

34704-964

09/28/2009

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
WASHINGTON, DC 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

John Tice  
Manager Registrations  
Loveland Products, Inc.  
P.O. Box 1286  
Greeley, CO 80632-1286

— SEP 28 2009

Subject: Dyna-Shield Tebuconazole Fungicide  
EPA Reg. No. 34704-964  
Your amendment dated May 11, 2009  
EPA Decision Number 414659

Dear Mr. Tice:

The revised amended label referred to above, submitted July 17, 2009 in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable.

One copy of the label stamped "Accepted" is enclosed for your records. This label supersedes all labels previously accepted for this product. Please submit one copy of the final printed label before the product is released for shipment.

If you have any questions, please contact Robert Westin by phone at (703) 305-5721 or via email at [westin.robert@epa.gov](mailto:westin.robert@epa.gov).

Sincerely,

Mary L. Waller  
Product Manager (21)  
Fungicide Branch  
Registration Division (7505P)

Enclosure



**DYNA-SHIELD TEBUCONAZOLE FUNGICIDE  
EPA REG. NO. 34704-964**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Applicators and other handlers must wear long-sleeved shirt and long pants, socks and shoes. Follow manufacturer's instructions for cleaning/maintaining 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 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 clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to mammals, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of EPA.

Groundwater Advisory: Tebuconazole is known to leach through soil into ground under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Surface Water Advisory: This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to 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 forecasted within 48 hours."

**DIRECTIONS FOR USE**

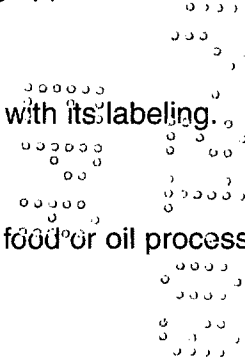
It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Work in a well ventilated area.

Do not use augers used for handling treated seed to move seed for feed, food or oil processing.

DO NOT re-use bags from treated seed to handle food or feed products.

For use by commercial seed treaters only.



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**DYNA-SHIELD TEBUCONAZOLE FUNGICIDE**  
**EPA REG. NO. 34704-964**

**GENERAL INFORMATION**

DYNA-SHIELD TEBUCONAZOLE FUNGICIDE is a ready to use flowable seed treatment which contains the systemic fungicide Tebuconazole. DYNA-SHIELD TEBUCONAZOLE FUNGICIDE will control the following diseases:

**Wheat and Triticale** - Loose Smut, Stinking Smut or Common Bunt. Seed Rot and Seedling Blights caused by *Fusarium*. Suppression of Common Root Rot caused by *Cochliobolus sativus*. Suppression of Crown Rot and Root Rot caused by *Fusarium* spp.

**Barley** - False Loose, Covered and True Loose Smuts, Barley Leaf Stripe, Seed Rot and Seedling blights caused by *Fusarium*. Suppression of Crown Rot and Root Rot caused by *Fusarium* spp.

**Oats** - Loose Smut.

**METHOD OF APPLICATION**

DYNA-SHIELD TEBUCONAZOLE FUNGICIDE is a ready to use formulation designed for use with conventional seed treating equipment which can accurately control application rates and provide a good distribution of the chemical onto the seed in the mixing chamber. It is important that the seed and chemical are mixed quickly and uniformly. See instructions supplied with the applicable treatment system for information on proper application techniques. Under some conditions, the addition of water may enhance treatment coverage.

