

NOVAGREEN Zodiac 400SC® FUNGICIDE

POWERFUL PROTECTION AGAINST PYTHIUM

Zodiac 400SC is a revolutionary fungicide providing turf managers with a reliable tool in the fight against diseases caused by *Pythium* spp., including Pythium Leaf Blight and Pythium Root Dysfunction.

Containing 400 g/L of cyazofamid, Zodiac® 400SC Fungicide offers a novel mode of action and exceptional performance against pythium-related diseases.

Zodiac 400SC at a Glance

Active Ingredient	400 g/L cyazofamid
Mode of Action	Group 21 Fungicide
Formulation	Suspension Concentrate
Activity	Contact / Locally Systemic
Pack Size	1L
Rate	1 L/ha
Poison Schedule	Schedule 5 (Caution)

Key Features

- ✓ Active ingredient with a novel mode of action that provides a new tool in the management of diseases caused by *Pythium* spp.
- Another unique chemistry targeting a unique group of pathogens
- ✓ No reported cross-resistance with other fungicides
- ✓ Low poison scheduling (Schedule 5 – Caution)
- ✓ Low use rate of 1 L per hectare
- ✓ Exceptional rain-fastness and leaf deposition
- ✓ Leading residual preventative control
- ✓ Reliable curative control

The Active Ingredient

Cyazofamid is a member of the cyano-imidazole chemical class and is generally classified into the azole group.

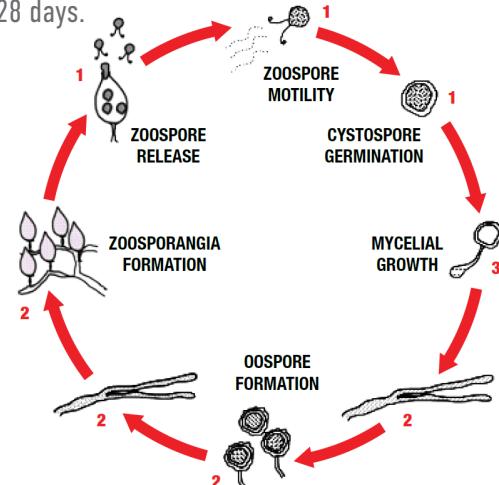
- ✓ Primary strength: Preventative control
- ✓ Additional benefit: Reliable curative activity

Cyazofamid has established itself globally as a leading fungicide for managing *Pythium* diseases, thanks to its game-changing performance, low toxicology profile, and novel mode of action.



Mode of Action

Cyazofamid (FRAC Group 21) inhibits fungal development by blocking respiration at Complex III in the mitochondria of Oomycete fungi. This prevents spore and mycelium formation, stopping the pathogen from spreading and eliminating existing *Pythium* infections. With limited systemic movement, cyazofamid acts primarily on contact, making it most effective as a protectant fungicide. Its strong affinity for the plant's waxy cuticle ensures exceptional rain-fastness and reliable protection for 21–28 days.



Typical lifecycle of *Pythium* spp. showing efficacy of cyazofamid on various stages of fungal development on a scale of 1-3 (1 high, 3 low)

CONTACT YOUR NUTURF REP FOR MORE INFORMATION

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FUNGICIDE

Improved Rotation in Pythium Management

The FRAC grouping for Zodiac 400SC Fungicide is group 21, which provides a new rotational tool for turf managers in resistance management. With pythium related diseases presenting a major management issue for Australian turf managers for a protracted period throughout the growing season, ensuring the rotation of modes of action is critical.

Product	Active Ingredient	Mode of Action Group
Zodiac 400SC Fungicide	400g/L Cyazofamid	21
Banol Turf & Ornamental Fungicide	600g/L Propamocarb	28
Signature Stressgard Fungicide	800g/kg Fosetyl-Al	33
Subdue MAXX Turf Fungicide	240g/L Metalaxyl-M	4
Terrazole 350 WP	350g/kg Etridiazole	14

Zodiac 400SC is inherently a strong preventative fungicide. Its lower solubility compared to alternative options means it doesn't move rapidly into plant transport tissues, which is essential for curative treatments but can quickly deplete soil protection. In contrast, Zodiac 400SC maintains a protective reservoir around root zones, making it ideal for re-establishing defense after a Pythium outbreak and for ongoing prevention when used as the primary protectant tool.

Integrated Approach to Pythium Management

Zodiac® 400SC should be used as part of a multi-option preventative program, not as a standalone solution. For best results, position Zodiac® 400SC at the forefront of your strategy—especially for root-infecting forms—thanks to its strong retention around critical tissues.

While highly effective against root diseases, Zodiac® 400SC also excels in managing foliar forms. Its strong affinity for the waxy leaf cuticle delivers exceptional rain-fastness, making it ideal for preventing blights in both established and newly seeded turf.

Rainfastness

Zodiac 400SC Fungicide delivers outstanding rain-fastness thanks to its strong affinity for the plant's waxy cuticle and low water solubility. Once applied, the active ingredient adheres firmly to the treatment zone, ensuring long-lasting protectant performance. In controlled studies using simulated rainfall, performance remained unaffected even after 20 mm of rain over a two-hour period, demonstrating exceptional reliability under wet conditions.

Management Tips for Pythium Diseases:

One of the greatest factors aiding the infection potential of Pythium in turf root systems is free soil water. Wherever possible reduce free water through draining, aerating, or using surfactants to move water through profiles.

Application:

- Apply at 1 L/ha
- Water volumes should allow Zodiac Fungicide to be placed at the soil and watered-in post-application to treat root-infecting forms of pythium.
- Lower total volumes may be used for foliar forms but complete coverage of the grass plant is critical.



ALWAYS REFER TO THE FULL PRODUCT LABEL BEFORE USE

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