

GROUP	7	FUNGICIDE
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A19649 Fungicide

FUNGICIDE

SUSPENSION CONCENTRATE

COMMERCIAL - AGRICULTURAL

For broad-spectrum disease control or suppression on listed crops.

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 0.0058%, 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: **33018**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **500 mL - 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.

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 Interval (REI): DO NOT enter or allow worker entry into treated areas during a restricted entry interval (REI) of 12 hours.

Apply only to agricultural crops when the potential for drift to areas of human habitation or 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.

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 and long pants, chemical resistant gloves, socks and shoes when mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit.

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 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 A19649 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 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. To prevent contamination store this product away from food or feed. If product freezes, allow to thaw and circulate 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 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.
2. Make the empty, rinsed container unsuitable for further use.

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

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Pamphlet

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

9.0 PRODUCT INFORMATION

A19649 Fungicide is a broad spectrum, preventative fungicide recommended for the control or suppression of many important plant diseases, formulated as a suspension concentrate (SC). Read all label directions before use. All applications must be made according to the use directions that follow.

9.1 General Use Precautions

DO NOT USE IN GREENHOUSES (ALONE OR IN TANK MIXTURES)

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

Unless indicated otherwise in the use directions for specific crops, make no more than two sequential applications of A19649 Fungicide before alternating with a non-Group 7 fungicide registered for the same disease.

Not all members of the crop groups have been tested for phytotoxicity and should be used at the discretion of the user. It is recommended to test A19649 Fungicide on a small portion of the crop to ensure that a phytotoxic response will not occur.

10.0 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.

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 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 and Biological Engineers (ASABE S572.1) FINE classification. Boom height must be 60 cm or less above the crop or ground.

10.1.1 Product Specific Precautions

Follow recommendations provided by local disease monitoring services or provincial spray calendars regarding the appropriate application timing for protectant fungicides in your area. Cultural practices such as canopy management and removal of overwintered plant debris should be integrated with the use of fungicides to reduce disease incidence. Use the higher rate, and the shorter application interval under conditions of heavy infection pressure, on highly susceptible varieties, or when environmental conditions are favourable for disease development.

A19649 Fungicide treatments should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, plant residue management, crop rotation, and proper timing and placement of fertilizer and irrigation. Fungicide applications

should begin prior to disease infection and continue throughout the season following a resistance management strategy (see **Resistance Management Recommendations**).

10.1.2 Mixing Instructions

1. Ensure that the sprayer interior is clean, then fill the spray tank with $\frac{1}{2}$ the required amount of water and engage gentle agitation. Good agitation is indicated by a rippling or rolling action on the surface of the water.
2. Add any WG or DF formulation mix partners and agitate to ensure complete mixing.
3. Add A19649 Fungicide and any additional SE or SC formulation mix partners and agitate to ensure complete mixing.
4. Add any EC formulation mix partners and agitate to ensure complete mixing.
5. Fill the tank to $\frac{3}{4}$ the required amount of water.
6. Add any solution (SN or SL) formulation mix partners and agitate to ensure complete mixing.
7. Add adjuvant, where required, as directed in crop directions for use.
8. Finish filling the sprayer with water, maintaining good agitation.
9. After any break in spraying operations, agitate thoroughly before spraying again.
10. Spray the pesticide suspension the same day as mixing.
11. Do not mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.

When using chemical handling equipment to fill the sprayer, the following additional recommendations apply:

- WG and DF formulations are preferentially batch mixed.
- SC, SN, and SL formulations may be inducted or batch mixed.
- EC formulations are preferentially batch mixed.

10.1.3 Spraying Instructions

1. Water Volume: Apply in a minimum spray volume of 100 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. Sprayer Agitation: Use a jet agitator or liquid sparge tube which recirculates 7-10% of the tank per minute. **DO NOT** use an air sparger.
3. Pump: Screens should be used to protect the pump and prevent clogging. Use 16 mesh or *coarser* screens on the suction side of the pump. **DO NOT** place a screen in the recirculation line. Use 50 mesh or *coarser* screens between the pump and boom unless directed otherwise by the sprayer manufacturer.
4. Spray Nozzles: 80° or 110° drift reducing flat fan (e.g. those with a pre-orifice or turbulence chamber) or air induction nozzles are recommended. Use 50 mesh nozzle screens or as recommended by the nozzle manufacturer. **DO NOT** use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
5. Pressure: As recommended by the nozzle manufacturer to achieve no smaller than ASABE fine sized droplets.
6. Apply at uniform speed and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from over application.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in overly fine particles (mist). **DO NOT** apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. **DO NOT** spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic

habitat.

