

2020-1231
2021-09-15

GROUP	3	12	FUNGICIDES
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PENDANT™ PRO

Fungicide

SuspoEmulsion (SE)

COMMERCIAL

For use on golf courses and sod farms.

For control of turf diseases

ACTIVE INGREDIENTS:

Propiconazole..... 159 g/L
Fludioxonil..... 38 g/L

Contains 1,2-benzisothiazolin-3-one at 0.04% as a preservative OR Contains Bronopol at 0.0142% and/or 2-Methyl-4-Isothiazolin-3-one (MIT) at 0.00056-0.00060% and 5-Chloro-2-Methyl-4-Isothiazolin-3-one (CMIT) at 0.0016-0.0017% as preservatives

READ THE LABEL AND PAMPHLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

CAUTION EYE IRRITANT

REGISTRATION NUMBER: **34210** PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 L – 1050 L

ADAMA Agricultural Solutions Canada, Ltd.
300 – 191 Lombard Avenue
Winnipeg MB R3B 0X1
1 855-264-6262

For emergency medical help call PROPHARMA at 1.877.250.9291 (24 hours a day)
For spill, leak or fire call INFOTRAC at 1.800.535.5053 (24 hours a day)

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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. May irritate eyes. Avoid contact with eyes. 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.

For sod farms, **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

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For golf courses, **DO NOT** enter or allow entry into treated areas until sprays have dried

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.

DO NOT apply by air.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, protective eyewear (goggles or face shield), socks and shoes during mixing, loading, application, clean-up and repair. Gloves and protective eyewear 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 spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

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

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

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Avoid application when heavy rain is forecast.

To reduce risk to aquatic organisms from runoff, a vegetative filter strip of at least 10 metres wide between the field edge and adjacent, downhill aquatic habitats must be observed, as specified under DIRECTIONS FOR USE.

7.0 STORAGE

Store this product away from food or feed.

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, 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.

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.

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

For Refillable Containers

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This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination

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9.0 PRODUCT INFORMATION

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PENDANT™ PRO Fungicide is formulated for use on golf courses and sod farms.

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 PENDANT™ PRO Fungicide in a minimum of 400 - 800 L/ha of water.

PENDANT™ PRO Fungicide should always be used in conjunction with good turf management practices.

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 S572.1) medium 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 PENDANT™ PRO 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 PENDANT™ PRO Fungicide through any type of ultra low volume (ULV) spray system.

Note: Before preparing the spray solution, slowly invert the PENDANT™ PRO 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 buffer zones must be observed.

10.5 Spray Buffer Zones

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

Spot treatments using hand-held equipment **DO NOT** require a spray buffer zone.

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	Crop	Spray 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 ¹	Turf, golf courses and sod farms	3	1	4	2	4

¹ For field sprayer application, spray buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled spray buffer zones can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone shaped shields that are no more than 30 cm above the crop canopy, the labelled spray buffer zone can be reduced by 30%.

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

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equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

11.0 CROP USE DIRECTIONS

PENDANT™ PRO may be used with most types of spray equipment commonly used for making ground applications. Proper adjustments and calibration of spraying equipment to give good coverage of turf grass is essential for good disease control. Use PENDANT™ PRO against labelled foliar diseases. For use on all turf types to include golf course tees, greens, aprons, fairways, roughs and sod farms.

- DO NOT apply through any type of ultra low volume (ULV) spray system.
- DO NOT mow or water after treatment until spray deposited on turfgrass is thoroughly dry.
- DO NOT apply by air.
- **DO NOT** use in residential areas other than golf courses. Residential areas are defined as any use site where bystanders or the public, including children, could be exposed during or after application. This includes areas in and around homes, schools, public buildings or any other areas where they could be exposed.

NOTES:

Use PENDANT™ PRO preventatively. It is not phytotoxic to turfgrass when applied as labelled.

Turf Types: All golf course related cool-season grasses, including bentgrasses, bluegrasses, fescue grasses, ryegrasses and their mixtures.

Controlling Turf Disease: PENDANT™ PRO is a protectant fungicide for control of the following turfgrass diseases: dollar spot, leaf spot, melting out, fusarium patch, yellow patch, summer patch, brown patch,-and pink and gray snow moulds when used in an integrated, preventive disease management program.

Applications are warranted when conditions favour development of disease. Continue applications for as long as these conditions persist and within the limitations indicated below.

1. USE PENDANT™ PRO AS A FOLIAR SPRAY IN AN INTEGRATED, PREVENTIVE DISEASE MANAGEMENT PROGRAM.
2. Apply PENDANT™ PRO at rates outlined in following chart.
3. Apply in sufficient water to ensure thorough coverage.
4. Apply after mowing.
5. For control of foliar diseases, allow sprayed area to completely dry before irrigation.
6. Under conditions optimum for high disease pressure, use the higher rate and the shorter interval.
7. For optimum turfgrass quality and disease control, use PENDANT™ PRO in conjunction with turfgrass management practices that promote good plant health and optimum disease control.

