

GROUP 3 | 11 FUNGICIDES



# Headway®

PULL HERE TO OPEN ►

syngenta®

## Fungicide

Broad-spectrum fungicide for control of turf diseases

*Active Ingredients:*

Azoxystrobin: methyl (E)-2-[2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate* . . . . .	5.73%
Propiconazole: (CAS No. 60207-90-1) . . . . .	9.54%

*Other Ingredients:* . . . . . 84.73%

*Total:* . . . . . 100.00%

Headway® is an emulsifiable concentrate formulation that contains 0.868 lb of propiconazole and 0.521 lb of azoxystrobin per gallon.

\*IUPAC

**Chemigation**

Do not apply this product through any irrigation/chemigation system.

**1 gallon**  
Net Contents

**KEEP OUT OF REACH OF CHILDREN. CAUTION**

See additional precautionary statements and directions for use inside booklet.

Reformulation is prohibited. See individual container labels for repackaging limitations.

**EPA Reg. No. 100-1216**

**EPA Est. 39578-TX-1**

**Product of USA**

**Formulated in the USA**

**SCP 1216A-L1G 0216**

**4063711**



<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<p><b>HOTLINE NUMBER</b>  For 24-Hour Medical Emergency Assistance (Human or Animal) or  Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),  Call  <b>1-800-888-8372</b></p>	

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

#### CAUTION

HARMFUL IF SWALLOWED. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

### Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below.

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber
- Shoes plus socks
- Protective eyewear such as goggles or face shield

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

### **User Safety Recommendations**

#### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside, then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **Environmental Hazards**

Azoxystrobin can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

This product is toxic to fish and shrimp (aquatic invertebrates). Do not apply directly to water. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

Notify state and/or Federal authorities and Syngenta immediately if you observe any adverse environmental effects due to use of this product.

## **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Plant injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or turf conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.**

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL USES

For use to control diseases on turf on Sod Farms

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Exception: if product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.**

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- Coveralls
- Shoes and socks
- Chemical-resistant gloves made of any waterproof material

## **NON-AGRICULTURAL USES**

For use to control diseases on turf on golf courses, lawns and landscape areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. The area being treated must be vacated by unprotected persons.

Do not treat areas while unprotected humans or domestic animals are present in the treatment areas. Because certain states may require more restrictive reentry intervals, consult your State Department of Agriculture for further information.

Do not allow entry into treatment area until area that was treated with Headway is dry.

## **PRODUCT INFORMATION**

Headway is a combination of two broad-spectrum, preventative fungicides with systemic properties recommended for the control of many important turfgrass diseases. Headway may be applied as a foliar spray in alternating spray programs or in tank mixes with other registered turf protection products. All applications must be made according to the use directions that follow.

Headway is a member of Syngenta's Plant Performance™ product line that can improve plant vigor and quality. The additional benefits are due to positive effects on plant physiology, which can vary according to plant species and growing environment.

## **PRODUCT USE PRECAUTIONS**

**DO NOT** graze or feed clippings from treated turf areas to animals.

**DO NOT** apply Headway to turf by air.

Headway has demonstrated some phytotoxic effects when mixed with products that are formulated as EC's. These effects are enhanced if applications are made under cool, cloudy conditions and these conditions remain for several days following application. In addition, adjuvants that contain some form of silicone have also contributed to phytotoxicity.

#### **INTEGRATED PEST (DISEASE) MANAGEMENT**

Headway should be integrated into an overall disease and pest management strategy whenever the use of a fungicide is required. Cultural practices known to reduce disease development should be followed. The **SPECIFIC USE DIRECTIONS** section in this label identifies specific IPM recommendations. Consult your local turf authority for additional IPM strategies established for your area. Headway may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

#### **RESISTANCE MANAGEMENT**

##### **GROUP 3 | 11 FUNGICIDES**

Headway is a mixture of a Group 3 (propiconazole) and a Group 11 (azoxystrobin) fungicide. Headway has two modes of action: (1) DMI (Demethylation Inhibitor of sterol biosynthesis) [Group 3], and (2) inhibitor of the Qo (quinone outside) site within the electron transport system (Qol) as well as disrupting membrane synthesis by blocking demethylation [Group 11]. Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Headway is not cross-resistant with other classes of fungicides which have different modes of action. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for turf in your area. Consult your local or State turf authorities for resistance management strategies that are complementary to those in this label.

