



# QUALI-PRO I-PRO 365

Superior Formulation for  
Improved results.



ADAMA

Simply. Grow. Together.



# Product Overview

- IPRO 365 is a broad spectrum fungicide containing 365g/L of the active ingredient Iprodione. It is registered for the control of Brown Patch, Dollar Spot, Fusarium Patch and Helminthosporium complex (Black and White) in all recreational turf situations.
- IPRO 365 is a unique Suspo-emulsion formulation that contains a high concentration of crop oil to ensure improved rainfastness, coverage and uniformity of spread on the leaf and movement into the plant to control diseases within.

## Mode of Action

### GROUP 2 FUNGICIDE

Iprodione, the active ingredient in IPRO 365 is a member of the dicarboxymide fungicide group (Group 2 – Formally Group B). IPRO 365 is a locally systemic fungicide with both protective and strong curative activity. Iprodione controls susceptible fungi by inhibiting germination of fungal spores and growth of mycelium (a vegetative part of the fungus).

IPRO 365 possesses locally systemic movement (Translaminar) capabilities within plants, meaning that when used as a foliar treatment, it has the capacity to penetrate into leaf tissue, moving from the upper leaf surface to the lower leaf surface, enhancing protection and control within the entire leaf area.

IPRO 365's translaminar capability also ensures that the plant pathogens growth within treated plant tissue is halted and controlled within days following application.

Iprodione is a unique fungicide molecule, as it is active on all stages of the disease lifecycle, and therefore, as a result of this feature, provides unsurpassed curative control capabilities of turf diseases.

## How to get the best results from IPRO 365

PATHOGEN	APPLICATION RATE	COMMENTS
Brown Patch ( <i>Rhizoctonia solani</i> )	80 - 125 mL/4 - 150 L water/100 m <sup>2</sup>	To optimise curative control, repeat treatment after 14 days. Use the higher rate under conditions of severe disease pressure.
Dollar Spot ( <i>Sclerotinia homoeocarpa</i> )	80 mL/4 - 110 L of water/100 m <sup>2</sup>	
Winter Fusarium or Fusarium patch ( <i>Fusarium nivale</i> )	125 mL/4 - 150 L of water/100 m <sup>2</sup>	DO NOT apply more than 2 consecutive sprays of IPRO 365. Switch to a different chemistry class, before going back to Iprodione treatment.
Helminthosporium disease affecting leaf, crown and roots: (Black and white) <i>Bipolaris</i> spp., <i>Drechslera</i> spp., <i>Exserohilum</i> spp.)	65 mL/4 - 150 L of water/100 m <sup>2</sup>	



# Application Recommendations

Good disease control requires even, thorough coverage of the target area. The amount water output required, largely depends on the location of the disease. Application volume for leaf and crown diseases (Dollar Spot, Helminthosporium complex and Winter Fusarium) should be adequate to ensure thorough and even coverage of the turf leaves and penetration to the crowns. Ideal application volume should be 400 to 500 L/ha. For best results use medium [XR Teejet\* (11004 or 10005)] to coarse [Turbo Teejet\* or AIXR Teejet\* (11004 or 11005)] nozzles, at 5 km/h and 3 bar pressure. In higher cut turf ( $\geq 15$  mm) a significant spray shielding effect can occur, impacting negatively on spray penetration and even coverage at low application volumes.

For Brown Patch, application volumes should be as high as possible with IPRO 365 to ensure placement close to or below the soil surface. When lower application volumes are used, washing in should commence as soon as possible after application. For best results use extremely coarse droplets [Turbo Floodjet\* (TF5) or TurfJet\* (TTJ10)] and a total application volume of approximately 1000 L/ha or greater. Preferably spray onto wet or dewy grass. Irrigate with 6 to 10 mm of water commencing within 4 hours of application where possible.

## Importance of Tank Water pH

IPRO 365 is most stable in a water pH below 5. IPRO 365 maybe unstable in water conditions where the pH is above 7. At a pH of 9, Iprodione undergoes alkaline hydrolysis and has a half life of less than 1 hour. It is therefore essential to check the pH of the spray solution before adding IPRO 365. A suitable acidifier such as Raizer® Spray Adjuvant may have to be added to the spray solution to bring the pH closer to the ideal range and get the best result out of IPRO 365.

## Turf Nutrition

This product acts very rapidly in the plant and where the turf is of a low nutritional status, a slight yellowing may be seen. This will be corrected by nitrogenous fertilizer applications. Where possible, it is recommended that the fertiliser program precede the fungicide application.