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8. 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.

DIRECTIONS FOR APPLICATION:

Turf Diseases	Rate mL / 100 m²	Rate L/ha	Application Interval / Duration of Control*	Instructions
Dollar Spot (<i>Sclerotinia homoeocarpa</i>)	25 - 50	2 - 5	21 - 28 days	Apply PENDANT™ PRO on a preventative basis. Apply during periods of humid warm days and cool nights that result in dew formation. Nitrogen deficiency and drought stress also promote the disease. Maximum of 6 applications per year. If targeting dollar spot control only, then the solo propiconazole product, Quali-Pro Propiconazole 14.3 ME should be applied.
Anthracnose (<i>Colletotrichum graminicola</i>)			21 days	Apply when warm, humid weather conditions occur. Areas of compaction, poor soil drainage, excess thatch, or with large amounts of <i>Poa annua</i> favour the development of anthracnose. Maximum of 3 applications per year.
Red Thread (<i>Laetisaria fuciformis</i>)	50	5	14 days	Apply when cool, wet conditions occur. Prolonged periods of high humidity air favour the development of the disease. Maximum of 3 applications per year. If targeting red thread control only, then the solo propiconazole product, Quali-Pro Propiconazole 14.3 ME should be applied.

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Brown Patch (<i>Rhizoctonia solani</i>)	50 - 100	5 - 10	14 days	Apply PENDANT™ PRO preventively when conditions favour disease development (high surface moisture or humidity and warm night temperatures). Use the higher rate under severe disease pressure. Do not apply PENDANT™ PRO if disease symptoms are present. Maximum of 4 applications per year.
Leaf Spot (<i>Drechslera poae</i>) Melting Out (<i>Bipolaris sorokiniana</i>)			14 days	Under light to moderate disease pressure, apply PENDANT™ PRO to reduce the severity of leaf spot and melting out. Maximum of 3 applications per year.
Fusarium Patch (<i>Microdochium nivale</i>)			30 days	Apply PENDANT™ PRO in the fall or early spring during cool, wet weather. Use the high rate only under high disease pressure. Maximum of 2 applications per year.
Yellow Patch (<i>Rhizoctonia cerealis</i>)	75 - 100	7.5 - 10	Late Fall	One application in late fall before snow cover. Do not apply on top of snow. Maximum of 1 application per year.
Waitea Patch (<i>Waitea circinata</i> var. <i>circinata</i>)	100	10	14 days	Apply PENDANT™ PRO preventively when conditions are favourable for disease development, i.e., warmer temperatures between 20 to 30°C and during periods of high humidity and extended leaf wetness. Use the higher rate under severe disease pressure. Maximum of 3 applications per year.
Summer Patch (<i>Magnaporthe poae</i>)	100	10	30 days	Apply PENDANT™ PRO on a preventative basis. First application when soil temperature is >16°C at 5 cm depth for 4 consecutive days with a 2 nd application 30 days later. A 3 rd application may be required if hot humid weather occurs. Apply with 13 - 21 L of water per 100 m ² .

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				Maximum of 3 applications per year.
Grey Snow Mold (<i>Typhula incarnata</i>), Pink Snow Mold (<i>Microdochium nivale</i>)	200	20	Late Fall	One application in late fall before snow cover. Do not apply on top of snow or when the temperature is below 0°C. Maximum of 1 application per year.

*Expected length of control when used in a preventative disease control program.

PENDANT™ PRO Tank Mixtures

When a tank mixture is used, follow the most stringent precautions, directions for use, and limitations on the labels of the tank-mix products. Follow all instructions paying attention to surfactant requirements and mixing order.

PENDANT™ PRO is usually compatible with many commonly used fungicides, insecticides, and foliar nutrient products. However, the physical compatibility of PENDANT™ PRO with tank mix partners should be tested before use if unknown. To determine the physical compatibility of PENDANT™ PRO with other products, use a jar test, as described below.

Jar Compatibility Test: Using a 2 litre jar, add the proportionate amounts of the products to 1 L of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes.

If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

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 ADAMA Agricultural Solutions Canada Ltd. at 1 855-264-6262 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

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.

12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, PENDANT™ PRO Fungicide contains a Group 3 and Group 12 fungicide. Any fungal population may contain individuals naturally resistant to PENDANT™ PRO Fungicide and other Group 3 and 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.

To delay fungicide resistance:

- Where possible, rotate the use of PENDANT™ PRO Fungicide or other Group 3 and Group 12 fungicides with different groups that control the same pathogens.
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- 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/bactericide applications.
- Monitor treated fungal populations for sign of resistance development. Notify ADAMA Agricultural Solutions Canada Ltd. if reduced sensitivity of pathogen to PENDANT™ 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 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 1-855-264-6262 or at www.adama.com/canada

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