

GROUP	3 7	FUNGICIDES
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APROVIA® TOP

FUNGICIDE

EMULSIFIABLE CONCENTRATE

AGRICULTURAL

For broad-spectrum disease control or suppression in tuberous and corm vegetable subgroup, fruiting vegetables, cucurbits vegetables, pome fruit, small fruit vine climbing subgroup (grapes), and rapeseed subgroup (canola).

ACTIVE INGREDIENTS:

Benzovindiflupyr 78 g/L
Difenoconazole 117 g/L

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



POISON

**DANGER - EYE IRRITANT
POTENTIAL SKIN SENSITIZER**

REGISTRATION NO: **31526**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **0.5 L – Bulk**

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

Label

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

FIRST AID

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.

NOTE: This product may cause skin sensitization reactions in certain individuals.

TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

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.

Causes eye irritation. **DO NOT** get in eyes. Harmful or fatal if swallowed. Harmful if inhaled. Avoid inhaling/breathing sprays.

With the exception of grapes, do not re-enter treated areas until 12 hours after treatment. For grapes, do not re-enter treated areas for 10 days for cane turning and vine girdling. For all other post-application activity for grapes (e.g., hand harvesting, training, thinning, hand pruning, tying, and leaf pulling), do not enter the treated area for 2 days.

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.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear coveralls or a long sleeved shirt and long pants, chemical resistant gloves, shoes plus socks and goggles or face shield when mixing, loading and applying or during equipment clean up or repair. Goggles or face shield and chemical resistant gloves are not required during application except during open cab airblast applications.

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, or using the toilet.

Apply only when the potential for drift to areas of human habitation or activity such as houses, cottages, schools and recreational areas. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms and non-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 sites such as hedgerows and woodlands.

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

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

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.

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.

DECONTAMINATION AND 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.

CONTAINER DISPOSAL:

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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PEST CONTROL PRODUCTS ACT

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Pamphlet

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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.

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NOTE: This product may cause skin sensitization reactions in certain individuals.

TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

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.

Causes eye irritation. **DO NOT** get in eyes. Harmful or fatal if swallowed. Harmful if inhaled. Avoid inhaling/breathing sprays.

With the exception of grapes, do not re-enter treated areas until 12 hours after treatment. For grapes, do not re-enter treated areas for 10 days for cane turning and vine girdling. For all other post-application activity for grapes (e.g., hand harvesting, training, thinning, hand pruning, tying, and leaf pulling), do not enter the treated area for 2 days.

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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.

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

Apply only when the potential for drift to areas of human habitation or activity such as houses, cottages, schools and recreational areas. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms and non-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 sites such as hedgerows and woodlands.

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

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

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.

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.

DECONTAMINATION AND DISPOSAL

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For refillable containers:

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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.

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

GENERAL INFORMATION

APROVIA® TOP is a broad-spectrum product containing two fungicides. It has preventive and curative properties and is recommended for the control or suppression of many important plant diseases. APROVIA TOP provides disease control of many important diseases such as leaf spots and powdery mildews. APROVIA TOP is applied as a foliar spray and can be used in block, alternating spray or tank-mix programs with other crop protection products. All applications should be made according to the use directions listed in the label.

General Use Precautions

DO NOT apply APROVIA TOP through any types of irrigation equipment.

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

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.

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

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

Make no more than two sequential applications of APROVIA TOP before alternating with another registered non-group 7 fungicide for the same disease.

Not all members of the crop groups have been tested for efficacy and phytotoxicity at the recommended label rates, and should be used at the discretion of the user.