Resistance management strategies may include rotating and/or tank-mixing with products having different modes of action or limiting the total number of applications per season. Avoid alternation with other Qols, such as pyraclostrobin and trifloxystrobin or other DMI's such as triadimefon, fenarimol, and myclobutanil. Headway should not be alternated or tank mixed with fungicides to which resistance has already developed. Continual use of Headway may allow less sensitive strains of pathogens to increase in the population and reduce the efficacy of Headway. Syngenta encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label.



Use of a multiple-site contact fungicide such as Daconil as an alternation or tank-mix partner can help alleviate selection pressure on pathogens and delay the onset of resistance. However, DO NOT use Daconil or other products containing chlorothalonil on home lawns or turf sites associated with apartment buildings, daycare centers, playgrounds, playfields, recreational park athletic fields, athletic fields located on or next to schools (i.e., elementary, middle and high schools), campgrounds, churches and theme parks.

Since pathogens differ in their potential to develop resistance to fungicides, the **SPECIFIC USE DIRECTIONS** section in this label provides resistance management strategies specific for each disease.

#### **SPRAYING/MIXING**

Do not apply Headway to turf by air.

Headway may be applied with all types of spray equipment commonly used for making ground applications. Do not apply Headway through any type of ultra-low-volume (ULV) spray system (less than 3 gal/A). Proper adjustments and calibration of spraying equipment to give good canopy penetration and coverage is essential for good disease control. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when disease-conducive environmental conditions exist.

Apply Headway in sufficient water volume for adequate coverage.

### **SPRAY DRIFT MANAGEMENT**

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

#### Wind Speed

Do not apply at wind speeds greater than 15 mph.

#### Droplet Size

Apply as a medium or coarser spray (ASAE Standard 572).

#### Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

#### Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of propiconazole. Where states have more stringent regulations, they must be observed.

#### Equipment

All application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

*Additional requirement for groundboom application:*

1. Do not apply with a nozzle height greater than 4 feet above the crop canopy.

#### **ATTENTION**

Bermudagrass can be sensitive to Headway. Do not exceed 3 fl oz per 1,000 sq ft every 30 days on any variety of bermudagrass. In FL, do not apply Headway to bermudagrass golf course greens when temperatures exceed 90°F.

Headway is extremely phytotoxic to certain apple varieties.

AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees (and apple fruit).

DO NOT spray Headway where spray drift may reach apple trees.

DO NOT spray when conditions favor drift beyond area intended for application. Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your State extension agent for spray drift prevention guidelines in your area.

DO NOT use spray equipment which has been previously used to apply Headway to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity to certain apple and crabapple varieties.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

Do not apply when weather conditions favor drift from treated areas to non-target aquatic habitat.

## APPLICATION INSTRUCTIONS

Apply Headway at rates and timings as described in this label.

## MIXING INSTRUCTIONS

To prepare spray solution, partially fill the spray tank with clean water and begin agitation. Add the specified amount of Headway to the tank, allowing time for good dispersion, then add an adjuvant, if recommended. If tank mixes are required, product should be added to the spray tank in the following order: Headway, wettable granular or dry flowable formulations, wettable powders and flowable (aqueous suspensions) products. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation throughout the spraying operation. Do not allow spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use. Sprayers should be thoroughly cleaned immediately after application. Do not use silicone-based products with Headway due to possible phytotoxicity.

**If spray-tank mixture is unsprayed for more than 18 hours (overnight), re-suspend product with agitation for 20 minutes.**

Headway is compatible with many commonly used fungicides, liquid fertilizers, herbicides, insecticides and biological control products. If tank mixes are desired, observe all directions, precautions, and limitations on labeling of all products used.

Consult compatibility charts or your local or State turf authority for compatibility information. Do not combine Headway in the spray tank with pesticides, surfactants, or fertilizers unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective, and non-injurious under your conditions of use. If physical compatibility is unknown, the following procedure should be followed: Pour the recommended proportions of the products into a suitable container of water, mix thoroughly and allow it to stand at least twenty (20) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible.

