

66330-379

10/13/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

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

OCT 13 2011

SUBJECT: DISARM C Fungicide
EPA Reg. No. 66330-379
Notification dated September 16, 2011
Decision Number 455474

Dear Mr. 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 to add three new turf diseases to the label for applicability under PRN 98-10 and finds that the label change(s) requested falls within the scope of PRN 98-10.

If you have any questions, please call Rose Kearns at 703-308-9353 or you may call me at 703-308-9443.

Sincerely,

A handwritten signature in black ink that reads "Tony Kish".

Tony Kish
Product Manger (22)
Fungicide Branch
Registration Division (7504P)

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other:

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 66330-379	2. EPA Product Manager Tony Kish	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) DISARM C Fungicide	PM# 22	
5. Name and Address of Applicant (Include ZIP Code) Arysta LifeScience North America, LLC 15401 Weston Parkway, Suite 150 Cary, NC 27513 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar to pesticide in its composition and labeling to: EPA Reg. No. OCT 13 2011 Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)
 Notification of addition of three new turf diseases per PR Notice 98-10.
 This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

There are no PRIA fees associated with this action. Contact: alex.hawkins@arystalifescience.com

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
	If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
*Certification must be submitted				<input type="checkbox"/> Other (Specify)	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container	5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product		
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)		
Name W. A. Hawkins, Jr., Ph.D.	Title Regulatory Manager	Telephone No. (Include Area Code) 919-678-4886
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Manager	
4. Typed Name W. A. Hawkins, Jr., Ph.D.	5. Date 09/16/11	



Arysta LifeScience

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September 16, 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 C Fungicide (EPA Reg. No. 66330-379)
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 C Fungicide (EPA Reg. No. 66330-379). In the "Directions for Application to Turf (Group A and B)," we have added the three new diseases plus the statement "*Not approved for use in California to control this disease" because at this time we do not have sufficient California efficacy data to support claims against one of the new diseases in that state. In this table, the Application Interval column has been moved to the right for consistency with our other fluoxastrobin turf products. 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,

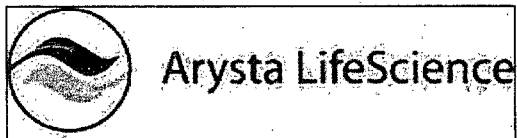
A handwritten signature in cursive script that reads "W. A. Hawkins, Jr.".

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

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NOTIFICATION

OCT 13 2011



GROUP 11 | M5 FUNGICIDE

DISARM C FUNGICIDE

For the control of foliar, stem and root diseases on turf

ACTIVE INGREDIENT:

Fluoxastrobin	2.44%
Chlorothalonil	38.40%
OTHER INGREDIENTS.....	59.16%
TOTAL	100.00%

This product contains 4.0 pounds of chlorothalonil per gallon
This product contains 0.25 pounds of fluoxastrobin per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

EPA Reg. No. 66330-379
EPA EST. No. _____
AD 061708

NET WEIGHT: _____

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

FIRST AID	
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.
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 INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible. • Call a poison control center or doctor for further treatment advice.
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. • Call a poison control center or doctor for treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment.</p>	
<p>Note to Physician: Persons suffering with temporary allergic skin reactions may respond to treatment with oral antihistamines and topical or oral steroids.</p>	
<p>FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE:</p> <p>Call PROSAR at 1-866-303-6952 or 1-651-632-8946 if calling from outside of the U.S.</p> <p>For 24-hour Chemical Emergency Assistance: Spill, leak, fire, exposure, or accident call CHEMTREC AT 1-800-424-9300 or 1-703-527-3887 if calling outside of the U.S.</p>	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco or using the toilet. Harmful if inhaled. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse. Causes moderate eye irritation, avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, 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

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. Discard clothing and other materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

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:
<p>Users should:</p> <ul style="list-style-type: none"> • Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. • 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, wildlife and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. The active ingredients 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. Chlorothalonil is known to leach through soil into groundwater under certain conditions as a result of label use. Use in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with infield canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

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 industrial buildings.

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.

Special Eye Irritation Provisions: This product is a severe eye irritant. Although the restricted entry interval expires after 12 hours, for the next 6.5 days entry is permitted only when the following safety measures are provided:

1. At least one container designed specifically for flushing eyes must be available in operating condition at the WPS required decontamination site intended for workers entering the treated area.
2. Workers must be informed, in a manner they can understand:
 - that residues in the treated area may be highly irritating to their eyes
 - that they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes
 - that if they do get residues in their eyes, they should immediately flush their eyes using the eyeflush container that is located at the decontamination site or using other readily available clean water, and
 - how to operate the eyeflush container

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.

