

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

OCT 21 2008

United States  
Environmental Protection  
AgencyOffice of Pesticide Programs

Syngenta Crop Protection, Inc.  
P.O. Box 18300  
Greensboro, N.C. 37419

Attention: Betty Brame  
Regulatory Specialist

**Subject: DIFENO-SHIELD™**  
EPA Registration No. 100-1255  
Amendment Dated June 17, 2008

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments listed below:

- Revised use rates for paper/wallboard/gypsum and ceiling tiles
- To delete all Post Manufacturing uses

**Acceptable Data**

1. The toxicology data (In Vivo Dermal Penetration in the Rat, MRID #46950333) submitted to support the above labeling revisions, is acceptable and satisfies the guideline requirement for a dermal penetration study (870.7600) in rats.
2. The "Exposure and Risk Assessments conducted to support amended applications rates for paper/wallboard/gypsum and ceiling tiles as well as deleting all post manufacturing uses were found to be acceptable.
2. The toxicology data (In vivo Dermal Penetration in the Rat; MRID #474532-01) (In vivo Absorption through Human Epidermis; MRID #474532-02) (In vivo Absorption through Rat Epidermis; MRID #474532-03) are acceptable-Guideline and satisfy the guideline requirements for a dermal penetration studies (870.7600) in rats.

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Refer to the enclosed copies of the Risk Assessment and Science Support Branch (RASSB) reviews for further comments.

**General Comments**

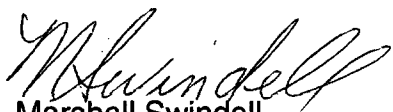
A stamped copy of the "accepted" labeling is enclosed. Submit two (2) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) and section 4(a) when the Agency requires all registrants of similar products to submit such data.

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

Should you have any questions or comments concerning this letter, please contact Martha L. Terry at (703) 308-6217.

Sincerely,



Marshall Swindell  
Product Manager 33  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

Enclosure

**Difeno-Shield™  
For Commercial Use Only**

Difeno-Shield is a fungistatic agent that controls and/or inhibits the growth of many fungi associated with odor, staining and discoloration. Difeno-Shield can be applied to paper, wallboard, ceiling tiles, paint, coatings, caulks, sealants, adhesives, textiles, rubber, and plastic. Difeno-Shield is not intended to protect against food-borne or disease causing organisms. Difeno-Shield is not for use in food or feed handling areas.

Active Ingredient:	
Difenoconazole* .....	32.8%
<hr/>	
Other Ingredients:	67.2%
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Total:	100.0%

\*CAS No. 119446-68-3

Contains 3.1 pounds of active ingredient per gallon. **Difeno-Shield weighs 9.55 lbs. per gallon.**

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

**See additional precautionary statements and directions for use described below or inside booklet.**

Reformulation is prohibited. See individual container labels for repackaging limitations.

EPA Reg. No. 100-1255

EPA Est.

SCP 1255A-

\_\_\_\_\_ pints/gallons  
Net Weight or Net Contents

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with COMMENTS  
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Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.

**100-1255**

<b>FIRST AID</b>	
<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 ambulances, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly.</li> <li>• Remove contact lenses, if present, after the first five 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>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOTLINE NUMBER</b> For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call <b>1-800-888-8372</b>	

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**PRECAUTIONARY STATEMENTS**

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**Hazards to Humans and Domestic Animals**

**CAUTION**

Causes moderate eye irritation. Harmful if absorbed through the skin or inhaled. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or spray mist. Remove contaminated clothing and wash clothing before reuse.

**Applicator and other handlers must wear:**

- Long-sleeved shirts and long pants
- Chemical-resistant gloves made of any waterproof material; such as polyvinyl chloride, nitrile rubber or butyl rubber.
- Shoes plus socks

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**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 contaminate water when disposing of equipment wash water or rinsates.

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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### GENERAL INFORMATION

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Difeno-Shield is a fungistatic agent that controls and/or inhibits the growth of many fungi associated with odor, staining and discoloration. Difeno-Shield can be applied to paper, wallboard, paint, coatings, caulks, sealants, adhesives, textiles and plastic. It provides an invisible barrier to inhibit the fungal organisms associated with mold and mildew that cause odor, staining and discoloration. Difeno-Shield is not intended to protect users or others against food-borne or disease causing organisms. Difeno-Shield is not for use in food or feed handling areas.