ROTATIONAL CROP RESTRICTIONS

Please see the following table for the crop rotational restrictions:

Rotational Crops	Planting Time From Last APROVIA TOP Application
Potatoes and tuberous and corm vegetable subgroup (CG 1C) Fruiting vegetables crop group (CG8-09) Cucurbit vegetables crop group (CG 9) Rapeseed subgroup (CG 20A)	0 days
Cereals (wheat, barley, oats, rye, triticale) Corn (field, sweet, pop and specialty)	60 days
All other crops Intended for Food and Feed	6 months/180 days

DIRECTIONS FOR USE**SPRAY EQUIPMENT**

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

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

For more information on spray equipment and calibration, consult sprayer manufacturers and

provincial recommendations.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

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.

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 Engineers (ASAE S572.1) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

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.

Buffer Zone Table 1a – Tuberous and corm vegetables subgroup (including potatoes)*

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:				Terrestrial habitat
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer**	Tuberous and corm vegetable subgroup		15	2	1	1	1
Aerial***	Potatoes	Fixed wing	600	15	5	1	15
		Rotary wing	325	15	3	1	10

* For potatoes: If applications are made by one method (ground or air) all consecutive applications must be made by the same method – it is not acceptable to mix aerial and ground applications in the same calendar year.

** Do not make more than 4 applications by ground (for a total of 3.9 L/ha/season of APROVIA TOP) to the tuberous and corm vegetable subgroup.

*** Do not make more than 2 applications by air (for a total of 1.9 L/ha/season of APROVIA TOP) to potatoes.

Buffer Zone Table 1b – Remaining Crops

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Fruiting vegetables; cucurbits vegetables; gooseberry, Schisandra chinensis (cultivars, varieties and/or hybrids)		15	2	1	1	1
	Rape Seed (crop subgroup 20A)		5	1	1	1	0
Airblast	Grapes	Early growth stage	50	25	15	5	3
		Late growth stage	40	15	5	3	2
	Pome fruit	Early growth stage	45	20	10	4	2
		Late growth stage	35	10	5	2	1
Aerial	Canola	Fixed wing	175	10	1	1	0
		Rotary wing	175	10	1	1	0

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 (ASAE) 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.

MIXING PROCEDURES

Prepare only the amount of spray mixture that is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

- APROVIA TOP is an emulsifiable concentrate (EC) formulation.
- Prepare no more spray mixture than is required for the immediate operation.

- Thoroughly clean spray equipment before using this product.
- Agitate the spray solution before and during application.
- Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already treated area.

APROVIA TOP Alone (No Tank Mix)

- Add $\frac{1}{2}$ - $\frac{2}{3}$ of the required amount of water to the spray or mixing tank.
- With the agitator running, add APROVIA TOP to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after APROVIA TOP has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

APROVIA TOP + Tank Mixtures: All directions for use, crops/sites, use rates, dilution rates, precautions, and limitations which appear on the tank-mix product label must be observed. The label dosage for the tank-mix partner is not to be exceeded, and the most restrictive label precautions and limitations are to be followed.

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. for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Syngenta Canada Inc.

Mixing in the Spray Tank

- Add $\frac{1}{2}$ - $\frac{2}{3}$ of the required amount of water to the spray or mixing tank.
- With the agitator running, add the tank-mix partner(s) into the tank in the same order as described above.
- Allow the material to completely dissolve and disperse into the mix water. Continue agitation while adding the remainder of the water and APROVIA TOP to the spray tank.
- Allow APROVIA TOP to completely disperse.
- Spray the mixture with the agitator running.

GROUND APPLICATION

- Apply in a minimum of 150 L of water per hectare, unless specified otherwise.
- Do not apply through any ultra-low volume (ULV) spray system.
- Thorough coverage is necessary to provide good disease control.

AERIAL APPLICATION

- Use only on crops where air applications are indicated.
- Thorough coverage is necessary to provide good disease control.
- Apply in a minimum of 45 L of water per hectare unless specified otherwise.
- Avoid application under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur.
- Do not apply directly to humans or animals.
- Do not apply through any ultra-low volume (ULV) spray system.

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. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

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.

Operator 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.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom 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.

