

GROUPS	7 3	FUNGICIDES
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MIRAVIS® Duo Fungicide
ADEPIDYN® technology

FUNGICIDE

SUSPENSION CONCENTRATE

COMMERCIAL – AGRICULTURAL

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

ACTIVE INGREDIENTS:

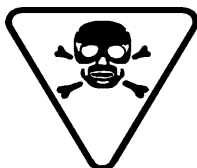
Pydiflumetofen 75 g/L

Difenoconazole.....125 g/L

Contains 1,2-benzisothiazolin-3-one at 0.041% OR 1,2-benzisothiazolin-3-one at 0.041% and 2-bromo-2-nitropropane-1,3-diol at 0.03% as preservatives.

WARNING: CONTAINS THE ALLERGEN SULFITES

CAUTION



POISON

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

REGISTRATION NO: **33206**
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.

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. Harmful if swallowed. 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, except for the following crops:

Crop	Activity	Restricted Entry Interval (REI)
Brassica Head and Stem Vegetables	Hand harvesting	5 days
	Weeding	4 days
	Scouting/Topping/Tying/Training	3 days
Brassica Leafy Vegetables	Weeding	4 days

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, long pants, chemical resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear coveralls when using a mechanically-pressurized handgun. Gloves are not required during application within a closed cab 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.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

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

This product demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of MIRAVIS® Duo 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.

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

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Pamphlet

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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.

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

9.0 PRODUCT INFORMATION

MIRAVIS Duo 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.

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.

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. Mixing Instructions

1. Ensure that the sprayer interior is clean, then fill the spray tank with ½ 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 MIRAVIS Duo Fungicide and agitate to ensure complete mixing.
3. Finish filling the sprayer with water, maintaining good agitation.
4. After any break in spraying operations, agitate thoroughly before spraying again.
5. Spray the pesticide suspension the same day as mixing.
6. 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:

- SC formulations may be inducted or batch mixed.

10.1.2. Spraying Instructions

1. **Water Volume:** Apply in a minimum spray volume of 150 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.

10.1.3. Equipment Clean-Up

Before Spraying

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

After Spraying

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow MIRAVis Duo Fungicide residue to dry within the spray tank.
- 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.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-877-SYNGENTA (1-877-964-3682) for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

10.2. 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.

10.2.1. Spraying Instructions

1. Water Volume: Apply in a minimum spray volume of 375 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER. Water volume should exceed the minimum recommendation at later stages of fruit development.
2. Spray Quality: Select nozzles and pressure to achieve a minimum of ASABE fine sized droplets.
3. Spray Distribution: Select nozzles, orient deflectors, and adjust air speed and volume to ensure only the canopy is sprayed. Spray should just reach the top of the target. Account for the shape and canopy density of the target when setting spray distribution.
4. 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.

10.3. 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.

10.3.1. 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.

10.3.2. 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.

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. Induct or thoroughly batch mix MIRAVIS Duo Fungicide.
3. Pump batch mixed into the hopper.
4. Finish filling the hopper with water.
5. If it was not possible to engage hopper agitation in Step 1, do so as soon as possible once airborne.
6. Spray the pesticide suspension the same day as mixing.
7. Do not mix, load or clean equipment where there is a potential to contaminate wells or aquatic systems.

NOTE: MIRAVIS Duo Fungicide **MAY BE** inducted or batch mixed.

10.3.3. 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. Suggested conditions for good aerial application are moderate temperatures (less than 25°C) and moderate relative humidity (greater than 40%). Light winds at altitude of 3-16 km/h are preferred, with 3-9 km/h considered optimal. 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.

10.3.4. 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.

10.3.5. Equipment Clean-Up

Before Spraying:

- Prior to using MIRAVIS Duo 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 MIRAVIS Duo Fungicide residue to dry within application equipment.

- 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 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.

10.4. 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.

MIRAVIS Duo 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**).

