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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

JAN 05 2012

W.A. Hawkins, Jr., Ph.D.
Arysta LifeScience North America, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

Subject: Application for Pesticide Notification (PRN 98-10)
Submission Date: 12/07/11
Product Name: Disarm G Fungicide
EPA Reg. No.: 66330-380
EPA Decision Number: 458707

Dear Dr. Hawkins:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10.

The Agency acknowledges the addition of three new turf diseases to the label.

The label submitted with the application has been stamped "Notification" and will be placed in our records. If you have questions concerning this letter, please contact Heather Garvie at 703-308-0034 or me at 703-308-3194.

Sincerely,

A handwritten signature in black ink, which appears to read "Shaja Joyner", is written over a pre-printed name.

Shaja Joyner
Product Manager 20
Fungicide Branch
Registration Division (7505P)



Washington, DC 20460

☒ **Other:**

JAN 05 2011

OPP Identifier Number

White- EPA File Copy (original) Yellow- Applicant Copy



Arysta LifeScience

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December 7, 2011

Mr. Paul Mastradone
Document Processing Desk (NOTIF)
Office of Pesticide Programs – 7504P
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Subject: DISARM G Fungicide (EPA Reg. No. 66330-380)
Notification of Addition of Three New Turf Diseases

Dear Mr. Mastradone:

This is to notify the Agency that Arysta LifeScience North America, LLC intends to add three new turf diseases to the label of DISARM G Fungicide (EPA Reg. No. 66330-380). In the table "Directions for Application to Turf," we have added the three new diseases plus the statement "***Not currently registered for use in California" because at this time we do not have sufficient California efficacy data to support claims against one of the new diseases in that state. Enclosed are two copies of the amended label – a clean copy and a marked up version showing the changes.

We believe this is a non-PRIA action that does not require a fee payment. If you have any questions or require additional information, you may contact me at (919) 678-4886 or by e-mail at alex.hawkins@arystalifescience.com.

Sincerely,

W. A. Hawkins, Jr., Ph.D.
Regulatory Manager

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NOTIFICATION

JAN 05 2011

GROUP 11 FUNGICIDE

DISARM™ G Fungicide

For Turf Uses

ACTIVE INGREDIENT:

Fluoxastrobin: [(1E)-[2-[[6-(2-Chlorophenoxy)-5-fluoro-4-pyrimidinyl]oxy]phenyl] 5,6-dihydro-1,4,2-dioxazin-3-yl) methanone-O-methyloxime]..... 0.25%

INERT INGREDIENTS: **99.75%**

..... **TOTAL: 100.0%**

KEEP OUT OF REACH OF CHILDREN

CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label find someone to explain it to you in detail.)

For Product Use Information Call 1-866-761-9397

Produced for:

Arysta LifeScience North America Corporation
15401 Weston Parkway, Suite 150
Cary, NC 27513

EPA Reg. No. 66330-380
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FIRST AID	
IF ON SKIN: OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin with plenty of water for 15–20 minutes. • Get medical attention if irritation persists.
IF IN EYES:	<ul style="list-style-type: none"> • 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. • Call a physician if irritation persists.
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Have person sip a glass of water if able to swallow.
Hot Line Number	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE: Call PROSAR at 1-866-303-6952 or 1-651-632-8946 if calling from outside the U.S. FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC at 1-800-434-9300 or 1-703-527-3887 if calling from outside of the U.S.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wear protective eye wear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, shoes plus socks, and chemical resistant gloves made of any waterproof material, such as nitrile, butyl, neoprene and/or barrier laminate. These are only some of the glove materials that are chemically resistant to this product. For more options, refer to category A on an EPA chemical resistance category selection chart.

USER SAFETY REQUIREMENTS

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

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.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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

This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. The active ingredient in this product can be persistent for several months or longer. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark, or other sensitive areas that may be exposed to spray drift. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

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

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

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.

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: long-sleeved shirt and long pants or coveralls, shoes plus socks, and chemical resistant gloves made of any waterproof material, such as nitrile, butyl, neoprene, and / or barrier laminate.

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.

Keep children and pets out of treated area until dust has settled.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in original container and keep tightly closed. Store in a cool dry place.

For help with any spill, leak, fire or exposure involving this material, call CHEMTREC day or night at (703) 527-3887 or 1-800-424-9300.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then dispose of bag in a sanitary landfill or by incineration, or (if allowed by State and local authorities) by burning. If burned, stay out of smoke. Offer for recycling if available.

GENERAL INFORMATION

DISARM™ G Fungicide is a broad-spectrum fungicide for the control of certain diseases in turf. **DISARM G** works by interfering with respiration in plant-pathogenic fungi, and is a potent inhibitor of spore germination and mycelial growth.

UNDER CERTAIN CONDITIONS CONDUCIVE TO EXTENDED INFECTION PERIODS, ADDITIONAL FUNGICIDE APPLICATIONS BEYOND THE NUMBER ALLOWED BY THIS LABEL MAY BE NEEDED. UNDER THESE CONDITIONS, USE ANOTHER FUNGICIDE REGISTERED FOR THE DISEASE.

