

432-1513

10/14/2010

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

432-1513

OCT 14 2010

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance: **Conditional**

Name of Pesticide Product:

Armada 50 WDG

Name and Address of Registrant (include ZIP Code):

Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle Park, NC 27709 Attn: Richard M. Gorrell

~~Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.~~

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

You must make the following labeling revisions:

1. The EPA Reg. No. must be changed to 432-1513.

Signature of Approving Official:

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

Date:

OCT 14 2010

2. On page 1 the claim "enhancement of greener and more dense turfgrass" is acceptable providing there is supporting efficacy data in your files.
3. On page 1 change "certain foliar" to "listed foliar"; change "control of foliar" to "control of listed foliar"; change "intererioscapes (such as...hotel lobbies, etc.)" to "interiorscapes to include shopping malls... hotel lobbies)".
4. On page 2, add "(PPE)" after the heading "Personal Protective Equipment".
5. On page 3, change "Coveralls" to "Long sleeved shirt and long pants"
6. On page 4, at the top change "No label dosage rate should" to "No label dosage rate must". Also, change "should be followed" to "must be followed" in the same sentence. Next sentence change "should" to "must".
7. On page 4, in the Turfgrass Disease Control section; item 1, delete "WG" from "WDG WG".
8. On page 4, 10th line from top delete the second redundant "Tank mixtures...are registered".
9. On page 4, the upper case "Curative applications can be made for certain diseases" -- either clarify which diseases or delete this claim.
10. On page 4, the "Plant Health" claims must be deleted unless there are supporting data in your files.
11. On page 5, move "Apply Armada...for plant health benefits" to page 4 in the "Plant Health" claims section.
12. On page 5 in the "Ornamental" section, change "certain foliar" to "listed foliar"; change "interiorscapes (such as...lobbies, etc.)" to "interiorscapes (to include shopping malls...lobbies, etc.)".

Submit a one-year GLP Storage Stability/Corrosion Characteristic study within 15 months of the date of this registration notice. Submit two copies of a final printed label with the changes herein before the product is released for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release of the shipment of your product constitutes acceptance of these conditions.

A copy of the label stamped "Accepted with Comments" is enclosed for your records.

ARMADA™ 50 WDG

For the enhancement of greener and more dense turfgrass and for the control of certain foliar, stem, and root diseases of turfgrass including institutional, commercial and residential lawns, sod farms, sports fields, parks, municipal grounds and cemeteries, and for control of foliar and stem diseases of ornamentals and fruit trees grown in interiorscapes (such as shopping malls, shopping centers, hotel lobbies, etc.), residential and commercial landscapes.

For Professional Use Only.

ACCEPTED
with COMMENTS
In EPA Letter Dated

Active Ingredient:

OCT 14 2010

Trifloxystrobin (CAS No. 141517-21-7)..... 8.33%

Triadimefon (CAS No. 43121-43-3)..... 41.67%

Other Ingredients:..... 50.00%

Total:..... 100.00%

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

EPA Reg. No. 432-XXXX

432-1513

EPA Est. No. ____

KEEP OUT OF REACH OF CHILDREN. CAUTION

For PRODUCT USE Information Call 1-800-334-9745

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

FIRST AID

If in eyes	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-334-7577 for emergency medical treatment.	
Note to Physician: If ingested, induce emesis or lavage stomach. Treat symptomatically.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Harmful if swallowed, inhaled, or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid breathing dust or spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber when mixing/loading, when using handheld equipment or handheld nozzles.
- Shoes plus socks
- Chemical-resistant apron, when mixing/loading, or cleaning spills or equipment.

See engineering controls for additional 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 no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

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

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.

Ground Water Advisory

The active ingredients in this product have properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in ground water contamination.

Do not make applications when weather conditions favor drift from target area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill, or store near heat or open flame.

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.



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) 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.

Exception: If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

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

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 treated areas without protective clothing until sprays have dried.

Do not apply by aerial application in the State of New York.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Material that cannot be used as directed should be disposed of as directed below. In spill or leak incidents, keep unauthorized people away.

Pesticide Disposal: Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of federal law. If these wastes cannot be used according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Disposal: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available, or dispose of empty carton in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

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 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.

