Acacia	Boronia	Cupressus	Hebe	Lagestromia	Monstera	Rosa
Acalypha	Browallia	Dampiera	Prenial Helichrysum	Lantana	Nerium	Rosmarinus
Agapanthus	Callistemon	Dodonaea	Hemiantra	Lavandula	Omolanthus	Russelia
Agonis	Callitris Camellia	Eriostemon	Hibbertia	Leea	Pandorea	Schefflera
Allamanda	Chamelaucium	Escallonia	Ixora	Leptospermum	Phoenix	Sollya
Ardisia	Coleonema	Eucalyptus	Jasminum	Leucodendron	Photinia	Viburnum
Arucaria	Coprosma	Eutaxia	Juniperus	Macrozamia	Prostanthera	Weigela
Azalea	Cotoneaster	Gardenia	Kennedia	Melaleuca	Protea	Westringia
Banksia		Grevillea				

## Features and Benefits

Features	Benefits
RELY 10GR is not taken up by the plant's roots	Provides stronger root development. Does not prune the roots of desirable plants
Compact, dust free granule - 2 mm in size	Granular formulation which is easy to apply and handle
Very strong pre emergent control of tough weeds	Reliable on key weeds in turf & ornamental situations
Minimal odour	Easier to use for applicators and the general public
Group G mode of action	Reduces reliance on Group D chemistry. Rotational option to limit resistance issues
Excellent safety characteristics in both ornamentals and turf.	Safe on a very broad range of ornamental plant genera and turf species.

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