

syngenta

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FUNGICIDE GROUP SWAMDODERGROUP Active ingredients: Azoxystrobin (Strobilurin) 62 g/ℓ Propiconazole (Triazole)

A micro emulsion concentrate fungicide for the preventive, broad spectrum control of various diseases in lawn and turf grasses, sports fields and recreational areas.

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UN 3082

Date of Manufacture











#### **WARNINGS:**

- This product should only be used under supervision of registered members of the Golf Course Managers and Greenkeepers Association or registered Turf Grass **Pest Control Operators.**
- Read safety directions before opening or using.
- Harmful if swallowed or inhaled.
- Toxic to fish and other aquatic life.
- Avoid contact with skin or eyes since product may cause eye and skin irritation.
- Store away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- Do not feed **HEADWAY MAXX** treated grass clippings to
- **HEADWAY MAXX** is extremely phytotoxic to certain apple varieties.
- Do not apply **HEADWAY MAXX** where spray drift can contaminate apple trees.
- Do not spray when conditions favour drift beyond the area intended for application.
- Conditions that may contribute to drift include thermal inversions, excessive wind speed, certain sprayer nozzle or pressure combinations, small spray droplet size, etc.

## WITHHOLDING PERIOD:

Do not graze treated turf/lawn or feed turf/lawn clippings from any treated area to poultry or livestock.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the disease against the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment, or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

### PRECAUTIONS:

- Not to be used for any purpose, or in any manner, contrary to this label unless authorised under appropriate legislation.
- DO NOT apply using spraying equipment carried on the back
- Change and wash your work clothes. Wash yourself.

# Safety directions:

Prevent contamination of food, feed, drinking water and eating utensils.

- Do not eat, drink or smoke whilst handling this product.
- DO NOT inhale spray mist. Harmful if inhaled.
- Avoid contact with skin and eyes. Will irritate the eyes. In case of accidental eye contact, flush the eyes with clean
- In case of accidental skin contact, immediately wash the skin with clean water.
- When opening the container, preparing the product for use and using the product, wear: Cotton overalls buttoned to the neck and wrist (or equivalent clothing); Elbow-length chemical resistant gloves and face shield or
- If applying by hand, wear: Cotton overalls buttoned to the neck and wrist over normal clothing; elbow-length chemical resistant gloves; face shield or goggles and half face piece respirator with organic vapour/gas cartridge or canister.
- Wash hands after use and wash yourself.
- After each day's use wash gloves, respirator (if rubber, wash with detergent and warm water), face shield or goggles and contaminated clothing.
- In case of accidental contact with clothing, remove your clothing and wash the clothing and yourself immediately.
- While spraying, avoid contact with the spray as much as you
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or

FIRST AID: If poisoning occurs contact a doctor or the Tygerberg Poison Information Centre at 0861 555 777.

In case of intoxication, have the product container and label with you when calling a poison control center or doctor, or going for treatment.

### NOTE TO PHYSICIAN:

There is no specific antidote available. Treat symptomatically and do not induce vomiting.

### Re-entry Periods:

DO NOT allow entry into treated areas until the spray has dried for low exposure activities (such as mowing).

# Transplanting and hand weeding:

DO NOT allow entry into treated areas for 30 days after application for high exposure activities (such as transplanting or hand weeding) unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

# Protection of livestock:

DO NOT graze treated turf/lawn or feed turf/lawn clippings from any treated area to poultry or livestock.

# Protection of wildlife, fish, crustaceans and environment:

HIGHLY TOXIC TO AQUATIC LIFE

- DO NOT contaminate dams, waterways or drains with the chemical or used containers.
- DO NOT apply under meteorological conditions or from spraying equipment that could be expected to cause spray drift on adjacent areas, particularly wetlands, waterbodies or watercourses.
- DO NOT apply when heavy rains or storms are expected within 4 hours of application to avoid contamination of aquatic environments.