Product Specific Precautions

The buffer zones specified in Table 1 above 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.

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.

APROVIA TOP 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**).

USE DIRECTIONS

Crops	Tuberous and Corm Vegetables (Crop Subgroup 1C)*
Diseases Controlled	Early blight (<i>Alternaria solani</i>) Brown spot (<i>Alternaria alternata</i>) (suppression)
Use rate (mL product/ha)	643-967
Application Timing/Instructions	Begin applications prior to disease development and continue throughout the season on a 7-14 day interval. Make no more than 2 consecutive applications before switching to a non-Group 7 and 3 fungicide. If disease pressure is high, use the highest rate and shortest interval. For Early Blight , use the high rate and short application interval under high disease pressures. For best results, sufficient water volume must be used to provide thorough coverage. APROVIA TOP can be applied by ground application to the entire Crop Subgroup 1C; and by aerial application to potatoes. Please see Specific Use Restrictions for number of application by each method. A minimum of 150 L/ha for ground applications is recommended. For aerial applications on potatoes, a minimum of 45 L/ha of water is recommended.
*Complete list of crops: Tuberous and corm (CG 1C): Arrowroot; Artichoke, Chinese; Artichoke, Jerusalem, Canna, edible; Chufa; Dasheen; Ginger; Potato; Sweet potato	
Specific Use Restrictions:	
<ol style="list-style-type: none"> 1. Do not make more than 2 applications by air (for a total of 1.9 L/ha/season of APROVIA TOP) OR do not make more than 4 applications by ground (for a total of 3.9 L/ha/season of APROVIA TOP). For potatoes, if applications are made by one method (ground or air) all consecutive applications must be made by the same method – it is not acceptable to mix aerial and ground applications in the same calendar year. 2. Do not apply within 14 days of harvest (14-day PHI). 3. Do not apply more than 2 consecutive applications before switching to non-Group 7 and non-Group 3 fungicides. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program. 	

Crops	Fruiting vegetables (Crop Group 8-09)*
Diseases Controlled	Early blight (<i>Alternaria solani</i>) Anthracnose (<i>Colletotrichum</i> spp.) (suppression) Powdery mildew (<i>Oidiopsis sicula</i>) Septoria leaf spot (<i>Septoria lycopersici</i>)
Use rate (mL product/ha)	643-967
Application Timing/Instructions	Begin applications prior to disease development and continue throughout the season on a 7 day interval, starting at first fruit set for all diseases except Early blight. For Early blight apply on a 7-14 day interval starting prior to disease establishment. If disease pressure is high, use the highest rate. For best results, sufficient water volume must be used to provide thorough coverage. Apply as a broadcast foliar spray in a minimum of 150 L/ha of water for thorough coverage.
Crops	Eggplant, pepper and tomato
Disease Suppressed	Cercospora leaf spot (<i>Cercospora capsici</i>)
Use rate (mL product/ha)	643
Application Timing/Instructions	Begin applications prior to disease development and continue throughout the season on a 7 day interval, starting at first fruit set for all diseases. If disease pressure is high, use the highest rate. For best results, sufficient water volume must be used to provide thorough coverage. Apply as a broadcast foliar spray in a minimum of 150 L/ha of water for thorough coverage.
*Complete list of crops (CG 8-09): Eggplant; Groundcherry; Pepino; Pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); Tomatillo; Tomato; Okra	
Specific Use Restrictions:	
<ol style="list-style-type: none"> 1. Do not apply more than 3.9 L/ha/season of APROVIA TOP. 2. Do not apply within 1 day of harvest (1-day PHI). 3. Do not use on varieties in which the mature tomatoes will be less than 5 cm (such as cherry tomatoes). 4. Do not apply more than 2 consecutive applications before switching to non-Group 7 and non-Group 3 fungicides. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program. 	

