



# Destro 375

## Herbicide



### Targeted Crowsfoot & Grass Weed Control

#### Product Overview

ProForce Destro 375 Herbicide is a grass specific herbicide containing 375g/L Diclofop-methyl.

It is registered for the control of Crowsfoot Grass (*Eleusine indica*) in a range of warm season turfgrasses including Kikuyu, Hybrid Couch, Common Couch, Buffalo, Carpetgrass and Saltwater Couch.

ProForce Destro 375 Herbicide is also registered for the control of Annual Ryegrass, Wild Oats and Common Barbggrass in a range of agricultural crop situations.

#### Key Features

- > Provides a useful mode of action rotation in the fight against Crowsfoot Grass.
- > Strengthens the resistance management strategy.
- > Excellent turf safety characteristics on a range of warm season grasses including Couch, Kikuyu, Queensland Blue Couch & Buffalo.
- > Group A Herbicide chemistry.
- > Can be used in golf and bowling green situations.
- > Safe for use on Queensland Blue Couch and Kikuyu. There are few other post-emergent herbicides available to control Crowsfoot Grass on these turf types.
- > Safe for use nearby ornamental garden beds and landscape plants.
- > No re-entry periods for use in turf situations.
- > Flexible to use near and around the public.



## Destro 375 Herbicide – Use Rates & Label Recommendations

CROP	WEED	RATE	CRITICAL COMMENTS
Turf: Kikuyu, Hybrid Couch cv. Tifdwarf	Crowsfoot Grass ( <i>Eleusine indica</i> )	1L/ha or 100mL in 100L of water per 1000m <sup>2</sup>	Apply to weeds between the seedling and tillering stage for best results. Use lower rates for seedlings and higher rates for established grass weeds.
Queensland Blue Couch		1 to 1.5L/ha or 100 to 150mL in 100L of water per 1000m <sup>2</sup>	A repeat spray may be needed in 2 to 4 weeks. Results are best when ProForce Destro 375 is applied under good growing conditions and weeds have sufficient leaf area eg. 2-3 days after mowing.
Common Couch, Buffalo, Hybrid Couch cv. Tifway, Carpetgrass, Saltwater Couch		1 to 2.5L/ha or 100 to 250mL in 100L of water per 1000m <sup>2</sup>	

## Mode of Action

### GROUP 1 HERBICIDE

ProForce Destro 375 Herbicide is a selective systemic herbicide, which is absorbed primarily by the foliage, with some absorption by the roots in moist soil conditions.

Once inside the plant Diclofop-methyl undergoes rapid transformation from the ester to the biologically active form, which is then translocated throughout the plant.

Diclofop-methyl works by inhibiting fatty acid production via prevention of acetyl CoA carboxylase (ACCase) synthase. As a result of Diclofop-methyl activity, the plant's cell membrane is destroyed, providing a water soaked appearance on the leaves of susceptible plants.

Diclofop-methyl also results in death of the growing tips, hence plant leaves of treated grasses can be easily pulled from their sheaths. Diclofop-methyl also prevents the translocation of assimilates (plant food reserves) to the root system, reduces plant chlorophyll content, and inhibits photosynthesis and meristem activity in weedy grasses.



## Maximising performance

- > Rainfall or irrigation within 1 hour of application may cause a reduction in grass control.
- > Use of a methylated seed oil adjuvant with ProForce Destro 375 Herbicide will improve efficacy. Recommended rate of use is 250mL/100L of water.
- > Apply to Crowsfoot Grass when maximum leaf area is evident.
- > The effectiveness of Diclofop-methyl is significantly reduced when grass clippings interfere with thorough spray coverage of the target weed. Particularly around the crown of the plant.
- > Avoid mowing treated areas for at least 36 hours to allow time for penetration into the weed.
- > Diclofop-methyl is absorbed primarily through the foliage. Thorough coverage is important and essential. Visual injury on Crowsfoot Grass is evident approximately 2 to 3 weeks after application (dependent upon environmental conditions).
- > Young Crowsfoot plants are easiest to control. Large mature plants will not be adequately controlled. Best results come from early season applications.
- > Ideally, applications below average daily temperatures of 25°C provide most efficient results.
- > Avoid applications to turfgrass under drought stress or stress from insects, diseases or nematodes.
- > Ensure good coverage over the Crowsfoot plant. Use higher water volumes as much as practical (1,000L per hectare). Aim the product at the base (crown) of the Crowsfoot Grass to ensure best performance.
- > Don't apply to cool season turfgrasses such as Ryegrass, as severe injury will result.
- > Avoid tank mixing ProForce Destro 375 Herbicide with any other pesticide or liquid fertiliser as reduced Crowsfoot Grass control may occur.
- > Do not overseed treated area for at least 2 months from time of application.
- > ProForce Destro 375 Herbicide will not control broadleaf weeds or sedges.
- > Don't allow treated turf areas or clippings to be grazed by or fed to livestock.