

Container

GROUP	3	11	FUNGICIDE
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Insignia® Pro

FUNGICIDE

For Microdochium patch, Gray and Pink snow mould control on golf course turf

Suspension Concentrate

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENTS: Mefentrifluconazole 200 g/L
Pyraclostrobin 200 g/L

Contains 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00111%, 2-methyl-4-isothiazolin-3-one at 0.00037%, 1,2-benzisothiazolin-3-one at 0.0400% and 2-bromo-2-nitropropane-1,3-diol at 0.0240%, as preservatives

Warning: contains the allergen soy

REGISTRATION NO. 34892

PEST CONTROL PRODUCTS ACT



CAUTION

POISON

SKIN IRRITANT

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT
1-800-454-2673**

READ THE LABEL AND BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 0.1 L - Bulk

BASF Canada Inc.
5025 Creekbank Road
Building A, 2nd floor
Mississauga, Ontario L4W 0B6
1-877-371-2273

INSIGNIA is a registered trade-mark of BASF Corporation, used under license by BASF Canada Inc.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. **DO NOT** take internally. Harmful if swallowed.
3. May irritate the skin. Avoid contact with skin and clothing.
4. Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking.
5. **DO NOT** enter or allow entry into treated areas until sprays have dried.
6. Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab.
7. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
8. Clean spray equipment thoroughly after use.
9. **DO NOT** contaminate domestic or irrigation water, lakes, streams or ponds by the cleaning of equipment or the disposal of wastes.
10. Apply only when the potential for drift to areas of human habitation and 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
11. **DO NOT** apply to turf in residential areas, including lawns, gardens, parks, playing fields, cemeteries and schools. **Insignia Pro** can be applied to golf course greens, tees, fairways and roughs only.

ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms, non-target terrestrial plants, and small wild mammals. Observe spray buffer zones specified under DIRECTIONS FOR USE.

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.

Mefentrifluconazole is persistent and may carry over. It is recommended that this product not be used in areas treated with any products containing mefentrifluconazole during the previous season.

FIRST AID

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.

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 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 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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

STORAGE

1. Store in original tightly closed container.
2. Store this product away from food or feed.
3. Store in cool, dry, locked, well-ventilated area without floor drain.

DISPOSAL

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 any further use.

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

Disposal of unused, unwanted product

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.

Booklet

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GENERAL INFORMATION

Insignia Pro contains the active ingredients mefentrifluconazole and pyraclostrobin. For optimum disease management, apply **Insignia Pro** in a regularly scheduled preventative spray program in rotation with non-Group 3 and 11 fungicides.

Mode of Action

The active ingredients in **Insignia Pro** belong to the triazole and strobilurin class of fungicides. The mode of action of mefentrifluconazole inhibits demethylation step of sterol biosynthesis (DMI), which disrupts cell membrane synthesis and is classified by the Fungicide Resistance Action Committee (FRAC) as a Group 3 fungicide. Pyraclostrobin belongs to the group of respiration inhibitors known as quinone outside inhibitors (QoI) and classified by FRAC as a Group 11 fungicide.

PRECAUTIONS

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2. **DO NOT** take internally. Harmful if swallowed.
3. May irritate the skin. Avoid contact with skin and clothing.
4. Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking.
5. **DO NOT** enter or allow entry into treated areas until sprays have dried.
6. Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab.
7. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
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ENVIRONMENTAL PRECAUTIONS

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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.

Mefentrifluconazole is persistent and may carry over. It is recommended that any products containing mefentrifluconazole not be used in areas treated with this product during the previous season.

FIRST AID

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.

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TOXICOLOGICAL INFORMATION

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DIRECTIONS FOR USE

ALL USES

For maximum efficacy, **Insignia Pro** should be applied preventively. Under high disease pressure, use the higher specified rate.

All applications should be made according to the use directions indicated in the Application Rates Table. Failure to follow directions and precautions on this label may result in turf grass injury and/or inferior disease control.

Apply **Insignia Pro** in 4.0 - 16.0 litres of water per 100 square meters (400 - 1600 litres per hectare). Apply at higher water volume under heavy disease pressure or on higher cuts of turf.

DO NOT apply more than one (1) application of **Insignia Pro** before alternating to a non-Group 3 and non-Group 11 fungicide registered for the same use.

Turf Grass Tolerance

Due to variability within turf grass species and application techniques, neither the manufacturer nor the seller has determined whether or not **Insignia Pro** can safely be used on all turf grasses under all conditions. Therefore, it is recommended that the user determine if **Insignia Pro** can be used safely before broad use. Apply the recommended use rate of **Insignia Pro** on a small test area under conditions expected to be encountered. Monitor for any adverse effects during a 14-day period after application.

Application Rates Table

When applied as directed, **Insignia Pro** will control the listed diseases.

Disease Controlled	Use Rate (mL/100 sq. m.)	Additional Instructions
Gray snow mould / Typhula blight (<i>Typhula incarnata</i> , <i>T. ishikariensis</i>)	17 – 25	Make a single application in late fall just prior to snow cover.
Microdochium patch (Fusarium patch) (<i>Microdochium nivale</i>)	25	Make a single application in the late fall just prior to snow cover.
Pink snow mould (<i>Microdochium nivale</i>)	25	Make a single application in the late fall just prior to snow cover.
TANK MIXING 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 BASF Canada Inc. at 1-877-371-2273 for information before mixing any pesticide that is not specifically recommended on this label. Physical incompatibility, reduced disease control or turf injury may result from mixing Insignia Pro with other products. Therefore, before using any tank mix (fungicides, insecticides, liquid fertilizers, biological control products, adjuvant and additives) test a small portion of the turf to be treated to ensure that a phytotoxic response will not occur.		

MIXING

1. Clean spray tank following sprayer clean-up recommendations on the previous product label.
2. Fill the spray tank one-half full of water and start agitation.
3. Add the required amount of **Insignia Pro** to the tank.
4. Add the required amount of the tank mix partner, if required.
5. Continue agitation while filling the remainder of the spray tank.
6. After use, clean the spray tank according to PRECAUTIONS.

APPLICATION INSTRUCTIONS

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.

Spray Buffer Zones

A spray buffer zone is NOT required for uses with hand-held application equipment permitted on this label.

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	Pest	Spray Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Gray snow mould / Typhula blight, Microdochium patch, Pink snow mould	15	2	2	1	0

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 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 website.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, **Insignia Pro** contains Group 3 and 11 fungicides. Any fungal population may contain individuals naturally resistant to **Insignia Pro** and other Group 3 and 11 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 **Insignia Pro** or other Group 3 and 11 fungicides with different groups that control the same pathogens.

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 resistance development. Notify BASF Canada if reduced sensitivity of the pathogen to **Insignia Pro** 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 BASF Canada Inc. at 1-877-371-2273 or at www.betterturf.ca.

STORAGE

1. Store in original tightly closed container.
2. Store this product away from food or feed.
3. Store in cool, dry, locked, well-ventilated area without floor drain.

DISPOSAL

For Recyclable Containers

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