ARMADA 50 WDG Alone: Add 1/2 of the required water to the mix tank. With the agitator running, add the prescribed dose of ARMADA 50 WDG to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after ARMADA 50 WDG has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

ARMADA 50 WDG+ Tank Mixtures: Add 1/2 of the required amount of water to the tank mix. Start the agitation running before adding ARMADA 50 WDG and any tank mix partner(s). In general, tank mix partners should be added in this order: (1) products packaged in water soluble packaging, wettable powders, wettable granules (such as ARMADA 50 WDG), (2) liquid flowables, liquids; and (3) emulsifiable concentrates. Always allow each tank mix partner to become fully 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.

If using ARMADA 50 WDG in a tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations that appear on the tank mix product label. No label dosage rate should be exceeded, and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product that prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are labeled.

ARMADA 50 WDG is compatible with most insecticide, fungicide, and foliar nutrient products. However, the compatibility of ARMADA 50 WDG with tank mix partners should be tested before use.

To determine biological compatibility with other products, mix the products in the desired proportions, spray on target plants and observe for phytotoxicity seven days after the application.

Observe all directions, precautions, and limitations on labeling of all products used in tank mixes. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

Use with additives: Use of spray additives are not required. Any spray additive should be evaluated prior to use. Do not use in conjunction with organosilicate-based products, or plant injury may occur. Label directions are based on data with no additives.

Chemigation: Do not apply this product through any type of irrigation system.

Resistance Management: ARMADA 50 WDG contains the strobilurin class of chemistry, which exhibits no known cross-resistance to other chemical classes including sterol inhibitors, dicarboximides, benzimidazoles, anilinopyrimidines, or phenylamides. However, certain fungal pathogens are known to develop resistance to products used repeatedly. Because resistance development cannot be predicted, the use of this product should conform to resistance management strategies. 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. Bayer encourages responsible product stewardship to ensure effective long-term control of the fungal diseases on this label. See specific recommendations in the turf section and the ornamentals section.

TURFGRASS DISEASE CONTROL

ARMADA 50 WDG is a preventive and curative fungicide that may be applied to turf sites including institutional, commercial and residential lawns, sod farms, sports fields, parks, municipal grounds and cemeteries.

ARMADA 50 WDG is a broad spectrum fungicide for the control of dollar spot (*Sclerotinia homoeocarpa*), brown patch (*Rhizoctonia solani*), anthracnose (*Colletotrichum graminicola*), red thread (*Corticium fuciforme*), pink patch (*Limonomyces roseipellis*), leaf spot (*Bipolaris* spp., *Drechslera* spp.), gray leaf spot (*Pyricularia grisea*), rust (*Puccinia* spp.), pink snowmold (*Microdochium nivale*), fusarium patch (*Fusarium nivale*), southern blight (*Sclerotium rolfsii*), stripe smut (*Ustilago striiformis*), rapid blight, and summer patch (*Magnaporthe poae*). When conditions are favorable for Pythium blight (*Pythium* spp.), mix a Pythium control fungicide with ARMADA 50 WDG.

1. FUNGICIDES SUCH AS ARMADA 50 WDG ARE BEST USED IN A PREVENTIVE DISEASE CONTROL PROGRAM. CURATIVE APPLICATIONS CAN BE MADE FOR CERTAIN DISEASES.
2. Apply in 1-2 gal of water per 1,000 sq ft to ensure thorough coverage. For soil-borne diseases, such as summer patch and take-all patch, use sufficient water to reach the crown and upper root zone, or irrigate immediately after application with sufficient water to move the active ingredient down into the crown and root zone of the turf.
3. Apply after mowing OR allow sprayed area to completely dry before mowing.
4. For control of both foliar and soil-borne diseases, allow sprayed area to completely dry before irrigation.
5. Under conditions optimum for high disease pressure, use the higher rate and the shorter interval.
6. For optimum turf quality and disease control, use ARMADA 50 WDG in conjunction with turf management practices that promote good health and optimum disease control.
7. Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.

Plant Health

Apply ARMADA 50 WDG at 1.2 to 1.5 oz/1,000 sq ft to sod production of warm season grasses such as St. Augustine's, centipede, and Bermuda grass. The following plant health enhancements will be seen 30 to 60 days after application of ARMADA 50 WDG, visible leaf greenness and density. Sod laid under shade trees also benefits in turf quality when this application is made prior to transfer.

Resistance Management for Turfgrass

Do not apply more than 2 sequential ARMADA 50 WDG fungicide applications for gray leaf spot control. Do not apply more than 3 sequential applications of ARMADA 50 WDG fungicide for all other diseases. Alternate with a fungicide having a different mode of action.

