

## Embargo Herbicide

For pre-emergent control of certain grass and broadleaf weeds in turf

### Technical Brief

- Active Ingredients:** 400 g/L oryzalin
- Chemical Family:** Dinitroaniline (DNA)
- Mode of Action Group:** D
- Formulation:** Suspension Concentrate
- Mode of Action:** Embargo Herbicide is a member of the Dinitroaniline (DNA) family of herbicides. Embargo Herbicide inhibits the steps in plant cell division responsible for chromosome separation and cell wall formulation, therefore stopping root growth. After application, roots are relatively few in number and club shaped and, as a result, cannot effectively absorb the water and nutrients required for root and plant development.  
Note: see selectivity section on the next page
- Behaviour in Plants:** Embargo Herbicide does not translocate through the roots into the stem and leaves.

### Benefits

- Effective against all major annual grass weeds in turf during summer and winter
- Season-long control of annual weeds (up to 18 weeks control)
- Reduces future weed set and germination
- Reduces the reliance on costly selective post-emergent herbicides
- Minimises nutrient and sunlight competition from annual grasses
- Application compatibility with wetting agents
- Low odour formulation
- Unscheduled - Suitable for public areas
- Economical solution for your main annual weed problems such as Winter grass, Summergrass, Crabgrass and Crowsfoot grass

### Weed Management

Situation	Weeds Controlled	Rate / ha	Critical Comments
<b>Turf Established</b> Common Couch Hybrid Couch Kikuyu Buffalo	Wintergrass ( <i>Poa annua</i> ) Annual Ryegrass ( <i>Lolium spp</i> )	5 L	Apply prior to germination of the weeds (usually from late summer to mid-autumn, February to May). Apply every 16 weeks from early February to the end of August. The product should be incorporated by 10-15 mm of spray irrigation or rainfall as soon as possible, at least within one day of application. Allow at least 18 weeks between last application and overseeding/oversowing.
	Crabgrass ( <i>Digitaria sanguinalis</i> ) Summergrass ( <i>Digitaria ciliaris</i> ) Barnyard grass ( <i>Echinochloa crusgalli</i> ) Chickweed ( <i>Stellaria media</i> ) Crowsfoot grass ( <i>Eleusine indica</i> )	5 L	Apply prior to germination of the weeds (usually from early spring to summer, September to December). Apply every 16 weeks from early September to the end of February. The product should be incorporated by 10-15 mm of spray irrigation or rainfall as soon as possible, at least within one day of application. Allow at least 18 weeks between last application and overseeding/oversowing.
	Parramatta grass ( <i>Sporobolus spp</i> ) SUPPRESSION ONLY		

An addition of a soil penetrant is recommended to ensure an even matrix flow through the soil profile.  
The addition of crop oil concentrate may result in crop injury and reduced compatibility in the spray tank.

Note: The above table represents only a modified extract from the full registered label.  
Always read the full product label before use.

## How to get the most out of your application

- Soil Preparation: Areas to be treated should be free of established weeds.
- Apply prior to germination of weeds.
- Apply at a volume of 400 to 800 L of water per hectare.
- An addition of a soil penetrant is recommended to ensure an even matrix flow through the soil profile.
- The addition of crop oil concentrate may result in crop injury and reduced compatibility in the spray tank.
- The product should be incorporated by 10-15 mm of spray irrigation or rainfall as soon as possible, at least within one day of application.

## Mixing and Compatibility

### MIXING

Add the required quantity of Embargo Herbicide to the partly filled spray tank while agitating. Fill tank and agitate to ensure thorough mixing. Continue agitation while spraying. Reseal partly used container immediately.

### COMPATIBILITY

As formulations of other manufacturer's products are beyond the control of Turf Culture Pty Ltd, and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.

## Restraints

DO NOT apply to newly seeded, sodded or sprigged turf. Delay application until turf is at 100% cover and root system is developed beyond a 3 cm depth.

DO NOT use on turf under stress.

DO NOT use on Bent grass or Wintergrass, where they are desired species.

DO NOT use on golf greens or bowling greens.

DO NOT apply to foliage of desirable plants.

DO NOT use near newly planted shrubs, young ornamental and species with shallow surface roots.

DO NOT apply if forecast heavy rain or storms are likely to cause runoff.

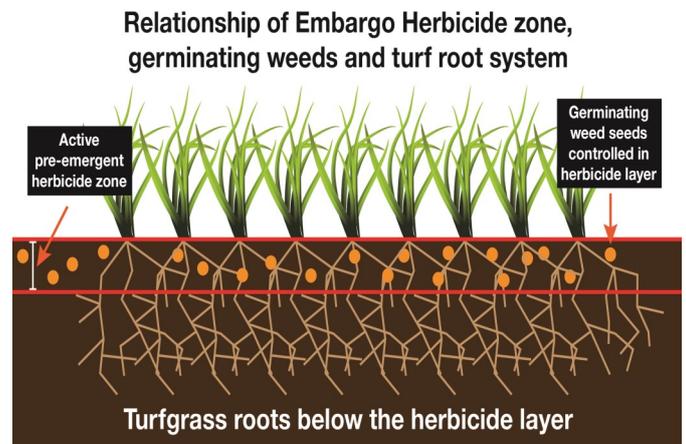
DO NOT irrigate to the point of runoff.

DO NOT apply by aircraft or through any type of irrigation equipment.

DO NOT blend Embargo Herbicide onto dry fertiliser or any other granular material.

## Selectivity

Embargo Herbicide's selectivity is primarily through soil profile placement. Achieving this soil profile placement of the herbicide correctly is vital to obtain high efficacy. Applicators should ensure an even matrix flow through the soil profile to achieve a consistent and even zone of herbicide activity (see graphic below).



After application, plants which have the majority of their root system in the herbicide profile zone cannot effectively absorb the water and nutrients required for root and plant development. Therefore good even coverage and incorporation is required to ensure the weeds cannot recover by establishing roots outside the zone of herbicide activity.

Small seeded plants (i.e. annual grass weeds) are affected more by the herbicide than established grasses as they germinate in the soil profile zone of herbicide placement (i.e. 100% of their germinating root system is affected by the herbicide).

Warm season grasses can be less prone to root inhibition due to the fact that they have multiple fibrous root systems with established roots beyond the depth of the zone of herbicide activity and are therefore still able to obtain moisture and nutrients.

## Packaging

Pack size: 5 L, 20 L