10.1.4 Equipment Clean-Up

Before Spraying:

- Prior to using A19649 Fungicide, ensure that the spray tank, lines and filter are thoroughly clean.

After Spraying:

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow A19649 Fungicide residue to dry within the spray tank
- When tank-mixes are permitted, 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.

10.2 Aerial Application

Aerial application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural and Biological Engineers (ASABE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions, and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. When no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

10.2.1 Ground Crew Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

All ground crew and the mixer/loaders must wear chemical resistant gloves, long-sleeved shirt and long pants or coveralls when mixing/loading, and during clean-up and repair activities. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing field sprayer label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

10.2.2 Mixing Instructions

Mixing this product directly in the aircraft hopper **IS NOT** recommended. The use of chemical handling or managing equipment to load the hopper **IS** recommended. This product **MAY BE** inducted into a hopper which is prefilled with water or when the product and water are mixed prior to entering the hopper. This product **MAY BE** batch mixed and pumped into the hopper. In all cases the chemical handling equipment and hopper interior must be clean prior to use.

NOTE: WG and DF formulations are preferentially batch mixed.

NOTE: SC, SN, and SL formulations may be inducted or batch mixed.

NOTE: EC formulations are preferentially batch mixed.

It is **NOT** recommended to combine solid (WG or DF) formulations with liquid tank mix partners within a single batch. Batch mix WG or DF formulations first, pump into the hopper, and then add liquid tank mix partners by induction or as an additional batch mix. When tank mixing multiple products is permitted, follow the mixing order outlined below:

1. Pump water into the hopper to at least $\frac{1}{4}$ to $\frac{1}{2}$ of the desired spray volume. Engage hopper circulation, if possible.
2. Thoroughly batch mix any WG or DF formulation mix partners and agitate to ensure complete mixing. Pump into the hopper
3. Induct or thoroughly batch mix A19649 Fungicide and any additional SE or SC formulations.
4. Thoroughly batch mix any EC formulation mix partners. EC formulations may be added to the batch from Step 3, if desired.
5. Induct or thoroughly batch mix any solution (SN or SL) formulation mix partners. SN/SL formulations may be added to the batch from Step 3, if desired.
6. Pump batch mixed SC, EC, and/or SN/SL products into the hopper.
7. Add adjuvant, where required, as directed in crop directions for use.
8. Finish filling the hopper with water.
9. If it was not possible to engage hopper agitation in Step 1, do so as soon as possible once airborne.
10. Spray the pesticide suspension the same day as mixing.
11. Do not mix, load or clean equipment where there is a potential to contaminate wells or aquatic systems.

10.2.3 Pilot Precautions

Read and understand the entire label before using this product. Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides. Ensure uniform application and a uniform spray with minimum

potential for drift. To avoid streaked, uneven or overlapped application, use appropriate marking technology. GPS based marking is preferred.

DO NOT apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

10.2.4 Product Specific Precautions

Follow recommendations provided by local disease monitoring services or provincial spray calendars regarding the appropriate application timing for protectant fungicides in your area. Cultural practices such as canopy management and removal of overwintered plant debris should be integrated with the use of fungicides to reduce disease incidence. Use the higher rate, and the shorter application interval under conditions of heavy infection pressure, on highly susceptible varieties, or when environmental conditions are favourable for disease development.

A19649 Fungicide treatments should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, plant residue management, crop rotation, and proper timing and placement of fertilizer and irrigation. Fungicide applications should begin prior to disease infection and continue throughout the season following a resistance management strategy (see **Resistance Management Recommendations**).

10.2.5 Spraying Instructions

1. Water Volume: Apply in a minimum spray volume of 50 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. Spray Nozzles: Use only ASABE medium or coarse nozzles rated as delivering droplets of volume median diameter of 300 microns or greater.
3. Pressure: As recommended by the nozzle manufacturer to achieve ASABE coarse or medium sized droplets.
4. Ensure hopper agitation is engaged whenever possible during flight.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in overly fine particles (mist). **DO NOT** apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. **DO NOT** spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

10.2.6 Equipment Clean-Up

Before Spraying:

- Prior to using A19649 Fungicide, ensure that the hopper, chemical handling equipment, lines and filter are thoroughly cleaned.