RESISTANCE MANAGEMENT

The active ingredient in **DISARM G** (fluoxxastrobin) belongs to the strobilurin class of chemistry which exhibits no known cross-resistance to other chemical classes including sterol inhibitors, dicarboximides, benzimidazoles, anilinopyrimidines, or phenylamides. Fluoxxastrobin exhibits cross-resistance to other QoI fungicides, such as: trifloxystrobin, azoxystrobin, and kresoxim-methyl (Group 11 fungicides). Certain fungal pathogens are known to develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, the use of this product should conform to resistance management strategies established for turf. Such strategies may include rotating and/or tank-mixing with products having different modes of action, or limiting the total number of applications per season. Arysta LifeScience encourages responsible resistance management to ensure effective long-term control of the fungal diseases on this label.

Follow specific recommendations that limit the total number of applications on turf and the required alternations with fungicides from other resistance management groups. In situations requiring multiple fungicide applications, develop season-long spray programs for using Group 11 (QoI-containing) fungicides with the following guidelines. Turf pathogens that cause Dollar Spot, Gray Leaf Spot, Anthracnose, and Pythium Blight are known to have the capacity to develop resistant populations with the repeated use of a single fungicide or a single class of fungicide chemistry.

1. When using a Group 11 fungicide alone, the number of applications made for control of at risk diseases should be no more than one third of the total number of fungicide applications per season.
2. In programs where tank mixes or pre-mixes of a Group 11 fungicide with a fungicide of another Group are utilized, the number of Group 11 fungicide applications made for control of at risk diseases should be no more than one half of the total number of fungicide applications per season.
3. In programs where applications of Group 11 fungicides are made with both solo products and mixtures, the number of Group 11 fungicide applications made for control of at risk diseases should be no more than one half of the total number of fungicide applications per season.

APPLICATION GUIDELINES

Uniform application is necessary to provide good disease control. Calibrate granule applicator equipment before use.

USE DIRECTIONS FOR TURF

DISARM G provides control of many important diseases in turf. DISARM G should be used in conjunction with cultural practices that promote healthy, vigorous turf. These practices include nutrient management, thatch management, water management and judicious use of other fungicides and cultural practices.

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

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

DISARM G may be safely applied before or after seeding or at seedling germination and emergence to ryegrass, bentgrass, bluegrass, fescue, and other turfgrasses. Optimum application timing for control of seedling diseases is just prior to, during or just after seeding.

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

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DIRECTIONS FOR APPLICATION TO TURF

Disease Control	DISARM G Use Rates		Retreatment Interval (days)	Remarks
	Lbs Product/A	Lb Product/ 1,000 sq ft		
Anthracnose* (Foliar Infection Phase) (<i>Colletotrichum graminicola</i>)	100-200	2.3 - 4.6	14 - 28	Use preventatively. Begin applications when conditions are favorable for disease development. Under severe conditions tank-mix with another fungicide labeled for control of Anthracnose.
Anthracnose* (Crown Rot Phase) (<i>Colletotrichum graminicola</i>)	100-200	2.3-4.6	14 - 21	Use preventatively. Begin applications when conditions are favorable for disease development. Tank-mix with another fungicide labeled for control of Anthracnose.
Brown Patch (<i>Rhizoctonia solani</i>)	50-200	1.2-4.6	14 - 28	Apply when conditions are favorable for disease development.
Brown Ring Patch / Waitea Patch** (<i>Waitea circinata</i> var. <i>circinata</i>)	100 - 200	2.3 - 4.6	14-28	Apply when conditions are favorable for disease development.
Cool Weather Brown Patch Yellow Patch (<i>Rhizoctonia cerealis</i>)	100-200	2.3-4.6	14 - 28	Make one or two applications in fall or when conditions are favorable for disease development.
Dollar Spot* (<i>Sclerotinia homoeocarpa</i>)	100-200	2.3-4.6	14 - 21	DISARM G provides preventive control of light to moderate dollar spot pressure when used to control other diseases. Under heavy dollar spot pressure or where dollar spot is the only target use the high rate in combination with or in alternation with other fungicides labeled for control of Dollar Spot.
Fairy Ring (<i>Basidiomycete</i> fungi)	100-200	2.3-4.6	28	Apply where Fairy Rings have been observed in the past or at the first sign of fairy ring development. Irrigate after application to move the fungicide into the root zone. Repeat as necessary.
Gray Leaf Spot*	100-200	2.3-4.6	14 - 28	Begin applications before