### Storage and disposal:

- Store in the closed, original container in a cool, well-ventilated area
- DO NOT store for prolonged periods in direct sunlight.
- Triple or preferably pressure rinse containers before disposal.
   Add rinsings to spray tank.
- Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container.
- DO NOT dispose of undiluted chemicals on site.
- Destroy empty container and do not use for any other purpose.
- If recycling, replace cap and return clean containers to recycler or designated collection point.
- If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

#### 3. RESISTANCE MANAGEMENT:

**HEADWAY MAXX** is a combination of a member of the DMI and Quinone outside inhibitors (Qols) groups of fungicides. For fungicide resistance management, **HEADWAY MAXX** is both a Group 3 and Group 11 fungicide. Any fungus population may contain individuals naturally resistant to **HEADWAY MAXX** and other Group 3 and/or Group 11 fungicides. These resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly and exclusively in programs. These resistant fungi may not be controlled by **HEADWAY MAXX** or any other Group 3 and/or Group 11 fungicides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use, Syngenta Crop Protection Pty Ltd accepts no liability for any losses that may result from the failure of **HEADWAY MAXX** to control resistant fungi. Fungicides belonging to Group 3 and/or Group 11 should not exceed 1/3 of the total number of fungicide applications for a season.

### To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with products from different fungicide group codes.
- Refer to individual product labels when alternating products or when using tank mixtures with products in fungicide group codes 7, 27, 28, 29, 30 and M.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.
- HEADWAY MAXX should always be applied as a preventative treatment.
- Apply HEADWAY MAXX in blocks of two consecutive sprays and then alternate with fungicides in a different chemical class. The total number of HEADWAY MAXX applications must not exceed 30 % of the total number of fungicide applications to the same target area per season. During the dry season of the year, no HEADWAY MAXX applications should be made for at least three months.
- When diseases like Grey leaf spot and *Pythium* spp. are
  present do not make more than 2 sequential applications of
  HEADWAY MAXX. When other diseases are present, but in
  the absence of Grey leaf spot and *Pythium* spp., HEADWAY
  MAXX can be sprayed in blocks up to 3 sequential sprays.
- HEADWAY MAXX should never be alternated or used in the same program as other strobilurins or similar chemistry e.g. trifloxystrobin, pyraclostrobin, famoxadone, kresoxim-methyl and fenamidone.

For specific information on resistance management contact the registration holder of this product (Syngenta South Africa) or visit the FRAC website at http://www.frac.info/frac/index.html.

### 4. DIRECTIONS FOR USE:

#### 4.1 Restraints:

- DO NOT use this product in the home garden.
- DO NOT apply by aerial application methods.
- DO NOT use this product through any type of irrigation system or ultra-low volume spray system.
- DO NOT apply to turf under heat or moisture stress.

### 4.2 Compatibility:

- HEADWAY MAXX is compatible with most pesticides and foliar fertilisers used in turf management. However, compatibility tests should always be done prior to mixing HEADWAY MAXX with any of these remedies.
- The following procedure should be followed: Pour the recommended portions of the products into a suitable container with water and mix thoroughly. Allow to stand for at least 20 minutes. If the mixture remains in suspension or can be remixed readily, the mixture could be considered to be physically compatible.
- Products should be added to the spray tank in the following sequence as applicable: the recommended rate of HEADWAY MAXX, other WG formulations, dry flowable formulations, wettable powder formulations and flowable formulations.

### 4.3 Mixing instructions:

- Add the required amount of product directly to the spray tank and mix well. HEADWAY MAXX is a micro emulsion concentrate (MEC) with minimal odour, because the product does not contain petroleum solvents.
- HEADWAY MAXX mixes completely with water and may be tank mixed with many commonly used fungicides and liquid fertilisers.

# 4.4 Spray drift management:

 Spray drift management is the responsibility of the spray operator. Since drift to apple trees is of utmost importance, extreme care should be taken to avoid drift to this crop.

### 4.5 Rainfastness:

- There is no concern with regard to rainfastness on turfgrass.
   If the chemical is washed off from the foliage, it will pass into the thatch area where pathogens tend to reside until conditions are favourable for the development of the disease.
- If the chemical does get to the soil, it will be taken up by the roots and translocated to the foliage due to its systemic activity. However, irrigation should not commence within at least two hours after application except if it is the purpose of the irrigation to wash **HEADWAY MAXX** into the soil or thatched area.

# 4.6 Application:

- Ensure even application in order to achieve even disease control. Avoid overlapping sprays.
- Leaf and Crown Diseases: Application volume for leaf and crown infecting diseases (Anthracnose, Brown Patch, Dollar Spot, Grey Leaf Spot, Helminthosporium diseases, Pythium Blight, Red Thread 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 350 to 500 l/ha.
- Root Diseases: Application volumes for root infecting diseases (Brown Patch, Couchgrass Decline, Pythium Root Rot, Spring Dead Spot and Take-all Patch) should be as high as possible (approximately 1000 l/ha) to ensure placement close to the soil surface. When lower application volumes are used, washing in should commence as soon as possible after application.