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

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial Habitat:
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Root vegetables (CSG 1A), Potato, Tuberous and Corn vegetables (CSG 1C)		5	1	3	1	1
	Bulb vegetables (CSG 3-07), Brassica leafy vegetables (CSG 4-13B), Brassica head and stem vegetables (CSG 5-13), Fruiting vegetables (CSG 8-09), Cucurbit vegetables (CG 9),		4	2	2	1	1
Airblast	Stone fruit (CG 12-09)	Early growth stage	25	4	15	5	3
		Late Growth State	15	2	5	3	2
	Tree nuts	Early growth stage	20	3	10	4	2
		Late Growth State	10	2	5	2	1
Aerial	Potato	Fixed-wing	20	1	1	1	15
		Rotary-wing	15	1	1	1	15

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (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.

10.6. Rotational Crop Restrictions

Rotational Crops	Planting Time From Last Application
Root Vegetables (CSG 1A) Tuberous and Corm Vegetables (CSG 1C) Radish Tops Garden Beet Tops Bulb Vegetables Brassica Leafy Greens Brassica Head and Stem Vegetables (CG 5-13) Dried Shelled Peas and Beans (except soybean) (CSG 6C) Soybeans Fruiting Vegetables Cucurbit Vegetables Low Growing Berry Subgroup (CSG 13-07G), except cranberries Rapeseeds (Revised) (CSG 20-A)	0 days
Leafy Greens All other crops Intended for Food and Feed	60 days

11.0 CROP USE DIRECTIONS

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

Unless indicated otherwise in the use directions for specific crops, make no more than two sequential applications of MIRAVIS Duo Fungicide before alternating with a non-Group 7 and 3 fungicide registered for the same disease.

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

11.1. Directions for Use in Potato

Crops	Potato
Diseases controlled	Early blight (<i>Alternaria solani</i>) Brown spot (<i>Alternaria alternata</i>)
Diseases suppressed	White mould (<i>Sclerotinia sclerotiorum</i>) Botrytis grey mould (<i>Botrytis cinerea</i>)
Use rate (product/ha)	1.0 L/ha
Application Timing/Instructions	<p>To control early blight and brown spot apply on a 7-14 day interval, starting prior to disease establishment. If disease pressure is high, use the shortest interval.</p> <p>For suppression of white mould, begin applications at 20% bloom. Repeat applications 10 - 14 days later.</p> <p>For suppression of Botrytis grey mould apply on a 7-14 day interval, starting prior to disease establishment. If disease pressure is high, use the shortest interval.</p> <p>Apply as a broadcast spray in sufficient water for thorough coverage. A minimum of 150 L/ha and 50 L/h ha is recommended for ground and aerial application, respectively.</p>
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	3.0 L/ha
Pre-harvest Interval (PHI)	Do not apply within 14 days of harvest

11.2. Directions for Use in Root Vegetables (Crop Subgroup 1A)

Crops	Root Vegetables Crops (including all cultivars, varieties and/or hybrids of these) Beet, garden Beet, sugar Burdock, edible Carrot Celeriac (celery root) Chervil, turnip-rooted Chicory Ginseng Horseradish Parsley, turnip-rooted Parsnip Radish Radish, oriental (daikon) Rutabaga Salsify (oyster plant) Salsify, black Salsify, Spanish Skirret Turnip
Disease controlled	Alternaria leaf blight (<i>Alternaria</i> spp.)
Disease suppressed	White mold (<i>Sclerotinia sclerotiorum</i>)
Use Rate	1.0 L/ha
Application Timing/Instructions	For control or suppression of above diseases apply on a 7 - 14 day interval, starting prior to disease establishment. If disease pressure is high, use the shortest interval. Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage. DO NOT apply using aerial application equipment.
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	4.0 L/ha
Pre-harvest Interval (PHI)	Do not apply within 7 days of harvest
Crops	Beet, garden Beet, sugar
Disease controlled	Cercospora leaf blight (<i>Cercospora beticola</i>)
Use Rate	1.0 L/ha
Application Timing/Instructions	For control of above disease apply on a 7 - 14 day interval, starting prior to disease establishment. If disease pressure is high, use the shortest interval. Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage. DO NOT apply using aerial application equipment.
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	4.0 L/ha
Pre-harvest Interval (PHI)	Do not apply within 7 days of harvest

