

GROUP	7	FUNGICIDE
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POSTERITY® Fungicide
ADEPIDYN® technology

FUNGICIDE

SUSPENSION CONCENTRATE

COMMERCIAL

For dollar spot and fusarium patch control on turf. For disease control or suppression on outdoor ornamentals, greenhouse ornamentals, greenhouse cucumbers, greenhouse peppers and greenhouse lettuce.

ACTIVE INGREDIENT:

Pydiflumetofen 200 g/L

Contains 1,2-benzisothiazolin-3-one at 0.035% OR 1,2-benzisothiazolin-3-one at 0.035% and 2-bromo-2-nitropropane-1,3-diol at 0.03% OR 1,2-benzisothiazolin-3-one at 0.00058%, 2-bromo-2-nitropropane-1,3-diol at 0.033%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00078% and 2-methyl-4-isothiazolin-3-one at 0.00026% OR 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0010% and 2-methyl-4-isothiazolin-3-one at 0.00033% as preservatives.

WARNING, CONTAINS THE ALLERGEN SULFITES

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO.: **33019**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **0.5 L – 1000 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. The user assumes the risk to persons or property that arises from any such use of this product.

2.0 FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre **IMMEDIATELY**. 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 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.

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

Keep unused product in original container tightly closed, locked up and away from food and feed.

Restricted Entry Intervals (REI): DO NOT enter or allow entry into treated golf courses until POSTERITY® Fungicide is dry. For all other postapplication activities, DO NOT enter or allow worker entry into treated areas during a restricted entry interval (REI) of 12 hours.

Not for use in residential areas. Residential areas are defined as any use site where bystanders including children could be exposed during or after application. This includes homes, schools, parks, playgrounds, playing fields, public buildings, or any other area where the general public including children could be exposed.

DO NOT apply if there is a risk of drift beyond the area to be treated. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

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/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 before removing. As soon as possible, wash thoroughly and change into clean clothing.

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.

All users should wash hands before eating, drinking, chewing gum, using tobacco, using the toilet or using a handheld device.

6.0 ENVIRONMENTAL PRECAUTIONS

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

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

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

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.

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. Store this product away from food or feed.

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 cleanup of spills.

For returnable containers:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For refillable containers:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

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

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
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Pamphlet

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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.

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

9.0 PRODUCT INFORMATION

POSTERITY Fungicide is a fungicide for control of diseases in turf and control or suppression of diseases in outdoor and greenhouse ornamentals and listed greenhouse vegetables. POSTERITY Fungicide is best used preventatively for the control of plant diseases. It is formulated as a suspension concentrate and contains 200 g/L of pydiflumetofen. Read all label directions before use. All applications must be made in accordance with the DIRECTIONS FOR USE.

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 contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

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 1-87-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.

10.1.1 Spray Equipment

Thorough coverage is necessary to provide good disease control. Applications using proper nozzles, sufficient water volume and appropriate operating pressure to provide thorough and uniform coverage generally provides the most effective disease control.

To avoid spray drift, do not apply when conditions favor drift beyond the target area. Avoid spray overlap, as plant injury may occur.

For more information on spray equipment and calibration, consult your Syngenta representative, sprayer manufacturers and provincial recommendations.

DO NOT apply using handheld mistblower/airblast or handheld fogging equipment.

DO NOT apply by air.

10.2 Ground Application

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.

10.2.1 Mixing Instructions

To prepare spray solution, fill half of the required water volume in the spray tank with clean water and begin agitation. Add the required amount of POSTERITY Fungicide to the tank, allowing time for good dispersion. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation throughout the spraying operation. Do not allow spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use. Sprayers should be calibrated before application and thoroughly cleaned immediately after application. Do not use silicone based products with POSTERITY Fungicide due to possible phytotoxicity.

10.2.2 Equipment Clean-Up

Before Spraying:

- Prior to using POSTERITY Fungicide, ensure that the spray tank, lines and filter are thoroughly clean.

After Spraying:

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow POSTERITY Fungicide residue to dry within the spray tank
- When using tank mixes, consult the tank-mix partner label for additional clean-up instructions.
- The following recommendations are provided:
 1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean the sprayer near desirable vegetation, wells or other water sources.
 2. Remove all nozzles and screens and wash separately.
 3. Dispose of all rinsate in accordance with provincial regulations.

10.3 Airblast Application

Airblast application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

10.4 Spray Buffer Zones

A spray buffer zone is **NOT** required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage,
- soil drench.

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 Habitat of Depths:		Terrestrial Habitat:
			Less than 1 m	Greater than 1 m	
Field sprayer	Turf, outdoor ornamentals		1	1	1
Airblast	Outdoor ornamentals	Early growth stage	15	1	1
		Late growth stage	5	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.

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.

11.0 CROP USE DIRECTIONS

11.1 Turf (including golf courses and sod farms)

TURF (including golf courses and sod farms)	
Diseases Controlled at 2.5 – 5 mL/100 m ² or 250 - 500 mL/ha	Dollar spot (<i>Sclerotinia homoeocarpa</i>)
Application Interval	14 - 28 days
Maximum Applications of Product per Year	4
Diseases Controlled at 5 – 10 mL/100 m ² or 500 - 1000 mL/ha	Microdochium or Fusarium patch (<i>Microdochium nivale</i>)
Application Interval	21 - 28 days
Maximum Applications of Product per Year	2
Application Directions	For best control, use as a component of an integrated disease management program. Begin applications when conditions are favourable for disease infection and prior to disease symptom expression. Under conditions of moderate to high disease pressure, use the highest label rate and the shortest interval. Apply in sufficient water to ensure thorough coverage. 2-8 litres of water per 100 m² (200 - 800 L/ha) is recommended. Use AI, XR or Syngenta XC nozzles. Apply after mowing or allow spray to completely dry before mowing. Allow sprayed area to completely dry before irrigation. DO NOT apply more than 20 mL product/100 m²/year (2000 mL product/ha/year; 400 g ai/ha/year) on turfgrass. DO NOT apply more than 2 consecutive applications before switching to a non-Group 7 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.

