

7969-287

1/21/2010

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

EPA Reg. Number:

7969-287

Date of Issuance:

JAN 21 2010

Term of Issuance: Conditional

Name of Pesticide Product:

Triticonazole HL

Name and Address of Registrant (include ZIP Code):

BASF Corporation

26 Davis Drive

Research Triangle Park, NC 27709

ATTN: John (Jack) Authur

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.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered 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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. You must submit the following conditional data listed below, before the due date of February 5, 2012:
 - a. Storage Stability Study 830.6317
 - b. Corrosion Characteristics Study 830.6320
 - c. Storage Stability Study 830.1380
 - d. Immunotoxicity Study 870.7800
 - e. Aerobic Aquatic Metabolism Study 835.4300
 - f. Single Avian Reproduction Study 850.2300
3. You must submit two copies of a final printed label within 45 days from the date of this notice which makes the following changes:
 - a. Change the product registration number to "EPA Reg. No. 7969-287"

Page 1 of 2

Signature of Approving Official:

Shaja B. Joyner

Product Manager 20

Fungicide Branch, Registration Division (7505P)

Date:

JAN 21 2010

Page 2
Conditional Registration
EPA Reg. No. 7969-287

- b. On page 1, add the phrase "Intended For Commercial Use Only" on the upper top portion of the page.
- c. On page 2, "First Aid" section revise "If swallowed" to read as the first statement. All others statements are toxicity category IV, and may either be removed or retained at your discretion.
- d. On page 2, under the "Precautionary Statements" insert "swallowed and" after "if" and before absorbed.
- e. On page 4, "Application Instructions," replace the word recommended with "specified" in paragraphs one and two.
- f. On page 7, in the paragraph starting with "Treated seed must be labeled as follows:" remove the following statement "The date of treatment must also be included on the treated seed label."
- g. On page 7, add the following bulleted statements under "Treated seed must be labeled as follows:"
 - Store treated seed away from and feedstuff.
 - Do not allow children, pets, or livestock to have access to treated seeds.
 - When opening this bag or loading/pouring the treated seed, wear long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves.
 - After the seeds have been planted, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.
Exception: Once the seeds are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no worker contact with the treated seeds in the soil or planting media."
 - Treated seeds exposed on soil surface may be hazardous to wildlife.
Cover or collect treated seeds spilled during loading and planting.
 - Dispose of all excess treated seed by burying away from bodies of water.
 - Do not contaminate bodies of water when disposing of planting equipment wash water.
 - Dispose of seed packaging in accordance with local requirements.

If these 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 constitutes acceptance of these conditions.

A copy of the label stamped "Accepted with comments" is enclosed for your records.

Sincerely,

Shaja B. Joyner,
Product Manager, Team 20
Fungicide Branch
Registration Division (7505P)

Enclosures: Label stamped "Accepted with Comments"

BASF

The Chemical Company

Group

3

Fungicide

ACCEPTED
with COMMENTS
In EPA Letter Dated

JAN 21 2010

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

7969-287

Triticonazole HL

fungicide seed treatment

A liquid flowable for control of various seedborne diseases in
barley, field corn, oats, popcorn, rye, sorghum, sweet corn,
triticale, and wheat

Active Ingredient:

triticonazole* 43.5%

Other Ingredients: 56.5%

Total: 100.0%

*Contains 4.17 lbs of the active ingredient, triticonazole, per U.S. gallon.

EPA Reg. No. 7969-~~xxx~~ 287

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en
detalle. (If you do not understand this 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.**

In case of an emergency endangering life or property involving this product,
call day or night 1-800-832-HELP (4357).

Net Contents:

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after first 5 minutes; then continue rinsing. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor for treatment advice. • DO NOT induce vomiting unless told to do so by a poison control center or doctor. • Have person sip a glass of water if able to swallow. • DO NOT give anything by mouth to an unconscious person.
HOTLINE NUMBER	
<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> <p>NOTE TO PHYSICIAN: No specific antidote is available. Treat symptomatically.</p>	

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Harmful if absorbed through skin. Causes eye irritation. 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)

Some materials that are chemically resistant to this product are barrier laminate, butyl rubber > 14 mils, nitrile rubber > 14 mils, neoprene rubber > 14 mils, polyvinyl chloride (PVC) > 14 mils, viton > 14 mils. If you want more options, follow the instructions for **Category C** on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of barrier laminate, butyl rubber > 14 mils, nitrile rubber > 14 mils, neoprene rubber > 14 mils, polyvinyl chloride (PVC) > 14 mils, viton > 14 mils

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

DO NOT apply directly to water, or to areas where surface water is present, or intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. **DO NOT** contaminate water when cleaning equipment or 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. Read entire label before using this product. **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 pesticides.

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 the restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

EXCEPTION: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas permitted under the Worker Protection Standard that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Long-sleeved shirt and long pants
- Socks and shoes
- Chemical-resistant gloves made of any waterproof material

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in original container. Keep container closed and in a secure place. Store in an area that is out of reach of children and animals, away from food, feedstuffs, fertilizers and seed. Protect from frost and freezing.