### **Ground application:**

• Apply in 800 - 1 000  $\ell$  water/ha as a preventative treatment

- as soon as weather conditions change and/or conditions for disease development becomes favourable.
- Apply at intervals as indicated in the recommendations table applicable to each disease.
- Do not restrict application to infected areas only, also apply to non-infected surrounding areas.
- Do not apply HEADWAY MAXX with any type of irrigation system or any ULV water application system.

# 5. RECOMMENDATIONS: U

Use only as indicated.

CROP / DISEASE	DOSAGE
TURF	
Anthracnose (Colletotrichum graminicola) Brown Patch (Rhizoctonia solani) Helminthosporium Disease	8
(Bipolaris spp.) (Drechslera spp.) (Exserohilum spp.) Red Thread (Laerisaria fuciformis) Winter Fusarium (Microdochium Patch) (Fusarium nivale)	9 l/ha or 90 ml/100 m²
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#### REMARKS:

- Use preventatively.
- Begin applications before symptoms occur when conditions favour disease development and continue applications while conditions remain favourable for disease development using registered fungicides.
- Do not apply more than 2 consecutive HEADWAY MAXX applications at 28-day intervals for all diseases.

TURF	
Dollar Spot (Sclerotinia homeocarpa)	9 l/ha or 90 ml/100 m²

### **REMARKS:**

- Use preventatively.
- Begin applications before symptoms occur when conditions first favour disease and continue applications while conditions remain favourable for disease development using **Dollar Spot** fungicides.
- Do not apply more than 2 consecutive HEADWAY MAXX applications at 21-day intervals for Dollar Spot.

TURF		26,,
Fairy Ring (Lycoperdon spp.) (Agrocybe pediades) (Bovistra plumbea)	5)1	9 l/ha or 90 ml/100 m²

### **REMARKS:**

- Apply as soon as symptoms develop.
- Fairy Ring may take 2 to 3 weeks to disappear following application.
- If the area is hydrophobic, use wetting agents and irrigate prior to applications of **HEADWAY MAXX**.
- Re-application after 28 days may be required in some cases.

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TURF	
Grey Leaf Spot (Pyricularia grisea)	9 l/ha or 90 ml/100 m²

## **REMARKS:**

- Use preventatively.
- Begin applications before symptoms occur when conditions first favour disease and continue applications while conditions remain favourable for disease development using Grey Leaf Spot fungicides.

CROP / DISEASE	DOSAGE
TURF	<u>®</u>
Leaf-, Stem- & Stripe Rust	
(Puccinia spp.)	
Leaf Spot	
(Bipolaris sorokiniana)	
Melting Out	9 l/ha or 90 ml/100 m <sup>2</sup>
(Drechslera poae)	
Microdochium Patch (Fusarium	
Patch)	
(Microdochium nivale)	
Powdery Mildew	
(Erysiphe graminis)	

#### **REMARKS:**

- Use preventatively.
- Begin applications before symptoms occur when conditions first favour disease.

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TURF	®
Pink Snow Mould	9 l/ha or 90 ml/100 m <sup>2</sup>
(Microdochium nivale)	

### **REMARKS:**

- Make 2 sequential applications 10 28 day apart in late autumn.
- Tank mixing with another Pink Snow Mould fungicide, from different fungicide group, may enhance control under severe disease pressure.

TURF	110
Pythium Leaf Blight, Pythium Root Rot & Seedling Damping	9 l/ha or 90 ml/100 m <sup>2</sup>
<b>Off</b> ( <i>Pythium</i> spp.)	

### REMARKS:

- Use preventatively.
- Begin applications before symptoms occur when conditions first favour disease and continue applications while conditions remain favourable for disease development using registered **Pythium** fungicides.
- Do not apply more than 2 consecutive HEADWAY MAXX applications at 14 to 21 day intervals for Pythium control.
- In high pressure curative situations use a suitable curative fungicide first and then follow up with HEADWAY MAXX.

TURF	(15)
Spring Dead Spot (Ophiosphaerella narmari)	
Take-all Patch (Gaeumannomyces graminis var	9 l/ha or 90 ml/100 m²
avenae) Couchgrass Decline	
(Gaeumannomyces graminis var graminis)	9)

# **REMARKS:**

- Apply preventatively in autumn and repeat application 30 days later.
- DO NOT renovate treated greens until active growth has commenced in spring.
- In spring, apply after renovation and recovery of active growth.
- Repeat application 30 days later.

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