Do not enter or allow children or pets to enter the treated areas until spray has dried.

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

PESTICIDE DISPOSAL

Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray or rinseate 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

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure 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 ¼ 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

PRODUCT INFORMATION

Fluoxastrobin, (Group 11 fungicide); one of the active ingredients in DISARM C FUNGICIDE is a broad-spectrum fungicide for the control of certain diseases in turf. DISARM C FUNGICIDE works by interfering with respiration in plant-pathogenic fungi, and is a potent inhibitor of spore germination and mycelial growth.

Chlorothalonil, (Group M5 fungicide), the other active ingredient in DISARM C FUNGICIDE, is a multi-site inhibitor of fungal pathogens and no known resistance to this ingredient has developed in over 40 years of use.

RESISTANCE MANAGEMENT

The combination of fluoxastrobin with chlorothalonil provides a built in resistance management tool that is commonly accepted as a valid resistance management strategy for many fungal pathogens.

APPLICATION GUIDELINES

Broadcast Ground Sprayers

Thorough coverage is necessary to provide good disease control. Applications using sufficient water volume to provide thorough and uniform coverage provide the most effective disease control, 43–174 gallons per acre (1–4 gal per 1,000 sq ft recommended).

Equip sprayers with nozzles that provide accurate and uniform application. Be certain that nozzles are the same size and uniformly spaced across the boom. Calibrate the sprayer before use. Use a pump with the capacity to: (1) maintain a minimum of 35 psi at nozzles, and (2) provide sufficient agitation in the tank to keep the mixture in suspension (this requires recirculation of 10% of the tank volume per minute). Use jet agitators or a liquid sparge tube for vigorous agitation. Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on the suction side of the pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh screens at the nozzles. Check nozzle manufacturer's recommendations. For information on spray equipment and calibration, consult sprayer manufacturer's and/or state recommendations. For specific local directions and spray schedules, consult the current state agricultural experiment station recommendations.

Mixing Procedures

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

DISARM C FUNGICIDE Alone

Add 1/2 of the required amount of water to the mix tank. With the agitator running, add the **DISARM C FUNGICIDE** to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the **DISARM C FUNGICIDE** has completely and uniformly dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

DISARM C FUNGICIDE + Tank-mix Partners

Add 1/2 of the required amount of water to the mix tank. Start the agitator running before adding any tank-mix partners. In general, tank-mix partners should be added in this order: products packaged in water-soluble packaging (see note below), wettable powders, water dispersible granules, (dry flowables), liquid flowables (such as **DISARM C FUNGICIDE**), liquids, and emulsifiable concentrates. Always allow each tank-mix partner to become fully and uniformly dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all of the mixture has been applied.

Note: When using **DISARM C FUNGICIDE** in tank-mixtures, all products in water-soluble packaging should be added to the tank before any other tank-mix partner, including **DISARM C FUNGICIDE**. Allow the water-soluble packaging to completely dissolve and the product(s)

contained in the water soluble packages to completely disperse before adding any other tank-mix partner to the tank.

If using **DISARM C FUNGICIDE** in a tank-mixture, observe all directions for use, sites, use rates, dilution ratios, precautions, and limitations, which appear on the tank-mix partner label. No label dosage rate may be exceeded, and the most restrictive label precautions and limitations must be followed. This product must not be mixed with any product that prohibits such mixing. Tank-mixtures or application of other products referenced on this label are permitted only in those states in which the referenced products are registered.

DISARM C FUNGICIDE is compatible with most pesticides, plant growth regulators and foliar nutrient products. However, the physical compatibility of **DISARM C FUNGICIDE** with tank-mix partners should be tested before use. To determine the physical compatibility of **DISARM C FUNGICIDE** with other products, use a jar test, as described below.

Jar Test Procedure: Using a quart jar, add the proportionate amounts of the products to ½ qt. of water. Add wettable powders and water dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, add the remaining ½ qt of water, shake and let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

The safety of all potential tank-mixes including additives and other pesticides on turf has not been tested. Before applying any tank-mixture not specifically recommended on this label, the safety to turf should be confirmed. To test for turf safety, apply DISARM C FUNGICIDE + tank-mix partners in a small area and in accordance with label instructions. Observe plants over a period of time for the appearance of phytotoxicity symptoms.

