



SPECTICLE[®]



**Get ahead,
Stay ahead**

envu[™]

A pre-emergent like no other

Apply less, Achieve more.

Specticle is an innovative herbicide for warm-season turf that sets a new standard for pre-emergent weed control. It provides up to 8 months of pre-emergent control in warm-season grasses.

Delivering an exceptional level of protection against *Poa annua*, Crowsfoot grass and Summer grass and a range of common broadleaf weeds. Specticle provides unmatched use flexibility with a wide application window, making it an ideal choice as the foundation of a year-round herbicide program.

Benefits of using Specticle

- + **Superior turf quality and playability** – outstanding pre-emergent control of *Poa annua*, Crowsfoot grass, Summer grass and a range of common broadleaf weeds including bindii, white clover, capeweed and plaintain
- + **Longer residual control** – Specticle outperforms the competition, even in the most difficult conditions, without losing control late in the season, meaning fewer applications and reducing fuel, labour and pesticide costs
- + **Easier application scheduling** – the longer residual control with Specticle means a wider application window, giving more flexibility to turf managers to select the most appropriate application timing for their operation
- + **A significant step for resistance management** – being a new mode of action for turf in Australia, Specticle controls weeds, like *Poa annua*, that are known to have developed resistance to other commonly used herbicides. This makes Specticle one of the most effective tools in any turf manager's arsenal
- + **A significant reduction of herbicide placed in the environment** – an application of Specticle applies up to 40 times less active ingredient per hectare than many competitive products
- + **No concern about stains or odour** – Specticle's applicator-friendly formulation will not stain or leave odour behind after application





Unique Mode of Action

The active ingredient in Specticle, Indaziflam, is classified a Group 29 herbicide.

Specticle works by inhibiting crystalline cellulose deposition in the plant cell wall, affecting cell wall formation, cell elongation and division. Consequently, actively growing meristematic regions are affected.

Like other pre-emergent herbicides, Specticle does not prevent seeds from germinating. However, once the weed seedlings come into contact with the Specticle barrier, the growth is terminated by inhibiting the development of cells within the roots.

Active ingredient	Brand/s	MOA group
Indaziflam	Specticle®	29
Prodiamine	Barricade*	3
Oryzalin	Embargo*	3
Dithiopyr	Dimension*	3
Pendimethalin	Stomp*	3

Addressing the challenge of weed resistance

Specticle has a different mode of action and is therefore a very timely tool to enable effective management of weeds that are resistant to existing pre and post-emergent herbicides. Not only have many of the current pre-emergent herbicides been on the market for many years, they all have the same mode of action.

There have been no documented cases of resistance to Indaziflam. Research trials around the world have shown that Specticle controls weeds like *Poa annua* that are suspected to be resistant to Group 29 herbicides.



Specticle Testimonials

Chris Allan, Course Manager Keysborough Golf Club, has struggled to effectively control *Poa*, with *Poa* germinating all year round. Chris trialled Specticle on one fairway in mid-winter with great success and followed this with a February application to all fairways, resulting in a large reduction in *Poa*.

“When you are chasing *Poa annua* and spot spraying there's a lot of time and money wasted. We can now focus on those one percent jobs that enable us to play golf year round.”

For Keenan Hobbs, Course Superintendent at Wollongong Golf Club, it had become increasingly challenging to achieve effective post-emergent control of *Poa annua* on his two couch fairways, both of which had no history of pre-emergent herbicide application and had an extremely high seed bank as a result. Keenan was interested to trial Specticle and reduce reliance on post-emergent herbicide applications.

“*Poa* is a major problem. I'd like to stop the problem rather than fix the problem. If we can use pre-emergents with good results then I can stop the problem. We trialled Specticle on two fairways and had a great result. I've never seen those fairways looking so clean.”

Charlie Giffard, Course Superintendent at Indooroopilly Golf Club ranks crowsfoot grass as his highest priority weed to address in preparing clean, playable surfaces. Expanding windows for potential crowsfoot grass germination resulting from warmer winter conditions has heightened his concern and pre-emergent herbicides are now the backbone of Charlie's crowsfoot grass management. In the late winter/spring of 2016, Charlie trialled Specticle for control of crowsfoot grass on two fairways.

“Crowsfoot grass is the number one concern for us. With the longevity Specticle offers, you've got peace of mind it's going to carry on and provide protection against crowsfoot grass right through the summer. And being a new mode of action, Specticle is also a really good tool to have in our armoury to manage the risk of crowsfoot resistance.”



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SITUATIONS FOR USE AND APPLICATION RATES			RESTRAINTS
Situation	Weeds Controlled	Rate	DO NOT use on
General Turf Situations Warm season turf grasses only, including: Bahia grass (<i>Paspalum notatum</i>); Buffalo grass (<i>Stenotaphrum secundatum</i>); Common couch (<i>Cynodon dactylon</i>) and Hybrid couches; Queensland Blue Couch (<i>Digitaria didactyla</i>); Kikuyu (<i>Pennisetum clandestinum</i>); Zoysia (<i>Zoysia</i> spp.)	Summer grass or Crab grass (<i>Digitaria</i> spp.)	250 mL/ha in 200 to 500 L water per ha	<ul style="list-style-type: none"> + Turf under stress, or turf that is not well established or in a robust healthy condition + Golf or bowling greens, collars, tees, tennis courts or croquet lawns + Turf species not listed on the label + Cool-season grasses + Waterlogged soil or when heavy rainfall is forecast within 48 hours (golf courses) or 3 days (other turf areas) of application + Turf that is to be oversown or seeded within 12 months
	Crowsfoot grass (<i>Eleusine indica</i>) Winter grass (<i>Poa annua</i>) Bindii (<i>Soliva sessilis</i>) White clover (<i>Trifolium repens</i>) Brome grass (<i>Bromus</i> spp.) Plantain (<i>Plantago</i> spp.) Chickweed (<i>Stellaria</i> spp.) Capeweed (<i>Arctotheca calendula</i>)	125 mL/ha applied twice as a split application at a 4- to 6-week spray interval Apply in 200-500 L water per ha	

Specticle is a suspension concentrate formulation containing 200 grams per litre of the active ingredient, Indaziflam. Specticle is available in 250 mL and 1 litre bottles.