After Spraying:

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow A19649 Fungicide residue to dry within application equipment.
- When tank-mixes are permitted, 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 application equipment 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 Buffer Zones

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

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) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:		
			Freshwater Habitat of Depths:		Terrestrial Habitat:
			Less than 1 m	Greater than 1 m	
Field sprayer	Sunflower (Crop Subgroup 20B), dried shelled peas and beans (Pulses) (CSG 6C), soybeans		3	1	1
	Rapeseeds (Crop Subgroup 20A)		3	0	1
	Corn (field, pop, specialty, sweet and seed)	Grain and Stover	2	0	0
		Forage	1	0	0
	Wheat, barley, oats, rye, triticale		2	0	1
	Peanuts		2	0	0
Aerial	Pulses (CSG 6C), soybeans, sunflower (CSG 20B)	Fixed-wing	10	1	15
		Rotary-wing	10	1	10
	Wheat, barley, oats, rye triticale, corn	Fixed-wing	5	0	1
		Rotary-wing	4	0	1
	Rapeseed (CSG 20A)	Fixed-wing	10	0	1
		Rotary-wing	10	0	1
	Peanuts	Fixed-wing	5	0	0
		Rotary-wing	3	0	0

When tank mixes are permitted, 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 (ASABE) 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 Pest Management Regulatory Agency web site.

10.4 Rotational Crop Restrictions

Rotational Crops	Planting Time From Last Application
Root Vegetable (CSG 1A) Tuberous and Corm Vegetables Radish tops Garden beet tops Bulb Vegetables Leafy Greens Brassica Leafy Greens Brassica Head and Stem Vegetable Group (CG 5-13) Legume Vegetables (CG 6) Fruiting Vegetables Cucurbit Vegetables Low Growing Berry Subgroup (CSG 13-07G, except cranberry) Cereals (wheat, barley, oats, rye, triticale) Corn (field, sweet, pop, specialty and seed) Forage, Fodder and Straw of wheat, barley, oats, rye and triticale Rapeseeds (revised) (CSG 20-A) Sunflowers (revised) (CSG 20-B) Leaf Petioles Vegetables (CSG 22B) Peanut	0 days
All other crops Intended for Food and Feed	30 days

11.0 CROP USE DIRECTIONS

Apply the higher rate and shorter interval under conditions of high disease pressures.

Diseases are controlled unless otherwise indicated as suppressed.

11.1 Directions for Use in Dried Shelled Pea and Beans (Crop Subgroup 6C)

Crops	Dried shelled peas and beans (pulses) Crops (including all cultivars, varieties and/or hybrids of these) (does not include soybeans)	
	Dried cultivars of bean (<i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and sweet white lupin) Bean (<i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean, mung bean, rice bean, southern bean, urd bean)	Bean (<i>Vigna</i> spp.) (includes adzuki beans, black-eyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean) Guar Dried cultivars of bean (<i>Phaseolus</i> spp.) Lablab bean
Disease suppressed	White mould (<i>Sclerotinia sclerotiorum</i>)	
Use Rate	0.5 – 1.0 L/ha	
Crops	Broad bean (faba bean) (dry) Chickpea (garbanzo bean) Dried cultivars of pea (<i>Pisum</i> spp.) Lentil Pea (<i>Pisum</i> spp.) (includes field pea) Pigeon pea	
Disease suppressed	White mould (<i>Sclerotinia sclerotiorum</i>)	
Use Rate	1.0 L/ha	
Application timing/instructions	For suppression of white mould begin applications when plants are at first bloom to 10% bloom, i.e. when 10% of the plants have at least one bloom open. A second application may be made 14 days later, but no later than when plants are at 50% bloom. For crops that have a rate range, use the higher rate under conditions favoring high disease pressure. Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.	
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.	
Maximum amount of product per year	2.0 L/ha	
Pre harvest interval (PHI)	Do not apply within in 14 days of harvest – including harvest of dry pea hay or vines.	
Specific Use Restrictions:		
<ol style="list-style-type: none"> Not all members of the legume vegetable group have been tested for phytotoxicity at the recommended label rates and A19649 Fungicide should be used at the discretion of the user. It is recommended to test A19649 Fungicide on a small portion of the crop to ensure that a phytotoxic response will not occur. This is especially true for dry beans. A19649 Fungicide may be applied by air or ground application equipment. A19649 Fungicide is most effective when applied and allowed to dry before a rainfall. 		

