

This label has been updated according to the re-evaluation decision of Difenoconazole RVD2022-05. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 21/04/2024 in accordance with the phase out period set out in the re-evaluation/special review decision of Difenoconazole RVD2022-05. 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.

GROUPS	7 3	FUNGICIDES
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ASCERNITY™ Fungicide
SOLATENOL® technology

FUNGICIDE

SOLUBLE CONCENTRATE

COMMERCIAL

For broad-spectrum disease control in turf.

ACTIVE INGREDIENTS:

Benzovindiflupyr 24 g/L
Difenoconazole 79 g/L

READ THE LABEL AND PAMPHLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN



POISON

WARNING: EYE IRRITANT

REGISTRATION NO.: **31527**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **0.5 – Bulk**

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, Ontario N1G 4Z3
Telephone: 1-877-964-3682

Label

1.0 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.

2.0 FIRST AID

IF POISONING IS SUSPECTED, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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 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.

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote known. Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Keep unused product in original container tightly closed, locked up and away from food.

Causes eye irritation. **DO NOT** get in eyes. Harmful if swallowed.

Restricted Entry Interval (REI): DO NOT enter or allow worker entry into treated turf areas until ASCERNITY™ Fungicide is dry.

Apply only when the potential for drift to areas of human habitation or other areas of human activity (other than golf courses), such as parks, school grounds, and playing fields, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear coveralls or a long sleeved shirt and long pants, chemical resistant gloves, and goggles when mixing, loading and applying or during equipment clean up or repair. Goggles and chemical resistant gloves are not required during application.

Remove clothing/PPE 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.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

All users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

6.0 ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

TOXIC to certain beneficial arthropods (which may include predatory and parasitic insects, spiders and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application sites such as hedgerows and woodlands.

Benzovindiflupyr and difenoconazole are persistent and may carryover. It is recommended this product not be used in areas treated with products containing benzovindiflupyr and/or difenoconazole during the previous season.

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 filter strip between the treated area and the edge of the water body.

7.0 STORAGE

Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area away from feed and foodstuffs, and out of the reach of children and animals. To prevent contamination store this product away from food or feed.

8.0 DISPOSAL

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.

For Returnable Containers

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

For Refillable Containers

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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.

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***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

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Pamphlet

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CALL 1-800-327-8633 (FASTMED)***

9.0 PRODUCT INFORMATION

ASCERNITY Fungicide is a broad-spectrum fungicide containing two active ingredients with different modes of action. It has preventative properties and provides disease control of major turfgrass diseases. Use ASCERNITY Fungicide in a preventative disease control program.

10.0 DIRECTIONS FOR USE

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.

DO NOT apply by air.

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-87-SYNGENTA (1-877-964-3682) for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank-mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

10.1 Ground Application

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.

10.1.1 Mixing Instructions

To prepare spray solution, fill the spray tank $\frac{1}{2}$ - $\frac{2}{3}$ full with clean water and begin agitation. Add the required amount of ASCERNITY Fungicide to the tank, allowing time for good dispersion. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation throughout the spraying operation. Do not allow spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use. Sprayers should be calibrated before application and thoroughly cleaned immediately after application. Do not use silicone based products with ASCERNITY Fungicide due to possible phytotoxicity.

10.1.2 Spraying Instructions

1. **Water Volume:** Apply in a minimum spray volume of 4 mL/100 m² OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. **Sprayer Agitation:** Use a jet agitator or liquid sparge tube which recirculates 7-10% of the tank per minute. **DO NOT** use an air sparger.
3. **Pump:** Screens should be used to protect the pump and prevent clogging. Use 16 mesh or *coarser* screens on the suction side of the pump. **DO NOT** place a screen in the recirculation line. Use 50 mesh or *coarser* screens between the pump and boom unless directed otherwise by the sprayer manufacturer.
4. **Spray Nozzles:** 80° or 110° drift reducing flat fan (e.g. those with a pre-orifice or turbulence chamber) or air induction nozzles are recommended. Use 50 mesh nozzle screens or as recommended by the nozzle manufacturer. **DO NOT** use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
5. **Pressure:** As recommended by the nozzle manufacturer to achieve no smaller than ASAE fine sized droplets.
6. Apply at uniform speed and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from over application.

