

2020-0050
2020-01-17

GROUP	3	FUNGICIDE
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ORIOUS 430 SC

Foliar Fungicide

SUSPENSION

FOR SUPPRESSION OF FUSARIUM HEAD BLIGHT AND CONTROL OF FOLIAR DISEASES ON WHEAT (SPRING, WINTER AND DURUM), BARLEY AND OATS

AGRICULTURAL

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

ACTIVE INGREDIENT: Tebuconazole 430 g/L

Contains 1,2 benzisothiazolin-3-one at 0.014% as a preservative

REGISTRATION NO. 33673 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 - 1 0 5 0 litres

For emergency medical help call PROPHARMA at 1 877 250 9291 (24 hours a day)
For spill, leak or fire call INFOTRAC at 1 800 535 5053 (24 hours a day)

ADAMA Agricultural Solutions Canada Ltd.
300-191 Lombard Avenue
Winnipeg, Manitoba R3B 0X1
1 855-264-6262

2020-0050
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(Back Panel of the Jug)

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor or spray mist.

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

Follow manufacturer's instructions for cleaning/maintaining the Personal Protective Clothing (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have a 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 compound does not cause any definite symptoms that would be diagnostic. Contact with the eyes may cause irritation. Vomiting may cause aspiration pneumonia.

To Physician: No specific antidote. Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS

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.

Toxic to birds, small wild animals, aquatic organisms, and non-target terrestrial plants. Observe buffer zones specified under APPLICATION INSTRUCTIONS and BUFFER ZONES. As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. 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.

STORAGE

1. Store above 5° C in original, tightly closed container.
2. Do not ship or store near food, feed, seed and fertilizers.
3. Store in cool, dry, locked, well-ventilated area without floor drain.
4. Keep from freezing.

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 rinsate 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. 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.

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GENERAL INFORMATION

SECTION 1: THE PRODUCT

ORIOUS 430 SC Foliar Fungicide can be applied as a post-emergent treatment in wheat (spring, winter, durum), barley and oats for the suppression of fusarium head blight and control of listed foliar diseases.

SAFETY AND HANDLING

SECTION 2: PRECAUTIONS, PROTECTIVE CLOTHING AND EQUIPMENT, AND RE-ENTRY RESTRICTIONS

KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor or spray mist.

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

Follow manufacturer's instructions for cleaning/maintaining the Personal Protective Clothing (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

Ensure no bystanders are present during the application operation. Only protected handlers may be in the area during application. Use mechanical flaggers only. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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 web site at www.croplife.ca.

SECTION 3: FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have a 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.

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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.

SECTION 4: TOXICOLOGICAL INFORMATION

The compound does not cause any definite symptoms that would be diagnostic. Contact with the eyes may cause irritation. Vomiting may cause aspiration pneumonia.

To Physician: No specific antidote. Treat symptomatically.

SECTION 5: ENVIRONMENTAL PRECAUTIONS

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.

Toxic to birds, small wild animals, aquatic organisms, and non-target terrestrial plants. Observe buffer zones specified under INSTRUCTIONS and BUFFER ZONES. As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. 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. To reduce the run off refer to the recommendations under INSTRUCTIONS and BUFFER ZONES

SECTION 6: STORAGE

1. Store above 5° C in original, tightly closed container.
2. Do not ship or store near food, feed, seed and fertilizers.
3. Store in cool, dry, locked, well-ventilated area without floor drain.
4. Keep from freezing.

SECTION 7: 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. 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.

SECTION 8: 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.

DIRECTIONS FOR USE

SECTION 9: AERIAL APPLICATION LABEL INSTRUCTIONS

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.

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. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices, or equivalent electronic position systems (GPS). The use of a spotter plane is recommended. Use mechanical flaggers only.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. 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.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear coveralls over long pants, long-sleeved shirt, chemical-resistant gloves and goggles or face shield during mixing, loading, clean-up and repair activities. Coveralls and chemical-resistant gloves are not required during application within closed cockpits. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Volume: Apply the recommended rate in a minimum spray volume of 47 L/ha.

