

2018-2251
2019-06-14



Bayer CropScience

GROUP	3, 11	FUNGICIDES
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USF 2010 FUNGICIDE

SUSPENSION CONCENTRATE
COMMERCIAL

For control of foliar diseases in wheat (winter, spring, hard red, durum, Canada prairie, soft white), spring barley, oats and soybean.

ACTIVE INGREDIENT:

Tebuconazole:	261 g/L
Trifloxystrobin:	261 g/L

Contains 1,2-benzisothiazolin-3-one at 0.048% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.001% and 2-methyl-4-isothiazolin-3-one at 0.0004% as preservatives

READ THE LABEL AND BROCHURE BEFORE USING

REGISTRATION NO.: 29818
PEST CONTROL PRODUCTS ACT

CAUTION - POISON

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 2 to 320 L

Bayer CropScience Inc.
Suite 200, 160 Quarry Park, Blvd. SE
Calgary, Alberta T2C 3G3

For product information, call: 1-888-283-6847

In case of spills, poisoning, fire or other emergencies, call: 1-800-334-7577 (24 hours a day)

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.

FIRST AID:

In case of poisoning, call physician or Poison Control Centre immediately. Have patient lie down and keep quiet.

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 in eyes: Hold eye open and rinse slowly and gently with water for 15 to 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.

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.

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

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor or spray mist. Harmful if inhaled. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry. **DO NOT** re-enter treated fields until 12 hours post-application. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at www.croplife.ca.

PROTECTIVE CLOTHING AND EQUIPMENT:

- Wear coveralls over long pants, long-sleeved shirt, chemical resistant gloves and boots during mixing, loading, application, clean-up and repair activities. Coveralls are not required during application within closed cabs or cockpits.

ENVIRONMENTAL HAZARDS:

Toxic to birds, small wild animals, aquatic organisms and non-target plants. Observe buffer zones specified under DIRECTIONS FOR USE and APPLICATION IN FIELDS ADJACENT TO AQUATIC AREAS.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff is hazardous to aquatic organisms in neighboring areas. To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

Tebuconazole is persistent and will carryover. It is recommended that any products containing tebuconazole not be used in areas treated with this product during the previous season.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

STORAGE:

- Do not contaminate water, food, or feed by storage or disposal.
- Keep away from fire or open flame or other sources of heat.
- Do not store at temperatures below freezing.
- If stored for 1 year or longer, shake well before using.
- Store the tightly closed container away from feeds, seeds, fertilizer, plants and foodstuffs.
- Do not use or store in or around the home.
- Keep in original container during storage.
- In case of fire, leaking or damaged containers, call toll free 1-800-334-7577.

DISPOSAL:

Recyclable Container Disposal:

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 further use.

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

Returnable Container:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Disposal of Unused, Unwanted Product:

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 cleanup of spills.

Disposal of Unused Spray Solution:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, **NOT ON THE CROP**, away from water supplies, ditches, and irrigation canals. Buffer zones indicated in the DIRECTIONS FOR USE must also be respected.

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ENVIRONMENTAL HAZARDS:

Toxic to birds, small wild animals, aquatic organisms and non-target plants. Observe buffer zones specified under DIRECTIONS FOR USE and APPLICATION IN FIELDS ADJACENT TO AQUATIC AREAS.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

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Tebuconazole is persistent and will carryover. It is recommended that any products containing tebuconazole not be used in areas treated with this product during the previous season.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

STORAGE:

- Do not contaminate water, food, or feed by storage or disposal.
- Keep away from fire or open flame or other sources of heat.
- Do not store at temperatures below freezing.
- If stored for 1 year or longer, shake well before using.
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Disposal of Unused Spray Solution:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, NOT ON THE CROP, away from water supplies, ditches, and irrigation canals. Buffer zones indicated in the DIRECTIONS FOR USE must also be respected.

GENERAL INFORMATION:

Introduction

USF 2010 FUNGICIDE is a broad-spectrum systemic fungicide for control of a wide range of diseases on certain crops. USF 2010 FUNGICIDE will protect the crop from yield and quality losses due to disease.

Crop Information:

USF 2010 FUNGICIDE may be applied to:

Winter Wheat

Spring Wheat (including Hard Red, Durum, Canada Prairie, Soft White)

Spring Barley

Oats

Soybean

Diseases Controlled:

Winter Wheat and Spring Wheat: (including Hard Red, Durum, Canada Prairie, Soft White)	<i>Septoria</i> Leaf Blotch; Tan Spot; Powdery Mildew; Leaf and Stem Rust; Stripe Rust
Spring Barley	Net Blotch; Scald; <i>Septoria</i> Leaf Blotch; Spot Blotch, powdery mildew, leaf rust
Oats	<i>Septoria</i> Leaf Blotch; Crown Rust
Soybean	Asian Soybean Rust, Frogeye Leaf Spot

Factors Affecting USF 2010 FUNGICIDE Performance:

USF 2010 FUNGICIDE should be applied as a preventative disease control measure or at the very early stages of disease development. Established diseases are more difficult to control and may have already reduced crop vigour.