11.2 Directions for Use in Soybean

Crop	Soybean
Disease suppressed	White mould (<i>Sclerotinia sclerotiorum</i>)
Use Rate	0.5 – 1.0 L/ha
Application timing/instructions	<p>For suppression of white mould make first application at the R1 to R2 developmental stage.</p> <p>A second application can be made 7-14 days after the first application, when disease pressure is high or when agronomic or weather conditions are conducive to disease development or movement.</p> <p>Use the higher rate and shorter interval under conditions favoring high disease pressure.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.</p>
Maximum number of consecutive sprays	<p>2 applications, then switch to a non-Group 7 fungicide.</p> <p>Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.</p>
Maximum amount of product per year	2.0 L/ha
Pre harvest interval (PHI)	<p>Do not apply within 14 days of harvest.</p> <p>Do not feed soybean forage, hay and silage to livestock.</p>

11.3 Directions for Use in Barley

Crop	Barley
Disease suppressed	Fusarium head blight (<i>Fusarium</i> spp.)
Use Rate	0.75 – 1.0 L/ha
Diseases controlled	Scald (<i>Rhynchosporium secalis</i>) Spot blotch (<i>Cochliobolus sativus</i>) Net blotch (<i>Pyrenophora teres</i>)
Use Rate	0.75 – 1.0 L/ha
Application timing/instructions	<p>For suppression of Fusarium head blight in barley, apply A19649 Fungicide within the range of at least 70% of heads on the main stem fully emerged to 3 days after full head emergence, using sprayer nozzles configured to provide excellent coverage to the cereal head.</p> <p>Use the higher rate under higher disease pressure conditions.</p> <p>Application at the timing for Fusarium head blight will control leaf diseases that occur later in the season. Application at this timing is not intended to provide curative control of established leaf diseases.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>
Maximum number of consecutive sprays	<p>1 application per year.</p> <p>Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.</p>
Maximum amount of product per year	1.0 L/ha for grain and straw
Pre harvest interval (PHI)	<p>Do not apply later than 3 days after full emergence of main stem heads.</p> <p>Grain and straw may be fed at normal maturity.</p> <p>For harvest of hay, one application with a minimum PHI of 7 days is required.</p>

A19649 FUNGICIDE TANK MIXED WITH MIRAVis® ERA B FUNGICIDE	
Crop	Barley
Diseases Suppressed	Fusarium head blight (<i>Fusarium</i> spp.)
Diseases Controlled	Scald (<i>Rhynchosporium secalis</i>) Spot blotch (<i>Cochliobolus sativus</i>) Net blotch (<i>Pyrenophora teres</i>)
Use Rate	0.5 - 0.625 L/ha A19649 Fungicide (100 - 125 g ai/ha) + 0.4 – 0.5 L/ha (100-125 g a.i./ha) of MIRAVis Era B Fungicide
Application timing/instructions	<p>For suppression of fusarium head blight in barley, apply within the range of at least 70% of heads on the main stem fully emerged to 3 days after full head emergence, using sprayer nozzles configured to provide excellent coverage to the cereal head.</p> <p>Use the higher rate under higher disease pressure conditions.</p> <p>Application at the timing for fusarium head blight will control leaf diseases that occur later in the season. Application at this timing is not intended to provide curative control of established leaf diseases.</p> <p>Application may be made using ground or aerial spray equipment.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha is recommended by ground application and 50 L/ha is recommended with aerial application.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>
Maximum number of consecutive sprays	<p>One application per year.</p> <p>Follow all precautions, restrictions, and directions on the labels of fungicide products used in an alternation program.</p> <p>Do not apply more than one application of a pydiflumetofen containing product for suppression of fusarium head blight.</p>
Maximum amount of product per year	0.625 L/ha
Pre-Harvest Interval	<p>Do not apply later than 3 days after full emergence of main stem heads.</p> <p>For harvest of hay, one application with a minimum PHI of 30 days is required.</p>

11.4 Directions for Use in Oats

Crop	Oats
Disease suppressed	Fusarium head blight (<i>Fusarium</i> spp.)
Use Rate	0.75 – 1.0 L/ha
Application timing/instructions	<p>For suppression of fusarium head blight in oats apply A19649 Fungicide within the range of at least 75% of heads on the main stem fully emerged to when 50% of the heads on the main stem are flowering, using sprayer nozzles configured to provide excellent coverage to the cereal head.</p> <p>Use the higher rate under higher disease pressure conditions.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>
Maximum number of consecutive sprays	<p>1 application peryear.</p> <p>Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.</p> <p>Do not apply more than one application of a pydiflumetofen containing product for suppression of fusarium head blight.</p>
Maximum amount of product per year	1.0 L/ha for grain and straw
Pre harvest interval (PHI)	<p>Do not apply after BBCH 65 (50% of main heads in flower).</p> <p>Grain and straw may be fed at normal maturity.</p> <p>For harvest of forage and hay, one application with a minimum PHI of 7 days is required.</p>

