

7969-255 3.20.2009

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Mr. Khalid H. Akkari  
BASF Corporation, Agricultural Products  
PO BOX 13528, 26 Davis Drive  
Research Triangle Park, NC 27709

MAR 20 2009

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated February 24, 2009 for:

**EPA Registration 7969-255 Honor Fungicide (BAS 516 08F)**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Banza Djapao of my staff at 703-305-7269.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0080. Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number BASF Corporation; EPA Reg. No. 7969-255	2. EPA Product Manager Shaja Joyner	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Honor fungicide (BAS 516 08F)	PM# 20	
5. Name and Address of Applicant (Include ZIP Code) BASF Corporation, Agricultural Products P.O. Box 13528, 26 Davis Drive Research Triangle Park, NC 27709 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: <b>NOTIFICATION</b> EPA Reg. No. _____ <b>MAR 20 2009</b> Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____ Not Applicable
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

"Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

### Section - III

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

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Khalid H. Akkari		Title Product Registration Manager		Telephone No. (include Area Code) (919) 547-2576	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received  <b>(Stamped)</b>
2. Signature <i>K. H. Akkari</i>		3. Title Product Registration Manager			
4. Typed Name Khalid H. Akkari		5. Date February 24, 2009			



The Chemical Company

February 24, 2009

Document Processing Deck (NOTIF)  
Office of Pesticide Programs (7504P)  
U. S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

Dear Sir / Madam:

**SUBJECT: Notification of Honor™ fungicide (EPA Reg. No. 7969-255) Label Amendment per PR Notice 2007-4**

**Reference: Pesticide Registration Notice (PR) 2007- 4: Labeling Revisions Required by the Final Rule "Pesticide Management and Disposal; Standards for Pesticide Containers and Containment." October 29, 2007.**

BASF Corporation is submitting this notification to the EPA to amend the Container Disposal statements on the **Honor fungicide label (EPA Reg. No. 7969-255) per PR Notice 2007-4**. **BASF is adopting** the exact wording set forth in the regulations and PR Notice 2007-4 and the amended Honor fungicide label is being submitted under the provisions in 40 CFR §152.46 and in accordance with the procedures in PR Notice 98-10. This action does not require the submission of registration service fees under the Pesticide Registration Improvement Act (PRIA) because Agency-initiated amendments are not subject to PRIA.

**Honor fungicide** is a water dispersible granule (WG), solid formulation that is packaged in a 4-liter plastic bottle containing 3 pounds (lb) of product. The container is nonrefillable. Therefore, the appropriate exact wording in Appendix B of PR Notice 2007-4 was used to amend the "Container Disposal" section on page 3 of the Honor fungicide approved Master Label. One copy of the label (with changes clearly marked in a way that can be photocopied) is being submitted along with a completed Application for Registration (EPA Form 8570-1).

The application form bears the following statements:

**"Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."**

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The Chemical Company

The following documents are enclosed in support of the notification as per PR Notice 2007-4.

- (1) EPA Form 8570-1 "Application for Pesticide Notification"
- (2) A marked-up copy of the Honor fungicide label with changes clearly marked in a way that can be photocopied
- (3) An un-marked copy of the Honor fungicide label.

If you have any questions or need clarification or further information, I can be reached directly at (919)-547-2976, or via e-mail at [khalid.akkari@basf.com](mailto:khalid.akkari@basf.com).

Sincerely,  
BASF Corporation

*K. H. Akkari*

Khalid H. Akkari, Ph.D.  
Product Registration Manager  
Regulatory Affairs

enclosures

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GROUP 7 11 FUNGICIDE

# Honor™ fungicide

For disease control on golf course turfgrass.

### NOTIFICATION

**Active Ingredients:**

<b>Pyraclostrobin</b> , (carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester) .....	16.8%
<b>Boscalid</b> , 3-pyridinecarboxamide, 2-chloro-N-(4'-chloro(1,1'-biphenyl)-2-yl) .....	11.2%

<b>Other Ingredients:</b> .....	<u>72.0%</u>
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<b>Total:</b> .....	100.0%
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0.168 oz (0.0105 lb) of pyraclostrobin in 1 oz of Honor™ fungicide  
 0.112 oz (0.007 lb) of boscalid in 1 oz of Honor

MAR 20 2009

EPA Reg. No. 7969-255

EPA Est. No. \_\_\_\_\_

## KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See inside booklet for complete **First Aid, Precautionary Statements, Directions For Use,** and **Conditions of Sale and Warranty,** and state-specific crop and/or use site restrictions.

