

{Booklet Label}

GROUP

11

FUNGICIDE

Pinpoint® Fungicide

FUNGICIDE
SUSPENSION
COMMERCIAL

For control or suppression of certain diseases in turfgrass.

ACTIVE INGREDIENT:

Mandestrobin..... 43.4%

Contains 1,2-benzisothiazolin-3-one at 0.01% as a preservative OR contains 5-Chloro-2-methyl-4-isothiazolin-3-one at 0.0006% and 2-Methyl-4-isothiazolin-3-one at 0.0002% as a preservative.

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO.: 32289
PEST CONTROL PRODUCTS ACT

Net Contents:

Valent Canada, Inc.
3-728 Victoria Road South
Guelph, ON, Canada N1L 1C6
(519) 767-9262
www.valent.ca

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.

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 INHALED:** Move the person to fresh air. If the 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 SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Have the 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.

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

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL OR POISONING CALL
1-800-682-5368***

TOXICOLOGICAL INFORMATION

There is no specific antidote for this product. Apply symptomatic therapy.

ENVIRONMENTAL PRECAUTIONS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by disposing of equipment washwaters or rinsate. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas.

TOXIC to aquatic organisms and non-target terrestrial plants. Observe 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 strip between the treated area and the edge of the water body.

PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco or using the toilet.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothes. Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Read the label directions for each tank mix product and follow the most restrictive label precautions and limitations.

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

Keep all unprotected persons out of operating areas or vicinity where there may be drift. DO NOT enter or allow worker entry into treated sod farms during the restricted entry interval (REI) of 12 hours. For all other treated areas, DO NOT enter or allow entry until sprays have dried.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact Valent Canada, Inc.

DISPOSAL/DECONTAMINATION

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 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 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.

STORAGE:

Do not contaminate water, food or feed by storage. Keep pesticide in original container. Store in a cool, dry, secure place. Do not put formulation or dilute spray solution into food or drink containers. Do not store or transport near feed or food. Not for use or storage in or around the home. To prevent contamination, store this product away from food or feed.

RESISTANCE MANAGEMENT

For resistance management, please note that Pinpoint Fungicide contains a Group 11 fungicide. Any fungal population may contain individuals naturally resistant to Pinpoint Fungicide and other group 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 Pinpoint Fungicide or other Group 11 fungicides with different groups that control the same pathogens.
- Do not apply more than the maximum amount of Pinpoint Fungicide indicated on the label. Avoid consecutive sprays of Pinpoint Fungicide or other fungicides in the same group in a season.
- Use tank mixtures with fungicides from a different group that are 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 Valent Canada, Inc. if reduced sensitivity of the pathogen to Pinpoint Fungicide 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 advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops or pathogens.
- For further information and to report suspected resistance, contact Valent Canada, Inc. at 1-800-682-5368 or at www.valent.ca.

GENERAL INFORMATION

MODE OF ACTION

Pinpoint Fungicide belongs to the strobilurin or Quinone Outside Inhibitors (QoI) class (Group 11) of fungicides as classified by the Fungicide Resistance Action Committee (FRAC).

Pinpoint Fungicide is a broad spectrum fungicide for control or suppression of certain diseases in turfgrass. Pinpoint Fungicide has preventive and systemic properties. Pinpoint Fungicide is most effective when applied prior to infection. Optimal disease control is achieved when Pinpoint Fungicide is applied in a regularly scheduled spray program used in combination and/or rotation with other effective fungicides that have different modes of action and are effective against the same target pathogen(s).

RAINFESTNESS

Applications should not be made if rain is expected within 2 hours of application or disease control may be reduced.

SPRAYER PREPARATION

Before applying Pinpoint Fungicide, start with clean, well maintained application equipment. The spray tank hoses and booms must be cleaned to ensure no residue from the previous spraying operations remain in the sprayer. The spray equipment must be cleaned according to the manufacturer's directions for the last product used before the equipment is used to apply Pinpoint Fungicide. If two or more products were tank mixed prior to Pinpoint Fungicide application, the most restrictive cleanup procedure should be followed.

Application equipment should be clean and in good repair. Nozzles should be frequently checked for accuracy.

SPRAYER CLEANUP

Clean sprayer equipment each day following Pinpoint Fungicide application. After application is complete, use the following steps to clean spray equipment:

1. Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank and all in-line screens.
2. Fill the spray tank with clean water and flush all hoses, booms, screens, and nozzles.
3. Drain tank completely.
4. Remove all nozzles and screens and rinse them in clean water.

MIXING INSTRUCTIONS

1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
2. While agitating, slowly add the Pinpoint Fungicide to the spray tank. Agitation should create a rippling or rolling action on the water surface.
3. If tank mixing Pinpoint Fungicide with other labeled pesticides, add water soluble packets first, followed by dry formulations, flowables, emulsifiable concentrates and then solutions.
4. Add any required adjuvants.
5. Fill spray tank to desired level with water. Agitation should continue until all spray

solution has been applied.

