



Signature™ Stressgard®

Take a more scientific approach to Pythium management in your turf situation

// Technical Information

Signature™ Stressgard® is a true two-way systemic turf fungicide designed to control tough turf diseases, whilst improving turf quality.

Containing Stressgard® Formulation Technology, the end result of a Signature™ Stressgard® program is a disease-free turf with higher quality, colour and vigour.

Signature™ Stressgard® is the standard for Pythium management in turf. Providing outstanding residual performance, it forms the basis of a strong fungicide program in the summer months.



DISEASES CONTROLLED

Pythium spp. in turf and crown and root rot (*Phytophthora* spp.) in ornamentals.

AREAS OF USE

Turf (golf and bowling greens and other intensely managed turf surfaces).

Key features

- True systemic – moves up and down in all parts of the plant, from root to shoot
- Not prone to resistance
- Rapidly absorbed by the plant
- Good compatibility with other products
- Excellent preventative control of tough turf diseases
- Unscheduled Chemistry: High level of user and environmental safety when used according to label
- Improves root mass
- New reduced-dust granule
- Stressgard® Technology enhances overall turf quality by better enabling turf to withstand stress

Stressgard®
FORMULATION TECHNOLOGY

// Application rate and delivery

Turf: 125 g/100 m²

Begin preventative applications when conditions first favour disease and continue as long as conditions are favourable for disease at approximately 21 day intervals. Apply as a foliar spray.

DO NOT mow or water treat area until foliage is completely dry. The benefits add up to excellent disease control, enhanced turf colour and density, and overall improvements in turf quality.

// How does Signature™ Stressgard® improve turf quality?

Unlike other fungicides Signature™ Stressgard® is a true systemic, travelling up and down within the plant. Signature™ Stressgard® with Stressgard® Technology helps turf 'self-manage' stress in several ways:

- > It stimulates production of phytoalexins, the plants own natural defence chemicals
- > Studies with Signature™ Stressgard® show an enhancement in heat stressed plants. Enhanced photosynthesis equals more energy production in plants and increased tolerance to stresses and disease development
- > Stressgard® reduces the impact of harmful ultraviolet radiation and selectively allows for the transmission of red and blue light wavelengths used by turf plants for photosynthesis
- > Stressgard® enhances turf colour, adding to the natural aesthetic characteristics of both cool season and warm season turfgrasses.

For more information about how Signature™ Stressgard® improves turf health, please refer to the Stressgard® technical information sheet.



Pythium blight



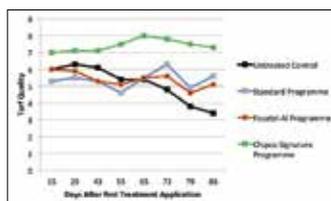
SignatureTM Stressgard[®]

// The SignatureTM Stressgard[®] Difference

The proof is in the results! SignatureTM Stressgard[®] and the benefits of Stressgard[®] Technology have proven to significantly enhance plant health and turf quality over other Fosetyl-AI products on the market as well as other Phosphite based products. Two such research studies are highlighted in greater detail below.

// FIELD TRIAL RESEARCH RESULTS IN NORTH CAROLINA

Below is a field trial conducted at the Bayer Development and Training Center in North Carolina, USA. The trial showed significantly improved turf quality within SignatureTM Stressgard[®] treated plots when compared to a standard Fosetyl-AI and a standard fungicide program. The results were consistently better between the 15 and 86 day period. This highlights the significant benefits that the StressGard FT provides in improving plant health and turf quality and the superior quality of the SignatureTM Stressgard[®] product.



// FIELD TRIAL RESEARCH RESULTS AT THE UNIVERSITY OF KENTUCKY

Below is a field trial conducted by Joshua Cook, Peter Landschoot PhD and Max Schlossberg in 2006.

Summary of the products –

- > **Alette** – Fosetyl AI (A Fosetyl-AI formulation that doesn't possess Stressgard[®]).
- > **Alude** – A Potassium Phosphite based product.
- > **SignatureTM Stressgard[®]** – containing the patented Stressgard[®] Technology.

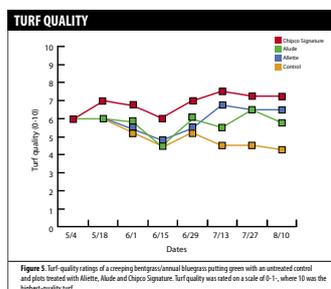


Figure 5 Turf-quality ratings of a creeping bentgrass/annual bluegrass putting green with an amended control and plots treated with Alette, Alude and Chitoa Signature. Turf quality was rated on a scale of 0-10, where 10 was the highest-quality turf.

Summary of the Findings, as quoted by the authors.

“The SignatureTM Stressgard[®] program was consistently in the top statistical groupings in all assessments. We do not know why these differences in performance occurred, but we suspect that inert ingredients and other aspects of the formulation may be the cause”.

Further Reading: Joshua Cook, Peter Landschoot PhD and Max Schlossberg (2006). Phosphonate products for disease control and putting green quality. Golf Course Management Magazine, April, p.93-96.

These trials prove that SignatureTM Stressgard[®] is the industry standard, and the base fungicide in any good Disease Control Program. Providing outstanding residual performance on Pythium, and with the addition of Stressgard[®] Technology, why risk using anything else during your key stress periods? **SignatureTM Stressgard[®]** is a true systemic fungicide providing optimal movement & protection throughout the plant.

PRODUCT PROFILE

Active Ingredient:

800g/L fosetyl-AI
(with Stressgard[®] Technology)

Chemical Group:

Multi-site fungicide. Mode of Action Group 33. Phosphonates

Formulation Type:

Water dispersible granule (WDG)

Pack sizes available: 2.5kg bag

PRODUCT SAFETY

None required.

No products produced by Bayer Environmental Science have been shown to be carcinogenic, teratogenic or mutagenic

REGULATORY INFORMATION

APVMA Approval number: 56565

Poisons Schedule: Exempt

Impact on the environment All pesticides are regulated in Australia under the Agricultural and Veterinary Chemicals Code Act 1994 to ensure that they do not pose an unacceptable risk to human health and the environment.

For information regarding the pesticide regulatory process please visit the Australian Pesticides and Veterinary Medicines Authority website at www.apvma.gov.au

// Best practice guidelines

- > For optimum results use on a preventative basis in areas where there is a history of disease pressure.
- > Apply when conditions are favourable for disease development.
- > To prevent spread of disease apply over a wide area around infected patches of turf.
- > Foliar applied with no need to water in.



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