

10/19/2012



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

Thomas J. Parshley
Senior Regulatory Product Manager
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, NC 27419-8300

OCT 19 2012

Product Name: Headway® G
EPA Reg. No.: 100-1378
Subject: Your amendment dated June 13, 2012
OPP Decision Number: 466678

Dear Mr. Parshley:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following changes are made:

1. On page 6 in the third line under the header **USE INFORMATION** change "...applications should be made...." to "...applications must be made...."
2. On page 13 in the table entry for 2.5 Lb. Product per 1000 Sq. Ft. change the entry in column 6 from "0.81" to "0.82"
3. On page 13 in the table entry for 3.5 Lb. Product per 1000 Sq. Ft. change the entry in column 3 from "0.0105" to "0.0109"
4. On page 13 in the table entry for 3.5 Lb. Product per 1000 Sq. Ft. change the entry in column 6 from "1.15" to "1.14"

One copy of the label stamped "Accepted with comments" is enclosed for your records. Please submit one copy of the final printed label that incorporates the required changes before the product is released for shipment.

If you have any questions, please contact Robert Westin by phone at (703) 305-5721 or via email at westin.robert@epa.gov.

Sincerely,

151

Cynthia Giles-Parker
Acting Product Manager (20)
Fungicide Branch
Registration Division (7504P)

Enclosure

Ground Water Advisory

The active ingredient, azoxystrobin, in this product can be persistent for several months or longer. Azoxystrobin is known to leach through soil to ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

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. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, 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.

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 G is dry.

USE INFORMATION

Headway G is a combination of two broad-spectrum, preventative fungicides with systemic properties recommended for the control of many important plant diseases. All applications should be made according to the use directions that follow.

USE PRECAUTIONS AND RESTRICTIONS

Do not graze or feed clippings from treated turf areas to animals.

Do not apply more than 19.2 lb. product/1000 sq. ft./calendar year. Applications may be made by ground only.

ATTENTION

Headway G is extremely phytotoxic to certain apple varieties.

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

DO NOT spread Headway G where granules may reach apple trees.

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

INTEGRATED PEST (DISEASE) MANAGEMENT

Headway G 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 **DIRECTIONS FOR USE** section in this label identifies specific IPM recommendations for each crop. Consult your local agricultural, turf authorities for additional IPM strategies established for your area. Headway G 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

Headway G is a mixture of a Group 3 (propiconazole) and a Group 11 (azoxystrobin) fungicide. Headway G 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 (quinone outside inhibiting) 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 G 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 or alternating with products having different modes of action or limiting the total number of applications per season. Avoid alternation with other QoIs, such as pyraclostrobin and trifloxystrobin or other DMI's such as triadimefon, fenarimol, and myclobutanil. Headway G should not be alternated with fungicides to which resistance has already developed. Continual use of Headway G may allow less sensitive strains of pathogens to increase in the population and reduce the efficacy of Headway G. Syngenta Crop Protection encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label.

Follow the crop specific resistance management recommendations in the directions for use.

If no resistance recommendation on the number of applications is specified in the directions for use, follow the recommendations in the table below.

If planned total number of fungicide applications per crop is:	1	2	3	4	5	6	7	8	9	10	11	12
Recommended Solo Qol fungicide applications	1	1	2	2	2	2	2	3	3	3	3	4
Recommended Qol fungicide applications in mixture (formulated)	1	2	2	2	2	3	3	4	4	5	5	6

In situations requiring multiple applications, develop season-long programs for Group 11 (QoI) fungicides. In crops where two sequential Group 11 fungicide applications are made, they should be alternated with two or more applications of a fungicide that is not in Group 11. If more than 12 applications are made, observe the following guidelines:

- When using a Qol fungicide as a solo product, the number of applications should be no more than $\frac{1}{3}$ (33%) of the total number of fungicide applications per season.
- For Qol mixes in programs in which tank mixes or premixes of Qol with mixing partners of a different mode of action are utilized, the number of Qol containing applications should be no more than $\frac{1}{2}$ (50%) of the total number of fungicide applications per season.
- In programs in which applications of Qol are made with both solo products and mixtures, the number of Qol containing applications should be no more than $\frac{1}{2}$ (50%) of the total number of fungicides applied per season.

