



432-1440

09/26/2008

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 <p align="center"><b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b>  <b>Office of Pesticide Programs</b>  <b>Registration Division (7505P)</b>  <b>Ariel Rios Building</b>  <b>1200 Pennsylvania Ave., NW</b>  <b>Washington, D.C. 20460</b></p>	EPA Reg. Number: 432-1440	Date of Issuance: <b>SEP 26 2008</b>
	Term of Issuance: conditional	
	Name of Pesticide Product: <b>SysStar WDG Fungicide</b>	
<p align="center">NOTICE OF PESTICIDE:          _ Registration  <u>X</u> Reregistration          (under FIFRA, as amended)</p>		
Name and Address of Registrant (include ZIP Code): Bayer Environmental Sciences 2 T.W. Alexander Drive P.O. Box 12014 Research Triangle Park, NC 27709		
<p><b>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.</b></p>		
<p>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.</p> <p>Based on your response to the Thiophanate-methyl Reregistraion Eligibility Decision (RED) document, EPA has reregistered the product listed above provided you make the changes stated below. This action is taken under the authority of section 4 (g)(2)(C) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain registration of your product.</p> <p>Note: The chemical name for flutolanil is misspelled in the ingredients statement. The correct spelling is: N-(3-(1-methylethoxy) phenyl)-2-(trifluoromethyl)- benzamide. Correct this error prior to release of the product for shipment.</p> <p>On page 2, the statement above the User Safety Requirements must be included in a box and the heading User Safety Requirements added.</p>		
Signature of Approving Official:  Shaja Joyner PM 20 Fungicide Branch Registration Division (7505P)	Date: <b>SEP 26 2008</b>	

Note: You may delete the text "Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas." from the Agricultural Use Requirements box on page 2.

A copy of your label stamped "Accepted with comments" is enclosed for your records. If you have any questions, contact Lisa Jones of my team at (703) 308-9424 or at [jones.lisa@epa.gov](mailto:jones.lisa@epa.gov).

Sincerely,



Shaja B. Joyner  
Product Manager (20)  
Fungicide Branch

Enclosure

7505P:CGrable:cg:9/25/08

# SysStar® WDG Fungicide

**A systemic water dispersible granular formulation for excellent control of multiple turfgrass and ornamental plant diseases.**

<b>ACTIVE INGREDIENT:</b> Thiophanate-methyl, (dimethyl [(1,2-phenylene) - bis (iminocarbonothioyl)] bis [carbamate]).....	<b>28.58%</b>
Flutolanil, N-3[-(-methyleoxy) phenyl] (1-2 trifluoromethyl) – benzamide.....	<b>51.42%</b>
<b>INERT INGREDIENTS:</b> .....	<b>20.00%</b>
<b>TOTAL:</b> .....	<b>100.00%</b>

EPA Reg. No. 432-1440

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

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

For PRODUCT USE Information Call 1-800-331-2867

### FIRST AID

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p><b>For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.</b></p> <p>Have the product container or label with you when calling a poison control center or doctor or going for treatment.</p>	

### PRECAUTIONARY STATEMENTS

#### CAUTION

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:**

**SEP 26 2008  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.**

**432-1440**

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are polyvinyl chloride (> 14 mil), natural rubber and polyethylene. If you want more options, follow instructions for Category A on an EPA chemical resistant selection chart.

Applicators and other handlers must wear long-sleeved shirt and long pants, chemical resistant (category A) gloves and shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove PPE/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 product is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

### 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 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.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

Do not enter or allow worker entry into treated areas during the restricted entry interval 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:

- Coveralls over long sleeved shirt and long pants,
- Chemical-resistant gloves made of any waterproof material,
- Chemical-resistant footwear plus socks and
- Chemical-resistant headgear for overhead exposures.

