

GROUP	7	FUNGICIDE
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A15457TO Fungicide

FUNGICIDE

EMULSIFIABLE CONCENTRATE

COMMERCIAL

For broad-spectrum disease control or suppression of certain diseases in turf, greenhouse ornamentals and outdoor ornamentals.

ACTIVE INGREDIENT:

Benzovindiflupyr..... 100 g/L

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



**POISON
DANGER: CORROSIVE TO EYES & SKIN**

REGISTRATION NO.: **31521**
PEST CONTROL PRODUCTS ACT

NET CONTENTS : **0.5 L - Bulk**

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

Label

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

IF POISONING IS SUSPECTED, IMMEDIATELY contact a physician or a poison control centre. 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. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. 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.

TOXICOLOGICAL INFORMATION

There is no specific antidote known. Treat symptomatically. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

PRECAUTIONS

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

CORROSIVE to the eye. **DO NOT** get in eyes. Causes irreversible eye damage. Severely irritating to the skin. **DO NOT** get on skin. Harmful or fatal if swallowed. Harmful if inhaled. Avoid inhaling/breathing spray.

DO NOT enter or allow entry into treated turf areas until A15457TO Fungicide is dry. **DO NOT** enter or allow worker entry into treated areas for 12 hours following application to ornamentals. Not for use in residential areas. Residential areas are defined as any use site where bystanders including children could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other area where the general public including children could be exposed.

PERSONAL PROTECTIVE EQUIPMENT

Wear coveralls or a long sleeved shirt and long pants, chemical resistant gloves, and goggles when mixing, loading or during equipment clean up or repair. Wear coveralls or a long sleeved shirt and long pants 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.

ENVIRONMENTAL PRECAUTIONS

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

Benzovindiflupyr is persistent and may carryover. It is recommended that any products containing benzovindiflupyr not be used in areas treated with this product 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 strip between the treated area and the edge of the water body.

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.

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:

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 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 further use.

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

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

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GENERAL INFORMATION

A15457TO Fungicide is a broad-spectrum fungicide with preventative properties. A15457TOFungicide provides disease control or suppression of many major turfgrass and ornamental diseases.

DIRECTIONS FOR USE

Use A15457TOFungicide in a preventative disease control program.

DO NOT apply A15457TOFungicide through irrigation equipment.

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 allow effluent or runoff from greenhouses or mushroom houses containing this product to enter lakes, streams, ponds or other waters.

DO NOT apply more than 30 mL product/100 m²/year (3 L product/ha/year) on turfgrass.

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.

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.

Airblast application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

DO NOT apply by air.

BUFFER ZONES

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

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), 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		15	2	1	1	1
	Outdoor ornamental		10	1	1	1	1
Airblast	Outdoor ornamental	Early growth stage	45	20	5	2	1
		Late growth stage	35	10	3	1	1

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray 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 buffer zones 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.

MIXING INSTRUCTIONS

To prepare spray solution, fill half of the required water volume in the spray tank with clean water and begin agitation. Add the required amount of A15457TO 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 A15457TO Fungicide due to possible phytotoxicity.

DIRECTIONS FOR USE

The following use instructions will provide control of the listed diseases unless stated otherwise.

TURF	
DISEASES	Dollar spot (<i>Sclerotinia homoeocarpa</i>)
PRODUCT RATE	7.5 mL/100 m ² or 0.75 L/ha
APPLICATION INTERVAL	14 - 21 days
MAXIMUM APPLICATIONS OF PRODUCT PER YEAR	4
DISEASES	Brown patch (<i>Rhizoctonia solani</i>)
PRODUCT RATE	5 - 7.5 mL/100 m ² or 0.5 - 0.75 L/ha
APPLICATION INTERVAL	14 – 21 days
MAXIMUM APPLICATIONS OF PRODUCT PER YEAR	4
DISEASES	Anthracnose (<i>Colletotrichum cereale</i>)
PRODUCT RATE	7.5 mL/100 m ² or 0.75 L/ha
APPLICATION INTERVAL	14 days
MAXIMUM APPLICATIONS OF PRODUCT PER YEAR	4
APPLICATION DIRECTIONS	<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 prior to disease symptom expression.</p> <p>Under conditions of high disease pressure, use the highest label rate and the shortest interval.</p> <p>Apply in sufficient water to ensure thorough coverage. 4-8 liters of water per 100m² is recommended.</p> <p>Use AI or XR nozzles.</p> <p>Apply after mowing.</p> <p>Allow sprayed area to completely dry before irrigation.</p> <p>DO NOT apply more than two sequential applications of A15457TO Fungicide before alternating with a fungicide having a different mode of action registered for the same disease.</p>

