

2015-4210
2016-04-14

GROUP	12	FUNGICIDE
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**INSTRATA® II A Fungicide
(A Component of INSTRATA® II Fungicide Tank Mix)**

SUSPENSION CONCENTRATE

COMMERCIAL

This component must be used in the Instrata II Fungicide Tank Mix.
For control of diseases on turf.

GUARANTEE:

Fludioxonil 125 g/L

Contains 1,2-benzisothiazolin-3-one at 0.037% and 2-bromo-2-nitropropane-1,3-diol at 0.036% as preservatives.

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

REGISTRATION NO.: **31531**
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

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. The user assumes the risk to persons or property that arises from any such use of this product.

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. 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.

TOXICOLOGICAL INFORMATION

There is no specific antidote known. Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

DO NOT enter or allow entry into treated turf areas until INSTRATA II A Fungicide is dry.

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 (PPE)

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 HAZARDS

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

Fludioxonil is persistent and may carryover. It is recommended that any products containing fludioxonil 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

Store in original container in a cool, dry place. **DO NOT** use or store near heat or open flame. **DO NOT** store this product under wet conditions. Keep container closed when not in use. Do not store near food or feed.

DECONTAMINATION AND DISPOSAL

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

CONTAINER DISPOSAL:

For recyclable containers for commercial use:

DO NOT reuse this container for any other 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 or dispose of the rinsings in accordance with provincial requirements.
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 refillable containers commercial use:

DO NOT reuse this container for any other purpose. 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.

For returnable containers commercial use:

DO NOT reuse this container for any other purpose. This empty container may be returned to the point of purchase (distributor/dealer) for disposal.

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

INSTRATA[®] is a trademark of a Syngenta Group Company.

INSTRATA® II Fungicide Tank Mix

COMMERCIAL

For snow mould control on golf course turf.

This Tank Mix Concept contains:

INSTRATA II A Fungicide

GROUP	12	FUNGICIDE
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Registration Number: **31531** Pest Control

Products Act

GUARANTEE:

Fludioxonil125 g/L

SUSPENSION CONCENTRATE

Contains 1,2-benzisothiazolin-3-one at 0.037% and 2-bromo-2-nitropropane-1,3-diol at 0.036% as preservatives.

INSTRATA® II B Fungicide

GROUP	3	7	FUNGICIDE
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Registration Number: **31530** Pest Control

Products Act

GUARANTEE:

Benzovindiflupyr 24 g/L

Difenoconazole 79 g/L

SOLUBLE LIQUID

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



POISON

WARNING: EYE IRRITANT

For information regarding INSTRATA® II Fungicide Tank Mix contact:

Syngenta Canada Inc.

140 Research Lane, Research Park

Guelph, ON N1G 4Z3

Telephone: 1-877-964-3682

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. The user assumes the risk to persons or property that arises from any such use of this product.

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 give any liquid to the person. . 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.

TOXICOLOGICAL INFORMATION

There is no specific antidote known. Treat symptomatically.

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.

DO NOT enter or allow entry into the treated turf area until INSTRATA II Fungicide Tank Mix is dry.

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 HAZARDS

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

TOXIC to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application sites such as hedgerows and woodlands.

Benzovindiflupyr, difenoconazole, and fludioxonil are persistent and may carryover. It is recommended that any products containing benzovindiflupyr, difenoconazole, and/or fludioxonil 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.

DECONTAMINATION AND DISPOSAL

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

CONTAINER DISPOSAL:

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)***

GENERAL INFORMATION

INSTRATA II Fungicide Tank Mix is formulated for control of snow mould on golf course greens, tees, and fairways. It has preventative, systemic and curative properties.

DIRECTIONS FOR USE

INSTRATA II Fungicide Tank Mix should be used as a component of an integrated disease management program and in conjunction with good turf management practices.

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.

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	5	1	1	1	1

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 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**Mixing in the Spray Tank**

- Add ½-¾ of the required amount of water to the spray or mixing tank.
- Begin agitation then add INSTRATA II A Fungicide, a component of INSTRATA II Fungicide Tank Mix. Allow the INSTRATA II A Fungicide to completely dissolve and disperse into the spray solution. Continue agitation while adding the remainder of the water to the spray tank and add INSTRATA II B Fungicide, a component of INSTRATA II Fungicide Tank Mix, to the spray solution.
- Allow material to completely disperse.
- Agitate the spray solution before and during application.

DO NOT allow spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray mixture required for immediate use. Thoroughly clean spray equipment before using this product. Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already treated area. Sprayers should be thoroughly cleaned immediately after application.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-877-SYNGENTA (1-877-964-3682) for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Syngenta Canada Inc.

TURF - Golf course fairways, greens and tees	
DISEASES	Pink snow mould (<i>Microdochium nivale</i>) Grey snow mould (<i>Typhula incarnata</i> , <i>T. ishikariensis</i>)
PRODUCT RATE	60 mL/100m ² or 6 L/ha INSTRATA II A Fungicide + 31.7mL/100m ² or 3.17 L/ha INSTRATA II B Fungicide
APPLICATION DIRECTIONS	For best control, use as a component of an integrated disease management program Make one application in the late fall before snow cover and prior to disease symptom expression. DO NOT apply on top of snow or when the temperature is below 0°C. Apply in sufficient water to ensure thorough coverage. 2-8 litres of water per 100m ² is recommended. Use AI, XR or Syngenta XC nozzles. Apply after mowing and do not mow after application. DO NOT apply more than 1 application per season.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, INSTRATA II Fungicide Tank Mix contains a Group 3 fungicide in the triazole (DMI) class, a Group 7 fungicide in the succinyl dehydrogenase inhibitor (SDHI) class, and a Group 12 fungicide in the Phenylpyrroles (PP) class. Any fungal population may contain individuals naturally resistant to INSTRATA II Fungicide Tank Mix and other Group 3, 7 and 12 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 INSTRATA II Fungicide Tank Mix or other Group 3, 7 or 12 fungicides with different groups that control the same pathogens.

Use tank mixtures with fungicide 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 Syngenta if reduced sensitivity of the pathogen to INSTRATA II Fungicide Tank Mix 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 or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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