### GENERAL INFORMATION:

SysStar WDG fungicide is an efficacious formulation of two systemic chemical fungicides. Flutolanil and thiophanate methyl together give excellent control of multiple turfgrass and ornamental plant diseases for long periods of time due to their systemic activity. SysStar WDG is a water dispersible granular especially suitable for application with conventional spraying equipment. After applying SysStar WDG, irrigate with sufficient water to move the product down to the soil line. With adequate water to move the chemicals through the soil profile to the plant roots, fungicidal activity begins when the roots absorb the fungicide and translocate it through out the treated plant. Thirty days of control is generally obtained. The chemical presence is largely diminished buy removal of clippings when mowed. Otherwise, much longer protection can be obtained.

SysStar WDG controls both dollar spot and brown patch diseases of turfgrass. It works both as a preventive and curative fungicide. Other diseases controlled by SysStar WDG include fairy ring, patch diseases, and Ectotrophic fungi – caused root diseases.

For ornamental landscape, nursery and container grown plants, SysStar WDG may be foliar sprayed or drenched into the planting soils, where many diseases are controlled. When the fungicide is absorbed by the roots it is translocated through-out the growing plants. Rhizoctonia, Sclerotium rolfsii, and Gaeumannomyces graminis can be prevented from disease activity. Oomycete fungi are not controlled with SysStar WDG.

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Systemic fungicides are more effective when taken up by the roots and carried upward through the plant in the xylem stream. Roots, crowns, and shoots are all protected in this manner. Use SysStar WDG for the ultimate fungi control and protection. Dual systemic action without growth regulation on the treated plant.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box only 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, and greenhouses. Do not enter or allow others to enter until sprays have dried.

### APPLICATION INSTRUCTIONS

#### TURF

For use on all fine turf applications such as industrial lawns, athletic field, home lawns, cemeteries, golf course greens, tees, and fairways of Bentgrasses, Bluegrasses, Bermudagrasses, Zoysiagrass, Fescues, Ryegrasses, St. Augustine grasses or their mixtures. SysStar WDG is not phytotoxic. Use the highest recommended rates when conditions are favorable to disease development.

Do not apply more than 3.53 oz per 1000 sq ft of SysStar WDG per single application or 38 lbs. of SysStar WDG per acre per year to residential or public turf areas with a minimum retreatment interval of 14 days.

Do not apply more than 6.12 oz per 1000 sq ft of SysStar WDG per single application or 76 lbs. per acre per year to golf course greens, tees, and aprons with a minimum retreatment interval of 14 days.

Do not apply more than 19 lbs of SysStar WDG per acre per year to golf course fairways except for Florida. For Florida, do not apply more than 9.5 lbs of SysStar WDG per acre per year to golf course fairways.

Not for homeowner use. For use only by certified applicators or those under their immediate supervision. Do not apply with fixed or rotary aircraft. Not for use on turf being grown for sale or other commercial use as sod.

#### **DOLLAR SPOT (*Sclerotinia homoeocarpa*), ANTHRACNOSE (*colletotricum graminicola*)**

Apply SysStar WDG at 2.0 to 3.0 oz/1000 sq ft beginning when disease first appears and continue at 14 day intervals through the season. Thirty day control is possible, especially at higher application rate. Reduce spray intervals when conditions are unusually favorable for disease development.

#### **LARGE BROWN PATCH OR RHIZOCTONIA BLIGHT (*Rhizoctonia solani*), COPPER SPOT (*Gloeocercospora sorghi*), RED THREAD (*Cortecium fuciforme*), FUSARIUM PATCH (*Fusarium nivale*).**

Apply SysStar WDG at 2.0 to 3.0 oz/1000 sq ft beginning at first disease appearance. Continue applications at 14 to 21 day intervals through the season.

#### **RED THREAD, PINK PATCH, YELLOW PATCH, SOUTHERN BLIGHT**

Apply SysStar WDG at 2.0 oz/1000 sq ft beginning at first disease appearance. Continue applications at 21- 28 day intervals through the season.

#### **GRAY LEAF SPOT, LEAF SPOT (*Dreschlera* spp.) (*Helminthosporium* spp.)**

Apply SysStar WDG at 2.0 to 3.0 oz/1000 sq ft beginning when disease first appears. Continue at 14 day intervals.