If rainfall occurs within one hour of application, reapplication may be necessary.

DIRECTIONS FOR USE:

Application instructions:

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests. **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

Buffer zones:

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands). In addition to the buffer zones specified in the table below, users must also observe buffer zones specified under APPLICATION IN FIELDS ADJACENT TO AQUATIC AREAS.

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of Terrestrial Habitat
Field Sprayer	Wheat (spring, winter, durum), Barley, Oats, Soybean	1
Aerial (Fixed and Rotary Wing)	Wheat (spring, winter, durum), Barley, Oats, Soybean	15

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray drift buffer zones required for the protection of terrestrial habitats for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

APPLICATION IN FIELDS ADJACENT TO AQUATIC AREAS: Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, slough, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands and estuaries:

- **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.
- **DO NOT** apply by ground or air within 30 metres of aquatic areas listed above.
- **DO NOT** cultivate within 3 metres of an aquatic area to allow growth of vegetative filter strip.
- The aquatic buffer zone of 30 meters **may not** be modified by the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

APPLICATION INFORMATION:

1. Spray equipment should be thoroughly flushed with clean water and drained before and after application of USF 2010 FUNGICIDE.
2. Fill the spray tank one-half full with clean water.
3. With the agitation system engaged, add the required amount of USF 2010 FUNGICIDE to the spray tank.
4. Complete filling the spray tank with water while maintaining constant agitation.

NOTE: **DO NOT** let tank contents stand for prolonged periods of time without agitation. If spraying is interrupted, thoroughly re-agitate before resuming application.

GROUND APPLICATION-GENERAL INFORMATION:

1. Use well-maintained and calibrated conventional spray equipment, which provides adequate and uniform coverage.
2. Spray screens should be no finer than 50 mesh.
3. Ensure that the by-pass line discharges at the bottom of the tank to minimize foaming.
4. Maintain pressure at no less than 275 kPa to ensure good foliage penetration and coverage.
5. Provincial buffer zones that are greater than the above buffer zone should be respected.

AERIAL APPLICATION-GENERAL INFORMATION:

1. Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.
2. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. If you have questions, call 1-888-283-6847 or obtain technical advice from the distributor or your provincial agricultural representative.
3. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.
4. Apply USF 2010 FUNGICIDE in a minimum of 50 L of water/ha.
5. To ensure proper coverage and distribution and to minimize drift, check to see that swath width and droplet size are adequate, and that wind velocities are low.
6. Use mechanical flaggers only.

AERIAL APPLICATION-USE PRECAUTIONS:

1. Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage.
2. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.*

AERIAL APPLICATION- OPERATOR PRECAUTIONS:

1. **DO NOT** allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.
2. It is desirable that the pilot has communication capabilities at each treatment site at the time of application.
3. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.
4. All personnel on the job site must wash hands and face thoroughly before eating and drinking.
5. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

WHEAT (winter, spring, hard red, durum, Canada prairie, soft white), SPRING BARLEY, OATS		
CROP / DISEASE	RATE/HA	Remarks
<p><u>WHEAT</u> (winter, spring, hard red, durum, Canada prairie, soft white)</p> <p>* <i>Septoria</i> Leaf Blotch (<i>Septoria tritici</i>)</p> <p>* Tan Spot (<i>Pyrenophora tritici-repentis</i>)</p> <p>* Powdery Mildew (<i>Erysiphe graminis</i>)</p> <p>* Leaf and Stem Rust (<i>Puccinia triticina</i>, <i>P. graminis</i>)</p> <p>* Stripe Rust (<i>Puccinia striiformis</i>)</p> <p><u>SPRING BARLEY</u></p> <p>* Net Blotch (<i>Pyrenophora teres</i>)</p> <p>* Scald (<i>Rhynchosporium secalis</i>)</p> <p>* <i>Septoria</i> Leaf Blotch (<i>Septoria passerinii</i>)</p> <p>* Spot Blotch (<i>Cochliobolus sativus</i>)</p> <p>* powdery mildew (<i>Erysiphe graminis</i>)</p> <p>* leaf rust (<i>Puccinia hordei</i>)</p> <p><u>OATS</u></p> <p>* <i>Septoria</i> Leaf Blotch (<i>Septoria avenae</i>)</p> <p>* Crown Rust (<i>Puccinia coronata</i>)</p>	250 mL	<p>Apply USF 2010 FUNGICIDE at the very early stages of disease development. This could occur anytime during tillering or stem elongation. Typically, one application from the tillering up to flag leaf emergence is required. A second application may be made if needed.</p> <p>DO NOT apply within 14 days of the first treatment.</p> <p>DO NOT apply USF 2010 FUNGICIDE after early heading (the head is half emerged).</p> <p>Timing of Application:</p> <p>Single application: 4-leaf stage up to early heading (GS 14-55).</p> <p>Two applications:</p> <p>First application: 4-leaf stage to flag leaf stage.</p> <p>Second application: before early heading (GS 14-55), but not within 14 days of the first application.</p> <p>USF 2010 FUNGICIDE may be applied by ground or air equipment. GROUND APPLICATION: Apply specified dosage in 100-200 L of water per hectare.</p> <p>AERIAL APPLICATION: Apply specified dosage in a minimum of 50 L of water per hectare.</p> <p>USF 2010 FUNGICIDE is recommended to be used with a registered non-ionic surfactant at 0.125% vol/vol.</p>
<p>Restrictions: Do not apply more than 2 applications of USF 2010 FUNGICIDE per season. Do not apply USF 2010 FUNGICIDE within 45 days of harvest. Grazing Restrictions: a) if 2 applications of USF 2010 FUNGICIDE per season are applied, do not allow livestock to graze within the treated area and do not harvest the treated crop for forage or hay. b) If 1 application of USF 2010 FUNGICIDE per season is applied, do not allow livestock to graze within the treated area within 30 days after application, and do not harvest the treated crop for forage within 30 days after application and 45 days for grain, straw and for hay.</p>		

