



PLANT PATHOLOGY SERIES

# TIMELY INFORMATION

## Agriculture & Natural Resources

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EXTENSION PLANT PATHOLOGY, EXTENSION HALL, AUBURN UNIVERSITY, AL 36849-5624  
April 13, 2005 PP-589

### **OFF-THE SHELF FUNGICIDES SOLD IN GARDEN CENTERS AND OTHER RETAIL OUTLETS FOR DISEASE CONTROL ON HOME LAWNS**

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To comply with the guidelines of the 1996, Food Quality Protection Act, the home lawn registration for the fungicide chlorothalonil was voluntarily cancelled. Since then, all references to the use of all newly packaged chlorothalonil products that are sold in the home pesticide market have been deleted from their label. These fungicides still can be used to control diseases on a wide range of vegetables and ornamentals, as well as some tree fruits. In the home turf disease control market, Chlorothalonil has been replaced with the sterol biosynthesis fungicides propiconazole, myclobutanil, and triadimefon. All three fungicides generally give very effective control of the target diseases and several are now formulated for easy application to small areas without the need for a back pack or boom type sprayer system. In addition, all foliar-applied formulations of propiconazole, myclobutanil, and triadimefon are also labeled for the control diseases on annuals, perennials, and woody plants. Since these three fungicides have the same mode of action, there is a risk with continued use with one or all three that control failures due to the appearance of fungicide tolerant or resistant strains may occur. Control failures due to resistance can be avoided by making no more than three applications of any of the above fungicides per growing season. The highest risk for a control failure due to resistance is with the disease Dollar Spot.

This is not an exhaustive listing of all of the fungicides in the retail market that are sold for use on Alabama home lawns. However, many of these products are marketed by well-known distributors at retail outlets like Home Depot, Lowes, and Wal-Mart, as well as numerous local garden centers and nurseries. If another product is available in your area that is not listed in this publication, please send me a label.

| Fungicide   | Disease                            | Rate/1000 ft <sup>2</sup> | Comments   |
|---|------------------------------------|---------------------------|--|
| Lawn Fungicide Granules<br>Hi-Yield®<br>(triadimefon)                                 | Dollar Spot                        | 1.5 to 3 lb<br><br>6 lb   | <b>Preventative:</b> Apply when disease is likely to appear and repeat at 14 to 30 day intervals as needed. Apply ¼ inch of water immediately after application.<br><b>Curative:</b> Use to control existing disease outbreaks. Follow above preventative program guidelines for additional treatments. Apply ¼ inch of water immediately after application.<br>See label for spreader settings. |
|   | Brown Patch<br>Rust                | 3 to 6 lb                 | <b>Preventative:</b> Apply when disease is likely to appear and repeat at 14 to 30 day intervals as needed. Apply ¼ inch of water immediately after application.<br><b>Curative:</b> Use to control existing disease outbreaks. Apply higher rate at shorter interval. Apply ¼ inch of water immediately after application.<br>See label for spreader settings.                                  |
| Lawn Disease Control<br><i>Ready to Spray</i> ®<br>Ortho® Products<br>(propiconazole) | Dollar Spot<br>Leaf Spot/Crown Rot | 0.3 qt                    | Apply at first sign of disease. Reapply every 28 days as needed. One quart container covers 3200 ft <sup>2</sup> of lawn.  |
|   | Brown Patch                        | 0.6 qt                    | Apply at first sign of disease. Reapply every 14 days as needed. One container treats 1600 ft <sup>2</sup> of lawn.  |
|   | Take-All                           | 0.6 qt                    | Apply at first sign of disease in spring or early summer and reapply 14 to 28 days later. One container treats 1600 ft <sup>2</sup> of a St. Augustinegrass lawn.  |
|   | Spring Dead Spot                   | 0.6 qt                    | Apply in September and October. One container treats 1600 ft <sup>2</sup> of a bermudagrass or zoysiagrass lawn.   |
| Systemic Fungicide<br>ferti-loam®<br>(propiconazole)                                  | Brown Patch                        | 20 fl oz                  | Apply in 4 gallons of water per 1000 ft <sup>2</sup> when conditions favor disease or at first sign of disease. Repeat every 10 days as needed.  |
|   | Dollar Spot<br>Rust                | 12 fl oz                  |  |
| Terraclor® Granular Fungicide<br>Hi-Yield®<br>(PCNB)                                  | Brown Patch<br>Dollar Spot         | 8 lb                      | Apply at first sign of disease. Retreat at 3 to 4 week intervals as needed. See label for spreader settings.   |
| Fungus Control for Lawns<br>Bayer Advanced Lawn®<br>(triadimefon)                     | Brown Patch<br>Rust                | 1.5 lb                    | <b>Preventative:</b> Apply when disease is likely to appear and repeat at 15 to 30 day intervals as needed. Apply ¼ inch of water immediately after application.<br><b>Curative:</b> Use to control existing disease outbreaks. Reapply at 15-30 day intervals. Apply ¼ inch of water immediately after application.   |
|   |                                    | 3 lb                      |  |

