GROUP 12 FUNGICIDE

# **INSTRATA® II A Fungicide**

FUNGICIDE
SUSPENSION
COMMERCIAL

For control of pink snow mould 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.: 32712
PEST CONTROL PRODUCTS ACT

Syngenta Canada Inc.

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Telephone: 1-877-964-3682

Pamphlet

# **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.

# PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear coveralls or long sleeved shirt and long pants, chemical resistant gloves, and goggles when mixing, loading 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.

#### **ENVIRONMENTAL HAZARDS**

TOXIC to aquatic organisms, birds, small wild mammals 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 (1-800-FASTMED)

#### PRODUCT INFORMATION

INSTRATA II A Fungicide is a contact and protective fungicide for control of listed diseases in turf. It is a suspension concentrate formulation containing 125 g/L fludioxonil. Fludioxonil is a long lasting contact fungicide belonging to the phenyl pyrrole chemistry group that provides broad-spectrum activity against a wide range of diseases through the inhibition of fungal mycelial growth.

#### **DIRECTIONS FOR USE**

INSTRATA II A Fungicide provides control of turf diseases when used in an integrated disease management program.

For optimum turfgrass quality and disease control, use INSTRATA II A Fungicide in conjunction with turfgrass management practices that promote plant health. Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease is essential to determine the best control measures.

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 more than 180 mL product/100 m<sup>2</sup>/year (18.0 L product/ha/year) on turfgrass.

<u>Field sprayer application</u>: **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.

	Сгор	Buffer Zones (metres) Required for the Protection of:				
Method of application		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	3	1	1	0	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

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 INSTRATA II A 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 INSTRATA II A Fungicide due to possible phytotoxicity.

**INSTRATA II A Fungicide + Tank Mixtures:** INSTRATA II A Fungicide is usually compatible with many tank-mix partners registered for use on turf.

If tank mixes are desired, observe all directions, precautions, and limitations on labeling of all products used. Do not combine INSTRATA II A Fungicide in the spray tank with pesticides, surfactants, or fertilizers; unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective, and non-injurious under your conditions of use. To determine the physical compatibility of INSTRATA II A Fungicide with other products, use a jar test.

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 1-87-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.

# **DIRECTION FOR USE**

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

TURF: GOLF COURSES				
DISEASE	Pink snow mould (Microdochium nivale)			
PRODUCT RATE	6 L/ha or 60 mL/100 m <sup>2</sup>			
MAXIMUM APPLICATIONS OF PRODUCT PER YEAR	1			
APPLICATION INSTRUCTIONS	For optimum disease control tank mix INSTRATA II A Fungicide with INSTRATA II B Fungicide.			
	Under conditions of high disease pressure also include BANNER MAXX <sup>®</sup> or HERITAGE MAXX <sup>™</sup> in the tank mix.			
	Make one application in the late fall before snow cover.			
	<b>DO NOT</b> apply on top of snow or when the temperature is below 0°C.			
	For best control, use as a component of an integrated disease management program.			
	Apply in sufficient water to ensure thorough coverage. 2-8 litres of water per 100 m <sup>2</sup> is recommended.			
	Use AI, XR or Syngenta XC nozzles.			
	Apply after mowing and do not mow after application.			

#### RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, INSTRATA II A Fungicide contains a Group 12 Fungicide. Any fungal population may contain individuals naturally resistant to INSTRATA II A Fungicide and other Group 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.

Use tank mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted.

Where possible, make use of predictive disease models to effectively time fungicide applications.

# To delay fungicide resistance:

Where possible, rotate the use of INSTRATA II A Fungicide or other Group 12 fungicide with different groups that control the same pathogens.

Do not apply more than the maximum number of applications listed in the label.

Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical

control practices.

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, 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 disease problems in your area.

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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