SECTION 10: APPLICATION INSTRUCTIONS AND USE LIMITATIONS

- DO NOT apply more than once per crop season for wheat, barley and oats.
- DO NOT apply this product through any type of irrigation system.
- DO NOT apply when weather conditions may cause spray drift from treated areas to adjacent crops.
- DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.
- 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.
- 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.
- Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversion, application equipment and sprayer settings.
- ORIUS 430 SC should be applied in a minimum of 100 litres of spray solution per hectare by ground sprayer or 47 litres of spray solution per hectare by aircraft spray equipment. Check equipment calibration frequently.

SECTION 11: PRE-HARVEST, GRAZING AND FEEDING INTERVALS

- Wheat, barley and oats - Applications may not be made within 36 days of harvest. Do not allow livestock to graze or feed green forage to livestock prior to 6 days after treatment.

Straw cut after harvest may be fed or used for bedding.

SECTION 12: 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:		
			Freshwater Habitat of Depths:		Terrestrial Habitat
			Less than 1 m	Greater than 1 m	
Field sprayer	All crops		1	1	1
Aerial	All crops	Fixed Wing	55	1	15
		Rotary Wing	30	1	15

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.

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.

SECTION 13: REGISTERED CROPS AND APPLICATION TIMING

REGISTERED CROPS:

ORIOUS 430 SC Foliar Fungicide is registered for suppression of fusarium head blight and control of foliar diseases on wheat (spring, winter and durum), barley and oats.

When applied as directed, ORIOUS 430 SC Foliar Fungicide will control the listed diseases, unless otherwise indicated as suppression.

CROP	DISEASE CONTROLLED	APPLICATION RATE	REMARKS
Wheat (spring, winter, durum)	For suppression of fusarium head blight (<i>Gibberella zeae/Fusarium graminearum</i>)	292 mL/ha	ORIOUS 430 SC Foliar Fungicide should only be applied when the risk of fusarium head blight infection is high. Consult your local extension authority regarding the need for ORIOUS 430 SC Foliar Fungicide use. Head blight is extremely difficult to

	<p>Septoria glume blotch (<i>Stagonospora nodorum</i>)</p>	<p>control. For that reason only suppression of fusarium head blight is claimed.</p> <p>Fusarium head blight outbreaks occur when the weather is warm and wet at the flowering to soft dough stages.</p> <p>The application of ORIUS 430 SC Foliar Fungicide for protection against fusarium head blight should be considered when these weather conditions are forecasted for this stage of wheat development.</p> <p>Timing of application is critical: For optimum suppression of fusarium head blight and control of septoria glume blotch, apply ORIUS 430 SC Foliar Fungicide within the time period from when at least 75% of the wheat heads on the main stem are fully emerged to when 50% of the heads on the main stem are in flower.</p> <p>Spray coverage is essential: Ensure thorough coverage of all wheat heads.</p> <p>Spray equipment must be set up to provide good coverage to wheat heads.</p> <p>ORIUS 430 SC Foliar Fungicide may be applied by ground or air equipment</p> <p>GROUND APPLICATION: Apply specified dosage in a minimum of 100 L of water per hectare.</p> <p>AERIAL APPLICATION: Apply specified dosage in a minimum of 47 L of water per hectare.</p> <p>ORIUS 430 SC Foliar Fungicide is recommended to be used with a registered non-ionic surfactant, such</p>
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			as Agral 90 or AgSurf at 0.125% vol/vol.
<p>Leaf rust (<i>Puccinia triticina</i>)</p> <p>Stem rust (<i>Puccinia graminis</i>)</p> <p>Stripe rust (<i>Puccinia striiformis</i>),</p> <p>Septoria leaf blotch (<i>Septoria tritici</i>)</p> <p>Tan spot (<i>Pyrenophora tritici-repentis</i>)</p>	220-292 mL/ha		<p>Apply ORIUS 430 SC Foliar Fungicide to leaf foliage at the first sign or very early stage of disease, especially if weather conditions are conducive to disease development, up to the end of the flowering stage.</p> <p>Where a rate range is specified, use of the higher rate should be considered when weather conditions are conducive to heavy disease development.</p> <p>ORIUS 430 SC Foliar Fungicide may be applied by ground or air equipment</p>
<p>Powdery mildew (<i>Erysiphe graminis</i>)</p>	292 mL/ha		<p>GROUND APPLICATION: Apply specified dosage in a minimum of 100 L of water per hectare.</p> <p>AERIAL APPLICATION: Apply specified dosage in a minimum of 47 L of water per hectare.</p> <p>ORIUS 430 SC Foliar Fungicide is recommended to be used with a registered non-ionic surfactant, Agral 90 or AgSurf, at 0.125% vol/vol.</p>