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

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.

(continued)

STORAGE AND DISPOSAL (continued)

Container Disposal (continued)

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) 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 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.

Triple rinse containers too large to shake (capacity > 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. Turn the container over, onto its other 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: Empty the remaining contents into application equipment or 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 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.

Refillable Container. Refill this container with **Triticonazole HL fungicide seed treatment** only.

DO NOT reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% 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 procedure two more times.

Returnable Containers. After use, return cleaned container to point of purchase or designated locations.

DO NOT reuse container for any other purpose. Refill only with **Triticonazole HL fungicide seed treatment**. For information on the disposal of unused or unwanted product, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance.

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)

General Information

Triticonazole HL fungicide seed treatment is a liquid seed treatment for the control of various seedborne and soilborne pathogens affecting the seed or seedling.

Triticonazole HL fungicide seed treatment will also suppress or control early season foliar diseases. Refer to **Diseases Controlled and Suppressed by Triticonazole HL fungicide seed treatment** table for crop-specific information.

When handling Triticonazole HL fungicide seed treatment and when treating seed or while augering or handling treated seed, work in a well-ventilated area.

Resistance Management

The active ingredient in **Triticonazole HL fungicide seed treatment**, triticonazole, belongs to the group of demethylation inhibitors (DMI fungicides) classified by EPA as target site of action **Group 3** fungicides. Due to the small amounts of **Triticonazole HL fungicide seed treatment** applied to the seed that relocate to the upper parts of the plant, the potential for development of resistance is very low. Seed treatments of **Triticonazole HL fungicide seed treatment** can, therefore, be followed by foliar use and resistance management guidelines of target site action **Group 3** foliar use fungicides as specified on their respective labels.

Application Instructions

For use at commercial facilities. Not for use on farm.

Apply **Triticonazole HL fungicide seed treatment** as a water-based mixture using standard or mist-type seed treatment application equipment. The exact amount of water needed to provide the mixture or slurry rate for optimum coverage is difficult to predict because weather conditions, hot or cold, seed type and surface and equipment used all have a bearing on coverage. Consult a seed treatment specialist regarding slurry rates recommended for the crop seed to be treated with **Triticonazole HL fungicide seed treatment**. The required amount of **Triticonazole HL fungicide seed treatment** should then be diluted with the recommended amount of water that will provide uniform and complete coverage on the seed surface. Uniform application on seed and complete seed coverage are necessary for seed safety and best disease protection.

Seed should be sound and well cleaned prior to treatment. The purchaser of **Triticonazole HL fungicide seed treatment** is responsible for ensuring that all seed treated with this product are adequately dyed with a suitable color to prevent its accidental use as food for man or

feed for animals. Refer to 21CFR, Par 2.25. Use an EPA-approved dye or colorant that imparts an unnatural color to the seed. Any dye or colorant added to treated seed must be cleared for use under 40CFR Part 180.900,

Exemptions from the requirement of tolerance.

Federal regulations have established official tolerances or exemptions from tolerances for residues on food and forage crops that should not be exceeded when the product (dye or colorant) is used at recommended rates.

Consult the seed treatment specialist for calibration and operation procedures of the seed treatment equipment being used. Mechanical agitation is required for proper mixing of **Triticonazole HL fungicide seed treatment**. Prepare no more mixture of **Triticonazole HL fungicide seed treatment** than is needed for immediate treating. Add 3/4 of the required volume of water to the mix tank. With agitation running, add the required amount of **Triticonazole HL fungicide seed treatment** in the tank along with other seed treatment components. Add the remaining 1/4 amount of the required volume of water. Follow the mixing sequence listed below. Agitate thoroughly before and during application.

Triticonazole HL fungicide seed treatment with Tank Mix Partners

Triticonazole HL fungicide seed treatment mixes easily with water and other water-based seed treatments manufactured by BASF Corporation. When using **Triticonazole HL fungicide seed treatment** in a tank mixture with other seed treatment products, observe all directions for use, crops/sites, use rates, dilution ratios, precautions and limitations that appear on the tank mix partner label. Label dosage or application rate must not be exceeded and the most restrictive label precautions and limitations must be followed. **Triticonazole HL fungicide seed treatment** must not be mixed with any product that prohibits such mixing. All applications must be made according to the use directions.

When mixing **Triticonazole HL fungicide seed treatment** with products from other manufacturers, the compatibility should be tested prior to use by conducting a jar test as follows:

1. Mix all intended seed treatments with the appropriate amount of water in a clear glass container.
2. Mix well and allow to sit 1 hour.
3. Remix and observe for incompatibility.

Physical compatibility is only part of compatibility. Testing also needs to be done with seed to make sure the combination of products does not have detrimental effects on the seed.

Tank Mix Instructions

1. Add 3/4 of the required amount of water to the mix tank and turn on the agitation. Mechanical agitation is preferred.
2. Follow the following mixing sequence:
dye or colorant, wettable powders, flowable formulations, emulsifiable concentrates and remaining 1/4 of

the required water. The 1/4 of the required water, as the last item for addition to the premix tank, can be used as rinsate for the chemical container or to adjust the total slurry to compensate for water displacement by powdered products.