DIRECTIONS FOR USE THROUGH SPRINKLER IRRIGATION SYSTEMS

Apply this product only through overhead sprinkler irrigation systems including center pivot, microjet, wheel lines, lateral move, side roll, or overhead solid set irrigation systems. Do not apply this product through any other type of irrigation system. Reduced effectiveness in turf can result from non-uniform distribution of the treated irrigation water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other irrigation experts.

SPRAY PREPARATION

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

APPLICATION INSTRUCTIONS

First prepare a suspension of **DISARM C FUNGICIDE** in a mix tank. Fill tank with 1/2 the desired amount of water. Start mechanical or hydraulic agitation. Add the required amount of **DISARM C FUNGICIDE** and then the remaining volume of water. Then set sprinkler to deliver no more than 0.4 inch of water per acre. Start sprinkler and uniformly inject the suspension of **DISARM C FUNGICIDE** into the irrigation water line to deliver the desired rate per acre. The suspension of **DISARM C FUNGICIDE** should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. If you should have any other questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

NOTE: When treatment with **DISARM C FUNGICIDE** has been completed, further field irrigation over the treated area should be avoided for 24 hours to prevent washing the chemical off the turf.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

1. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

SPECIAL PRECAUTIONS FOR CHEMIGATION THROUGH SPRINKLER IRRIGATION SYSTEMS

1. Maintain continuous agitation in mix tank during mixing and application to assure a uniform suspension.
2. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute solution per unit time.
3. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
4. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
5. The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shutdown.
6. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
7. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
8. Systems must use a metering pump, such as a positive displacement injection pump (e. g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
9. Do not apply when wind speed favors drift beyond the area intended for treatment. If you are unsure of wind conditions, contact your local extension agent.
10. Do not apply when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained. Reduced effectiveness may result from non-uniform distribution of treated water.
11. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation, or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
12. Do not connect an irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

SPRAY DRIFT

SENSITIVE AREAS

This pesticide must only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitats for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

USE DIRECTIONS FOR TURF

DISARM C FUNGICIDE provides control of many important diseases in turf including but not limited to species of Bentgrass, Kentucky Bluegrass, Annual Bluegrass, Fescue, Ryegrass, Bermudagrass, St. Augustinegrass and Zoysiagrass. **DISARM C FUNGICIDE** 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 pesticides.

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

DISARM C FUNGICIDE may be used for control of certain turfgrass diseases associated with turfgrass establishment from seed. **DISARM C FUNGICIDE** may also be used during overseeding of dormant turfgrass and to established overseeded stands of turf.

DISARM C FUNGICIDE 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 and Spray Volumes: Use the shorter specified application interval and/or the higher specified rate when prolonged favorable disease conditions exist. For ground application equipment, 43 – 174 gal/A (1– 4 gal/1, 000 sq ft) is recommended.

GENERAL PRECAUTIONS AND RESTRICTIONS

Use of this product on home lawns is prohibited.

Agricultural Use Sites Only: This product must not be applied within 150 feet (for aerial applications) or 25 feet (for ground applications) of marine/estuarine water bodies unless there is an untreated buffer area of that width between the area to be treated and the water body.

Do not use on home lawns and turf sites associated with apartment buildings, day-care 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.

Do not combine **DISARM C FUNGICIDE** in the spray tank with pesticides, surfactants or fertilizers, unless prior use has shown the combination physically compatible, effective and noninjurious under your conditions of use. Do not combine **DISARM C FUNGICIDE** with DiPel® or Latron B-1956® as phytotoxicity may result from the combination when applied to some species.

The required amount of **DISARM C FUNGICIDE** must be added slowly into the spray tank during filling.

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Turf Group A Restrictions: For Golf Course Fairways, Sod Farms, Lawns around Industrial buildings.

Because **DISARM C FUNGICIDE** contains the active ingredient chlorothalonil, the following restrictions apply to the use of **DISARM C FUNGICIDE**.

The minimum application interval for rates up to 14.6 pt/A (5.4 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE** is 7 days.

The minimum application interval for rates greater than 14.6 pt/A (5.4 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE** is 14 days.