Disease Control	DISARM G Use Rates		Retreatment Interval (days)	Remarks
	Lbs Product/A	Lb Product/ 1,000 sq ft		
<i>(Pyricularia grisea)</i>				disease is present. Under heavy disease pressure use in combination with other fungicides labeled for control of Gray Leaf Spot.
Leaf Spot <i>(Bipolaris sorokiniana)</i>	100-200	2.3-4.6	14 - 21	Apply when conditions are favorable for disease development.
Melting Out <i>(Drechslera poae)</i>	100-200	2.3-4.6	14 - 21	Apply when conditions are favorable for disease development.
Microdochium (Fusarium) Patch <i>(Microdochium nivale)</i>	100-200	2.3-4.6	14 - 28	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development.
Necrotic Ring Spot <i>(Leptosphaeria korrae)</i>	150 - 200	3.5 - 4.6	14 - 28	Apply when conditions are favorable for disease development.
Pink Patch <i>(Limonomyces roseipellis)</i>	100-200	2.3-4.6	14 - 28	Apply when conditions are favorable for disease development.
Powdery Mildew <i>(Erysiphe graminis)</i>	100-200	2.3-4.6	14 - 28	Apply at first sign of infection. Repeat as necessary.
Pythium Blight * <i>(Pythium aphanidermatum)</i>	100-200	2.3-4.6	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. When conditions are favorable for heavy Pythium Blight pressure use DISARM G in combination or alternation with another product registered for Pythium Blight control.
Pythium Root Rot <i>(Pythium spp.)</i>	100-200	2.3-4.6	14	Apply when conditions are favorable for disease development.

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Disease Control	DISARM G Use Rates		Retreatment Interval (days)	Remarks
	Lbs Product/A	Lb Product/ 1,000 sq ft		
Pythium Root Dysfunction (<i>Pythium volutum</i>)	150 – 200	3.5 – 4.6	14 – 28	Apply when conditions are favorable for disease development (when mean daily soil temperatures are between 50° F and 75° F)
Pythium Damping Off (<i>Pythium spp.</i>)	100-200	2.3-4.6	14	Apply uniformly to the seed bed before, during or just after seeding. Lightly irrigate after application. Repeat application if conditions remain favorable for disease.
Red Thread (<i>Laetisaria fuciformis</i>)	100-200	2.3-4.6	14 - 28	Apply when conditions are favorable for disease development.
Rust (<i>Puccinia spp.</i>)	100-200	2.3-4.6	14 – 28	Apply at the first sign of infection or when conditions are favorable for disease development. Repeat as necessary.
Snow Mold, Pink (<i>Microdochium nivale</i>)	100-200	2.3-4.6	28	Apply 1 to 2 applications prior to permanent snow cover.
	100-200	2.3-4.6	28	
Snow Mold, Typhula Blight (<i>Typhula incarnata</i>)				
Southern Blight (<i>Sclerotium rolfsii</i>)	100-200	2.3-4.6	14 - 28	Apply when conditions are favorable for disease development.
Spring Dead Spot (<i>Leptosphaeria korrae</i>) or (<i>Gaeumannomyces graminis</i> var. <i>graminis</i>) or (<i>Ophiosphaerella herpotricha</i>)	100-200	2.3-4.6	14 - 28	Apply 1 or 2 applications approximately one month prior to Bermudagrass dormancy. Apply ¼" to ½" of irrigation after application.
Summer Patch (<i>Magnaporthe poae</i>)	100-200	2.3-4.6	14 - 28	Start applications in the spring when soil temperatures at 2" depth reach 60 - 65° F or as prescribed by local turf specialists.

Disease Control	DISARM G Use Rates		Retreatment Interval (days)	Remarks
	Lbs Product/A	Lb Product/ 1,000 sq ft		
Take-All Patch (<i>Gaeumannomyces graminis</i> var. <i>avenae</i>)	100-200	2.3-4.6	28	Begin applications before disease is present and continue applications while conditions are favorable for disease development. Make two applications in the spring and two applications in the fall.
Zoysia Patch Large Patch of Zoysia (<i>Rhizoctonia solani</i> and/or <i>Gaeumannomyces</i> spp.)	100-200	2.3-4.6	14 - 28	Make 1 – 2 applications in the fall before dormancy. Consult with local turfgrass experts for optimum timing in your area.

** Not currently registered for use in California.

*See **RESISTANCE MANAGEMENT** section when using **DISARM G** for control of these diseases.

Restrictions and Other Information

- Do not apply more than 880 lbs (2.2 lbs a.i.) of **DISARM G** per acre per year, or no more than 5.7 lbs/1,000 sq ft per application.
- There is a maximum number of 4 applications per season, and a minimum interval of 21 days between applications.
- Under conditions of high disease pressure, use the higher rates, the shortest application interval or both.
- For soil-borne diseases, use sufficient water to move the active ingredient into the crown and upper root zone.

Spreader	GRANULAR SPREADER SETTINGS		
	2 lb/1,000 sq ft	3 lb/ 1,000 sq ft	4 lb/1,000 sq ft
Cyclone	3	4	4 ¼
Lely	3 II	4 II	5 II
Lesco	10	15	16
Scotts R8A/SR-1	I	K	L
Spyker	3	3 ½	4 ¼
Vicon	20	22	23

Note: Spreader settings are approximate starting points for calibrating equipment.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer.

Arysta 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 described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

DISARM G FUNGICIDE (MASTER) 04/23/10, NOTIFICATION 12/06/11