Tank Mixes

For more broad-spectrum control ARMADA 50 WDG can be tank mixed with other fungicides. Check compatibility before tank mixing. ARMADA 50 WDG CAN BE APPLIED TO ALL MAJOR TURFGRASS SPECIES. RATES ARE DEPENDENT UPON DISEASE AND THE ORGANISM THAT IT IS INCITED BY.

Turfgrass Diseases Controlled with ARMADA 50 WDG			
Disease	ARMADA 50 WDG	OZ OF ARMADA 50 WDG PER 1,000 SQ FT	Application Interval/Timing
Dollar Spot	Apply when conditions are favorable for disease development.	0.6-1.5	14-28 days
Brown Patch	Apply when conditions are favorable for disease development.	0.6-1.5	14-28 days
Leaf Spot	Apply when conditions are favorable for disease development.	0.6	14 days
	For curative applications.	1.2-1.5	21-28 days
Anthracnose	Apply when conditions are favorable for disease development.	0.6-1.5	14-28 days
Summer Patch	Make initial application when the soil temperatures reach 65°F. Subsequent applications at 21-28 day interval. Do not make more than 3 sequential applications.	1.2-1.5	21-28 days
Gray Leaf Spot and Rapid Blight	Apply when conditions are favorable for disease development. For best results on Rapid Blight apply ARMADA 50 WDG at the highest rate.	0.6-1.5	14-28 days
Red Thread, Pink Patch	Apply when conditions are favorable for disease development.	0.6-1.5	14-28 days
Rust	Apply when conditions are favorable for disease development.	0.6-1.5	14-28 days
Southern Blight	Preventive applications only	0.6-1.5	Repeat at 14-day intervals.
Stripe Smut	Make the first application in the spring just before the turf breaks dormancy followed by a second application just prior to the summer heat stress period and a third application when the cool nighttime temperatures of the late summer or early fall return.	0.6	3 applications/season Spring, Early Summer, and Early Fall
Fusarium Patch	Apply when conditions are favorable for disease development.	1.2-1.5	Fall-Early Spring
Pink Snow Mold	Apply one application in late fall before snow cover or early spring after snow melts. Do not apply on top of snow.	1.2-1.5	Late Fall
Take-All Patch	Apply 1 to 2 applications preventatively.	1.2-1.5	28 days
Necrotic Ring Spot	Apply 1 to 2 applications preventatively.	1.2-1.5	28 days
Large Patch	Apply 1 to 2 applications preventatively when conditions are favorable for disease development.	1.2-1.5	28 days
Fairy Ring	First application is prescribed in the spring when 5 day average daily soil temperatures taken at 2 inches are 60-65°F. The second application is prescribed 14 to 28 days later. Make applications in 2 gallons water/1,000 sq ft. Water in application with 1/8 to 1/4 inch of irrigation within 6-8 hours after application. Tank mixing with Revolution wetting agent will decrease the fungicidal efficacy of ARMADA 50 WDG. Apply wetting agents 2 weeks after the ARMADA 50 WDG application on routine schedule for wetting agents.	1.2-1.5	14-28 days

For preventive applications, apply when conditions are favorable for disease. Use the higher rate/shorter interval for curative applications or under severe disease conditions.

Apply ARMADA 50 WDG at 1.2-1.5 oz /1,000 sq ft 15-30 days pre-harvest for plant health benefits.

Maximum Use Rates

For turfgrass, up to 207.1 oz of ARMADA 50 WDG can be applied per acre per year.

ORNAMENTAL DISEASE CONTROL

ARMADA 50 WDG is a broad-spectrum fungicide for the control of certain foliar and stem diseases of ornamentals grown in interiorscapes (such as shopping malls, shopping centers, hotel lobbies, etc.) and residential and commercial landscapes.

Foliar Diseases: ARMADA 50 WDG will control foliar diseases of ornamental plants when applied as a foliar spray to the plant species listed on this label. Apply 3 to 9 oz ARMADA 50 WDG per 100 gallons of spray solution. Apply as a full-coverage spray to the point of drip and repeat at 14 to 28 day intervals until the threat of disease is over. Begin applications when conditions are favorable for disease development and continue until the threat of disease is over. Use higher rates or shorter intervals under high disease pressure.

Spray Additives: Use of spray additives such as spreaders, stickers, extenders, trace elements or fertilizers should be evaluated prior to use. The label directions given here are based on data obtained with no additives; use of any product with ARMADA 50 WDG may affect the result.