For Golf Course Fairways:

The maximum single application rate is 14.6 pt/A (5.4 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE**. (7.3 lb ai/A)

DO NOT apply more than 52.0 pt/A (19.1 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE** per growing season. (26 lb ai/A)

For Sodfarms:

The maximum single application rate is 26 pt/A (9.5 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE** (13 lb ai/A/season).

DO NOT apply more than 26 pt/A (9.5 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE** per growing season. (13 lb ai/A)

For Lawns around Industrial Buildings

The maximum single application rate is 16.4 pt/A (6.0 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE** (8.2 lb ai/A) or a one time application of 22.6 pt/A (8.3 fl oz/1,000 sq ft) (11.3 lb ai/A).

DO NOT apply more than 52.0 pt/A (19.1 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE** per growing season (26 lb ai/A).

Apply **DISARM C FUNGICIDE** in 43.5 -174 gallons of water per acre. Begin applications when conditions favor disease development and repeat applications as long as these conditions persist. Under severe disease conditions use the highest rate and shortest interval corresponding with the application schedule selected from the table below.

For control of foliar diseases **DO NOT** mow or water after treatment until spray deposited on turfgrass is thoroughly dry. For control root diseases water in with enough water to move the fungicide into the thatch/root zone.

Sod farm turf treated with **DISARM C FUNGICIDE** less than seven days prior to harvest must be mechanically cut, rolled and harvested.

Turf Group B restrictions: For Golf Course Tees and Greens:

Because **DISARM C FUNGICIDE** contains the active ingredient chlorothalonil, the following restrictions apply to the use of **DISARM C FUNGICIDE**.

The minimum application interval for rates up to 14.6 pt/A (5.4 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE** is 7 days.

The minimum application interval for rates greater than 14.6 pt/A (5.4 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE** is 14 days.

DO NOT make more than two applications at a rate greater than 14.6 pt/A (5.4 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE** per growing season.

DO NOT apply more than 70.4 pt/A (25.8 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE** per growing season.

The maximum single application rate is 16 pt/A (6.3 fl oz/1,000 sq ft) of **DISARM C FUNGICIDE**.

Apply **DISARM C FUNGICIDE** in 43.5 - 174 gallons of water per acre. Begin applications when conditions favor disease development and repeat applications as long as these conditions persist. Under severe disease conditions use the highest rate and shortest interval corresponding with the application schedule selected from the table below.

For control of foliar diseases **DO NOT** mow or water after treatment until spray deposited on turfgrass is thoroughly dry. For control root diseases water in with enough water to move the fungicide into the thatch/root zone.

DIRECTIONS FOR APPLICATION TO TURF (Group A and B)

Disease Control	Use Rate (pints per acre)	Use rate (oz/1,000 sq ft)	Application Interval (days)	Application Instructions
Anthraco² (Foliar Infection Phase) <i>(Colletotrichum graminicola)</i>	8 - 16	3 - 5.9	14 - 28	Use preventatively. Begin applications when conditions are favorable for disease development.
Anthraco² (Crown Rot Phase) <i>(Colletotrichum graminicola)</i>	8 - 16	3 - 5.9	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>	4 - 16	1.5 - 5.9	14 - 28	Apply when conditions are favorable for disease development.
Brown Ring Patch/Waitea Patch*	8 - 16	3 - 5.9	14 - 28	Apply when conditions are favorable for disease development.

Disease Control	Use Rate (pints per acre)	Use rate (oz/1,000 sq ft)	Application Interval (days)	Application Instructions
(<i>Waitea circinata</i> var. <i>circinata</i>)				
Cool Weather Brown Patch Yellow Patch (<i>Rhizoctonia cerealis</i>)	8 - 16	3 - 5.9	14 - 28	Make one or two applications in fall or when conditions are favorable for disease development. Curative applications may be made in the spring if disease appears.
Dollar Spot² (<i>Sclerotinia homoeocarpa</i>)	8 - 16	3 - 5.9	14 - 21	Under heavy dollar spot pressure or where dollar spot is the only targeted disease use a DMI fungicide such as propiconazole, triadimefon, or myclobutanil labeled for control of Dollar Spot in tank-mix or in alternation with DISARM C applications.
Fairy Ring (Basidiomycete fungi)	12 - 16	4.5 - 5.9	21 - 28	Apply as soon as fairy ring symptoms develop. Apply in 4 gallons of water per 1,000 sq ft or irrigate after application with ¼ inch water. A wetting agent may facilitate penetration.
Gray Leaf Spot² (<i>Pyricularia grisea</i>)	8 - 16	3 - 5.9	14 - 28	Begin applications before disease is present. Under heavy disease pressure tank-mix with another product labeled for control of Gray Leaf Spot.
Leaf Spot (<i>Bipolaris sorokiniana</i>)	8 - 16	3 - 5.9	14 - 21	Apply when conditions are favorable for disease development.
Melting Out (<i>Drechslera poae</i>)	8 - 16	3 - 5.9	14 - 21	Apply when conditions are favorable for disease development.
Necrotic Ring Spot (<i>Leptosphaeria korrae</i>)	16	5.9	14 - 28	Apply when conditions are favorable for disease development.
Pink Patch	8 - 16	3 - 5.9	14 - 28	Apply when conditions

