

# Stonewall

## Herbicide

**Stonewall Herbicide is a pre-emergent herbicide containing 500g/L of the active ingredient Oryzalin. It is registered for the pre-emergent control of certain annual grasses and broadleaf weeds in nursery stock, ornamental and amenity plantings.**

### MODE OF ACTION

Oryzalin, the active ingredient in **Stonewall** is a member of the dinitroaniline (DNA) herbicide group (Group D). The primary mode of action of **Stonewall** is to inhibit microtubule formation in cells of susceptible weeds which are an important part of the cell division process. As a result of restricted cell division, growth of the emerging weed seedling is prevented, eventuating in death due to lack of food reserves.

Because Oryzalin does not translocate a great deal from the site of uptake within the plant, it is necessary for the emerging weed seedling's roots to absorb Oryzalin from the soil. Oryzalin binds to organic matter and clay materials and primarily stays within the top few centimetres of soil. Selectivity is caused by differences in germination depth of susceptible weed seedlings that absorb the Oryzalin in the top layer of soil, compared to the growing points in the Ornamental plants roots system that is at a greater depth and is unable to uptake the Oryzalin.

### APPLICATION

Apply **Stonewall Herbicide** in 200-450 L of water per hectare. Apply uniformly, especially within the dripline of trees and shrubs, so that application above label rate does not occur. Use a properly calibrated low pressure (170-340kPa) sprayer. Provide good agitation of the spray suspension in the tank before and during application. Do not leave spray solution in the tank overnight. Soil treated with this product maybe shallow cultivated without loss of herbicidal activity.

Moisture in the form of rain or sprinkler irrigation (12.5 mm) is required within 21 days of application to activate the product, otherwise herbicidal activity may be reduced. If moisture is not received within this period, incorporate into the top 2.5 cm of soil.

*Definition of the word 'Stonewall': To obstruct or hinder.*

*Definition of Stonewall Herbicide: To obstruct or hinder weed germination.*

### FEATURES

- Non-scheduled Pesticide, meaning minimal PPE requirements and no re-entry periods or restrictions around the herbicide application.
- Broad spectrum of weed control – Labelled for the pre-emergent control of 17 weed species.
- Excellent plant safety characteristics – Safe on over 120 genus of native and exotic plant species.
- Strong residual performance. One application can last up to 8 months.
- Cost effective form of pre-emergent weed control in landscape and ornamental plant situations.
- Liquid formulation allows flexibility in rate range to optimise desired longevity.
- Formulated and developed in Australia for local conditions.

### AT A GLANCE

<b>Active Ingredient</b>	500 g/L Oryzalin
<b>Formulation</b>	Suspension Concentrate
<b>Pack Size</b>	10 L
<b>Application Rate</b>	4.5 - 6.8 L/ha
<b>Residual Performance</b>	4-8 months (dependant on rate)
<b>Poisons Schedule</b>	Non scheduled
<b>MOA Group</b>	Group D Herbicide

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## STONEWALL HERBICIDE'S SPECTRUM OF WEED CONTROL

**Stonewall Herbicide** has a very broad spectrum of pre-emergent activity. It possesses pre-emergent activity on both grass and broadleaf weeds for an extended period of time. The below table indicates the spectrum of weed species that Stonewall Herbicide has proven activity in controlling.

Barnyard Grass	✓	Blackberry Nightshade	✓
Caltrop	✓	Crabgrass	✓
Deadnettle	✓	Fathen	✓
Fumitory	✓	Gentle Weed	✓
Guinea Grass	✓	Hogweed	✓
Innocent Weed	✓	Love Grass	✓
Paddymelon	✓	Paradoxa Grass	✓
Pigeon Grass	✓	Pigweed	✓
Portulaca	✓	Silverleaf Nightshade	✓
Summer Grass	✓	Spiny Burr Grass	✓
Wireweed	✓		

✓ Controlled by Stonewall Herbicide

## EXCELLENT TANK MIX FLEXIBILITY

**Stonewall Herbicide** has excellent tank mix flexibility with several other herbicides. The following table highlights potential tank mix partners that can be combined with **Stonewall** to extend weed control capabilities.

Tank Mix Partner	Purpose	Order of Addition to Tank
Paraquat	To assist with knockdown of established weeds.	Add Paraquat 1st, then Stonewall
Glyphosate	To assist with knockdown of established weeds.	Add Glypho 1st, then Stonewall
Oxyflufen	To strengthen and extend broadleaf weed pre-emergent spectrum of activity.	Add Stonewall 1st, then Oxyflufen.
Simazine	To strengthen and extend both grass and broadleaf weed pre-emergent spectrum of activity.	Add Simazine 1st, then Stonewall

## SAFETY TO ORNAMENTAL AND LANDSCAPE PLANTS

**Stonewall Herbicide** is safe on a very wide range of established ornamental and landscape plant species. The label has over 120 Genus of native and exotic landscape plants permitted for use. For more information on the plants that **Stonewall Herbicide** can be safely used on, please refer to the Directions For Use table on the label.

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