## SPECIFIC USE DIRECTIONS

Headway controls listed pathogens that cause foliar, stem, and root diseases, including leaf and stem blights, leaf spots, patch diseases, mildews, anthracnose, fairy rings, molds, and rusts of turfgrass plants. Headway may be used to control certain diseases on turf in golf courses, lawns and landscape areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

**Integrated Pest (Disease) Management (IPM):** Sound turf management resulting in healthy, vigorous turf is the foundation of a good IPM program. Cultural practices such as proper choice of turf variety, nutrient management, proper cutting height, thatch management, and proper watering, drainage, and moisture stress management should be integrated with the use of fungicides to increase turf vigor and reduce the susceptibility to disease. Immunoassay detection kits and extension service diagnostic services can assist in the early and accurate identification of causal organisms and corresponding selection of the proper fungicide when required.

**Application Directions:** Headway should be applied prior to disease development. Mix Headway with the required amount of water and apply as a dilute spray application in 2-4 gallons of water per 1,000 sq ft (87-174 gal/A). Repeat applications at specified intervals for as long as required. For spot treatments, use 1.5 fl oz Headway per 1 to 2 gallons of water. Do not apply more than 8.1 gallons product per acre per year (23.75 fl oz product per 1,000 sq ft per year). Applications may be made by ground only.

**For use with soil injection applications:**

Headway may be applied through a liquid fungicide injector for the control of ectotrophic root diseases such as summer patch and take-all patch. Use Headway only in liquid injection equipment specifically designated for pesticide use.

Apply Headway at 1.5-3 fl oz per 1,000 sq ft. Spray carrier volume should fall within 30-150 gallons of water per 1,000 sq ft. Injection hole spacing of 1 inch by 1 inch is recommended for optimum control. Injection depth should be no greater than 2 inches. One inch depth is recommended for optimum results. Application timing should follow disease control strategies used for normal broadcast spray programs.

**For use in the establishment of turfgrass from seed or in overseeding of dormant turfgrass:**

Headway may be used for control of certain turfgrass diseases associated with turfgrass establishment from seed. Headway may also be used during overseeding of dormant turfgrass.

Headway may be safely applied before or after seeding or at seedling germination and emergence to ryegrass, bentgrass, bluegrass, and fescue turfgrass types. Optimum application timing is during seeding. See **Application Directions** section.

**Rate Ranges:** Use the shorter specified application interval and/or use the higher specified rate when prolonged favorable disease conditions exist.

## DIRECTIONS FOR APPLICATION FOR TURF DISEASES

Target Diseases	Use Rate (fl oz product per 1,000 sq ft)	Application Interval (days)	Remarks*
Anthracnose ( <i>Colletotrichum cereale</i> ) (formerly known as <i>C. graminicola</i> )	1.5-3	14-28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development. The maximum application interval for greens is 14 days.
Bentgrass Dead Spot ( <i>Ophiosphaerella agrostis</i> )	1.5-3	14	Begin applications prior to disease development.
Brown Patch ( <i>Rhizoctonia solani</i> )	0.75-1.5	14	For higher cut cool season turfgrass, St. Augustinegrass and centipedegrass (fairways, lawns, sodfarms, etc. above 0.375 inch in height): Apply when conditions are favorable for disease development
Brown Patch ( <i>Rhizoctonia solani</i> ) and other Rhizoctonia ( <i>R. spp.</i> ) diseases such as Large Patch, Zoysia Patch, Leaf & Sheath Spot ( <i>R. zea</i> )	1.5-3	14-28	For Brown Patch, apply when conditions are favorable for disease development.  For Large Patch of all warm-season turfgrasses, make 1 or 2 applications in the fall prior to infection or when conditions are favorable for infection.  For Zoysia Patch, make 1 or 2 applications approximately one month prior to zoysiagrass dormancy. Reapply 14 to 28 days later.  For Leaf & Sheath Spot ( <i>R. zea</i> ), apply when conditions are favorable for infection such as sequential or periods of temperatures at or above 90 degrees Fahrenheit. Curative control may necessitate several applications. Target spray applications at crown of turfgrass.