11.2 Ornamentals Grown Outdoors (excluding conifers) and in Greenhouses or Protected Environments (including cut flowers)

ORNAMENTALS GROWN OUTDOORS (excluding conifers) AND IN GREENHOUSES OR PROTECTED ENVIRONMENTS (including cut flowers)	
Diseases Controlled at 25 to 50 mL/100 L	Powdery mildew (<i>Oidium longipes</i> , <i>Podosphaera xanthii</i> , <i>Sphaerotheca pannosa</i>)
Diseases Controlled at 50 to 75 mL/100 L	Botrytis grey mold (<i>Botrytis cinerea</i>)* *Use only the lower rate to treat greenhouse-grown cut flowers. Use only under low to moderate disease pressure.
Application Interval	7-14 days
Maximum Applications of Product per Year	Do not apply to greenhouse-grown cut flowers more than once per year. Do not exceed 2000 mL product/ha/year (400 g ai/ha) for outdoor ornamentals. Do not exceed 2000 mL product/ha/year (400 g ai/ha) per greenhouse.
Application Directions	Begin applications prior to disease development or at first sign of disease symptoms. If conditions favor disease development, reapply in 7-14 days. Under moderate to high disease pressure, use the highest label rate. Recommended water volume of 200-1500 L/ha. Do not exceed 1000 mL product/ha (200 g ai/ha) per application. DO NOT apply more than 2 consecutive applications before switching to a non-Group 7 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program. Plant safety has been found to be acceptable for many plants, however, not all possible plant species and varieties have been tested under all conditions. It is recommended to test POSTERITY Fungicide on a small portion of the crop to ensure that a phytotoxic response will not occur.

11.3 Greenhouse Cucumber

GREENHOUSE CUCUMBER	
Diseases controlled at 25 to 50 mL/100 L	Powdery mildew (<i>Sphaerotheca fuliginea</i> and <i>Erysiphe cichoracearum</i>) Gummy stem blight (<i>Didymella bryoniae</i>)
Diseases Controlled at 50 mL/100 L	Botrytis grey mold (<i>Botrytis cinerea</i>)
Application Interval	7-14 days
Preharvest Interval (PHI)	0 days
Maximum Applications of Product per Year	2 applications (maximum total of 100 g ai/ha) per crop cycle
Application Directions	Begin applications prior to disease development or at first sign of disease symptoms. If conditions favor disease development, reapply in 7-14 days. Under moderate to high disease pressure, use the highest label rate. Recommended water volume 400 – 1000 L/ha. DO NOT apply more than 2 consecutive applications before switching to a non-Group 7 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program. Plant safety has been found to be acceptable for many plants, however, not all possible cucumber varieties have been tested under all conditions. It is recommended to test POSTERITY Fungicide on a small portion of the crop to ensure that a phytotoxic response will not occur. DO NOT use more than 1000 litres of spray solution per hectare. POSTERITY Fungicide can only be used on plant growth stages for which thorough coverage can be achieved with a maximum spray volume of 1000 L/ha. DO NOT apply to cucumbers intended for transplant out to fields.

12.0 MINOR USES

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

12.1 Greenhouse Peppers

Crop	Greenhouse peppers
Diseases Suppressed	Fusarium internal rot (<i>Fusarium</i> spp.)
Use Rate	0.625 L/ha (125 g ai/ha)
Application Interval	Foliar: 7 – 14 days Drench: 14 – 21 days
Preharvest Interval (PHI)	0 days
Maximum Applications of Product per Year	Apply no more than 2 foliar and no more than 2 drench applications for a maximum of 3 applications or total of 375 g ai/ha per crop cycle. Optimal control is achieved with a program of multiple applications.
Application Directions	Apply in sufficient water volume to obtain thorough coverage. For foliar application a minimum spray volume of 150 L/ha is recommended. For drip or drench applications, it is recommended to use 250 mL of drench solution per plant (equivalent to 7500 L of water/ha; minimum recommended water volume of 5000 L of water/ha). Apply when conditions are favourable for infection. DO NOT apply to peppers intended for transplant out to fields. DO NOT apply more than 2 consecutive applications before switching to a non-Group 7 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.

12.2 Greenhouse Lettuce

Crop	Greenhouse lettuce
Diseases Suppressed	Botrytis grey mold (<i>Botrytis cinerea</i>)
Use Rate	1 L/ha (200 g ai/ha)
Application Interval	7-10 days
Preharvest Interval (PHI)	0 days
Maximum Applications of Product per Year	2 applications (maximum total of 400 g ai/ha) per crop cycle
Application Directions	Apply in sufficient water volume to obtain thorough coverage. For foliar application a minimum spray volume of 150 L/ha is recommended. Increase water volumes as the canopy density increases. Apply when conditions are favourable for infection. DO NOT apply to lettuce intended for transplant out to fields.

13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, POSTERITY Fungicide contains a Group 7 fungicide in the succinyl dehydrogenase inhibitor (SDHI) class. Any fungal population may contain individuals

naturally resistant to pydiflumetofen 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 or greenhouse. 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 pydiflumetofen or other Group 7 fungicides with different groups that control the same pathogens.

Apply no more than 2 sequential applications unless otherwise stated in the crop section.

DO NOT apply at rates lower than specified on the label.

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 sign of resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to POSTERITY 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, to which pathogen resistance has not developed.

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.