<p>Barley</p>	<p>Net blotch (<i>Pyrenophora teres</i>)</p> <p>Spot blotch (<i>Cochliobolus sativus</i>)</p> <p>Scald (<i>Rhynchosporium secalis</i>)</p> <p>Leaf rust (<i>Puccinia hordei</i>)</p> <p>Stem rust (<i>Puccinia graminis</i>)</p> <p>Stripe rust (<i>Puccinia striiformis</i>)</p> <p>Septoria leaf blotch (<i>Septoria passerinii</i>)</p> <p>Powdery mildew (<i>Erysiphe graminis</i>)</p>	<p>220-292 mL/ha</p>	<p>Apply ORIUS 430 SC Foliar Fungicide at the very early stages of disease development.</p> <p>Where a rate range is specified, use of the higher rate should be considered when weather conditions are conducive to heavy disease development.</p> <p>ORIUS 430 SC Foliar Fungicide may be applied by ground or air equipment.</p> <p>GROUND APPLICATION: Apply specified dosage in a minimum of 100 L of water per hectare.</p> <p>AERIAL APPLICATION: Apply specified dosage in a minimum of 47 L of water per hectare.</p> <p>ORIUS 430 SC Foliar Fungicide is recommended to be used with a registered non-ionic surfactant, Agral 90 or AgSurf, at 0.125% vol/vol.</p>
<p>Oats</p>	<p>Crown rust (<i>Puccinia coronata</i>)</p> <p>Stem rust (<i>Puccinia graminis</i>)</p>	<p>220 mL/ha</p>	<p>Apply ORIUS 430 SC Foliar Fungicide at the very early stages of disease development.</p> <p>Where a rate range is specified, use of the higher rate should be considered when weather conditions are conducive to heavy disease development.</p> <p>ORIUS 430 SC Foliar Fungicide may be applied by ground or air equipment</p> <p>GROUND APPLICATION: Apply specified dosage in a minimum of 100 L of water per hectare.</p>

			<p>AERIAL APPLICATION: Apply specified dosage in a minimum of 47 L of water per hectare.</p> <p>ORIOUS 430 SC Foliar Fungicide is recommended to be used with a registered non-ionic surfactant, Agral 90 or AgSurf, at 0.125% vol/vol.</p>
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SECTION 14: MIXING INSTRUCTIONS

- Use 47-100 L/ha of water.
- Use a 50-mesh (or coarser) filter screen.
- Fill the spray tank three-quarters full with water.
- Add the required amount of ORIOUS 430 SC Foliar Fungicide into the sprayer
- Agitate until the fungicide is thoroughly mixed.
- Continue agitation and add the required amount of the tank-mix partner
- Continue agitation while adding the required amount of recommended registered non-ionic surfactant, Agral 90 or Agsurf at 0.125% v/v
- Complete filling the tank to the desired level with water.
- Upon completion of spraying, thoroughly flush tank, boom, hoses and in-line and nozzle screens with clean water to avoid possible injury to other crops.
- Repeat sprayer cleanout process using an appropriate spray system cleaner

SECTION 15: 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.

SECTION 16: RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, ORIOUS 430 SC Foliar Fungicide contains a Group 3 fungicide. Any fungal population may contain individuals naturally resistant to ORIOUS 430 SC Foliar Fungicide and other Group 3 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/bactericide resistance:

- Where possible, rotate the use of ORIOUS 430 SC Foliar Fungicide or other Group 3 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide/bactericides from a different group that is effective on the target pathogen when such use is permitted.

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- 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 ADAMA Agricultural Solutions Canada Ltd. if reduced sensitivity of the pathogen to ORIUS 430 SC Foliar 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 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 and to report suspected resistance, contact ADAMA Agricultural Solutions Canada Ltd. at 1-855-264-6262 or at www.adama.com/canada.