Crops	Root and Tuber Vegetable Crops (including all cultivars, varieties and/or hybrids of these)
	<div> <div> Beet, garden Beet, sugar Burdock, edible Carrot Horseradish Parsley, turnip-rooted </div> <div> Parsnip Radish Radish, oriental (daikon) Rutabaga Turnip </div> </div>
Disease controlled	Powdery Mildew (<i>Erysiphe</i> spp.)
Use Rate	1.0 L/ha
Application Timing/Instructions	<p>For control of above disease apply on a 7 - 14 day interval, starting prior to disease establishment. If disease pressure is high, use the shortest interval.</p> <p>Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage.</p> <p>DO NOT apply using aerial application equipment.</p>
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	4.0 L/ha
Pre-harvest Interval (PHI)	Do not apply within 7 days of harvest

11.3. Directions for Use in Tuberous and Corm Vegetables

Crops	Tuberous and Corm Vegetables Crops (including all cultivars, varieties and/or hybrids of these)
	Artichoke, Chinese Artichoke, Jerusalem Canna, edible Chufa Sweet potato
Diseases Controlled	Alternaria leaf spot (<i>Alternaria</i> spp.) on sweet potato, Jerusalem artichoke, and canna Alternaria rot (<i>Alternaria</i> spp.) on sweet potato Alternaria leaf petiole and stem blight (<i>A. tenuissima</i> , <i>A. bataticola</i>) on sweet potato
Diseases Suppressed	White mould (<i>Sclerotinia sclerotiorum</i>) Botrytis grey mould (<i>Botrytis cinerea</i>)
Use rate (product/ha)	1 L/ha
Application Timing/Instructions	For control of Alternaria leaf spot apply on a 7 - 14 day interval, starting prior to disease establishment. If disease pressure is high, use the shortest interval. For suppression of white mould, begin applications at 20% bloom. Repeat application 10 -14 days later. For suppression of Botrytis grey mould apply on a 7-14 day interval, starting prior to disease establishment. If disease pressure is high use the shortest interval. Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage. DO NOT apply using aerial application equipment.
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	3 L/ha/season
Re-entry Interval (REI)	12 hours after application
Pre-harvest Interval (PHI)	Do not apply within 14 days of harvest.

11.4. Directions for Use in Bulb Vegetables

Crops	Bulb Vegetables	
	Bulb Onions Subgroup: Garlic, bulb Garlic, great-headed, bulb Onion, bulb Shallot, bulb	Green Onions Subgroup: Leek Onion, green Onion, Welsh, tops Shallot, fresh leaves
Disease controlled	Purple blotch (<i>Alternaria porri</i>)	
Use Rate	1.0 L/ha	
Application Timing/Instructions	<p>For control of above disease apply on a 7 to 14 day interval, starting prior to disease establishment.</p> <p>Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage.</p> <p>DO NOT apply using aerial application equipment.</p>	
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.	
Maximum amount of product per season	3.0 L/ha (green onion sub group) 4.0 L/ha (bulb onion sub group)	
Pre-harvest Interval (PHI)	Do not apply within 7 day of harvest	
Crops	Onion, bulb Shallot, bulb	
Disease suppressed	Botrytis leaf blight (<i>Botrytis squamosa</i>)	
Use Rate	1.0 L/ha	
Application Timing/Instructions	<p>For suppression of above disease apply on a 7 to 14 day interval, starting prior to disease establishment.</p> <p>Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage.</p> <p>DO NOT apply using aerial application equipment.</p>	
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.	
Maximum amount of product per season	4.0 L/ha	
Pre-harvest Interval (PHI)	Do not apply within 7 day of harvest	

Crops	Onion, bulb
Disease suppressed	Stemphylium leaf blight (<i>Stemphylium vesicarium</i>)
Use Rate	1.0 L/ha
Application Timing/Instructions	<p>For suppression of above disease apply on a 7 to 14 day interval, starting prior to disease establishment.</p> <p>Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage.</p> <p>DO NOT apply using aerial application equipment.</p>
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	4.0 L/ha
Pre-harvest Interval (PHI)	Do not apply within 7 day of harvest