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Disease Control	Use Rate (pints per acre)	Use rate (oz/1,000 sq ft)	Application Interval (days)	Application Instructions
<i>(Limonomyces roseipellis)</i>				are favorable for disease development.
Powdery Mildew <i>(Erysiphe graminis)</i>	8 - 16	3 - 5.9	14 - 28	Apply at first sign of infection. Repeat as necessary.
Pythium Blight² <i>(Pythium aphanidermatum)</i>	8 - 16	3 - 5.9	7 - 14	Use preventatively. Begin applications when conditions are favorable for disease infection, prior to disease symptom development. When conditions are favorable for heavy Pythium Blight pressure use DISARM C FUNGICIDE in combination with another product registered for Pythium Blight control.
Pythium Damping Off <i>(Pythium spp.)</i>	8 - 16	3 - 5.9	7 - 10	Apply uniformly to the seed bed before, during or just after seeding. Lightly irrigate after application. Repeat application if conditions remain favorable for disease.
Pythium Root Rot <i>(Pythium spp.)</i>	8 - 16	3 - 5.9	7 - 10	Apply when conditions are favorable for disease development.
Pythium Root Dysfunction <i>(Pythium volutum)</i>	12 - 16	4.5 - 5.9	14 - 28	Apply when conditions are favorable for disease development (when daily soil temperatures are between 50°F and 75°F.
Red Thread <i>(Laetisaria fuciformis)</i>	8 - 16	3 - 5.9	14 - 28	Apply when conditions are favorable for disease development.
Rust <i>(Puccinia spp.)</i>	8 - 16	3 - 5.9	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>	8 - 16	3 - 5.9	28	Apply 1 to 2 applications prior to permanent snow

Disease Control	Use Rate (pints per acre)	Use rate (oz/1,000 sq ft)	Application Interval (days)	Application Instructions
Snow Mold, Typhula Blight (<i>Typhula incarnata</i>)	8 - 16	3 - 5.9	28	cover.
Southern Blight (<i>Sclerotium rolfsii</i>)	8 - 16	3 - 5.9	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>)	16	5.9	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>)	8 - 16	3 - 5.9	14 - 28	Start applications in the spring when soil temperatures at 2" depth reach 60 - 65° F or as prescribed by local turf specialists.
Take-All Patch (<i>Gaeumannomyces graminis</i> var. <i>avenae</i>)	16	5.9	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.)	8 - 16	3 - 5.9	14 - 28	Preventative and Curative: Make 1 - 2 applications in the fall before dormancy or in the spring when Zoysia is greening up. For curative applications use the higher rate. Consult with local turfgrass experts for optimum timing in your area
Algae	8.2 - 14.6	3.0 - 5.4	7 - 14	Under severe algae conditions use the 14.6 pt/A (5.4 fl oz/1,000 sq ft) rate and apply on a 7-day interval.

Disease Control	Use Rate (pints per acre)	Use rate (oz/1,000 sq ft)	Application Interval (days)	Application Instructions
				<p><u>When algae is well established, every attempt should be made to dry out the afflicted area.</u></p> <p>See Note 1 under General Turf Restrictions and Other Information</p>
Dicondra Leaf Spot	16	5.9	14	Start applications when conditions are favorable for disease.
Copper Spot	16	5.9	14	Start applications when conditions are favorable for disease.

* Not approved for use in California to control this disease.

General Turf Restrictions and Other Information

1. See **RESISTANCE MANAGEMENT** section when using **DISARM C FUNGICIDE** for control of these diseases.
2. Use of this product on home lawns is prohibited.

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 Corporation ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

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DISARM C FUNGICIDE (MASTER)06/17/08, NOTIFICATION 09/12/11