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Target Diseases	Use Rate (fl oz product per 1,000 sq ft)	Application Interval (days)	Remarks*
Cool-Weather Brown Patch Yellow Patch ( <i>Rhizoctonia cerealis</i> )	3	28	Make 1 or 2 applications in fall or when conditions are favorable for disease development.
Dichondra Rust ( <i>Puccinia dichondrae</i> )	3	14-21	Apply when conditions are favorable for disease development.
Dollar Spot ( <i>Sclerotinia homoeocarpa</i> )	0.75-1.5	14	Apply preventatively on higher cut cool-season turfgrass (fairways, lawns, etc. mowed at or above 0.375 inch in height) during periods of low to moderate disease pressure.
Dollar Spot ( <i>Sclerotinia homoeocarpa</i> )	1.5-3	14-28	Apply preventatively when conditions are favorable for disease development. For non-residential turf with active dollar spot, use the higher rate and combine with Daconil.
Fairy Ring ( <i>Lycoperdon</i> spp., <i>Agrocybe pediades</i> , and <i>Bovista plumbea</i> )	1.5-3	14-28	Apply as soon as possible after fairy ring symptoms develop. Apply in 2-4 gallons of water per 1,000 sq ft. Add the recommended rate of a wetting agent to the final spray. Severely damaged or thin turf may require reseeded. Fairy ring symptoms may take 2 to 3 weeks to disappear following application. If area is hydrophobic, use wetting agents and irrigate prior to application(s) of Headway. Reapplication after 28 days may be required in some cases.
Gray Leaf Spot ( <i>Pyricularia grisea</i> )	1.5-3	14-28	Use Headway in a preventative disease control program. Begin applications before disease is present and alternate with other fungicide chemistries that control gray leaf spot.

Target Diseases	Use Rate (fl oz product per 1,000 sq ft)	Application Interval (days)	Remarks*
Gray Snow Mold Typhula Blight ( <i>Typhula incarnata</i> )	3	14-28	Make two applications of 3 fl oz spaced 14-28 days apart in late fall just before snow cover. Tank mixing with another snow mold fungicide, such as Daconil and Medallion, may enhance control under severe disease pressure.
Leaf Rust Stem Rust Stripe Rust ( <i>Puccinia</i> spp.)	1.5-3	14-28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Leaf Spot ( <i>Bipolaris sorokiniana</i> )	1.5-3	14-21	Apply when conditions are favorable for disease development.
Melting Out ( <i>Drechslera poae</i> )	1.5-3	14-21	Apply when conditions are favorable for disease development.
Microdochium Patch (formerly known as Fusarium Patch) ( <i>Microdochium nivale</i> )	1.5-3	14-28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Necrotic Ring Spot ( <i>Ophiosphaerella korrae</i> )	3	14-28	Apply when conditions are favorable for disease development.
Pink Patch ( <i>Limonomyces roseipellis</i> )	1.5-3	14-28	Apply when conditions are favorable for disease development.

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Target Diseases	Use Rate (fl oz product per 1,000 sq ft)	Application Interval (days)	Remarks*
Pink Snow Mold ( <i>Microdochium nivale</i> )	3	14-28	Make two applications of 3 fl oz spaced 14-28 days apart in late fall just before snow cover. Tank mixing with another snow mold fungicide, such as Daconil and Medallion, may enhance control under severe disease pressure.
Powdery Mildew ( <i>Erysiphe graminis</i> )	1.5-3	14-28	Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Pythium Blight Pythium Root Rot ( <i>Pythium</i> <i>aphanidermatum</i> , <i>Pythium</i> spp.)	3	14	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development. During periods of prolonged favorable conditions, treat on the 14-day application interval. For use on newly seeded as well as established turf.
Pythium Root Dysfunction ( <i>Pythium volutum</i> )	3	21-28	Apply preventatively when mean daily soil temperatures are between 55 F and 70 F. Irrigate with 0.1 to 0.2 inches within 24 hours after application to facilitate movement into the root zone.
Red Thread ( <i>Laetisaria fuciformis</i> )	1.5-3	14-28	Apply when conditions are favorable for disease development.
Southern Blight ( <i>Sclerotium rolfsii</i> )	1.5-3	14-28	Apply when conditions are favorable for disease development.
Spring Dead Spot ( <i>Ophiosphaerella</i> <i>korrae</i> or <i>Ophiosphaerella</i> <i>narmari</i> or <i>Ophiosphaerella</i> <i>herpotricha</i> )	3	14-28	Apply 1 or 2 applications approximately one month prior to bermudagrass dormancy. 1/4" to 1/2" of irrigation directly after application is recommended. Reapply 14 to 28 days later.