11.5. Directions for Use in Brassica Leafy Vegetables

Crops	Brassica Leafy Vegetables Crops (including all cultivars, varieties and/or hybrids of these)
	Broccoli raab Chinese cabbage, bok choy Collards Kale Mizuna Mustard greens Rape greens
Diseases controlled	Alternaria leaf blight (<i>Alternaria brassicae</i>) Powdery mildew (<i>Erysiphe polygoni</i>)
Use Rate	0.728 – 1.0 L/ha
Application Timing/Instructions	For control of above diseases apply on a 7 to 10 day interval, starting prior to disease establishment. Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage. DO NOT apply using aerial application equipment.
Maximum number of sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	3.0 L/ha
Pre-harvest Interval (PHI)	Do not apply within 3 days of harvest

11.6. Directions for Use in Brassica Head and Stem Vegetables (Crop SubGroup 5-13)

Crops	Brassica Head and Stem Vegetables Crops (including all cultivars, varieties and/or hybrids of these)
	Broccoli Cabbage, Chinese, napa Brussels sprouts Cauliflower Cabbage
Diseases controlled	Alternaria leaf blight (<i>Alternaria brassicae</i>) Powdery mildew (<i>Erysiphe polygoni</i> , <i>E. cruciferarum</i>)
Use Rate	0.728 – 1.0 L/ha
Application Timing/Instructions	For control of above diseases apply on a 7 to 10 day interval, starting prior to disease establishment. Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage. DO NOT apply using aerial application equipment.
Maximum number of sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	3.0 L/ha
Pre-harvest Interval (PHI)	Do not apply within 5 days of harvest

11.7. Directions for Use in Fruiting Vegetables

Crops	Fruiting vegetables
	Crops (including all cultivars, varieties and/or hybrids of these)
	Eggplant Pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper)
	Groundcherry
	Pepino
	Tomatillo Tomato
Diseases Controlled	Early blight (<i>Alternaria solani</i>) Alternaria canker and rot (<i>Alternaria alternata</i>) Powdery mildew (<i>Leveillula taurica</i>) Anthrachnose (<i>Colletotrichum coccodes</i> and <i>Colletotrichum acutatum</i>)
Diseases Suppressed	Botrytis grey mould (<i>Botrytis cinerea</i>) White mould (<i>Sclerotinia sclerotiorum</i>) Cercospora leaf spot (<i>Cercospora capsici</i>) on tomato, pepper, and eggplant
Use rate (product/ha)	1 L/ha
Application Timing/Instructions	For control or suppression of all the diseases above apply on a 7 - 14 day interval, starting prior to disease establishment. If disease pressure is high, use the shortest interval. Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage. DO NOT apply using aerial application equipment.
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	2 L/ha/season
Re-entry Interval (REI)	12 hours after application
Pre-harvest Interval (PHI)	May be applied the day of harvest (0 day PHI).

11.8. Directions for Use in Cucurbit Vegetables

Crops	Cucurbit vegetables Crops (including all cultivars, varieties and/or hybrids of these)
	<div>Chinese waxgourd</div> <div>Citron melon</div> <div>Cucumber (field)</div> <div>Gerkin</div> <div>Gourd, edible</div> <div><i>Momordica</i> spp.</div> <div>Muskmelons (includes cantaloupe)</div> <div>Pumpkin</div> <div>Squash, Summer (includes zucchini)</div> <div>Squash, winter</div> <div>Watermelon</div>
Diseases Controlled	Powdery mildew (<i>Sphaerotheca fuliginea</i> and <i>Erysiphe chichoracearum</i>) Alternaria leaf spot (<i>Alternaria alternata</i>) Anthracnose (<i>Colletotrichum lagenarium</i> syn. <i>orbiculaire</i>) Gummy stem blight (<i>Didymella bryoniae</i>)
Diseases Suppressed	Alternaria blight (<i>Alternaria cucumerina</i>)
Use rate (product/ha)	1 L/ha
Application Timing/Instructions	<p>For control or suppression of above diseases apply on a 14 day interval, starting prior to disease establishment.</p> <p>Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage.</p> <p>DO NOT apply using aerial application equipment.</p>
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	2 L/ha/season
Re-entry Interval (REI)	12 hours after application
Pre-harvest Interval (PHI)	May be applied the day of harvest (0 day PHI).