A19649 FUNGICIDE TANK MIXED WITH MIRAVIDIS® ERA B	
Oats	
Diseases Suppressed	Fusarium head blight (<i>Fusarium spp.</i>)
Use Rate	0.5 - 0.625 L/ha A19649 Fungicide (100 - 125 g ai/ha) + 0.4 – 0.5 L/ha (100 - 125 g ai/ha) of MIRAVIDIS Era B
Application timing/instructions	<p>For suppression of fusarium head blight in oats, apply within the range of at least 75% of heads on the main stem fully emerged to when 50% of the heads on the main stem are flowering, using sprayer nozzles configured to provide excellent coverage to the cereal head.</p> <p>Use the higher rate under higher disease pressure conditions.</p> <p>Application may only be made using ground spray equipment. DO NOT apply by air.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha is recommended by ground application.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>
Maximum number of consecutive sprays	<p>One application per year.</p> <p>Follow all precautions, restrictions, and directions on the labels of fungicide products used in an alternation program.</p> <p>Do not apply more than one application of a pydiflumetofen containing product for suppression of fusarium head blight.</p>
Maximum amount of product per year	0.625 L/ha
Pre-Harvest Interval	<p>Do not apply after BBCH 65 (50% of main heads in flower).</p> <p>For harvest of grain, forage and hay, one application with a minimum PHI of 30 days is required.</p>

11.5 Directions for Use in Rye

Crop	Rye
Disease suppressed	Fusarium head blight (<i>Fusarium</i> spp.)
Use Rate	0.75 – 1.0 L/ha
Diseases controlled	Tan spot (<i>Pyrenophora tritici-repentis</i>) Septoria leaf blotch (<i>Septoria tritici</i>)
Use Rate	0.75 – 1.0 L/ha
Application timing/instructions	<p>For suppression of fusarium head blight in rye, apply A19649 Fungicide within the range of at least 75% of heads on the main stem fully emerged to when 50% of the heads on the main stem are flowering, using sprayer nozzles configured to provide excellent coverage to the cereal head.</p> <p>Application at the timing for fusarium head blight will control leaf diseases that occur later in the season. Application at this timing is not intended to provide curative control of established leaf diseases.</p> <p>Use the higher rate under higher disease pressure conditions.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>
Maximum number of consecutive sprays	<p>1 application per year.</p> <p>Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.</p> <p>Do not apply more than one application of a pydiflumetofen containing product for suppression of fusarium head blight.</p>
Maximum amount of product per year	1.0 L/ha for grain and straw
Pre harvest interval (PHI)	<p>Do not apply after BBCH 65 (50% of main heads in flower).</p> <p>Grain and straw may be fed at normal maturity.</p> <p>For harvest of forage and hay, one application with a minimum PHI of 7 days is required.</p>

A19649 FUNGICIDE TANK MIXED WITH MIRAVIS ERA B	
Rye	
Diseases Suppressed	Fusarium head blight (<i>Fusarium spp.</i>)
Use Rate	0.5 - 0.625 L/ha A19649 Fungicide (100 - 125 g ai/ha) + 0.4 – 0.5 L/ha (100-125 g ai/ha) of MIRAVIS Era B
Application timing/instructions	<p>For suppression of fusarium head blight in rye, apply within the range of at least 75% of heads on the main stem fully emerged to when 50% of the heads on the main stem are flowering, using sprayer nozzles configured to provide excellent coverage to the cereal head.</p> <p>Use the higher rate under higher disease pressure conditions.</p> <p>Application may only be made using ground spray equipment. DO NOT apply by air.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha is recommended by ground application.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>
Maximum number of consecutive sprays	<p>One application per year.</p> <p>Follow all precautions, restrictions, and directions on the labels of fungicide products used in an alternation program.</p> <p>Do not apply more than one application of a pydiflumetofen containing product for suppression of fusarium head blight.</p>
Maximum amount of product per year	0.625 L/ha
Pre-Harvest Interval	<p>Do not apply after BBCH 65 (50% of main heads in flower).</p> <p>For harvest of grain, forage and hay, one application with a minimum PHI of 30 days is required.</p>