3. Maintain agitation until entire slurry mixture has been used.
4. Ensure that seed is dry prior to bagging.

NOTE: Federal law requires that bags of treated seed be labeled in a specific manner. See instructions listed under **Use Restrictions**.

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Diseases Controlled and Suppressed by Triticonazole HL fungicide seed treatment

Crop	Use Rate (fl oz/100 lbs seed)	Disease Controlled	Disease Suppressed ¹
Barley	0.155	Covered smut <i>Ustilago hordei</i> False loose smut <i>Ustilago nigra</i> Fusarium seed rot <i>Fusarium</i> spp. Fusarium seedling blight <i>Fusarium</i> spp. True loose smut <i>Ustilago nuda</i>	Common root rot <i>Cochliobolus</i> spp. Dry seed decay <i>Penicillium</i> spp. Fusarium crown rot <i>Fusarium</i> spp. Fusarium root rot <i>Fusarium</i> spp. Rhizoctonia root rot <i>Rhizoctonia solani</i>
Field Corn and Popcorn (includes seed production)	0.155 Equivalent to 0.013 mg ai per kernel and 0.07 fl oz product per 80,000 kernel count (based on 1761 kernels per pound)	Fusarium seed rot <i>Fusarium</i> spp. Fusarium seedling blight <i>Fusarium</i> spp.	Rhizoctonia root rot <i>Rhizoctonia solani</i>
Field Corn and Popcorn (includes seed production)	1.55 Equivalent to 0.13 mg ai per kernel and 0.7 fl oz product per 80,000 kernel count (based on 1761 kernels per pound)	Corn head smut ² <i>Sphacelotheca reiliana</i>	
Sweet Corn	0.31 Equivalent to 0.013 mg ai per kernel and 0.07 fl oz product per 80,000 kernel count (based on 3522 kernels per pound)	Fusarium seed rot <i>Fusarium</i> spp. Fusarium seedling blight <i>Fusarium</i> spp.	Rhizoctonia root rot <i>Rhizoctonia solani</i>
Oats	0.155	Covered smut <i>Ustilago kollerii</i> Loose smut <i>Ustilago avenae</i>	Fusarium seedling blight, Seed rot, Crown rot, Root rot <i>Fusarium</i> spp.
Rye	0.155	Common bunt <i>Tilletia caries</i> Fusarium seed rot <i>Fusarium</i> spp. Fusarium seedling blight <i>Fusarium</i> spp.	Fusarium seedling blight, Seed rot, Crown rot, Root rot <i>Fusarium</i> spp.
Sorghum	0.31 to 0.62	Fusarium seed rot <i>Fusarium</i> spp. Fusarium seedling blight <i>Fusarium</i> spp.	Rhizoctonia root rot <i>Rhizoctonia solani</i>

(continued)

Diseases Controlled and Suppressed by Triticonazole HL fungicide seed treatment *(continued)*

Crop	Use Rate (fl oz/100 lbs seed)	Disease Controlled	Disease Suppressed¹
Wheat and Triticale	0.155	Common bunt <i>Tilletia caries</i> Flag smut <i>Urocystis agropyri</i> Fusarium seed rot <i>Fusarium</i> spp. Fusarium seedling blight <i>Fusarium</i> spp. Loose smut <i>Ustilago nuda</i> var. <i>tritici</i>	Common root rot <i>Cochliobolus</i> spp. Dry seed decay <i>Penicillium</i> spp. Fusarium crown rot <i>Fusarium</i> spp. Fusarium root rot <i>Fusarium</i> spp. Rhizoctonia root rot <i>Rhizoctonia solani</i>

¹Suppression is defined as suboptimal control which is still of commercial benefit.

²Suppression/control is enhanced when used on varieties with at least partial resistance to *S. reilianana*.

Use Restrictions

- **DO NOT** use treated seed for food, feed or oil processing.
- **DO NOT** store **Triticonazole HL fungicide seed treatment** near feed or foodstuffs.
- **DO NOT** contaminate feed or foodstuffs.
- **DO NOT** contaminate domestic or irrigation waters.
- **DO NOT** plant any crop not listed on this label within 30 days after planting triticonazole fungicide treated seed.

TREATED SEED MUST BE LABELED AS FOLLOWS: "This seed has been treated with triticonazole. **DO NOT** use for food, feed or oil processing. **DO NOT** plant any crop other than barley, field corn, oats, popcorn, rye, sorghum, sweet corn, triticale, or wheat within 30 days after planting triticonazole-treated seed." The date of treatment must also be included on the treated seed label.

DO NOT use the same auger for treating seed that will handle commercial or feed grains.

DO NOT store leftover treated seed where there is a chance of it becoming mixed with untreated seed. Store treated seed in cool dry conditions.

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as the presence of other or untested or unapproved materials, seed of low quality or low vigor or low germination, use of the product in a manner inconsistent with its labeling, misapplication of the product, or weather conditions at planting or environmental conditions during seed storage, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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