Net Contents: \_\_\_\_\_

BASF Corporation  
 26 Davis Drive  
 Research Triangle Park, NC 27709



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<b>FIRST AID</b>	
<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>
<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>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).</p>	

**Precautionary Statements**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION.** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

**Personal Protective Equipment (PPE)**  
Some materials that are chemically resistant to this product are listed below. For more options, refer to **Category A** on an EPA chemical resistance category selection chart.

Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

- Applicators and other handlers must wear:**
- Long-sleeved shirt and long pants.
  - Chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene, and/or barrier laminate).
  - Shoes plus socks.

Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Controls Statement**  
When handlers use closed systems or enclosed cabs 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 before eating, drinking, chewing gum, using tobacco, or using the toilet.
  - 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 product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

**DO NOT** apply directly to water, areas where surface water is present, or intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment wash waters or rinsate.

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### Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is violation of federal law.

This pesticide is toxic to fish and aquatic invertebrates and should be used strictly in accordance with drift precautions on this label in order to minimize off-site exposures. **DO NOT** apply when weather conditions favor drift from treated areas to nontarget aquatic habitats. Notify state and/or federal authorities and BASF immediately if you observe any adverse environmental effects due to use of this product.

To determine whether your county has endangered aquatic species, consult the County Bulletins at <http://www.epa.gov/espp/usa-map.htm>.

Endangered Species Bulletins may also be obtained from extension offices or state pesticide agencies. If a bulletin is not available for your specific area, check with the appropriate local state agency to determine if known populations of endangered aquatic species occur in the area to be treated.

### 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. This label must be in the user's possession during application.

**FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.**

**This product is intended for golf course use only. Not for use on residential turfgrass, turfgrass being grown for sale or other commercial use such as sod production, seed production or for research purposes.**

### Nonagricultural 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, nurseries, or greenhouses.

**DO NOT enter or allow others to enter treated areas until sprays have dried.**

### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in original containers only. Keep container closed when not in use. **DO NOT** store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label.

**Pesticide Disposal:** Wastes resulting from using this product may be disposed of on-site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

### CONTAINER DISPOSAL

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity ≤ 50 pounds) 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.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank. 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.

### In Case of Spill

In case of large-scale spillage regarding this product, call:  
CHEMTREC 1-800-424-9300  
BASF Corporation 1-800-832-HELP (4357)

### Steps to be taken in case material is released or spilled:

Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.

Remove contaminated clothing and wash affected skin areas with soap and water.

Wash clothing before reuse.

Keep the spill out of all sewers and open bodies of water.

## General Information

**Honor™ fungicide** is a broad-spectrum fungicide recommended for the control of many important diseases of golf course turfgrass. For maximum efficacy, **Honor** should be applied preventively. **Honor** may be applied as a solo foliar spray or in tank mixes with other registered fungicides.

**DO NOT** exceed the recommended application rate or fail to comply with use restrictions listed in the **Resistance Management** and **Restrictions and Limitations** sections. All applications should be made according to the use directions that follow. Failure to follow directions and precautions on this label may result in injury and/or inferior disease control.

This package contains **Honor**, a water dispersible granule (WG). The active ingredients in **Honor** are pyraclostrobin, a member of the strobilurin (QoI) class of chemistry, and boscalid, a member of the carboxamide (anilide) class of chemistry. Optimum disease control is achieved when **Honor** is applied in a regularly scheduled protective spray program and used in a rotation program with other fungicides. Because of its high specific activity, **Honor** has good residual activity against target fungi.

**Mode of Action:** Pyraclostrobin and boscalid, the active ingredients of **Honor**, belong to the group of respiration inhibitors classified by the USEPA and Canada PMRA as target site of action **Group 11 and Group 7** fungicides, respectively.