Crops	Cucurbit vegetables (Crop Group 9)*
Diseases Controlled	Powdery mildew (<i>Sphaerotheca fuliginea</i> , <i>Erysiphe cichoracearum</i>) Alternaria blight and leaf spot (<i>Alternaria</i> spp.)
Use rate (mL product/ha)	761-967
Application Timing/Instructions	Begin applications prior to disease development and continue throughout the season on a 7 day interval. If disease pressure is high, use the highest rate. For best results, sufficient water volume must be used to provide thorough coverage. Apply as a broadcast foliar spray in a minimum of 150 L/ha of water for thorough coverage.
Diseases Controlled	Anthracnose (<i>Colletotrichum orbiculare</i>) Cercospora leaf spot (<i>C. citrullina</i>) Gummy stem blight (<i>Didymella bryoniae</i>) (suppression)
Use rate (mL product/ha)	967
Application Timing/Instructions	Begin applications prior to disease development and continue throughout the season on a 7 day interval. For best results, sufficient water volume must be used to provide thorough coverage. Apply as a broadcast foliar spray in a minimum of 150 L/ha of water for thorough coverage. To control Gummy stem blight use 190 L/ha of water.
*Complete list of crops (CG 9): Chinese waxgourd; Citron melon; Cucumber (field); Gerkin; Gourd, edible; Momordica spp.; Muskmelons (includes cantaloupe); Pumpkin; Squash, summer (includes zucchini); Squash, winter; Watermelon. Including cultivars and/or hybrids of these.	
Specific Use Restrictions:	
<ol style="list-style-type: none"> 1. Do not apply more than 3.9 L/ha/season of APROVIA TOP. 2. Do not apply within 1 day of harvest (1-day PHI). 3. Do not apply more than 2 consecutive applications before switching to non-Group 7 and non-Group 3 fungicides. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program. 	

Crops	Pome fruit (Crop Group 11-09)*
Diseases Controlled	Scab (<i>Venturia</i> spp.)
Use rate (mL product/ha)	386-643
Application Timing/Instructions	<p>Apple Scab - Protective Spray Schedule: Apply every 7-10 days starting at 6-13 mm (¼-½ inch) green tip or when environmental conditions become conducive for scab. If disease pressure is high, use the highest rate. Continue through petal fall until the threat of primary scab is complete. For improved fruit scab control, combine APROVIA TOP with a protectant fungicide registered to control scab (such as Allegro® 500F Fungicide, Dithane™ DG 75 Fungicide, Maestro® 80DF Fungicide, Manzate® Pro-Stick™ Fungicide, Penncozeb® 75DF Fungicide and Supra Captan 80WDG).</p> <p>Apple Scab - Forecasting Spray Schedule: Use a forecasting system beginning at green tip. Apply within 48 hours of the onset of an infection period. Apply a follow-up spray after 7 days. For improved fruit scab control, combine APROVIA TOP with a protectant fungicide registered to control scab beginning at bloom (such as Allegro 500F, Dithane DG 75 Fungicide, Maestro 80DF Fungicide, Manzate Pro-Stick Fungicide, Penncozeb 75DF Fungicide and Supra Captan 80WDG). Only apply in combination on crops appearing on the labels of both partner products.</p> <p>For best results, sufficient water volume must be used to provide thorough coverage. A minimum of 375 L/ha for ground applications is recommended. The most restrictive directions must be followed.</p>
Diseases Controlled	<p>Powdery mildew (<i>Podosphaera leucotricha</i>)</p> <p>Alternaria blotch (<i>Alternaria mali</i>)</p> <p>Cedar apple rust (<i>Gymnosporangium juniper-virginianae</i>)</p> <p>Quince rust (<i>Gymnosporangium</i> spp.)</p> <p>Brooks fruit spot (<i>Mycosphaerella pomi</i>)</p> <p>Sooty blotch (<i>Gloeodes pomigena</i>)</p> <p>Fly speck (<i>Schizothyrium pomi</i>)</p>
Use rate (mL product/ha)	643
Application Timing/Instructions	<p>Begin applications preventively. Apply APROVIA TOP alone or in combination with other non-Group 7 and non-Group 3 fungicides.</p> <p>For resistance management, apply no more than 2 consecutive sprays before alternating to a non-Group 7 and 3 containing fungicide.</p> <p>For best results, sufficient water volume must be used to provide thorough coverage. A minimum of 375 L/ha for ground applications is recommended.</p>
*Complete list of crops (CG 11-09): Apples, Crabapples, Loquat, Mayhaw, Pears and Quince	
<p>Specific Use Restrictions:</p> <ol style="list-style-type: none"> 1. Do not apply more than 2.57 L ha/season of APROVIA TOP. 2. Do not apply within 30 days of harvest (30-day PHI). 3. Do not apply more than 2 consecutive applications before switching to non-Group 7 and non-Group 3 fungicides. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program. 	