DISEASES	Pink snow mould (<i>Microdochium nivale</i>) Grey snow mould (<i>Typhula incarnata</i> , <i>T. ishikariensis</i>)
PRODUCT RATE	7.5 mL/100 m ² or 0.75 L/ha
MAXIMUM APPLICATIONS OF PRODUCT PER YEAR	1
APPLICATION DIRECTIONS	<p>For optimum pink snow mould control tank mix A15457TO Fungicide with MEDALLION™ Fungicide. Under conditions of high disease pressure consider including an additional product containing a different mode of action which is also labelled for snow mould.</p> <p>Make one application in the late fall before snow cover.</p> <p>DO NOT apply on top of snow or when the temperature is below 0°C.</p> <p>For best control, use as a component of an integrated disease management program.</p> <p>Apply in sufficient water to ensure thorough coverage. 2-8 litres of water per 100 m² is recommended. Use AI, XR or Syngenta XC nozzles. Apply after mowing and do not mow after application.</p>

The following use instructions will provide control of the listed diseases unless stated otherwise.

ORNAMENTALS - OUTDOOR AND GREENHOUSE	
FOLIAR APPLICATION	
DISEASES	Powdery mildew (<i>Including Erysiphe</i> spp., <i>Sphaerotheca</i> spp.) Alternaria leaf spot (<i>Alternaria</i> spp.) Rust (<i>Puccinia</i> spp.)
PRODUCT RATE	50 - 75 mL/100L of water
APPLICATION INTERVAL	7-14 days
MAXIMUM APPLICATIONS OF PRODUCT PER YEAR	2
DIESEASES	Suppression of Botrytis grey mould (<i>Botrytis cinerea</i>)
PRODUCT RATE	50 - 75 mL/100L of water
APPLICATION INTERVAL	7-14 days
MAXIMUM APPLICATIONS OF PRODUCT PER YEAR	2
APPLICATION DIRECTIONS	<p>A15457TO Fungicide may be applied as a preventative spray prior to infection to greenhouse and outdoor ornamentals to control or suppress the listed diseases.</p> <p>A15457TO Fungicide applications should begin prior to disease development and continue throughout the season at listed use rates and specified intervals following resistance management guidelines. A15457TO Fungicide works best when used as part of a preventative disease management program.</p> <p>For best control, apply A15457TO Fungicide as a foliar broadcast application in sufficient water to ensure complete coverage of the target plant. Good coverage of the pre-infection area is necessary for satisfactory control.</p> <p>Repeat applications at specified intervals. If disease pressure is high, use the highest rate and shortest interval.</p> <p>Plant safety has been found to be acceptable for many ornamental plants, however, not all possible plant species and varieties have been tested under all conditions. It is recommended to test A15457TO Fungicide on a small portion of the crop to ensure that a phytotoxic response will not occur.</p> <p>Use of A15457TO Fungicide as a "rescue" (late curative or eradicator) treatment may not always result in satisfactory disease control.</p>

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, A15457TO Fungicide contains a Group 7 fungicide in the succinyl dehydrogenase inhibitor (SDHI) class. Any fungal population may contain individuals naturally resistant to benzovindiflupyr and other Group 7 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 with different groups that control the same pathogens.

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.

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.

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.