

HEADWAY for double action long lasting disease protection

PRODUCT TECHNICAL INFORMATION SHEET

Spring 2009

In Brief

- **First double action fungicide with disease control activity from leaf to root**
- Fast uptake and rapid systemic movement hits turf disease quickly and gives long lasting protection
- **Cost effective and easy to use combination of two world leading turf fungicides – azoxystrobin and propiconazole**
- Approved for control of key foliar and soil-borne turf diseases
- **In trials HEADWAY has provided over eight weeks control of *Fusarium* infection**



The HEADWAY combination of two outstanding active ingredients for the control of turf diseases increases flexibility for use throughout the growing season – with improved performance and greater security.

Label approvals for:



Fusarium Patch

Anthracnose

Dollar Spot

Leaf Spot

Take All

Trials have also identified additional effects on:

- Fairy Ring
- Basidiomycetes
- Brown Patch
- Red Thread
- Rusts

Double up on turf disease activity

HEADWAY contains two of the worlds most successful turf fungicide active ingredients, providing disease protection both inside and outside the plant:

Azoxystrobin

- Broad spectrum activity
- Outstanding protection from foliar and soil-borne disease infection
- Systemic and translaminar movement protects turf as it grows
- Stops attacks early – before spore germination
- Long lasting control



Propiconazole

- Protective, curative and eradicator activity
- Fast uptake into the plant leaf
- Systemic movement to protect new leaf growth
- Stops fungal development inside the plant

Combining both active ingredients in one pre-formulated product gives:

- Improved performance
- Increased flexibility for greater convenience
- Wider application window – easy to use
- Complimentary power of two actives
- Dual modes of action minimise resistance potential

Turf protection through the growing season

HEADWAY provides a fast, effective, double action systemic fungicide perfectly suited for use throughout the growing season.

Rates of use:

Apply HEADWAY at an application rate of 3 litres per hectare, using a water volume of 250–1000 l/ha.

Low rate of application = faster tank mixing and fewer containers to dispose of

Low water volume = faster spraying

Application timing:

For best results apply HEADWAY as a preventative application when conditions become favourable for disease infection – use www.greencast.co.uk to forecast disease risk. Alternatively, spray at the first signs of disease presence.

HEADWAY is best applied during periods of turf growth, from early spring to late autumn. A maximum of four applications may be made per year, with a minimum spray interval of 14 days between applications. Use no more than two sequential HEADWAY applications, as part of an Integrated Turf Management programme.

Application technique:

HEADWAY may be applied by boom, walkover and knapsack sprayers. Use a medium to fine spray pattern, to achieve good coverage and spray retention on the leaf. LERAP B.

HEADWAY is approved for use on all managed amenity turf and amenity grassland.

Diseases	Application rate	Turf areas
Fusarium Patch, Anthracnose, Dollar Spot, Leaf Spot, Take All	3 l/ha	All managed amenity turf, including all areas of golf courses, bowling greens, sports turf and amenity grassland

Formulation spot on for turf application

The HEADWAY formulation is better for turf and for sprayer operators.

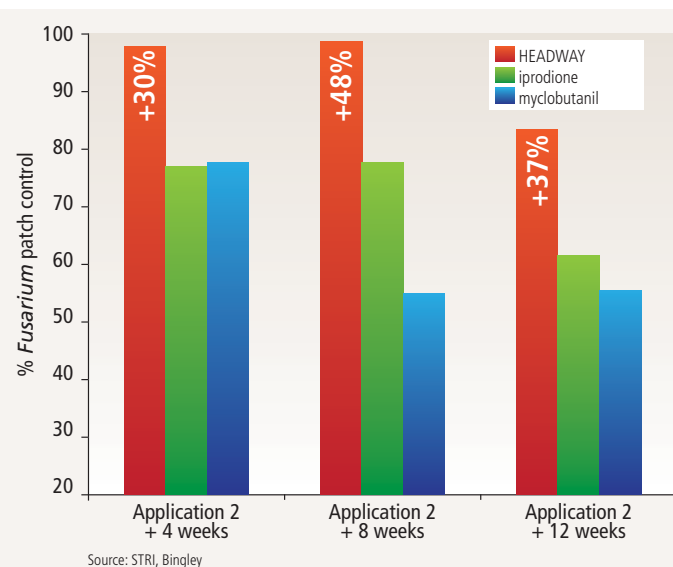
The formulation creates significantly smaller particles, resulting in faster uptake by the leaf and easier movement through the plant:

- Targets disease more effectively
- Continually redistributes active through the leaf to protect new growth
- Systemic movement replenishes fungicide protection after mowing

Proven Performance

HEADWAY has been extensively tried and tested on high quality turf at the state of the art Syngenta turf research facility, as well as by independent researchers and turf managers at prestigious golf and sports turf facilities across the UK.

STRI trials at Bingley in Yorkshire showed HEADWAY to be an outstandingly effective treatment for *Fusarium*, with incredibly persistent results, weeks after application. HEADWAY delivered significantly greater levels of disease control, which lasted far longer than other fungicides.



HEADWAY has performed outstandingly in trials, with up to 48% better disease control than the average of these comparative fungicides.

HEADWAY achieved virtually 100% control over four weeks after application, and was still achieving over 80% control more than twelve weeks after application.

In Michigan State University fungicide trials, leading US turf researcher, Dr Joe Vargas reports HEADWAY treatments as being "especially efficacious".

Rapid uptake into the leaf with the majority of the product absorbed **within one hour of application** reduces the risk of HEADWAY being washed off by rain – ensuring maximum use by the plant and minimal environmental loss.

The HEADWAY formulation is extremely turf safe – with less risk of turf damage or discolouration and reducing stress on plants.

For sprayer operators the HEADWAY formulation ensures:

- Easier mixing
- Virtually no odour
- Clear spray solution for clean leaves
- No clogging of filters
- Simple one-can solution for twin-action disease control

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