Plants		
Flowering and Foliage Plants	Ornamental Shrubs, Trees, and Fruit Trees	Shade Trees
Ageratum	Amelanchier	Ash
Aster	Apple (non-bearing)	Aspen
Begonia	Azalea	Birch
Calendula	Barberry	Buckeye
Canna	Buckthorn	Chestnut
Carnation	Camellia	Cottonwood
Chrysanthemum	Cedar	Elm
Cineraria	Cherry(non-bearing)	Fir
Crassula	Crabapple	Locust
Dahlia	Crape myrtle	Maple
Daisy	Cypress, Leyland	Oak
Delphinium	Dogwood	Pine
Dianthus	Euonymus	Poplar
Four O'Clock	Gardenia	Russian Olive
Geranium	Hawthorn	Sycamore
Gerbera	Hemlock	Walnut
Grape Leaf Ivy	Holly	Willow
Hollyhock	Juniper	
Hydrangea	Leucothoe	
Iris	Lilac	
Kalanchoe	Mock-Orange	
Marigold	Mountain Laurel	
Nephthytis	Ninebark	
Pansy	Paulownia	
Petunia	Pear (non-bearing)	
Phlox	Photinia	o o o o o o o o o o o o o o o
Poinsettia	Pittosporum	o o o o o o o o o o o o o o o
Rose	Plum (non-bearing)	o o o o o o o o o o o o o o o
Salvia	Potentilla	o o o o o o o o o o o o o o o
Sedum	Privet	o o o o o o o o o o o o o o o
Snapdragon	Pyracantha	o o o o o o o o o o o o o o o
Sunflowers	Rhododendron	o o o o o o o o o o o o o o o
Zinnia	Spirea	o o o o o o o o o o o o o o o
	Viburnam	
	Vitex	

NOTICE TO USER: Plant tolerance to ARMADA 50 WDG has been found to be acceptable on all ornamentals that it has been tested on with the exception of Petunia, Violets, and New Guinea impatiens. Due to the large number of species and varieties of ornamentals plants, it is impossible to test every one for tolerance to ARMADA 50 WDG. Neither the Manufacturer nor the Seller has determined whether or not ARMADA 50 WDG can be used safely on ornamental plants not specified on this label. The professional user should determine if ARMADA 50 WDG can be used safely prior to commercial use. In a small area test the recommended rates on a small number of plants for phytotoxicity prior to widespread use. Before using ARMADA 50 WDG in tank mixture with other products, test the mixture on a small number of plants for phytotoxicity prior to widespread use.

Before using ARMADA 50 WDG on plants that are not listed on this label, test ARMADA 50 WDG on a small scale first.

Common and scientific names of diseases controlled by ARMADA 50 WDG	
Common Name	Scientific Name
Anthracnose	<i>Apiognomonia veneta</i> <i>Colletotrichum gloeosporioides</i> <i>Discula quercina</i> <i>Gloeosporium aridum</i> <i>Glomerella cingulata</i>
Black spot	<i>Diplocarpon rosae</i>
Downy mildew	<i>Peronospora</i> spp.
Leaf spot	<i>Cercospora</i> spp. <i>Entomosporium</i> spp. <i>Septoria</i> spp.
Powdery mildew	<i>Erysiphe</i> spp. <i>Microsphaera</i> spp. <i>Oidium</i> spp. <i>Podosphaera</i> spp. <i>Sphaerotheca</i> spp. <i>Uncinula</i> spp.
Rust	<i>Coleosporium</i> spp. <i>Gymnosporangium</i> spp. <i>Melampsoridium</i> spp. <i>Phragmidium</i> spp. <i>Puccinia</i> spp. <i>Uromyces</i> spp.
Scab	<i>Cladosporium</i> spp. <i>Venturia inaequalis</i>

Conversion Table for ARMADA 50 WDG: cup, gram, ounce	
1/4 Cup = 33 grams = 1.16 oz	1/3 Cup = 44 grams = 1.55 oz
1/2 Cup = 66 grams = 2.33 oz	3/4 Cup = 99 grams = 3.49 oz
1 Cup = 132 grams = 4.66 oz	