## Application Information

### Use Sites

**Use on turfgrass - Honor** may be used for disease control in the following turf use sites:

- golf courses

### Application Instructions

For maximum efficacy, **Honor** should be applied prior to or in the early stages of disease development. For maximum efficacy, apply **Honor** at the rates indicated in **Table 1. - Application Rates and Intervals for Honor fungicide on Golf Course Turfgrass** in 1 to 4 gallons of water per 1000 square feet (43 to 174 gallons per acre). Use the shorter specified application interval and/or the higher specified rate when prolonged favorable disease conditions exist. Applications should be repeated at the specified interval as necessary.

- **Honor** is most effective when applied preventively.
- Actual length of disease control will vary depending on environmental conditions, disease pressure, and management practices.
- Calibrate spray prior to use.
- After application, allow foliage to dry prior to mowing or irrigation.
- Apply **Honor** using sufficient water volume and pressure for adequate coverage of the foliage.
- Apply the recommended rate of **Honor** as instructed in the **Use Directions** section with ground spray equipment.

Aerial application of **Honor** is not permitted.

### Spray Drift Management

**DO NOT** spray when conditions favor drift beyond area intended for application. Conditions that contribute to drift include thermal inversion, wind speed and direction, spray nozzle/pressure combinations, spray droplet size, temperature/humidity, etc. Contact your state extension agent for spray drift prevention guidelines in your area. All application equipment must be properly maintained and calibrated using appropriate carriers. Avoiding spray drift at the application site is the responsibility of the applicator.

### Wind

Drift potential is lowest when wind speed does not exceed 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

### Temperature and Humidity

Low humidity and high temperatures increase the evaporation of spray droplets and, therefore, the likelihood of increased spray drift.

Avoid spraying during conditions of low humidity and/or high temperatures. When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation.

Droplet evaporation is most severe when conditions are both hot and dry.

### Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light, variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

### Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. bodies of water or nontarget crops) is minimal and when wind is blowing away from the sensitive areas.

### Resistance Management

**Honor** fungicide contains two active ingredients: pyraclostrobin, a target site **Group 11** (QoI) fungicide, and boscalid, a target site **Group 7** fungicide. **Honor** is



effective against pathogens resistant to fungicides with modes of action different from those of **Groups 7 and 11**, such as the dicarboximides, sterol inhibitors, benzimidazoles, or phenylamides. Fungal isolates resistant to fungicide in **Group 11** (such as pyraclostrobin, azoxystrobin, and trifloxystrobin) or **Group 7** (such as boscalid and flutolanil) may eventually dominate the population if such fungicides are used predominantly and repeatedly in the same area for successive years as the primary method of control for the targeted pathogen species. This may result in reduction of disease control by **Honor™ fungicide** or other **Group 7 or 11** fungicides. In order to maintain its performance, **DO NOT** exceed the total number of sequential applications of **Honor**. Adhere to the label instructions regarding consecutive use of **Honor** and other **Group 7 or 11** fungicides with a similar site of action on the same pathogens.

**The following recommendations may be considered to delay the development of fungicide resistance:**

- 1. Tank mixtures:** Use tank mixtures with fungicides from different target site of action groups that are registered/permited for the same use and that are effective against the pathogens of concern. BASF recommends using at least the minimum labeled rates of each fungicide in the tank mix.
- 2. IPM:** **Honor** should be integrated into an overall disease and pest management program. Cultural practices known to reduce disease development should be followed. **Honor** may be used in advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.
- 3. Monitoring:** Monitor efficacy of all fungicides used in the disease management program against the targeted pathogen and record other factors that may influence fungicide performance and/or disease development. If a **Group 7 or 11** target site fungicide such as **Honor** appears to be less effective against a pathogen that it previously controlled or suppressed, contact a BASF representative or local expert for further investigation.

**In turfgrass, DO NOT** make more than two (2) sequential applications of **Honor** for *Pythium*, gray leaf spot, dollar spot, or anthracnose. Then alternate to an effective fungicide from a different target site group before reapplying **Honor**. **DO NOT** make more than three (3) consecutive applications of **Honor** for all other turfgrass diseases. Then alternate to an effective fungicide from a different target site group before reapplying **Honor**.

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### Addition of Additives

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**DO NOT** use with organosilicon-based adjuvants or injury may occur. Due to the large number of additives or adjuvants that may be used, neither the manufacturer nor the seller has determined whether **Honor** can be used safely with all additives.