11.6 Directions for Use in Triticale

Crop	Triticale
Disease suppressed	Fusarium head blight (<i>Fusarium</i> spp.)
Use Rate	0.75 – 1.0 L/ha
Disease controlled	Septoria leaf blotch (<i>Septoria tritici</i>)
Use Rate	0.75 – 1.0 L/ha
Application timing/instructions	<p>For suppression of fusarium head blight in triticale apply A19649 Fungicide within the range of at least 75% of heads on the main stem fully emerged to when 50% of the heads on the main stem are flowering, using sprayer nozzles configured to provide excellent coverage to the cereal head.</p> <p>Application at the timing for fusarium head blight will control leaf diseases that occur later in the season. Application at this timing is not intended to provide curative control of established leaf diseases.</p> <p>Use the higher rate under higher disease pressure conditions,</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>
Maximum number of consecutive sprays	<p>1 application per year</p> <p>Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.</p> <p>Do not apply more than one application of a pydiflumetofen containing product for suppression of fusarium head blight.</p>
Maximum amount of product per year	1.0 L/ha for grain and straw
Pre harvest interval (PHI)	<p>Do not apply after BBCH 65 (50% of main heads in flower).</p> <p>Grain and straw may be fed at normal maturity.</p> <p>For harvest of forage and hay, one application with a minimum PHI of 7 days is required.</p>

A19649 FUNGICIDE TANK MIXED WITH MIRAVIS® ERA B	
Triticale	
Diseases Suppressed	Fusarium head blight (<i>Fusarium</i> spp.)
Use Rate	0.5 - 0.625 L/ha A19649 Fungicide (100 - 125 g ai/ha) + 0.4 – 0.5 L/ha (100-125 g ai/ha) of MIRAVIS Era B
Application timing/instructions	<p>For suppression of fusarium head blight in triticale, apply within the range of at least 75% of heads on the main stem fully emerged to when 50% of the heads on the main stem are flowering, using sprayer nozzles configured to provide excellent coverage to the cereal head.</p> <p>Use the higher rate under higher disease pressure conditions.</p> <p>Application may only be made using ground spray equipment. DO NOT apply by air.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha is recommended by ground application.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>
Maximum number of consecutive sprays	<p>One application per year.</p> <p>Follow all precautions, restrictions, and directions on the labels of fungicide products used in an alternation program.</p> <p>Do not apply more than one application of a pydiflumetofen containing product for suppression of fusarium head blight.</p>
Maximum amount of product per year	0.625 L/ha
Pre-Harvest Interval	<p>Do not apply after BBCH 65 (50% of main heads in flower).</p> <p>For harvest of grain, forage and hay, one application with a minimum PHI of 30 days is required.</p>

11.7 Directions for Use in Wheat

Crop	Wheat (spring, winter, and durum)
Disease suppressed	Fusarium head blight (<i>Fusarium</i> spp.)
Use Rate	0.75 – 1.0 L/ha
Diseases controlled	Septoria leaf blotch (<i>Septoria tritici</i>) Tan spot (<i>Pyrenophora tritici-repentis</i>)
Use Rate	0.75 – 1.0 L/ha
Application timing/instructions	<p>For suppression of fusarium head blight in wheat, apply A19649 Fungicide within the range of at least 75% of heads on the main stem fully emerged to when 50% of the heads on the main stem are flowering, using sprayer nozzles configured to provide excellent coverage to the cereal head.</p> <p>Application at the timing for fusarium head blight will control leaf diseases that occur later in the season. Application at this timing is not intended to provide curative control of established leaf diseases.</p> <p>Use the higher rate under higher disease pressure conditions.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>
Maximum number of consecutive sprays	<p>1 application per year.</p> <p>Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.</p> <p>Do not apply more than one application of a pydiflumetofen containing product for suppression of fusarium head blight.</p>
Maximum amount of product per year	1.0 L/ha
Pre harvest interval (PHI)	<p>Do not apply after BBCH 65 (50% of main heads in flower).</p> <p>Grain and straw may be fed at normal maturity.</p> <p>For harvest of forage and hay, one application with a minimum PHI of 7 days is required.</p>