10.1.3 Equipment Clean-Up

Before Spraying:

- Prior to using ASCERNITY Fungicide, ensure that the spray tank, lines and filter are thoroughly clean.

After Spraying:

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow ASCERNITY Fungicide residue to dry within the spray tank.
- When using tank mixes, consult the tank-mix partner label for additional clean-up instructions.
- The following recommendations are provided:
 1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean the sprayer near desirable vegetation, wells or other water sources.
 2. Remove all nozzles and screens and wash separately.
 3. Dispose of all rinsate in accordance with provincial regulations.

10.2 Spray Buffer Zones

A spray buffer zone is NOT required for:

- Uses with hand-held application equipment permitted on this label,
- Low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage,

The spray 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), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Turf	25	3	1	1	1

When tank mixes are permitted, 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 buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca web site.

11.0 CROP USE DIRECTIONS

11.1 Turf

Crop	Turf: Golf Courses
Diseases Controlled	Anthracnose (<i>Colletotrichum cereale</i>) Microdochium patch (<i>Microdochium nivale</i>) Red thread (<i>Laetisaria fuciformis</i>)
Use Rate	31 mL/100 m ² or 3.1 L/ha
Application Interval	14 days
Disease Controlled	Brown patch (<i>Rhizoctonia solani</i>)
Use Rate	31 mL/100 m ² or 3.1 L/ha
Application Interval	14-21 days
Disease Controlled	Dollar spot (<i>Sclerotinia homeocarpa</i>)
Use Rate	31 mL/100 m ² or 3.1 L/ha
Application Interval	14-21 days
Application Timing/Instructions	<p>For best control, use as a component of an integrated disease management program.</p> <p>Begin applications when conditions are favourable for disease infection and/or prior to disease symptom expression.</p> <p>Under conditions of high disease pressure, use the shortest re-treatment interval.</p> <p>Apply in sufficient water to ensure thorough coverage. 4-8 liters of water per 100 m² is recommended.</p> <p>Use of AI or XR nozzles is recommended.</p> <p>Apply after mowing.</p> <p>Allow sprayed area to completely dry before irrigation.</p> <p>DO NOT apply more than 62 mL product/100 m²/year (6.2 L product/ha/year) on turfgrass.</p> <p>DO NOT apply more than two sequential applications of ASCERNITY Fungicide (Group 3 and Group 7 fungicides) before alternating with a fungicide having a different mode of action registered for the same disease.</p>

12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, ASCERNITY Fungicide contains a Group 7 fungicide in the succinyl dehydrogenase inhibitor (SDHI) class and a Group 3 fungicide in the triazole (DMI) class. Any fungal population may contain individuals naturally resistant to benzovindiflupyr, difenoconazole and other Group 7 or 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 resistance:

Where possible, rotate the use of benzovindiflupyr or other Group 7 fungicides and difenoconazole or other Group 3 fungicides with different groups that control the same pathogens.

Although ASCERNITY Fungicide contains two active ingredients, benzovindiflupyr and difenoconazole, for certain diseases only one active may have efficacy against the causative pathogen. Appropriate resistance management practices should still be adhered to as part of any pesticide application program, including alternating ASCERNITY Fungicide with non-Group 7 and 3 fungicides.

Apply no more than 2 sequential applications unless otherwise stated in the crop section.

DO NOT apply at rates lower than recommended on the label.

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 sign of resistance development. Notify Syngenta Canada if reduced sensitivity of the pathogen to **ASCERNITY** 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, to which pathogen resistance has not developed, 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 company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.