SEQUENTIAL APPLICATIONS IN WHEAT AND BARLEY:

USF 2010 FUNGICIDE may be applied in sequence with Folicur 432F Foliar Fungicide, Folicur 250 EW Fungicide, Prosaro 250EC Fungicide or Prosaro 421SC Fungicide. Please refer to respective product labels for specific use directions, pertinent recommendations, restrictions and precautions.

Recommended Applications:

Application Timing/Crop Stage/Product/Product Rates for single application		Minimum Interval between Applications and Maximum Seasonal Application Rates	
Vegetative stage	Heading/Anthesis	Minimum Interval between applications	Maximum seasonal tebuconazole rate (g a.i./ha)
USF2010 250 mL/ha	Folicur 432F 292 mL/ha	7 days	191
USF2010 250 mL/ha	Folicur 250EW 500 mL/ha	7 days	191
USF2010 250 mL/ha	Prosaro 250 EC 800 mL/ha	7 days	166
USF2010 250 mL/ha	Prosaro 421 SC 467 mL/ha	7 days	166

Resistance Management Advisory for Cereal Crops:

Repeated application of standalone DMI Fungicides should not be used on the same crop in one season against risky pathogens such as cereal powdery mildew in areas of high disease pressure for that particular pathogen. Mixture products, tank-mixtures or alternation with fungicides having a different mode of action have been shown to protect against the development of resistant forms of disease.

SOYBEAN:		
CROP/DISEASE	RATE/HA	REMARKS
<u>SOYBEAN</u> * Asian Soybean Rust <i>(Phakopsora pachyrhizi)</i> * Frogeye Leaf Spot <i>(Cercospora sojina)</i>	250 mL	Begin applications preventatively from early flowering (R1) to complete pod fill (R5) when risk of rust infection is high. Spray between R3 and R4 (early pod fill) or when first symptoms occur for Frogeye Leaf Spot. USF 2010 FUNGICIDE may be applied by ground or air equipment. GROUND APPLICATION: Apply specified dosage in 100-200 L of water per hectare. AERIAL APPLICATION: Apply specified dosage in a minimum of 50 L of water per hectare. USF 2010 FUNGICIDE is recommended to be used with a registered non-ionic surfactant at 0.125% vol/vol.
Restrictions: DO NOT apply more than 0.5 L of USF 2010 FUNGICIDE per hectare per season (2 applications at 250 mL/ha). DO NOT apply USF 2010 FUNGICIDE within 20 days of harvest.		

Rotational Crops: Treated areas may be replanted immediately following harvest with any crop listed on this label. For crops not listed on this label, do not plant back within 120 days of last application.

RESISTANCE MANAGEMENT:

For resistance management, please note that USF 2010 FUNGICIDE contains both a Group 3 fungicide (tebuconazole) and a Group 11 fungicide (trifloxystrobin). Any fungal population may contain individuals naturally resistant to USF 2010 FUNGICIDE and other Group 3 or Group 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 are 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 USF 2010 FUNGICIDE or other Group 3 and 11 fungicides with different groups that control the same pathogens.
- Do not apply more than the indicated maximum number of applications specified for each crop in the DIRECTIONS FOR USE.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.

- 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.
- Monitor treated fungal populations for resistance development. Notify Bayer CropScience if reduced sensitivity of the pathogen to USF 2010 FUNGICIDE is suspected.
- 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 target 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.
- For further information or to report suspected resistance, contact a Bayer CropScience representative at 1-888-283-6847 or at www.bayercropscience.ca .

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