

GROUP	P07	FUNGICIDE
-------	-----	-----------

APPEAR® II Fungicide

COMMERCIAL

Suspension

A fungicide for suppression of *Pythium* blight on turfgrass

ACTIVE INGREDIENT:

Mono- and di-potassium salts of phosphorous acid..... 49.55%

Contains 1,2-benzisothiazolin-3-one at 0.00579% as a preservative.

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

REGISTRATION NUMBER: **35743**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to 1050 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 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

Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Avoid breathing vapours or spray mist. May cause minimal eye irritation. Avoid contact with skin, eyes or clothing.

Apply only when the potential for drift to areas of human habitation or 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 this product in a way that will contact any person or pet, either directly or through drift. DO NOT allow people or pets to enter treated areas until the sprays have dried.

DO NOT re-enter or allow re-entry into treated areas until sprays have dried, unless wearing appropriate personal protective equipment including long-sleeved shirt, long pants, socks and

shoes.

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 protective eyewear (goggles), long pants and long-sleeved shirt, waterproof gloves, shoes and socks during mixing, loading, application, clean-up and repair.

Remove contaminated clothing and wash clothing before reuse.

6.0 ENVIRONMENTAL PRECAUTIONS

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. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

7.0 STORAGE

Store this product away from food or feed.

8.0 DISPOSAL

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for clean up of spills.

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.
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 or territorial requirements.

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

APPEAR® is a trademark of a Syngenta Group Company.

GROUP P07 FUNGICIDE

APPEAR® II Fungicide

COMMERCIAL

Suspension

A fungicide for suppression of *Pythium* blight on turfgrass

ACTIVE INGREDIENT:

Mono- and di-potassium salts of phosphorous acid..... 49.55%

Contains 1,2-benzisothiazolin-3-one at 0.00579% as a preservative.

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

REGISTRATION NUMBER: **35743**
PEST CONTROL PRODUCTS ACT

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

Pamphlet

Table of Contents

	<u>Section Number</u>
NOTICE TO USER	1.0
FIRST AID	2.0
TOXICOLOGICAL INFORMATION	3.0
PRECAUTIONS	4.0
PERSONAL PROTECTIVE EQUIPMENT (PPE)	5.0
ENVIRONMENTAL PRECAUTIONS	6.0
STORAGE	7.0
DISPOSAL	8.0
PRODUCT INFORMATION	9.0
DIRECTIONS FOR USE	10.0
General Information	10.1
Mixing Instructions.....	10.2
CROP USE DIRECTIONS	11.0
Turf	11.1
RESISTANCE MANAGEMENT RECOMMENDATIONS	12.0

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 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

Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Avoid breathing vapours or spray mist. May cause minimal eye irritation. Avoid contact with skin, eyes or clothing.

Apply only when the potential for drift to areas of human habitation or 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 this product in a way that will contact any person or pet, either directly or through drift. DO NOT allow people or pets to enter treated areas until the sprays have dried.

DO NOT re-enter or allow re-entry into treated areas until sprays have dried, unless wearing appropriate personal protective equipment including long-sleeved shirt, long pants, socks and

shoes.

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 protective eyewear (goggles), long pants and long-sleeved shirt, waterproof gloves, shoes and socks during mixing, loading, application, clean-up and repair.

Remove contaminated clothing and wash clothing before reuse.

6.0 ENVIRONMENTAL PRECAUTIONS

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. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

7.0 STORAGE

Store this product away from food or feed.

8.0 DISPOSAL

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for clean up of spills.

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.
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 or territorial requirements.

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

9.0 PRODUCT INFORMATION

APPEAR® II Fungicide is a systemic fungicide, which is used for the suppression of pythium blight on turf grasses on golf courses (including tees and greens), sod production, lawns, parks and commercial landscapes.

10.0 DIRECTIONS FOR USE

10.1 General Information

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

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT apply by air.

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.

Some research has indicated that products containing mono- and di-potassium salts of phosphorous acid may increase the uptake of certain metals into plants, thus care must be taken when using tank mixes containing pesticide products with a metal base (such as copper based fungicides) and/or micronutrients that may not be compatible and could potentially cause plant injury.

Mono- and di-potassium salts of phosphorous acid represent a reduced form of phosphate, often referred to as phosphite. There is NO scientific literature that supports the efficacy of phosphite as a source of nutritional phosphorous. Care must be taken to ensure proper plant nutrition when using phosphite in a spray regime. In extreme cases where phosphite is used on soils where there is an excess of phosphorous acid alkali metal salts, phosphate starvation may result.

Turf varieties may vary in their tolerance to mono- and di-potassium salts of phosphorous acid. Since not every variety of turf has been tested for tolerance to mono- and di-potassium salts of phosphorous acid, first use of this product should be limited to a small area of each variety, to

confirm tolerance prior to adoption as a general turf practice.

10.2 Mixing Instructions

1. Fill the spray tank with $\frac{1}{2}$ of the required volume of water.
2. Add APPEAR II Fungicide slowly to the tank and agitate by hydraulic or mechanical means.
3. Continue to fill the tank with water to the desired volume while agitating.
4. Continue agitation when applying.

11.0 CROP USE DIRECTIONS

11.1 Turf

CROPS	Turf (includes residential and commercial lawn applications by commercial applicators)
DISEASE SUPPRESSED	<i>Pythium</i> blight (<i>Pythium aphanidermatum</i>)
PRODUCT RATE	104 – 250 mL/100 m ² Apply in a minimum 4 – 10 L water/100 m ² .
APPLICATION TIMING	Begin preventative applications when conditions favour disease development. Use the higher rate under severe disease conditions.
APPLICATION INTERVAL	14 days
MAXIMUM NUMBER OF APPLICATIONS OF PRODUCT PER YEAR	Do not apply more than 8 applications per year.
NOTES:	
Do not mow or irrigate treated areas until sprays have completely dried.	
For sod farms and large areas: Apply diluted solution to thoroughly wet foliage.	
Do not graze animals on treated turf. Do not feed clippings from treated turf to livestock and poultry.	

12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that APPEAR II Fungicide contains a Group P07 fungicide. Any fungal population may contain individuals naturally resistant to APPEAR II Fungicide and other Group P07 fungicides. A gradual or total loss of disease 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 APPEAR II Fungicide or other Group P07 fungicides with different groups that control the same pathogens.

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 resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to APPEAR II 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 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.

APPEAR® is a trademark of a Syngenta Group Company.