DIRECTIONS FOR APPLICATION FOR TURF DISEASES

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

Target Diseases	Use Rate (lb. product per 1000 sq. ft.)	Application Interval (days)	Remarks*
Anthracnose (<i>Colletotrichum cereale</i>) (formerly known as <i>C. graminicola</i>)	2-2.5	14	Use preventively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development. Under high disease pressure, use higher rates of Headway G and shorter intervals. Alternate with a contact fungicide such as Daconil®.
	3.5-4	28	
Bentgrass Dead Spot (<i>Ophiosphaerella agrostis</i>)	2-2.5	14	Begin applications prior to disease development.
	3.5-4	28	
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>)	2-2.5	14	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 and Sheath Spot (<i>R. zea</i>), apply when conditions are favorable for infection such as sequential or periods of temperatures at or above 90°F. Curative control may necessitate several applications.
	3.5-4	28	
Cool Weather Brown Patch Yellow Patch (<i>Rhizoctonia cerealis</i>)	2-2.5	14	Make one or two applications in fall or when conditions are favorable for disease development.
	3.5-4	28	
Dichondra Rust (<i>Puccinia dichondrae</i>)	2-2.5	14	*Apply when conditions are favorable for disease development.
	3.5-4	28	

Target Diseases	Use Rate (lb. product per 1000 sq. ft.)	Application Interval (days)	Remarks*
Dollar Spot (<i>Sclerotinia homoeocarpa</i>)	2-2.5	14	Apply preventively when conditions are favorable for disease development. For non-residential turf with active Dollar Spot, use the higher rate and apply Daconil.
	3.5-4	28	
Fairy Ring (<i>Lycoperdon</i> spp., <i>Agrocybe pediades</i> , and <i>Bovistra plumbea</i>)	2-2.5	14	Apply as soon as possible after Fairy Ring symptoms develop. Irrigate with at least 0.5 inch of water within 24 hours after application if rainfall is not expected. Severely damaged or thin turf may require reseeding. Fairy Ring symptoms may take 2 to 3 weeks to disappear following application. Reapplication after 14-28 days may be required in some cases.
	3.5-4	28	
Gray Leaf Spot (<i>Pyricularia grisea</i>)	2-2.5	14	Use Headway G in a preventive disease control program. Begin applications before disease is present and alternate with other fungicide chemistries that control Gray Leaf Spot.
	3.5-4	28	
Gray Snow Mold Typhula blight (<i>Typhula incarnata</i>)	5	single application	Make a single application of 5 lb. or two applications of 4 lb. spaced 28 days apart in late fall just before snow cover. Alternating with another snow mold fungicide, such as Daconil, Medallion®, or Banner MAXX® may enhance control under severe disease pressure.
	3.5-4	28	
Leaf Rust Stem Rust Stripe Rust (<i>Puccinia</i> spp.)	2-2.5	14	Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
	3.5-4	28	
Leaf Spot (<i>Bipolaris sorokiniana</i>)	2-2.5	14	Apply when conditions are favorable for disease development.
	3.5-4	21	
Melting Out (<i>Drechslera poae</i>)	2-2.5	14	Apply when conditions are favorable for disease development.
	3.5-4	21	
Microdochium Patch (formerly known as Fusarium Patch (<i>Microdochium nivale</i>)	2-2.5	14	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
	3.5-4	28	
Necrotic Ring Spot (<i>Ophiosphaerella korrae</i>)	2-2.5	14	Apply when conditions are favorable for disease development.
	3.5-4	28	

Headway G Rate Conversion Chart for Turf

Lb. Product Per 1000 Sq. Ft.	Lb. Product Per Acre	Lb. Azoxystrobin Per 1000 Sq. Ft.	Lb. Azoxystrobin Per Acre	Lb. Propiconazole Per 1000 Sq. Ft.	Lb. Propiconazole Per Acre
2	87.1	0.006	0.27	0.015	0.65
2.5	108.9	0.008	0.34	0.019	0.81
3.5	152.4	0.0105	0.47	0.026	1.15
4	174.2	0.012	0.54	0.030	1.31
5	217.8	0.016	0.68	0.038	1.63

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in a cool, dry, secure place. Do not store near seeds, fertilizers, or foodstuffs.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticides, 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 at the nearest EPA Regional Office for guidance.

Container Handling

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill, or by other procedures approved by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

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