

GROUP	7	FUNGICIDE
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VELISTA® Fungicide

FUNGICIDE

WETTABLE GRANULES

COMMERCIAL

For use on turf grass

FOR USE BY COMMERCIAL APPLICATORS ONLY

ACTIVE INGREDIENT:

Penthiopyrad 50 %

Warning: Contains the allergens sulfites and milk

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

CAUTION – EYE IRRITANT

REGISTRATION NO.: **30334**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **500 g – 1,000 kg**

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, Ontario N1G 4Z3
Telephone: 1-877-964-3682

Label

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

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

Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

May irritate the eyes. Avoid contact with eyes.

Wear a long-sleeved shirt, long pants, shoes, socks and chemical resistant gloves while mixing/loading, applying and during clean up and repair.

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Do not enter or allow worker entry into treated areas until sprays have dried.

DO NOT apply by air.

ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms. 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.

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.

STORAGE

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed. To prevent contamination, store this product away from food or feed.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

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

GENERAL INFORMATION

VELISTA® Fungicide is a water dispersible granular that may be applied as a foliar or broadcast

treatment to control certain diseases on landscape and recreational (including golf course) turfgrass.

VELISTA Fungicide may only be used on turf grasses that are being grown for aesthetic or recreational purposes, in or around home lawns, residential dwellings, business and office complexes, shopping complexes, multi-family residential complexes, institutional buildings, airports, cemeteries, ornamental gardens, parks, playgrounds, schools, golf courses (tee box areas, roughs, fairways, greens, collars etc.), athletic fields, other landscaped areas, and commercial sod farms.

The active ingredient in VELISTA Fungicide is Penthiopyrad and it is a carboxamide fungicide. Penthiopyrad inhibits fungal respiration by binding to mitochondrial respiratory complex II. Penthiopyrad is not cross-resistant with other classes of fungicide chemistry, like triazoles and other ergosterol biosynthesis inhibitors, strobilurins and other complex III (QoI) inhibitors, anilinopyrimidines, dicarboximides, benzimidazoles and N-phenylcarbamates.

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.

APPLICATION TIMING

VELISTA Fungicide is a broad spectrum fungicide recommended for the control of many important diseases of turfgrass. For maximum performance VELISTA Fungicide should be applied preventatively but also may be used curatively for some diseases.

MIXING DIRECTIONS

The use directions provided in the Resistance Management section of this label should be followed. All applications should follow the use directions given in this label. Failure to follow the use directions may result in turfgrass injury and/or inadequate disease control.

Basic Mixing Instructions:

Important: Application equipment must be clean and free of previous pesticide deposits before

mixing VELISTA Fungicide.

1. Use clean, well maintained application equipment.
2. Fill sprayer tank 1/4 to 1/2 full of water.
3. Then add VELISTA Fungicide directly to the mixing or sprayer tank.
4. Mix thoroughly to fully disperse the VELISTA Fungicide and continue agitation to keep the product in suspension. Use mechanical or hydraulic agitation. Do not use air agitation.
5. The mixture should not be stored in the mixing or spray tank overnight.

APPLICATION EQUIPMENT CLEANING

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all application equipment to reduce the risk of forming hardened deposits that might become difficult to remove. Drain application equipment. Thoroughly rinse application equipment and flush hoses, boom and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean equipment near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

APPLICATION DIRECTIONS FOR TURFGRASS

USE VELISTA FUNGICIDE IN A PREVENTATIVE DISEASE CONTROL PROGRAM.

Apply in sufficient water to ensure thorough coverage. Apply the recommended rates as indicated in the directions for use using up to 40 L/100 m² or 4,000 L/ha. Apply with a properly calibrated sprayer.

Apply after mowing OR allow sprayed area to completely dry before mowing.

For control of foliar diseases, allow sprayed area to completely dry before irrigation.

Under conditions optimum for high disease pressure, use the higher rate.

For optimum turf quality and disease control, use VELISTA Fungicide in conjunction with turf management practices that promote good plant health and optimum disease control.