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## General Tank Mixing Information

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### Tank Mix Partners/Components

**Honor** is compatible with most fungicide, insecticide and fertilizer products. If tank mixtures are used, adhere to restrictions due to rates, label recommendations and precautions on all labels. Physical incompatibility, reduced disease control, or plant injury may result from mixing **Honor** with fungicides, herbicides, insecticides, additives, or fertilizers. To improve control of certain diseases, **Honor** may be tank mixed with other effective fungicides from a different target site group.

### Compatibility Test for Tank Mix Components:

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

- 1) Water:** For 87 gallons per acre spray volume, use 14.4 cups (3.5 liters) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.
- 2) Water-dispersible products** (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions): Cap the jar and invert 10 cycles.
- 3) Water-soluble products:** Cap the jar and invert 10 cycles.
- 4) Emulsifiable concentrates** (oil concentrate or methylated seed oil when applicable): Cap the jar and invert 10 cycles.
- 5) Water-soluble additives:** Cap the jar and invert 10 cycles.
- 6) Let the solution stand for 15 minutes.**
- 7) Evaluate the solution for uniformity and stability.** The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. **DO NOT** use any spray solution that could clog spray nozzles.

### Mixing Order

Limit amount of spray mixture prepared to that needed for immediate use.

- 1) Water:** Begin by agitating a thoroughly clean sprayer tank half full of clean water.
- 2) Products in PVA bags:** Place the water-soluble PVA bag into the mixing tank. The water-soluble PVA bag will dissolve in water to allow the contents to disperse. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 3) Water-dispersible products** (dry flowables such as **Honor**, wettable powders, suspension concentrates, or suspo-emulsions).
- 4) Water-soluble products.**
- 5) Emulsifiable concentrates** (oil concentrate or methylated seed oil when applicable).
- 6) Water-soluble additives** (AMS or UAN when applicable).
- 7) Remaining quantity of water.** Maintain maximum constant agitation during application. **DO NOT allow mixture to stand for extended periods prior to application.**

**Cleaning Spray Equipment**

Spraying equipment must be cleaned thoroughly before and after applying this product, particularly if a product with the potential to injure turfgrass was used prior to **Honor™ fungicide**.

**TURFGRASS USE DIRECTIONS**

**Honor** is recommended for the control of anthracnose, bentgrass dead spot, Bermudagrass decline, brown patch, dollar spot, fairy ring, *Fusarium* patch, gray leaf spot, gray snow mold, large patch, leaf spot, melting out, necrotic ring spot, pink patch, pink snow mold, powdery mildew, *Pythium* blight, *Pythium* root dysfunction, rapid blight, red thread, *Rhizoctonia* leaf or sheath spot, rust, summer patch, take-all patch and yellow tuft (downy mildew). For optimum control of gray snow mold and pink snow mold, tank mix **Honor** with another effective fungicide from a different target site group.

**Turfgrass Uses and Tolerance**

Due to variability within turfgrass species, application techniques and possible tank mixes, neither the manufacturer nor the seller has determined whether or not **Honor** can safely be used on all turfgrasses under all conditions. Therefore, it is recommended that the user determine if **Honor** can be used safely before broad use. Apply the recommended use rate of **Honor** on a small test area under conditions expected to be encountered. Monitor for any adverse effects during a 14-day period after application.

**Rate:** Use the application rates specified for each disease as listed in **Table 1. - Application Rates and Intervals for Honor fungicide on Golf Course Turfgrass**. Apply **Honor** in 1 to 4 gallons of water per 1000 square feet (43 to 174 gallons per acre).

**RESTRICTIONS AND LIMITATIONS**

- **Maximum seasonal use rate: DO NOT** apply more than a total of 6.6 ounces of **Honor** per 1000 sq ft per year (18.0 pounds of **Honor** per acre per year).
- Refer to **Table 1. - Application Rates and Intervals for Honor fungicide on Golf Course Turfgrass** for sequential application intervals for **Honor**.
- **DO NOT** apply this product to crops other than **golf course turfgrass**.
- **DO NOT** apply to turfgrass through any type of **irrigation** equipment.
- This product cannot be used to **formulate** or reformulate any other pesticide product.