11.9. Directions for Use in Tree Nuts

Crops	Almond
Disease controlled	Brown rot (<i>Monilinia laxa</i>)
Use Rate	1.0 L/ha
Application Timing/Instructions	For control of above disease apply on a 14 day interval, starting prior to disease establishment. Apply as an airblast spray in sufficient water for thorough coverage. A minimum of 375 L/ha is recommended. DO NOT apply using aerial application equipment.
Maximum number of sprays per season	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	3.0 L/ha
Pre-harvest Interval (PHI)	Do not apply within 14 day of harvest
Crops	Hazelnut (Filbert)
Disease controlled	Eastern Filbert blight (<i>Anisogramma anomala</i>)
Use Rate	1.0 L/ha
Application Timing/Instructions	For control of above disease apply on a 14 day interval, starting prior to disease establishment. Apply as an airblast spray in sufficient water for thorough coverage. A minimum of 375 L/ha is recommended. DO NOT apply using aerial application equipment.
Maximum number of sprays per season	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	3.0 L/ha
Pre-harvest Interval (PHI)	Do not apply within 14 day of harvest

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. Directions for Use in Stone Fruits (Crop Subgroup 12-09)

Crops	Stone Fruits Crops (including all cultivars, varieties and/or hybrids of these) Apricot Apricot, Japanese Cherry, black Cherry, Nanking Cherry, sweet Cherry, tart Jujube, chinese Nectarine Peach Plum Plum, American Plum, beach Plum, Canada Plum, cherry Plum, Chickasaw Plum, Damson Plum, Japanese Plum, Klamath Plum, prune Plumcot Sloe
Diseases controlled	Brown rot, blossom blight and fruit rot (<i>Monilinia</i> spp.)
Use Rate	1.0 L/ha
Application Timing/Instructions	<p>For control of above disease begin applications prior to disease establishment. Apply as an airblast spray in sufficient water for thorough coverage. A minimum of 375 L/ha is recommended.</p> <p>For brown rot and blossom blight, begin applications at early bloom and continue through petal fall.</p> <p>For brown rot on fruit, apply as needed a maximum of two sprays during the pre-harvest period up to the day of harvest.</p> <p>If high inoculum and severe disease conditions persist, apply a registered non-Group 3 or 7 fungicide.</p> <p>Make additional applications on a 7- to 14-day interval from the end of petal fall to harvest</p> <p>DO NOT apply using aerial application equipment.</p>
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	4.0 L/ha
Pre-harvest Interval (PHI)	May be applied the day of harvest (0 day PHI).

Crops	Peach
Disease controlled	Scab (<i>Cladosporium carpophilum</i>)
Use Rate	1.0 L/ha
Application Timing/Instructions	<p>For control of above disease begin applications prior to disease establishment. Apply as an airblast spray in sufficient water for thorough coverage. A minimum of 375 L/ha is recommended.</p> <p>If high inoculum and severe disease conditions persist, apply a registered non-Group 3 or 7 fungicide.</p> <p>Make additional applications on a 7- to 14-day interval from the end of petal fall to harvest</p> <p>DO NOT apply using aerial application equipment.</p>
Maximum number of consecutive sprays	2 applications, then switch to a non-Group 7 and 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.
Maximum amount of product per season	4.0 L/ha
Pre-harvest Interval (PHI)	May be applied the day of harvest (0 day PHI).

13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, MIRAVIS Duo Fungicide contains Group 7 and Group 3 fungicides. Group 7 (pydiflumetofen) is in the succinyl dehydrogenase inhibitor (SDHI) class. Group 3 (difenoconazole) is in the triazole class. Any fungal population may contain individuals naturally resistant to Group 7 and Group 3 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 or 3 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 MIRAVIS Duo 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/ Season)	Pre-Harvest Interval (PHI) (days)
Root vegetables (CSG 1A)	1	7	4	7
Potato and Tuberous and Corm vegetables	1	7	3	14
Bulb vegetables	1	7	3 (green onion sub group) 4 (bulb onion sub group)	7
Brassica leafy vegetables	1	7	3	3
Brassica head and stem vegetables (CG 5-13)	1	7	3	5
Fruiting vegetables	1	7	2	0
Cucurbits vegetables	1	14	2	0
Stone fruit (CSG 12-09)	1	7	4	0
Tree nut	1	14	3	14

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

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