Best Practice Guidelines

The right timing. The proper moisture. The best results.

As a pre-emergent herbicide, Specticle should be applied before weed seeds germinate¹. Best practice is to irrigate with 3-6mm water as soon as practical after application². Adequate soil moisture is needed to activate Specticle and provide maximum control.

Clean-up with caution

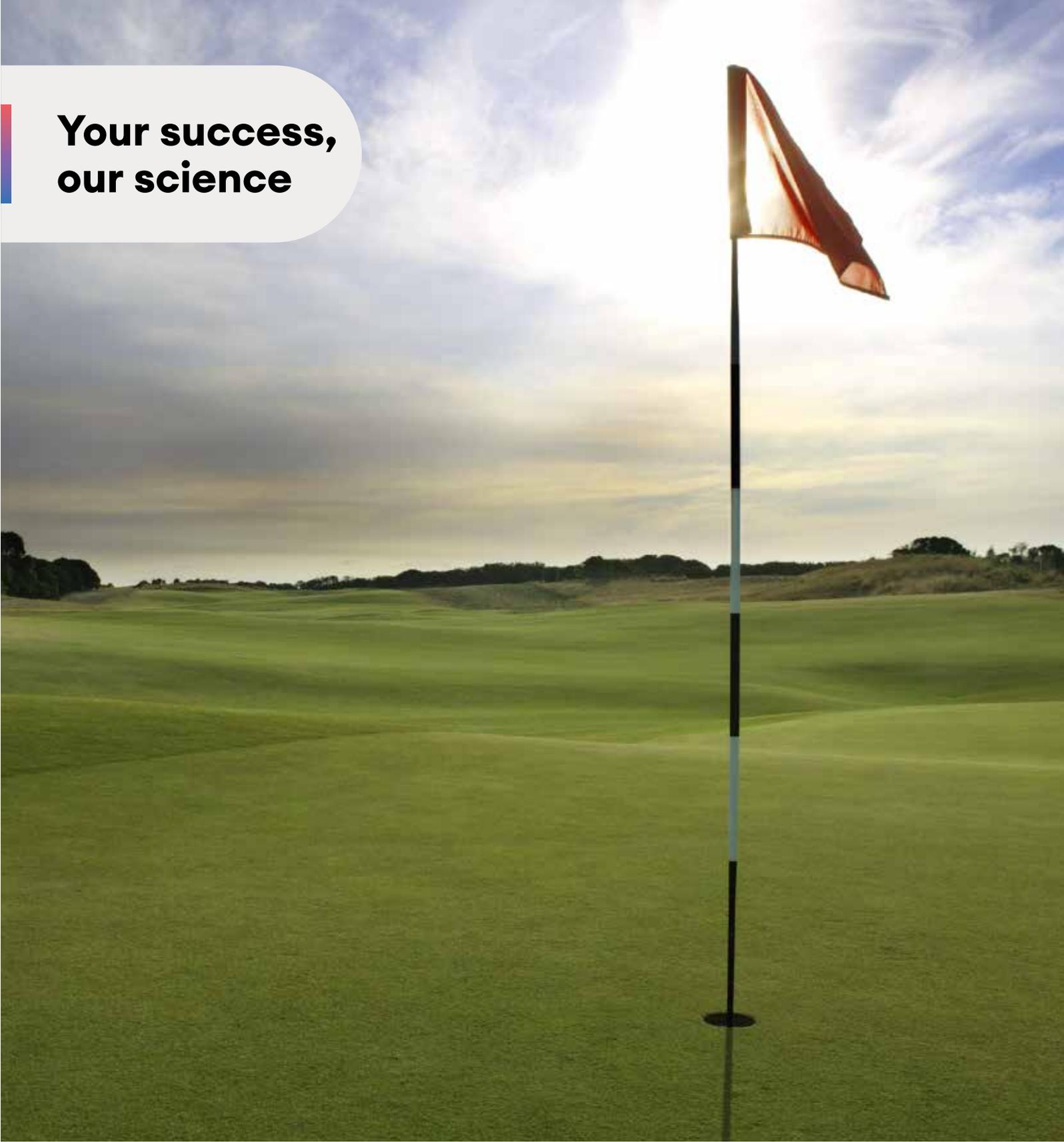
The sprayer must be thoroughly decontaminated before being used again to spray susceptible plants or turf. Ensure that sprayer clean-up is carried out in an area that is clear of waterways, desirable vegetation and tree roots, and preferably in an area where drainings can be contained.

See *Product Label* for further instructions.

1 Specticle is not expected to control weeds that have already emerged prior to application or perennial weeds emerging from rhizomes and roots.

2 Specticle may affect sensitive grasses downslope from treated areas after excessive rainfall. To minimize effects on sensitive grasses, irrigate after application as directed on the Specticle label. Local conditions such as soil compaction, slope, amount and timing of irrigation or rainfall and sensitivity and growth stage of non-target plant species may affect the severity of damage.

**Your success,
our science**



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ALWAYS READ THE LABEL BEFORE USE
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