**Table 1. - Application Rates and Intervals for Honor™ fungicide on Golf Course Turfgrass**

Disease (Pathogen)	Use Rate (oz Product per 1000 sq ft)	Use Rate (oz Product per Acre)	Application Interval (days)	Comments
Anthracnose <sup>1</sup> ( <i>Colletotrichum graminicola</i> )	0.55 to 1.1	24 to 48	14 to 28	Use preventively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development.
Bentgrass Dead Spot ( <i>Ophiosphaerella agrostis</i> )	0.55 to 1.1	24 to 48	14 to 28	Use preventively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development.
Bermudagrass Decline ( <i>Gaeumannomyces graminis</i> var. <i>graminis</i> )	1.1	48	Not Applicable (see comments)	Aids in control of Bermudagrass decline when integrated with appropriate cultural practices such as raised mowing height, proper fertilization and core aeration. Make one application in the spring following green-up and a second application in the fall when air temperatures remain above 80° F and humidity is 75% or higher. Apply in 4 gallons of water per 1000 sq ft.
Brown Patch ( <i>Rhizoctonia solani</i> )	0.55 to 1.1	24 to 48	14 to 28	Apply when conditions are favorable for disease development.
Dollar Spot <sup>1</sup> ( <i>Sclerotinia homoeocarpa</i> )	0.83 to 1.1	36 to 48	14 to 21	Begin applications prior to or in the early stages of disease development. Use the shorter specified application interval and/or the higher specified rate when prolonged favorable disease conditions exist.
Fairy Ring (various <i>Basidiomycete fungi</i> )	1.1	48	28	Apply as soon as possible after fairy ring symptom development. Fairy ring symptoms may take 2 to 3 weeks to disappear following application. Reapplication after 28 days may be required.
Fusarium Patch ( <i>Microdochium nivale</i> )	0.55 to 1.1	24 to 48	14 to 28	In the absence of snow cover, use preventively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development.
Gray Leaf Spot <sup>1</sup> ( <i>Pyricularia grisea</i> )	0.55 to 1.1	24 to 48	14 to 28	Use preventively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development.
Gray Snow Mold ( <i>Typhula incarnata</i> )	1.1	48	14 to 28	Make 2 applications, 14 to 28 days apart in late fall just prior to snow cover. For optimum control before extended periods of snow cover, make 1 or 2 applications of <b>Honor</b> at 0.83 to 1.1 oz per 1000 sq ft tank mixed with another effective fungicide from a different target site group, such as <b>Iprodione Pro</b> or <b>Curalan® EG fungicide</b> .
Large Patch (brown patch of warm season turfgrasses) ( <i>Rhizoctonia solani</i> )	1.1	24 to 48	14 to 28	Apply prior to or directly at initial signs of infection in fall and make at least 2 sequential applications until turfgrass goes into dormancy. Reapplication in spring at time of green-up can be made if necessary. For control of brown patch of St Augustinegrass, centipedegrass, kikuyugrass, seashore paspalum and zoysiagrass (aka Zoysia patch).
Leaf Spot ( <i>Bipolaris</i> , <i>Dreschlera</i> , and <i>Exserohilum</i> spp.)	0.55 to 1.1	24 to 48	14 to 28	Apply when conditions are favorable for disease development.
Melting Out ( <i>Dreschlera poae</i> )	0.55 to 1.1	24 to 48	14 to 28	Apply when conditions are favorable for disease development.

