

2022-2040
2023-01-20

This label has been updated according to the re-evaluation decision of Triticonazole RVD2022-02. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 25/02/2024 in accordance with the phase out period set out in the re-evaluation/special review decision of Triticonazole RVD2022-02. This previously approved label will be provided upon request by emailing hc.pmra.info-arla.sc@canada.ca. In your email please include the product name and Registration number of the label you are requesting.

GROUP	3	4	11	FUNGICIDE
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INSURE® CEREAL
Fungicide Seed Treatment

SUSPENSION

For seed treatment use in barley, oat, rye, triticale and wheat (all types)

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENTS:

Pyraclostrobin 17 g/L
Triticonazole 17 g/L
Metalaxyl 10 g/L

Contains 1,2-benzisothiazolin-3-one at 0.005% and 2-methyl-4-isothiazolin-3-one at 0.005%, as preservatives OR

Contains 1,2-benzisothiazolin-3-one at 0.0085% and 2-methyl-4-isothiazolin-3-one at 0.0085%, as preservatives OR

Contains 1,2-benzisothiazolin-3-one at 0.017%, 2-methyl-4-isothiazolin-3-one at 0.0095%, 2-bromo-2-nitropropane-1,3-diol at 0.024%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0011%, as preservatives

Warning, contains the allergen soy

POTENTIAL SKIN SENSITIZER

For use on farm. For use in commercial seed treatment facilities (and mobile treaters) with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. No open transfer in commercial facilities is permitted.

REGISTRATION NO. 30685

PEST CONTROL PRODUCTS ACT

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT,
1-800-454-2673**

NET CONTENTS: 0.1 L - Bulk

BASF Canada Inc.
5025 Creekbank Road
Building A, 2nd Floor
Mississauga, Ontario L4W 0B6
1-877-371-2273

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GENERAL INFORMATION

INSURE CEREAL is a ready-to-use broad spectrum fungicide seed treatment in a water-based formulation that provides preventive seed and seedling protection against seed-, soil-borne and seedling diseases in barley, oat, rye, triticale and wheat (all types). Make all applications according to the use directions in this label.

INSURE CEREAL Seed Treatment Fungicide is active against a wide range of diseases caused by *Fusarium* spp., *Pythium* spp., and *Cochliobolus sativus* and is also active against a wide range of smuts and bunt.

DIRECTIONS FOR USE

For use on farm. For use in commercial seed treatment facilities (and mobile treaters) with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. No open transfer in commercial facilities is permitted.

Apply **INSURE CEREAL** using standard slurry, gravity flow or mist-type seed treatment application equipment. Thorough seed coverage will offer the best protection of the seed from seed-, soil-borne, and seedling diseases. When used at the recommended rate of 300 mL/100 kg seed, no additional dyes or dilutions with water are needed unless recommended by the manufacturer of the seed treatment application equipment/machines. If so, increase the use rate proportionally to the dilution rate (e.g. add 100 mL of water to 300 mL of **INSURE CEREAL**, then apply at 400 mL/100 kg seed). Please consult the seed treatment application equipment manufacturer in question for further directions.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

CROP ROTATION

A rotational plantback interval of 30 days must be observed for crops not listed on the label.

CROP SPECIFIC RECOMMENDATIONS FOR SEED TREATMENT

Crop	Target Disease	Product use rate in mL/ 100 kg seed
Barley Oats Rye Triticale Wheat (all types)	<p><u>Diseases Controlled:</u> Seed Rot / Pre-emergence Damping-off caused by <i>Fusarium</i> spp., <i>Cochliobolus sativus</i>, and <i>Pythium</i> spp. Post-emergence Damping-off caused by <i>Pythium</i> spp. Seedling Blight caused by <i>Fusarium</i> spp. and <i>Pythium</i> spp. Root Rot caused by <i>Fusarium</i> spp. and <i>Pythium</i> spp. Loose Smut (<i>Ustilago tritici</i>) - Rye, Triticale, Wheat Common Bunt (<i>Tilletia tritici</i>, <i>T. laevius</i>) - Rye, Triticale, Wheat True Loose Smut (<i>Ustilago nuda</i>) - Barley Covered Smut (<i>Ustilago hordei</i>) - Barley False Loose Smut (<i>Ustilago nigra</i>) - Barley Loose Smut (<i>Ustilago avenae</i>) - Oat Covered Smut (<i>Ustilago kollerii</i>) - Oat</p> <p><u>Diseases Suppressed:</u> Seedling blight caused by <i>Cochliobolus sativus</i> Root rot caused by <i>Cochliobolus sativus</i></p>	300

USE RESTRICTIONS

- Do not use treated seed for food, feed or oil processing.
- Do not store **INSURE CEREAL** near feed or foodstuffs.
- Do not contaminate feed or foodstuffs.
- Do not apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.
- Do not contaminate irrigation or drinking water or aquatic habitats by cleaning of equipment or disposal of wastes.
- **INSURE CEREAL** contains sufficient pigment to conspicuously color and coat treated seed. Regulations pertaining to the coloration of treated seed enforced under the "Seeds Act" must be strictly adhered to when using this product.
- Thoroughly clean auger after handling treated seed before using same auger for handling commercial or feed grains.