## Compatibility

IPRO 365 is suitable for combining with a number of plant protection and plant nutrition products. This includes Fosetyl Al, Fluazinam, Chlorpyrifos, Tebuconazole /Azoxystrobin, Tebuconazole /Trifloxystrobin, Chlorothalonil, Mancozeb and Metalaxyl-M. IPRO 365 should not be mixed with urea due to the potential to enhance foliar burn. DO NOT tank mix IPRO 365 with fertilisers in the spray tank. Mixing IPRO 365 with Signature®# (Fosetyl al) may result in some settling out.



Black  
Helminthosporium



White  
Helminthosporium



Dollar Spot



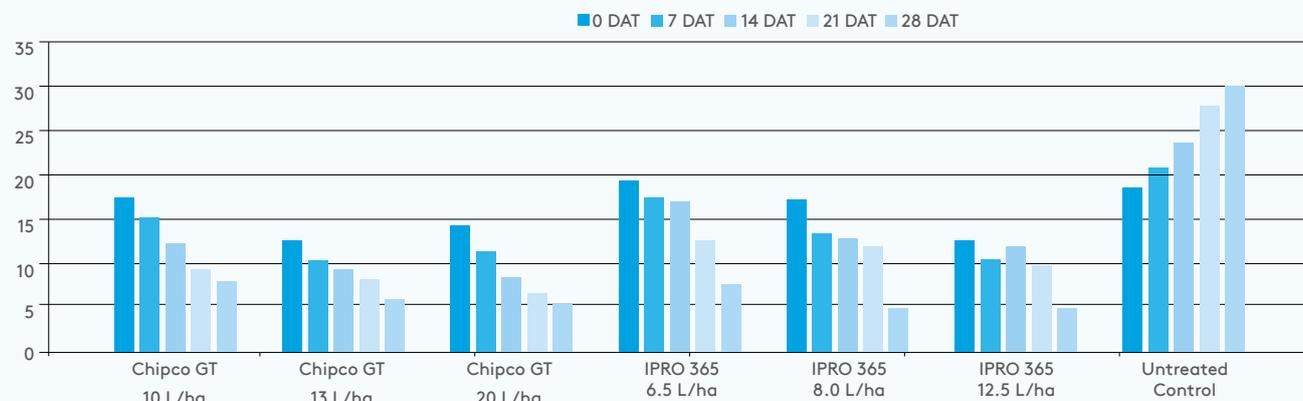
Brown Patch



Winter Fusarium

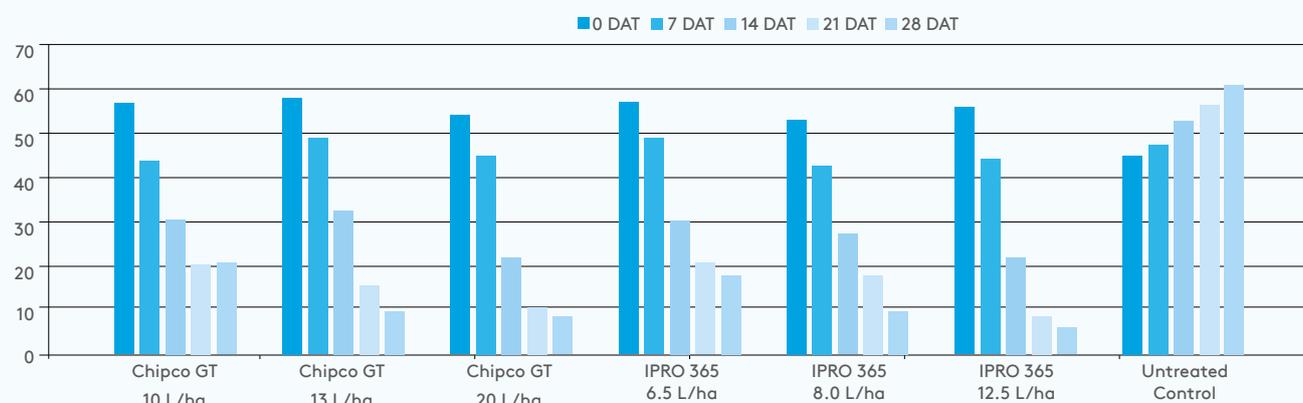
# IPRO 365 Field Performance

**Dollar Spot symptom severity following treatment with IPRO 365 & Chipco GT - Plant Breeding Institute- Sydney University, June 2016**



Source: Westgate Research, WR-IproBio12016 – Dollar Spot. (DAT = Days after treatment)

**Winter Fusarium symptom severity following treatment with IPRO 365 & Chipco GT - Bankstown Golf Club - July 2016**



Source: Westgate Research, WR-IproBio12016 – Fusarium. (DAT = Days after treatment)

## Summary of Results

Results of the above 2 field trials has shown that Ipro 365 at an equivalent active ingredient output to Chipco GT provided statistically similar curative control of the Dollar Spot and Winter Fusarium populations.