**Table 1. - Application Rates and Intervals for Honor™ fungicide on Golf Course Turfgrass** (continued)

Disease (Pathogen)	Use Rate (oz Product per 1000 sq ft)	Use Rate (oz Product per Acre)	Application Interval (days)	Comments
Necrotic Ringspot ( <i>Leptosphaeria korrae</i> )	1.1	48	14 to 28	Aids in control of necrotic ringspot when combined with a non-strobilurin fungicide such as thiophanate-methyl or propiconazole or chlorothalonil. Make applications in spring, fall or winter when conditions are present for outbreaks.
Pink Patch ( <i>Limonomyces roseipellis</i> )	0.55 to 1.1	24 to 48	14 to 28	Apply when conditions are favorable for disease development.
Pink Snow Mold ( <i>Microdochium nivale</i> )	1.1	48	14 to 28	Make 2 applications, 14 to 28 days apart in late fall just prior to snow cover. For optimum control before extended periods of snow cover, make 1 or 2 applications of <b>Honor</b> at 0.83 to 1.1 oz per 1000 sq ft tank mixed with another effective fungicide from a different target site group, such as <b>Iprodione Pro</b> or <b>Curalan® EG fungicide</b> .
Powdery Mildew ( <i>Blumeria graminis</i> )	0.55 to 1.1	24 to 48	14 to 28	Use preventively. Begin applications when conditions are favorable for fungal infection; prior to disease symptom development.
<i>Pythium</i> Blight <sup>1</sup> ( <i>Pythium aphanidermatum</i> , <i>Pythium</i> spp.)	1.1	48	10 to 14	Use preventively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development. Tank mix <b>Honor</b> with another non-strobilurin fungicide labeled for <i>Pythium</i> blight control during severe disease pressure or when symptoms are already present.
<i>Pythium</i> Root Dysfunction <sup>1</sup> ( <i>Pythium volutum</i> , <i>Pythium</i> spp.)	1.1	48	14 to 28	Apply preventatively or early curative for control. Following two sequential applications, rotate to other effective fungicides for this disease prior to additional <b>Honor</b> applications. Irrigate immediately following application.
Rapid Blight ( <i>Labyrinthula terrestris</i> )	0.55 to 1.1	24 to 48	14 to 28	Use preventively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development. Follow the shorter spray interval when using the lower application rate.
Red Thread ( <i>Laetisaria fuciformis</i> )	0.55 to 1.1	24 to 48	14 to 28	Apply when conditions are favorable for disease development.
<i>Rhizoctonia</i> Leaf or Sheath Spot ( <i>R. oryzae</i> , <i>R. zea</i> )	1.1	24 to 48	14 to 28	<i>Rhizoctonia</i> infection can occur under warm, humid conditions on both cool and warm season turfgrasses. This disease has been associated with localized dry spots, and necrotic (brown) ring symptoms can form. Apply when conditions are favorable for disease development. Use of a soil wetting agent may be appropriate.
Rust ( <i>Puccinia</i> and <i>Uromyces</i> spp.)	0.55 to 1.1	24 to 48	14 to 28	Apply when conditions are favorable for disease development.

**Table 1. - Application Rates and Intervals for Honor™ fungicide on Golf Course Turfgrass (continued)**

Disease (Pathogen)	Use Rate (oz Product per 1000 sq ft)	Use Rate (oz Product per Acre)	Application Interval (days)	Comments
Summer Patch ( <i>Magnaporthe poae</i> )	1.1	24 to 48	14 to 28	Initiate applications in the spring when soil temperatures reach 60 to 65° F at a 2-inch soil depth, or as dictated by local recommendations.
Take-all Patch ( <i>Gaeumannomyces graminis</i> var. <i>avenae</i> )	1.1	48	28	Use preventively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development. Make 2 applications 28-days apart in the fall and 2 applications 28-days apart in the spring.
Yellow Tuft (Downy Mildew) ( <i>Sclerophthora macrospora</i> )	0.55 to 1.1	24 to 48	14 to 28	Use preventively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development.

**DO NOT** apply more than two (2) sequential applications of **Honor** for anthracnose, dollar spot, gray leaf spot or *Pythium*. For all other diseases, when anthracnose, dollar spot, gray leaf spot or *Pythium* are not present, **DO NOT** apply more than three (3) sequential applications of **Honor**. Then alternate to an effective non-strobilurin fungicide before reapplying **Honor**.

**Table 2. - Dilution Table for Spray Solutions of Honor fungicide**

Ounces of <b>Honor</b> per 100-gallons of spray solution				
Honor Use Rate (oz per 1000 sq ft)	Spray Volume 1 gallon per 1000 sq ft	Spray Volume 2 gallons per 1000 sq ft	Spray Volume 3 gallons per 1000 sq ft	Spray Volume 4 gallons per 1000 sq ft
0.55	55	27.5	18.3	13.8
0.83	83	41.5	27.7	20.8
1.1	110	55.0	36.7	27.5

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