- Mix only the amount of spray solution that can be applied the day of mixing. Apply Pinpoint Fungicide within 24 hours of mixing.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. Do not apply this product when weather conditions favour spray drift from treated areas. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making decisions.

Do not apply this product when weather conditions favour spray drift from treated areas.

DIRECTIONS FOR USE

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

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:				Terrestrial habitat
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Turfgrass	1	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 Pesticides portion of the Canada.ca website.

SPECIFIC DIRECTIONS FOR USE – TURFGRASS

- Pinpoint Fungicide should be used as a part of an Integrated Pest Management (IPM) program.
- Apply as a foliar spray in sufficient water to obtain thorough coverage of the plant.

TURFGRASS TOLERANCE

Due to the large number of turfgrass types and application techniques, it has not been determined if Pinpoint Fungicide can be safely used on all turfgrasses under all conditions. It is recommended that the user determine safety under local conditions by making an application to a small test area. Monitor the test area for at least 2 weeks to determine safety under local growing conditions.

RECOMMENDED TURFGRASS SPECIES

Annual Bluegrass
Bentgrass
Fescue
Kentucky Bluegrass
Perennial Ryegrass

USE SITES

Pinpoint Fungicide may be used for disease control on golf courses, lawns and landscape areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, athletic fields and sod farms.

SPECIAL INSTRUCTIONS

- Use Pinpoint Fungicide in conjunction with turf management practices that promote good plant health and optimum disease control. Proper identification of disease infestations is essential for providing control. Consult diagnostic guides, kits or other means of identification to determine the best control measures.
- Pinpoint Fungicide is more effective when used preventively or early in disease development. Length of disease control will vary according to local environmental conditions, disease pressure and turfgrass management practices.
- Apply to dry turf or after mowing. For control of foliar diseases, allow turf to dry before irrigation. For control of soil borne diseases, Pinpoint Fungicide can be watered in immediately after application or applied with a high volume of water.
- Directions for use of Pinpoint Fungicide have been developed using no adjuvant in the spray solution.
- Important: Under conditions of optimal disease development (such as high humidity and temperature), use higher labeled rates and shorter application intervals. For dollar spot control, use the higher application rate and shorter interval, within the stated application range, under high disease pressure, in conditions that favor high disease pressure and in areas with a history of severe disease pressure.

- Failure to follow label directions may result in turfgrass injury and/or inferior disease control.

APPLICATION DIRECTIONS

Apply Pinpoint Fungicide using standard, low-pressure spray equipment designed to deliver coarse to medium size spray droplets (do not use nozzles designed to deliver fine droplets). Apply in a sufficient volume of water to provide thorough spray coverage and a uniform spray pattern. Do not position the spray boom more than 50 cm above the turf. For foliar disease, use 8 L spray solution per 100 m². For crown and root diseases, use 8 to 16 L spray solution per 100 m².

RESTRICTIONS AND LIMITATIONS

- Do not apply more than 3944 mL (1.89 kg ai) of Pinpoint Fungicide per hectare per year.
- Do not apply through any type of irrigation system.
- Do not apply by aerial application.
- Do not graze animals on treated areas for one year after application.
- Do not feed clippings from treated areas to livestock or poultry.
- Do not apply more than 986 mL (0.47 kg ai) of Pinpoint Fungicide per hectare per application.
- When using Pinpoint or other Group 11 fungicides alone, the number of applications should be no more than 1/3 of the total number of fungicide applications per season.
- When using Pinpoint or other Group 11 fungicides in mixtures with partners from a different mode of action group, the number of Group 11 containing applications should be no more than 1/2 of the total number of fungicide application per season.
- In programs in which applications of Group 11 are made with both solo products and mixtures, the number of Group 11 containing applications should be no more than 1/2 of the total number of fungicide applied per season.

TURFGRASS – Specific Diseases, Rates, Timings and Application Information

Diseases (<i>Pathogens</i>)	Application Rates		Application Interval/ Timing	Special Instructions
	mL/100 m ²	mL/ha		
Dollar Spot (<i>Sclerotinia homoeocarpa</i>)	8.8-9.86	880-986 (422-472 g ai/ha)	14 to 21 days	Use preventively. Begin application when conditions favour disease development. Within the stated application range, use a higher rate and shorter interval under high disease pressure, in conditions that favor high disease pressure and in areas with a history of severe disease pressure.
Brown Patch (<i>Rhizoctonia solani</i>) Fairy Ring (<i>Agaricus campestris</i>) Rust (<i>Puccinia graminis</i>)- suppression Take-all Patch (<i>Gaeumannomyces graminis</i>)	9.86	986 (472 g ai/ha)	14 days	Begin applications when conditions favour disease development or for fairy ring, when the disease first appears.

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{Base Container Label}

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TOXICOLOGICAL INFORMATION

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ENVIRONMENTAL PRECAUTIONS

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PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN. Follow mixer/loader and applicator scenario on attached label. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.

DISPOSAL/DECONTAMINATION

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