

66330-379

11/27/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

NOV 27 2012

Rodney Akers
Arysta LifeScience North America, LLC
15401 Weston Parkway Suite 150
Cary NC 27513

Subject Label Amendment
Disarm C Fungicide
EPA Reg No 66330-379 Decision #470078
Your Submission Dated September 10 2010

Dear Mr Akers

The amended labeling referred to above submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA) as amended to add California State specific language is acceptable

A copy of the label stamped accepted is enclosed

Submit one copy of your final printed labeling before you release the product for shipment

If you have any questions regarding this correspondence contact Rose Kearns of my staff by phone at 703 30 5 5611 or via email at kearns.rosemary@epa.gov or myself at 703 308 9443 or via email at kish.tony@epa.gov

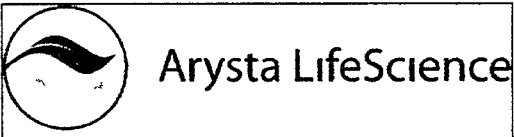
Sincerely

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

Enclosure

2/18

ACCEPTED
NOV 27 2012
Under the Federal Insecticide
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg No 66330-379



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 XXXXXX

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
Have the product container or label with you when calling a poison control center or doctor or going for treatment	
Note to Physician Persons suffering with temporary allergic skin reactions may respond to treatment with oral antihistamines and topical or oral steroids	
<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 1- 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

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 f) (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
Anthracnose (Foliar Infection Phase) <i>(Colletotrichum graminicola)</i>	8 - 16	3 - 5.9	14 - 28	Use preventively. Begin applications when conditions are favorable for disease development.
Anthracnose (Crown Rot Phase) <i>(Colletotrichum graminicola)</i>	8 - 16	3 - 5.9	14 - 21	Use preventively. 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 Spot (<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 Spot (<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>)	12 16	4 5 5 9 (In California use 5 9 oz rate only)	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
Pink Patch (<i>Limonomyces roseipellis</i>)	8 16	3 – 5 9	14 – 28	Apply when conditions 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 Blight (<i>Pythium aphanidermatum</i>)	8 16	3 – 5 9	7 14	Use preventively 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 cover
Snow Mold Typhula Blight	8 16	3 – 5 9	28	

Disease Control	Use Rate (pints per acre)	Use rate (oz/1 000 sq ft)	Application Interval (days)	Application Instructions
<i>(Typhula incarnata)</i>				
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 var 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 var 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 and/or Gaeumannomyces spp)</i>	8 16	3 – 5 9	14 – 28	Preventive 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 <u>When algae is well established, every attempt should be made to dry out the afflicted area</u>

Disease Control	Use Rate (pints per acre)	Use rate (oz/1 000 sq ft)	Application Interval (days)	Application Instructions
				See Note 1 under General Turf Restrictions and Other Information
Dicentra 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

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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 (PENDING) 09/11/12