A19649 FUNGICIDE TANK MIXED WITH MIRAVIS ERA B FUNGICIDE	
Wheat (spring, winter and durum)	
Diseases Suppressed	Fusarium head blight (<i>Fusarium</i> spp.)
Diseases Controlled	Leaf rust (<i>Puccinia recondita</i>) Septoria leaf blotch (<i>Septoria tritici</i>) Tan spot (<i>Pyrenophora tritici-repentis</i>)
Use Rate	0.5 - 0.625 L/ha A19649 Fungicide (100 - 125 g ai/ha) + 0.4 – 0.5 L/ha (100-125 g a.i./ha) of MIRAVIS Era B Fungicide
Application timing/instructions	<p>For suppression of fusarium head blight in wheat, apply within the range of at least 75% of heads on the main stem fully emerged to when 50% of the heads on the main stem are flowering, using sprayer nozzles configured to provide excellent coverage to the cereal head.</p> <p>Application at the timing for fusarium head blight will control leaf rust that occurs later in the season. Application at this timing is not intended to provide curative control of established leaf rust.</p> <p>Use the higher rate under higher disease pressure conditions.</p> <p>Application may be made using ground and aerial spray equipment.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha is recommended by ground application and 50 L/ha is recommended with aerial application.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>
Maximum number of consecutive sprays	<p>One application per year.</p> <p>Follow all precautions, restrictions, and directions on the labels of fungicide products used in an alternation program.</p> <p>Do not apply more than one application of a pydiflumetofen containing product for suppression of fusarium head blight.</p>
Maximum amount of product per year	0.625 L/ha
Pre-Harvest Interval	<p>Do not apply after BBCH 65 (50% of main heads in flower).</p> <p>For harvest of grain, forage and hay, one application with a minimum PHI of 30 days is required.</p>

11.8 Directions for Use in Corn

Crop	Corn (field, pop, specialty, sweet and seed)
Diseases suppressed	Fusarium and gibberella ear rots (<i>Fusarium</i> spp. and <i>Gibberella zeae</i>)
Use Rate	0.375 – 0.5 L/ha
Application timing/instructions	<p>For optimum suppression of fusarium and gibberella ear rots, apply A19649 Fungicide from the developmental stage of corn between the tip of stigmata visible (silking, BBCH 63) to the stigmata drying (silk browning, BBCH 67). A19649 Fungicide will reduce both disease symptoms and levels of mycotoxins in the grain.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 200 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.</p> <p>Use the 0.5 L/ha application rate when disease pressure is high or if susceptible hybrids are used.</p>
Maximum number of consecutive sprays	<p>2 applications on grain and stover, then switch to a non-Group 7 fungicide.</p> <p>Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.</p>
Maximum amount of product per year	1.0 L/ha/year on grain and stover
Pre harvest interval (PHI)	<p>Do not apply within 30 days for field corn grain, popcorn grain and corn stover.</p> <p>Do not apply within 7 days of harvest for sweet corn.</p> <p>For harvest of forage, one application with a minimum PHI of 7 days is required.</p>

11.9 Directions for Use in Rapeseeds (Crop Subgroup 20A)

Crop	Canola Crops (including all cultivars, varieties and/or hybrids of these)															
	<table border="0"> <tr> <td>Borage</td> <td>Lunaria</td> </tr> <tr> <td>Crambe</td> <td>Meadowfoam Milkweed</td> </tr> <tr> <td>Cuphea</td> <td>Mustard Seed</td> </tr> <tr> <td>Echium</td> <td>Oil radish</td> </tr> <tr> <td>Flax seed</td> <td>Poppy seed</td> </tr> <tr> <td>Gold of pleasure</td> <td>Rapeseed (canola)</td> </tr> <tr> <td>Hare's ear mustard</td> <td>Sesame</td> </tr> <tr> <td>Lesquerella</td> <td>Sweet rocket</td> </tr> </table>	Borage	Lunaria	Crambe	Meadowfoam Milkweed	Cuphea	Mustard Seed	Echium	Oil radish	Flax seed	Poppy seed	Gold of pleasure	Rapeseed (canola)	Hare's ear mustard	Sesame	Lesquerella
Borage	Lunaria															
Crambe	Meadowfoam Milkweed															
Cuphea	Mustard Seed															
Echium	Oil radish															
Flax seed	Poppy seed															
Gold of pleasure	Rapeseed (canola)															
Hare's ear mustard	Sesame															
Lesquerella	Sweet rocket															
Disease controlled	Blackleg (<i>Leptosphaeria maculans</i>) – On crambe, gold of pleasure, hare's ear mustard, lesquerella, lunaria, mustard seed, oil radish, rapeseed (canola) and sweet rocket only.															
Use Rate	0.5 – 0.625 L/ha															
Application timing/instructions for blackleg	<p>Apply once at the 2-6 leaf stage. Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.</p> <p>Use the higher rate under higher disease pressure conditions.</p>															
Disease controlled	Sclerotinia stem rot (<i>Sclerotinia sclerotiorum</i>)															
Use Rate	0.75 - 1.0 L/ha															
Application timing/instructions for Sclerotinia stem rot	<p>Apply once at 10-50 % bloom. Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively. Apply the higher rate under higher disease pressure conditions.</p> <p>Consider another fungicide application, with an alternate fungicide that is not in the Resistance Group 7 class, under conditions of extended, heavy disease pressure.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>															