**APPLICATION RATES**

	<b>fl. oz. of product per 100 lbs. of seed</b>	<b>qts. of product per ton of seed</b>
<b>Wheat and Triticale</b> - Loose Smut, Stinking Smut or Common Bunt. Seed Rot and Seedling Blights caused by <i>Fusarium</i> . Suppression of Common Root Rot caused by <i>Cochliobolus sativus</i> . Suppression of Crown Rot and Root Rot caused by <i>Fusarium</i> spp.	2.4 - 3.2	1.5 - 2.0
<b>Barley</b> - False Loose, Covered and True Loose Smuts, Barley Leaf Stripe, Seed Rot and Seedling blights caused by <i>Fusarium</i> . Suppression of Crown Rot and Root Rot caused by <i>Fusarium</i> spp.	2.4 - 3.2	1.5 - 2.0
<b>Oats</b> - Loose Smut	3.3	2.1

**NOTE:** For suppression of Common Root Rot of Wheat and Triticale, use the higher rate. Use the high rate where disease levels are likely to be high or on highly susceptible varieties.

- Seed is protected by DYNA-SHIELD TEBUCONAZOLE FUNGICIDE as soon as it is treated.
- Calibrate seeding equipment using treated seed to insure proper seeding rate.
- Germination will not be affected by treatment as long as over application does not occur and seed is properly stored. All seed carried from one year to the next, whether treated or untreated should be checked for germination before planting.
- Uniform coverage at the correct rate is important for satisfactory results. Under treatment will lead to loss of efficacy and over treatment could reduce germination.

**DYNA-SHIELD TEBUCONAZOLE FUNGICIDE  
EPA REG. NO. 34704-964**

**USE RESTRICTIONS**

**SEED LABELING**

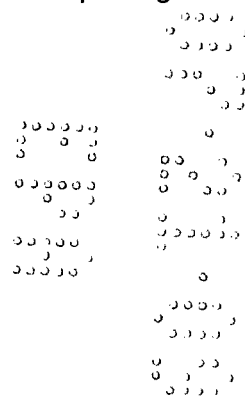
- Seed treated commercially or for sale must be dyed an unnatural color using an EPA approved dye before being sold. Any dye added to treated seed must be cleared for use. For more information see 40 CFR 153.155.
- Federal law requires that bags containing treated seeds shall be labeled with the following information:  
 "This seed has been treated with DYNA-SHIELD TEBUCONAZOLE FUNGICIDE. This product contains Tebuconazole. Treated seed must not be used for or mixed with food or animal feed or processed for oil. Wear a long sleeved shirt and long pants (or coveralls) and chemical resistant gloves when handling treated seed. Barley, wheat, triticale and oat green forage may be grazed or harvested for hay 31 days after seeding. Do not contaminate feed or foodstuffs with treated seed. Do not contaminate ponds, lakes or streams with this product or treated seed. Treated seed exposed on soil surface may be hazardous to fish and aquatic invertebrates. Cover or collect seeds spilled during loading."

**RESISTANCE MANAGEMENT RECOMMENDATIONS**

Any fungal population may contain individuals naturally resistant to DYNA-SHIELD TEBUCONAZOLE FUNGICIDE or other products containing triazole fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of DYNA-SHIELD TEBUCONAZOLE FUNGICIDE with other fungicides having a different mode of action that control the same pathogens.
- Use tank mixtures with fungicides from a different group when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development.
- If disease continues to progress after treatment with the product, do not increase the use rate. Discontinue use of the product, and switch to another fungicide with a different target site of action, if available.
- Consult your local extension specialist or certified crop advisors for any additional pesticide resistance-management and /or IPM recommendations for specific crops and pathogens.



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**DYNA-SHIELD TEBUCONAZOLE FUNGICIDE  
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**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store product in original container only, away from other pesticides, fertilizers, food or feed. Keep container closed. Store in a cool, dry place and avoid excess heat.

**PESTICIDE DISPOSAL:** This pesticide's wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If this product cannot be completely used 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:**

**Non-refillable containers (1, 2.5, 30 & 55 gallon):** Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**(non-refillable <5 gallons): Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ 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.

**(non refillable >5 gallons): Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows (all sizes):** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use for 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.

**Refillable container (250 gallon & bulk):** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing process two more times.

For help with any spill, leak, fire, or exposure involving this material, call day or night CHEMTREC 1-800-424-9300.

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

**BEFORE BUYING OR USING THIS PRODUCT**, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

