



GROUP	3	12	M5	FUNGICIDES
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INSTRATA® Fungicide

FUNGICIDE

SUSPENSION

COMMERCIAL

For use on golf courses.

ACTIVE INGREDIENTS:

Chlorothalonil 362 g/L
Propiconazole 57 g/L
Fludioxonil 14.5 g/L

Contains 1,2-benzisothiazolin-3-one at 0.008% as a preservative.

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

CAUTION



POISON

**WARNING: EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER**

**WHEN USING THIS PRODUCT, MIXERS AND LOADERS CANNOT HANDLE MORE THAN
340 KG A.I. CHLOROTHALONIL (939 L) PER PERSON PER DAY**

REGISTRATION NUMBER: **28861**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **3.78 L – 37.85 L**

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, 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 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 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.

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote if this product is ingested. Treat symptomatically if ingested or in contact with eyes or skin.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed or inhaled. Causes moderate eye and skin irritation. May cause dermal sensitization. Do not get in eyes or on skin. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Prolonged or frequent, repeated skin contact may cause allergic reactions in some individuals.

DO NOT store near feed or foodstuffs. Store in a cool place. Protect from excessive heat. Apply only to areas specified on label.

DO NOT enter or allow entry into the treated area until INSTRATA® Fungicide is dry.

Do not allow the public to enter into treated golf courses following late fall application for snow mould.

Apply only when the potential for drift to non-target areas of human habitation and areas of human activity such as houses, cottages, schools, and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

DO NOT apply by air.

WHEN USING THIS PRODUCT, MIXERS AND LOADERS CANNOT HANDLE MORE THAN 340 KG A.I. CHLOROTHALONIL (939 L) PER PERSON PER DAY.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear coveralls over a long-sleeved shirt and long pants, chemical resistant gloves, socks and shoes, and protective goggles or a face shield during mixing, loading, clean-up, and repair activities. Wear a long sleeved-shirt, long pants, chemical resistant gloves, socks and shoes, a chemical resistant apron and protective goggles or a face shield during application. Gloves are not required during application within a closed cab.

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 with soap and water before removing.

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.

Wear freshly laundered clothes daily.

Do not wear contaminated shoes.

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-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth of the water table is shallow.

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.

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.

Fludioxonil is persistent and will carryover. It is recommended that any products containing fludioxonil not be used in areas treated with this product during the previous season.

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. If frozen, allow to thaw and agitate thoroughly prior to use.

8.0 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.

For Recyclable Containers

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.

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For Refillable Containers

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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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Apply only when the potential for drift to non-target areas of human habitation and areas of human activity such as houses, cottages, schools, and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

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The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth of the water table is shallow.

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.

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.

Fludioxonil is persistent and will carryover. It is recommended that any products containing fludioxonil not be used in areas treated with this product during the previous season.

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. If frozen, allow to thaw and agitate thoroughly prior to use.

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

9.0 PRODUCT INFORMATION

INSTRATA Fungicide is formulated for use on golf course tees, greens and fairways.

10.0 DIRECTIONS FOR USE

10.1 General Information

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. **DO NOT** apply this product directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches, and wetlands), estuaries, or marine habitats.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT apply this product through any type of irrigation system.

Apply INSTRATA Fungicide in a minimum of 400 - 800 L/ha of water.

INSTRATA Fungicide should always be used in conjunction with good turf management practices.

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 1-877-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.

10.2 Application Instructions

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) fine classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply by air.

10.3 Mixing Instructions

The required amount of INSTRATA Fungicide should be added slowly into the spray tank during filling. Keep agitator running when filling spray tank and during spray operations.

DO NOT apply INSTRATA Fungicide through any type of ultra low volume (ULV) spray system.

Note: Before preparing the spray solution, slowly invert the INSTRATA Fungicide container several times to assure uniform mixture.

DO NOT apply by air.

10.4 Vegetative Filter Strips

A Vegetative Filter Strip (VFS) of at least 10 metres wide must be constructed and maintained. The VFS is required between the field edge and adjacent, downhill aquatic habitats to reduce risk to aquatic organisms from run-off. Aquatic habitats include, but are not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, and estuaries.

The VFS is to be composed of grasses and may also include shrubs, trees, or other vegetation. Additional guidance can be found on the PMRA Environmental Risk Mitigation webpages.

Both VFS and spray drift buffer zones must be observed.

10.5 Spray Drift Buffer Zones

Spray drift buffer zones are to protect terrestrial and aquatic habitats from spray drift. Spray drift buffer zones are a separate requirement from VFS which are required to mitigate risks from run-off.

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 Habitats of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitats
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field Sprayer	Turf, golf courses	15	2	15	5	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 spray drift 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.

11.0 CROP USE DIRECTIONS

Application of any product containing chlorothalonil cannot be made more frequently than the Retreatment Intervals stated below.

11.1 Turf

TURF – Golf Course Greens and Tees	
DISEASES	Gray Snow Mould (<i>Typhula incarnata</i> , <i>T. ishikariensis</i>) Pink Snow Mould (<i>Microdochium nivale</i>)
RATE (mL/100 m²)	300
INSTRUCTIONS	Make one application in the late fall before snow cover. DO NOT apply on top of snow or when the temperature is below 0°C. DO NOT apply more than 1 application per season. DO NOT apply by air.
TURF – Golf Course Fairways	
DISEASES	Gray Snow Mould (<i>Typhula incarnata</i> , <i>T. ishikariensis</i>) Pink Snow Mould (<i>Microdochium nivale</i>)
RATE (mL/100 m²)	225 - 300
INSTRUCTIONS	Make one application to fairways in the late fall before snow cover. Use the low rate in regions that have historical conditions of low to moderate disease pressure. Use the high rate in regions that have historical conditions of high disease pressure. DO NOT apply on top of snow or when the temperature is below 0°C. DO NOT apply more than 1 application per season. DO NOT apply by air.

11.2 Restrictions

1. DO NOT apply more than 1 application per year.
2. DO NOT apply more than 300 mL/100 m² of INSTRATA Fungicide in a single application.
3. DO NOT mow or water after treatment until spray deposited on turfgrass is thoroughly dry.

4. This product is not to be used around homes or other residential areas such as parks, school grounds, playing fields. It is not for use by homeowners or other unlicensed users.
5. Do not apply this product in a way that will contact workers or other persons or pets either directly or through drift. Only protected handlers (see 'Personal Protective Equipment' above) may be in the area during application.

12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, INSTRATA Fungicide contains a Group 3, Group 12 and Group M5 Fungicide. Any fungal population may contain individuals naturally resistant to INSTRATA Fungicide and other Group 3, Group 12 and Group M5 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 Fungicide or other Group 3, Group 12 and Group M5 fungicides with different groups that control the same pathogens.

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

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 sign of resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of pathogen to INSTRATA 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, 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 1-877-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.