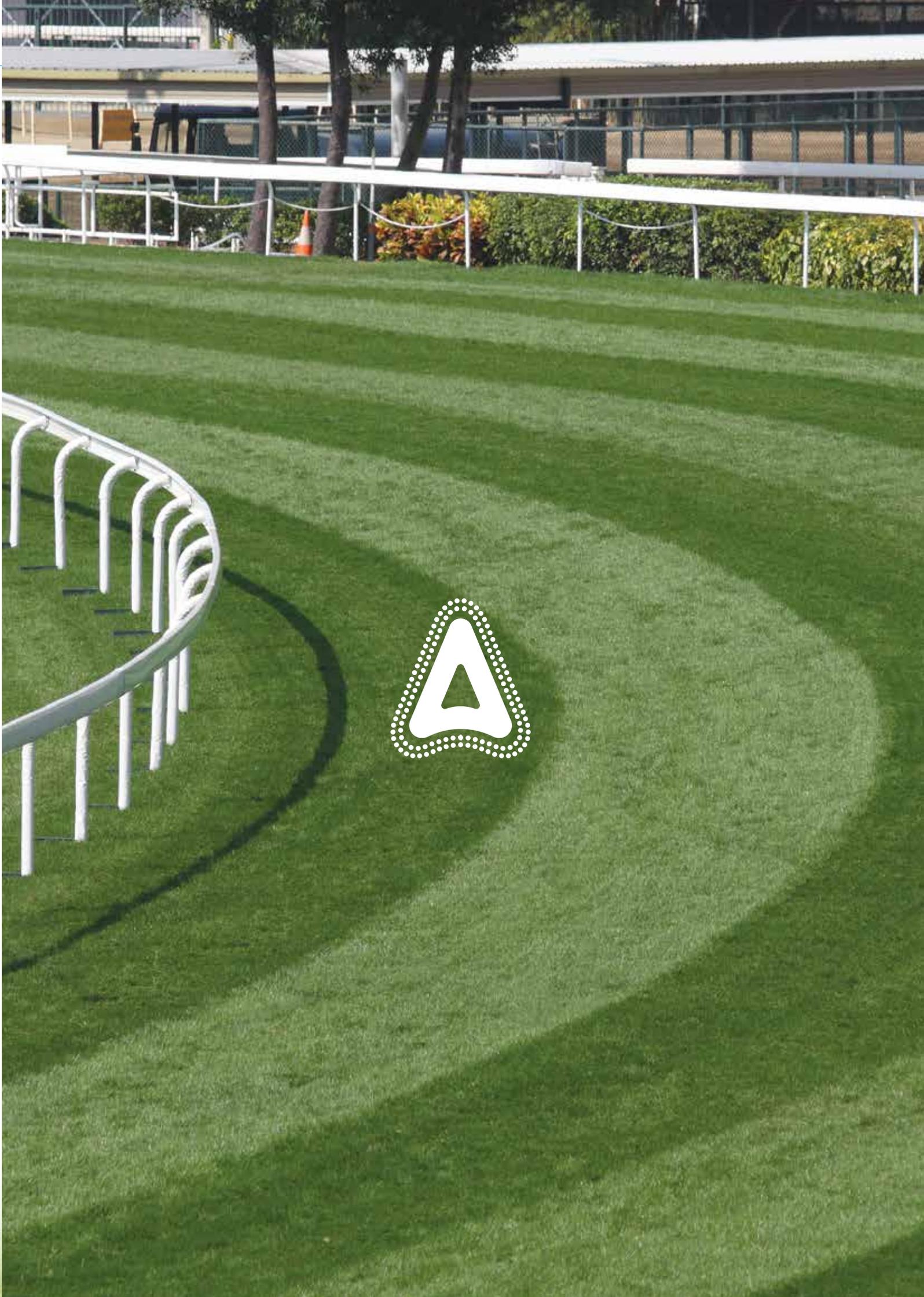


# Summary of IPRO 365 Features and Benefits

Features	Benefits
Non Scheduled Chemical	Increased usage in and around public areas. No re-entry restrictions.
Unique Suspo-Emulsion (SE) formulation	Improves spread and coverage over leaf, rainfastness, longevity and movement into the plant.
No Hydrocarbon solvents in formulation.	Low hazard to user and the general public.
Locally Systemic movement (translaminar) within the plant.	Provides curative control of pathogens within plant tissue.
Good disease knockdown	Efficient and reliable control, giving you peace of mind that the pathogen is under control.
Works on all stages of the disease lifecycle.	Will work for you, regardless of where the disease growth is at.

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## More Information

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**QUALI-PRO**

Innovation you can apply.



IPRO 365

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