SEED LABELLING

TREATED SEED MUST BE LABELLED AS FOLLOWS:

"This seed has been treated with **INSURE CEREAL** containing fungicides pyraclostrobin, triticonazole and metalaxyl. Workers handling or planting treated seed must wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, shoes and socks, and respiratory protection (i.e. NIOSH/MSHA/BHSE approved respirator or fresh air hood). Use a closed-cab tractor when planting treated seed. Gloves and respiratory protection are not required when workers are in a closed cab tractor. A closed cab is a chemical resistant barrier that completely surrounds the occupant of the cab and prevents contact with the pesticide or treated surfaces outside the cab.

DO NOT use for food, feed or oil processing. Store away from feed and food stuff. Keep treated seed out of reach of children and animals.

A rotational plantback interval of 30 days must be observed for crops not listed on the label.

Toxic to birds. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface."

SEED STORAGE

Treatment of highly mechanically damaged seed, seed known to be of low vigour and poor quality, or seed where the storage conditions were poor (high humidity in storage, moisture within grain storage facility, or grain sitting on the ground) may result in reduced germination and/or reduction of seed and seedling vigour. Treat and conduct germination tests on a small test sample of seed before treating commercial quantities with **INSURE CEREAL**. Due to seed quality and seed storage conditions beyond the control of BASF Canada, BASF Canada makes no claims or guarantees as to germination of carry-over seed treated with **INSURE CEREAL**.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

Mode of Action

INSURE CEREAL contains three active ingredients with distinct modes of action. Pyraclostrobin is classified as a **Target Site of Action Group 11** fungicide. Triticonazole is classified as a **Target Site of Action Group 3** fungicide. Metalaxyl is classified as a **Target Site of Action Group 4** fungicide. Due to the minimal amounts of **INSURE CEREAL** applied to the seed that relocate to the upper parts of the plant and the multiple modes of action, the potential for development of resistance is low.

Resistance Management

INSURE CEREAL contains three active ingredients with three distinct modes of action. Any fungal population may contain individuals naturally resistant to **INSURE CEREAL**, and other Group 3, 4 and 11 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.

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

1. Where possible, rotate the use of **INSURE CEREAL** or other Group 3, 4 and 11 fungicides with different groups that control the same pathogens. Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
2. Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control

practices. Where possible, make use of predictive disease models to effectively time fungicide applications.

3. Monitor treated fungal populations for resistance development. Notify BASF if reduced sensitivity of the pathogen to INSURE CEREAL is suspected.
4. If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different site of action, if available. Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
5. For further information and to report suspected resistance, contact a BASF-representative at 1-877-371-2273 or at www.agsolutions.ca.

ENVIRONMENTAL PRECAUTIONS

Ensure proper soil incorporation of the seeds. **DO NOT** feed treated seed to, or otherwise expose, wildlife or domestic birds. Toxic to birds. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface. Ensure proper disposal of any surplus treated seed not intended for later planting. **DO NOT** contaminate domestic or irrigation water supplies, lakes, streams, ponds or any body of water with the chemical, used containers, treated seed or bags, which have held treated seed. **DO NOT** contaminate water by cleaning of equipment or disposal of wastes. Unused or leftover treated seed should not be stored where there is a chance of it becoming mixed with untreated seed. Toxic to aquatic organisms.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) or the water table is shallow. To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. compacted or fine-textured soils such as clay).

Avoid application of this product when heavy rain is forecast.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. **DO NOT** apply in a way that this product will contact workers or other persons, either directly or through drift. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area when seed is being treated or bagged.
3. Potential skin sensitizer. Wash thoroughly after handling and before eating, drinking or smoking.

4. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.

Personal Protective Equipment

Seed Types	Tasks	PPE/ Engineering Controls
For Commercial Seed Treatment (including mobile treaters)		
All Seed Types	Treating	Wear coveralls over a long-sleeved shirt, long pants, chemical resistant gloves, head gear, socks and shoes during mixing, loading and application
	Bagging Sewing Stacking	Wear coveralls over a long-sleeved shirt, long pants, chemical resistant gloves, head gear, socks and shoes and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during any other activities involving handling treated seeds.
	Clean-up and repair activities	Wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, head gear, socks and shoes during clean-up and repair activities.
For On-Farm Seed Treatment		
All Seed Types	Treating Clean-up and repair activities	Wear coveralls over a long-sleeved shirt, long pants, chemical resistant gloves, head gear, socks and shoes during mixing, loading and application and during clean-up and repair activities.
	Handling	Wear coveralls over a long-sleeved shirt, long pants, chemical resistant gloves, head gear, socks and shoes and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during any other activities involving handling treated seeds.
For Planting Treated Seeds		
All Seed Types	Handling	Wear coveralls over a long-sleeved shirt, long pants, chemical resistant gloves, head gear, socks and shoes and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during loading treated seeds.
	Planting Closed-cab tractor	Use a closed-cab tractor when planting treated seed. A closed cab is a chemical resistant barrier that completely surrounds the occupant of the cab and prevents contact with the pesticide or treated surfaces outside the cab. Gloves and respiratory protection are not required within a closed cab.

FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: 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 centre or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

The patient should be treated symptomatically.

STORAGE

1. Store in original tightly closed container and the ideal storage temperature is above freezing and below 30°C. **INSURE CEREAL** freezes at -4°C and if frozen agitate prior to use.
2. To prevent contamination store this product away from food and feed.
3. Store in cool, dry, locked, well-ventilated area without floor drain.

DISPOSAL

For Recyclable Containers

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for any further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For Non-Returnable Containers

1. Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

For Returnable-Refillable Containers

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.