**GRAY SNOW MOLD (*Typhula* spp.) PINK SNOW MOLD (*Microdochium nivale* spp.)** Apply in the fall, prior to snow cover 4.0 to 6.12 oz/1000 sq ft. For best results lightly water this application into the root zone.

**FAIRY RING (including: *Marasmius* spp., *Lepiota* spp., *Agaricus* spp.)** Preventative: applied at 3.0 oz/1000 sq ft in 3-5 gallons of water may suppress the development of fairy ring caused by various basidiomycete pathogens. A second application may be made at a 21 to 28 day interval using the same dosage rate. Curative: applied at 6.12 oz/1000 sq ft in 10-50 gallon of water may suppress the development of fairy ring. Application should be make as a spot treatment to the affected area at the first sign of ring development (greening, death of turf, mushrooms). Symptom suppression may be temporary and symptoms may reoccur. Aerification prior to subsurface applications has been beneficial in some cases. Use of a nonionic surfactant in combination with SysStar WDG is recommended. Treated areas should be irrigated prior to and after application with sufficient water to maintain growth of turf. Do not treat more than 10,000 sq ft per acre of turf area.

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**ORNAMENTALS**

SysStar WDG is a broad spectrum systemic fungicide which controls a variety of diseases on annual and perennial plants, ground covers, woody and herbaceous ornamentals in greenhouses, shade houses, saran houses and outdoor containers; field grown and nursery stocks. Apply SysStar WDG with conventional spraying equipment in a uniform manner for even coverage. Use the highest recommended rates when conditions are favorable to disease development. Do not use any treated plants for food or feed purposes.

PLANT TYPES AND DISEASES CONTROLLED	
DISEASE(S)	PLANT TYPES
Anthracnose	woody ornamentals, shade trees (1)
Ascochyta Blight	herbaceous ornamentals
Black Spot	roses
Botrytis (Gray mold)	woody and herbaceous ornamentals
Rhizoctonia	woody and herbaceous ornamentals
Cercospora Leaf Spot	woody and herbaceous ornamentals
Corynespora Leaf Spot	ligustrum
Didymellina Leaf Spot	iris
Diplodea Tip Blight (Diplodea piea)	shade and ornamental trees
Ovulinia	azalea, rhododendron (2)
Entomosporium Leaf Spot	woody and herbaceous ornamentals
Phomopsis Blight	woody and herbaceous ornamentals
Powdery Mildew	woody and herbaceous ornamentals, ornamental nut and fruit trees (non edible fruit)
Ramularia Leaf Spot	herbaceous ornamentals
Scab	pyracantha, flowering crab, ornamental fruit and nut trees (non edible fruit)
Septoria Leaf Spots	woody and herbaceous ornamentals

- (1) Begin at bud break and make 2 or 3 additional applications at 10 to 14 day intervals.
- (2) Begin treatment as flowers open.
- (3) Make no more than four applications of SysStar WDG per year to ornamental plantings.

Foliar spray application: Apply SysStar WDG at 4 to 8 oz/100 gallons of water. Do not apply more than 76 lbs of product per acre per year. Spray mixture until spray runs off of foliage. For best results apply prior to disease development.

Soil drench application: Apply SysStar WDG at 2 to 4 oz/100 gallons of water. Application to ground and raised beds should be delivered at 1 pint drench solution per square foot (4 inch depth or less) and 2 pints per square foot for depths greater than 4 inches. Re-apply as needed for disease control.

SysStar WDG systemic fungicide may be applied over-the-top of ornamental plants or drenched into the soil. The active ingredients are then absorbed by the foliage or the roots on contact and move via the xylem stream upward through the plant.

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

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## 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 area.

### PESTICIDE DISPOSAL:

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### CONTAINER DISPOSAL:

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## 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.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** 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. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

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SysStar is a registered trademark of Regal Chemical

Produced for



**Bayer Environmental Science**

Bayer Environmental Science  
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Research Triangle Park, NC 27709

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