Maximum number of consecutive sprays	<p>2 applications (1 application for control of blackleg and 1 application for control of Sclerotinia stem rot), then switch to a non-Group 7 fungicide.</p> <p>Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.</p> <p>Do not apply more than one application per season of a pydiflumetofen containing product for control of sclerotinia stem rot in canola.</p>
Maximum amount of product per year	1.625 L/ha
Pre harvest interval (PHI)	Do not apply within 30 days of harvest
Herbicide tank mixes in canola	<p>A19649 Fungicide can be tank mixed with the following canola herbicides at registered rates and timings:</p> <ul style="list-style-type: none">• Registered glyphosate herbicides in glyphosate tolerant canola (eg. Roundup® Ready)• Liberty® Herbicide (150 SN or 200 SN) in glufosinate ammonium tolerant canola (eg. LibertyLink® canola)• Odyssey® WDG Herbicide in Clearfield® canola (eg. canola varieties with the Clearfield trait) and Clearfield canola quality <i>Brassica juncea</i> (eg. canola quality <i>Brassica juncea</i> varieties with the Clearfield trait)• Equinox® EC Herbicide in canola and canola quality <i>Brassica juncea</i>• Odyssey WDG Herbicide plus Equinox EC Herbicide in Clearfield canola (eg. canola varieties with the Clearfield trait)• Poast® Ultra Liquid Emulsifiable Herbicide in canola

11.10 Directions for Use in Sunflowers Revised (Crop Subgroup 20B)

Crop	Sunflower Crops (including all cultivars, varieties and/or hybrids of these)	
	Calendula Castor oil plant Euphorbia Evening Primrose Niger seed	Rose hip Safflower Stokes aster Sunflower
Disease suppressed	Sclerotinia head rot (<i>Sclerotinia sclerotiorum</i>)	
Use Rate	1.0 L/ha	
Application timing/instructions	<p>For suppression of sclerotinia head rot in sunflowers make the first application when the crop is in the 10 - 50% disk flowering stage.</p> <p>For suppression of sclerotinia head rot in all other crops make the first application when the crop is in the early to mid-bloom flowering stage.</p> <p>A second application can be made 14 days after the first application, when disease pressure is high or when agronomic or weather conditions are conducive to disease development or movement.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.</p> <p>Apply with a non-ionic surfactant at a rate of 0.125% v/v in the spray tank.</p>	
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 fungicide.	
	Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.	
Maximum amount of product per year	2.0 L/ha	
Pre harvest interval (PHI)	Do not apply within 30 days of harvest	

11.11 Directions for Use in Peanuts

Crop	Peanut
Disease controlled	Early leaf spot (<i>Cercospora arachidicola</i>)
Use Rate	0.125 – 0.250 L/ha
Application Timing/Instructions for early leaf spot	<p>Begin applications prior to disease development. Apply 0.125 L/ha on a 14 – 21 day interval. Applications at the 0.250 L/ha rate may be made on a 21 - 28 day interval.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.</p>
Maximum number of consecutive sprays	3 applications, then switch to a non-Group 7 fungicide (maximum 4 applications in total).
	Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per year	1.0 L/ha
Pre harvest interval (PHI)	Do not apply within 14 days of harvest.

12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, A19649 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. 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 a maximum of 2 Group 7 fungicide containing foliar sprays per year unless otherwise stated in the Directions for Use section.

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

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 sign of resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to A19649 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.

Application Limitations and Pre-harvest Intervals

Crop*	Maximum Product Rate/ha/application (L/ha)	Minimum Re-treatment Interval (days)	Maximum total (L/ha/year)	Pre-Harvest Interval (PHI) (days)
Legumes (CG 6C)	1	14	2	14
Soybeans	1	7	2	14
Cereals (wheat, barley, oats, rye, triticale)	1	NA	1	BBCH 65
Cereals, forage and hay	1	NA	1	7
Corn, grain and stover	0.5	14	1	30
Corn Forage	0.5	NA	0.5	7
Sweet corn	0.5	14	1	7
Rapeseed (CG 20A)	1	14	1.625	30
Sunflower (CG 20B)	1	14	2	30
Peanut	0.25	14	1	14

*For specific crops in a group and use directions, refer to the Specific Directions For Use

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