Target Diseases	Use Rate (fl oz product per 1,000 sq ft)	Application Interval (days)	Remarks*
Summer Patch ( <i>Magnaporthe poae</i> )	1.5-3	14-28	Apply when conditions are favorable for disease development. Initiate applications when soil temperatures reach 65°F at a 2 inch soil depth.
Take-all Patch ( <i>Gaeumannomyces graminis</i> var. <i>avenae</i> )	3	28	Begin applications when conditions are favorable for disease infection prior to disease symptom development. Make two applications 28 days apart in the spring and two applications 28 days apart in the fall.

\*Do not apply more than two sequential applications of Headway for control of Gray Leaf Spot and Pythium diseases. For all other diseases when Gray Leaf Spot and Pythium diseases are not present, do not apply more than three sequential applications of Headway.

#### Headway Rate Conversion Chart for Turf

Fl Oz Product* Per 1,000 Sq Ft	Pints Product Per Acre	Gallons Product Per Acre
0.75	2.0	0.26
1.0	2.7	0.34
1.5	4.0	0.51
2.0	5.4	0.68
2.5	6.8	0.85
3.0	8.2	1.02

\*One fluid ounce of Headway contains 0.1088 ounces (weight) propiconazole and 0.0656 ounces (weight) azoxystrobin.

### Amount of Headway for Turf Applications per 100 Gallons

Spray volume: 2 gal/1,000 sq ft

Headway Use Rate (fl oz/1,000 sq ft)	Pints of product/100 gal
0.75	2.3
1.0	3.1
1.5	4.7
2.0	6.2
2.5	7.8
3.0	9.4

Spray volume: 3 gal/1,000 sq ft

Headway Use Rate (fl oz/1,000 sq ft)	Pints of product/100 gal
0.75	1.5
1.0	2.1
1.5	3.0
2.0	4.1
2.5	5.2
3.0	6.2

Spray volume: 4 gal/1,000 sq ft

Headway Use Rate (fl oz/1,000 sq ft)	Pints of product/100 gal
0.75	1.15
1.0	1.55
1.5	2.25
2.0	3.1
2.5	3.9
3.0	4.65

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

### Pesticide Storage

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop up and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

### Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

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## **STORAGE AND DISPOSAL (continued)**

### **Container Handling [less than 5 gallons]**



Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling [greater than 5 gallons]**

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling [greater than 5 gallons]**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Headway®, the ALLIANCE FRAME   
the SYNGENTA Logo and the PURPOSE ICON   
are Trademarks of a Syngenta Group Company  
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For non-emergency (e.g., current product information), call  
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

**SCP 1216A-L1G 0216**  
**4063711**

GROUP 3 11 FUNGICIDES

# Headway® Fungicide

Broad-spectrum fungicide for control of turf diseases

Active Ingredients:	
Azoxystrobin: methyl (E)-2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl)-3-methoxyacrylate*	5.73%
Propiconazole: (CAS No. 60207-90-1)	9.54%
Other Ingredients:	84.73%
Total:	100.00%

Headway® is an emulsifiable concentrate formulation that contains 0.868 lb of propiconazole and 0.521 lb of azoxystrobin per gallon.

\*IUPAC

See additional precautionary statements and directions for use inside booklet.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR, part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Reformulation is prohibited. See individual container labels for repackaging limitations.

**Chemigation:** Do not apply this product through any irrigation/chemigation system.

EPA Reg. No. 100-1216 EPA Est. 39578-TX-1

# 1 gallon

Net Contents

## KEEP OUT OF REACH OF CHILDREN.

## CAUTION

Precautionary Statements  
Hazards to Humans and Domestic Animals

### CAUTION

**HARMFUL IF SWALLOWED.** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

### FIRST AID

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. **If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**HOTLINE NUMBER:** For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372.

### Environmental Hazards

Azoxystrobin can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

This product is toxic to fish and shrimp (aquatic invertebrates). Do not apply directly to water. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous

to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

Notify state and/or Federal authorities and Syngenta immediately if you observe any adverse environmental effects due to use of this product.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop up and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

**Container Handling:** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

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