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 organism is essential to determine the best control measures.

For broader spectrum control, VELISTA Fungicide can be tank mixed with other fungicides registered for this use. Check compatibility before tank mixing. Observe all directions, precautions, and limitations on labeling of all products used in tank mixes. The most stringent precautions of tank mix products must be followed.

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.

Buffer zones:

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer, spot treatment, inter-row hooded sprayer, soil drench and soil incorporation.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of 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 Zone (meters) Required for the Protection of:			
		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	Turf	10	3	1	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.

SPECIFIC USE RATES FOR VELISTA FUNGICIDE TO CONTROL DISEASES OF TURFGRASS

TURF	
DISEASE	Dollar Spot (<i>Sclerotinia homeocarpa</i>)
LOCATION	Golf course tees and greens
USE RATE PER 100 m ²	9 to 15 g
USE RATE PER HECTARE	0.9 to 1.5 kg
APPLICATION INTERVAL (DAYS)	14
COMMENTS	Begin application prior to or at the early stages of disease development. Use the high rate for moderate to high disease pressure and/or for curative situations.
DISEASE	Dollar Spot (<i>Sclerotinia homeocarpa</i>)
LOCATION	Golf course fairways, All other turfgrass
USE RATE PER 100 m ²	9 to 15 g
USE RATE PER HECTARE	0.9 to 1.5 kg
APPLICATION INTERVAL (DAYS)	14-21
COMMENTS	Begin application prior to or at the early stages of disease development. Use high rate for moderate to high disease pressure or for curative situations.

DISEASE	Brown Patch (<i>Rhizoctonia solani</i>)
LOCATION	Golf course tees and greens, fairways and all other turfgrass
USE RATE PER 100 m²	9 to 15 g
USE RATE PER HECTARE	0.9 to 1.5 kg
APPLICATION INTERVAL (DAYS)	14
COMMENTS	Begin application at the early stages of disease development. Use high rate for moderate to high disease pressure or for curative situations.
DISEASE	Anthrachnose foliar blight (<i>Colletotrichum cereale</i>)
LOCATION	Golf course tees and greens, fairways and all other turfgrass
USE RATE PER 100 m²	9 to 15 g
USE RATE PER HECTARE	0.9 to 1.5 kg
APPLICATION INTERVAL (DAYS)	14
COMMENTS	Begin applications at the early stages of disease development. Use high rate of VELISTA Fungicide for high disease pressure.

USE RESTRICTIONS FOR TURFGRASS

- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply more than 67.5 g of VELISTA Fungicide per 100 m² per year or 6.75 kg of VELISTA Fungicide per hectare per year.
- Keep people and pets away from areas treated with VELISTA Fungicide until treated area has dried.
- **DO NOT** apply this product on food or feed crops.

INTEGRATED PEST MANAGEMENT

The use of an Integrated Pest Management (IPM) program is recommended to control diseases. VELISTA Fungicide may be used as part of an Integrated Disease and Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at reducing potential disease incidence. Cultural practices known to reduce disease development should be followed. Application of this product should be based on IPM principles and practices including but not limited to field scouting or other detection methods, correct target disease identification, population monitoring, advisory (disease forecasting) programs that recommend treatment timing based on environmental factors favorable for disease development, and treating when disease pressure reaches locally determined action levels. Consult your extension services, professional consultants, or other qualified authorities to determine the appropriate management, cultural practice and treatment threshold levels for the specific crop, geography and diseases.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that VELISTA Fungicide contains a Group 7 Fungicide. Any fungal population may contain individuals naturally resistant to VELISTA Fungicide and other group 7 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 VELISTA Fungicide or other Group 7 fungicides with different groups that control the same pathogens.

Use tank mixtures with fungicides from different groups when such use is permitted.

Fungicide use should be based on an IPM 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 Syngenta Canada Inc. if reduced sensitivity of the pathogen to VELISTA 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 advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.

For further information or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

VELISTA® is a trademark of a Syngenta Group Company.