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### STORAGE AND DISPOSAL

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#### Prohibitions

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

#### Pesticide Storage

Store in original containers only. Keep container tightly closed when not in use. Store in a secure area inaccessible to children and away from 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 the label.

#### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### Container Disposal

Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

**DO NOT USE CONTAINER FOR FOOD, FEED, OR DRINKING WATER.**

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**SPECIFIC USE DIRECTIONS**

**Restriction:** This product may not be used for post-manufacture application to any of the use items included on this label.

**PAPER USED IN CONSTRUCTION AND BUILDING MATERIALS, WALLBOARD (DRY WALL AND GYPSUM BOARD) AND PAPERBOARD PRODUCTS**

Difeno-Shield can be added anytime during the formulation procedure to components of drywall. Difeno-Shield can be added to the wet end of a paper machine at rates of 1.5 to 8.0 pounds product (0.49 to 2.62 pounds active ingredient) per ton of dry fiber. Applications can also be made at the size press, water box, or spray-applied at the dry end at a rate of 1.5 to 8.0 pounds product (0.49 to 2.62 pounds active ingredient) per ton of dry paper. Difeno-Shield should be applied with thorough agitation. Difeno-Shield may be added to the gypsum core to inhibit the growth of fungi. Apply 0.08 to 0.46 pounds product (0.025 to 0.15 pounds of active ingredient) per 1000 pounds of dry finished gypsum.

**CEILING TILES**

To inhibit the growth of fungi in ceiling tiles and in mineral-based building materials in the manufacture of ceilings, add 1.5 to 8.0 pounds product (0.49 to 2.62 pounds active ingredient) per ton of dry fiber. Difeno-Shield can be added at any time during the formulation procedure.

**PAINT – WATER AND OIL BASED**

Difeno-Shield provides dry film protection of fungal molds and mildews in water and oil based paints films. Rates of Difeno-Shield in paints are dependent on the individual formulation and the expected severity of exposure conditions. The use rate is 0.03 percent product (0.01 percent active) by weight of paint. Testing should be done to confirm compatibility of Difeno-Shield with specific paint products.

**LATEX CAULKS, SEALANTS, ADHESIVES AND BINDERS**

Difeno-Shield will control fungal molds and mildews that cause discoloration and loss of adhesive properties. Difeno-Shield can be applied to gypsum wall board and joint compounds, ceramic tile adhesives, adhesives for wall covering, adhesive emulsions, acrylic, polyvinyl acrylic and silicone based interior and exterior sealants, carpet backing and adhesives and air filter binders. Sufficient mixing to ensure adequate dispersion is required. To inhibit fungal disfigurement and deterioration Difeno-Shield should be applied at levels between 0.03 and 0.24 percent product (0.01 and 0.08 percent active ingredient) by weight. Difeno-Shield cannot be used in food grade coatings, adhesives paper and paperboard, which will come into contact with food.


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**MANUFACTURE OF NATURAL AND SYNTHETIC FIBERS - TEXTILES, FABRICS, CANVAS AND CORDAGE**

Difeno-Shield will control molds and mildew that cause odor and stain on products such as canvas, cordage, filters, shower curtains and drapes. Difeno-Shield also protects building materials such as awning, boat covers, carpet backing, cordage, tents, tarpaulins and wall-covering yarn. Difeno-Shield may be applied at rates from 0.03 to 0.15 percent product (0.01 to 0.05 percent active ingredient) by finished fabric weight.

**MANUFACTURE OF RUBBER AND PLASTIC PRODUCTS**

Difeno-Shield will control molds and mildew on rubber and plastic products such as curtains, bath mats, and thermoplastic rubber. Difeno-Shield may be applied at rates from 0.03 to 0.15 percent product (0.01 to 0.05 percent active ingredient) by finished weight. The temperature stability of Difeno-Shield may be influenced by the choice of heat stabilizer and plasticizer in the formulation. Testing should be done to confirm compatibility of Difeno-Shield with specific rubber or plastic products.

Difeno-Shield™, the Syngenta logo and the CP FRAME  are trademarks of a Syngenta Group Company

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For non-emergency (e.g. current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:  
Syngenta Crop Protection, Inc.  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300  
[www.syngenta-us.com](http://www.syngenta-us.com)

SCP 1255A-

Difeno-Shield Amend June 2008- – bb – 6-16-08

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