Maximum Use Rates in Ornamentals

For ornamental plants do not exceed 207.1 oz of ARMADA 50 WDG per acre per year

Prescribed Applications		
Christmas Trees (Except Concolor Fir)	Stem and Cone Rusts <i>Cronartium spp.</i> (Fusiform) <i>Peridermium spp.</i> <i>Endocronartium Harknessii</i> (Gall) Tip blight <i>Sirococcus strobilinus</i> Lophodermium Needlecast <i>Lophodermium pinestri</i>	9 oz/A
	<p>Apply specified dosage per acre or per 100 gal of water as a full coverage, dilute spray as needed. Full coverage of the trees is essential for maximum control. Use of nonionic spray adjuvant is recommended. Time applications appropriately for the specific disease being controlled. A maximum of 207.1 oz of ARMADA 50 WDG may be applied per acre per season.</p> <p>For rusts, begin applications when the needles break through the fascicle sheath. Make additional applications at 14 to 21-day intervals. Stop when galls become pale to white color.</p> <p>For tip blight, begin applications to coincide with bud break. Make two additional applications at 14-day intervals.</p> <p>For Lophodermium needlecast, begin applications to coincide with spore release, normally beginning in mid-July and ending in mid-October. Make applications at 21-day intervals. Extend interval to 28 days if spore release is light or dry weather is expected.</p>	
Pine (Seedlings) (Except California)	Pine Rust (Fusiform rust)	9 oz/A
	<p>Begin application prior to infection period and repeat as necessary at 14 to 21-day intervals depending upon disease pressure. Use lower rates in areas of low disease incidence and higher rates in areas of severe disease incidence. A maximum of 207.1 oz of ARMADA 50 WDG may be applied per acre per season. A spreader-sticker is needed to help adhere spray solution to the pine trees.</p> <p>Do not apply ARMADA 50 WDG on recent grafted scions until one year after grafting.</p>	

Restrictions

1. For ground application, use a minimum of 50 gals of water/A.
2. For aerial application, use a minimum of 10 gals of water/A.
3. To avoid spray drift, do not apply when conditions favor drift beyond the target area. Avoid spray overlap. For information on spray equipment and calibration, consult sprayer manufacturers and state recommendations. For specific local directions and spray schedules, consult the current state agricultural experiment station recommendations.
4. Use of spray additives are not required. Any spray additive should be evaluated prior to use. Do not use in conjunction with organosilicate-based products, or plant injury may occur. Label directions are based on data with no additives.

Resistance Management for Ornamentals

ARMADA 50 WDG contains a modern, site-specific fungicide belonging to the strobilurin class of chemistry. Fungal pathogens are known to develop resistance to fungicides with a specific mode of action. When site-specific fungicides are introduced without a clear resistance management strategy, resistance development may be rapid, particularly with greenhouse use.

ARMADA 50 WDG exhibits cross-resistance to other strobilurins and fungicides within the Strobilurin Type Action and Resistance group (STAR compounds), but there is no known cross-resistance to fungicides of other classes including sterol inhibitors, dicarboximides, benzimidazoles, anilinopyrimidines, phenylpyrroles, or phenylamides.

Many fungi which attack ornamentals and flowering plants including Botrytis and powdery mildews have a history of fungicide resistance development. Because resistance development cannot be predicted, implementation of suitable strategies to manage the resistance risk to ARMADA 50 WDG is needed. To minimize the risk of resistance development to ARMADA 50 WDG, the following practices are recommended.

1. Use ARMADA 50 WDG preventively.
2. For Leaf Spots and diseases other than Powdery Mildew, Downy Mildew, and Botrytis:

- Use no more than two (2) applications of ARMADA 50 WDG before rotating to another effective product that is not in the strobilurin class of chemistry for two (2) applications before rotating back to ARMADA 50 WDG.

OR

- Rotate to another fungicide of nonstrobilurin chemistry after each ARMADA 50 WDG application.
3. For Powdery Mildew, Downy Mildew, and Botrytis:
- Between each ARMADA 50 WDG application, make two (2) applications of a fungicide of nonstrobilurin chemistry before rotating back to ARMADA 50 WDG.

OR

- Rotate to another fungicide of nonstrobilurin chemistry after each ARMADA 50 WDG application.
4. Make no more than four (4) foliar applications of ARMADA 50 WDG per season for each at risk pathogen.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

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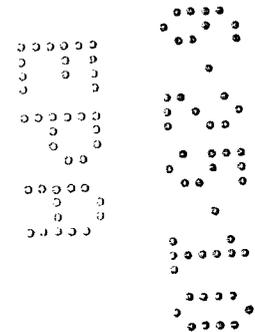
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Produced for



Bayer Environmental Science

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