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|---|---------------------|--------|---|
|   |                     |        | See label for spreader settings.  |
|   | Dollar Spot         | 1.5 lb | <b>Preventative:</b> Apply when disease is likely to appear and repeat at 30 day intervals as needed. Apply ¼ inch of water immediately after application.<br><b>Curative:</b> Use to control existing disease outbreaks. Follow above preventative program guidelines for additional treatments. Apply ¼ inch of water immediately after application.<br>See label for spreader settings.            |
| Immunox® Lawn Disease Control<br>Spectracide®<br>(myclobutanil)   | Dollar Spot         | 3-8 lb | Apply when conditions favor disease or when symptoms are first seen. Repeat every 14- to 28 days as needed. Use higher rate at shorter interval when disease is severe. <b>Caution,</b> make no more than 3 consecutive applications of this fungicide and then switch to a fungicide with a different mode of action (i.e. PCNB). Lightly irrigate after treatment. See label for spreader settings. |
|   | Rust                | 4 lb   |   |
|   | Leaf Spot/Crown Rot | 4 lb   | Apply when conditions favor disease or when symptoms are first seen. Repeat every 14 days. <b>Caution,</b> make no more than 3 consecutive applications of this fungicide. Lightly irrigate after treatment. See label for spreader settings.   |
|   | Brown Patch         | 4-8 lb | Apply when conditions favor disease and symptoms are not present. Reapply every 14 days as needed. <b>Caution,</b> make no more than 3 consecutive applications of this fungicide and then switch to a fungicide with a different mode of action (i.e. PCNB). Lightly irrigate after treatment. See label for spreader settings.  |
|   | Take-All Patch      | 8 lb   | Make one or two applications in September and/or October, and apply twice in the spring after the green-up of the lawn. Space applications 28 days apart. Irrigate with 3 to 4 gallons of water per 1000 ft <sup>2</sup> of lawn. See label for spreader settings.  |
| Immunox® Lawn Disease Control<br>Systemic Fungicide Concentrate<br>Ready to Spray Concentrate<br>Spectracide®<br>(myclobutanil) | Dollar Spot         | 0.3 qt | Apply when conditions favor disease or at first sign of disease symptoms. One quart bottle will treat 3000 ft <sup>2</sup> of lawn. Reapply at 14-day intervals as needed. <b>Caution,</b> make no more than 3 consecutive applications of this fungicide and then switch to a fungicide with a different mode of action (i.e. PCNB). See label for additional application instructions.              |
|   | Brown Patch         | 0.3 qt |   |
|   | Leaf Spot/Crown Rot | 0.3 qt |   |
|   | Rust                | 0.3 qt |   |
|   | Spring Dead Spot    | 0.3 qt | Make first application in early September and make two additional applications at 14-day intervals. Target areas of the lawn that were previously damaged by spring dead spot for treatment.  |

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|---|-------------|----------|--|
| Systemic Fungicide for Turf and Ornamentals<br>Southern Agricultural Insecticides Inc.<br>(triadimefon) | Dollar Spot | 28 fl oz | <b>Preventative:</b> Apply when conditions favor disease but before symptoms are seen. Repeat as needed at 30-day interval. Apply in 3 to 5 gallons of water per 1000 ft <sup>2</sup> of lawn treated. |
|   |             | 56 fl oz | <b>Curative:</b> Apply after symptoms are seen. Follow preventative program if additional applications are needed. Apply in 3 to 5 gallons of water per 1000 ft <sup>2</sup> of lawn treated.          |
|   | Brown Patch | 28 fl oz | <b>Preventative:</b> Apply when conditions favor disease but before symptoms are seen. Repeat as needed at 30-day interval. Apply in 3 to 5 gallons of water per 1000 ft <sup>2</sup> of lawn treated. |
|   |             | 56 fl oz | <b>Curative:</b> Apply after symptoms are seen. Follow preventative program if additional applications are needed. Apply in 3 to 5 gallons of water per 1000 ft <sup>2</sup> of lawn treated.          |
|   | Rust        | 28 fl oz | <b>Preventative:</b> Apply when conditions favor disease but before symptoms are seen. Repeat as needed at 30-day interval. Apply in 3 to 5 gallons of water per 1000 ft <sup>2</sup> of lawn treated. |
|   |             | 56 fl oz | <b>Curative:</b> Apply after symptoms are seen. Follow preventative program if additional applications are needed. Apply in 3 to 5 gallons of water per 1000 ft <sup>2</sup> of lawn treated.          |
| Halt™ Systemic Fungicide 50W<br>ferti-loam®<br>(a.i. thiophanate-methyl)                                | Dollar spot | 2 oz     | Apply at first sign of disease and repeat applications every 7- to 14-days as needed. Apply in 3 to 5 gallons of water per 1000 ft <sup>2</sup> of lawn.   |
|   | Brown Patch | 2 oz     |  |
|   |             |          |  |