Crops	Small Fruit Vine Climbing Subgroup (Crop Subgroup 13-07F)*
Diseases Controlled	Powdery mildew (<i>Erysiphe</i> spp., <i>Sphaerotheca</i> spp. and <i>Uncinula necator</i>)
Use rate (mL product/ha)	643
Application Timing/Instructions	For powdery mildew, begin at bud break and apply on a 11-21 day interval. Use the shorter interval when conditions are more conducive to disease. Apply in sufficient water volume to obtain thorough coverage. A minimum spray volume of 150 L/ha is recommended.
*Complete list of crops (CG 13-07F): Gooseberry, Grape, Schisandra chinensis and cultivars, varieties and/or hybrids of these	
Specific Use Restrictions:	
<ol style="list-style-type: none"> 1. Do not apply more than 3.9 L/ha/season of APROVIA TOP. 2. Do not apply within 21 days of harvest (21-day PHI). 3. On <i>V. labrusca</i>, <i>V. labrusca</i> hybrids, and other non-vinifera hybrids where sensitivity is not known - the use of APROVIA TOP by itself or in tank mixtures with materials that may increase uptake (adjuvants, foliar fertilizers) may result in leaf burning or other phytotoxic effects. 4. Do not apply more than 2 consecutive applications before switching to a non-Group 7 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program. 	
Crops	Rapeseed (Crop Subgroup 20A)*
Diseases Controlled	Blackleg (<i>Leptosphaeria maculans</i>)
Use rate (mL product/ha)	643-967
Application Timing/Instructions	Apply during the rosette stage between 2 nd true leaf and bolting. A minimum of 200 L/ha for ground applications is recommended. For aerial applications on canola, a minimum of 45 L/ha of water is recommended.
*Complete list of crops (CG 20A): Borage, Canola, Crambe, Cuphea, Echium, Flax seed, Gold of pleasure, Hare's ear mustard, Lesquerella, Lunaria, Meadowfoam, Milkweed, Mustard seed, Oil radish, Poppy seed, Rapeseed (canola), Sesame, Sweet rocket and Cultivars and/or hybrids of these.	
Specific Use Restrictions:	
<ol style="list-style-type: none"> 1. Do not apply more than 0.967 L/ha/season of APROVIA TOP. 2. Do not apply within 30 days of harvest (30 day PHI). 3. Do not graze the treated rape crop or harvest for forage. 	

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, APROVIA TOP contains a Group 7 fungicide in the succinyl dehydrogenase inhibitor (SDHI) class and a Group 3 fungicide. Any fungal population may contain individuals naturally resistant to benzovindiflupyr and other Group 7 and difenoconazole and other 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 benzovindiflupyr or other Group 7 fungicides and difenoconazole and other Group 3 fungicides with different groups that control the same pathogens.

Although APROVIA TOP contains two active ingredients, benzovindiflupyr and difenoconazole, for certain diseases only one active may have efficacy against the causative pathogen. Appropriate resistance management practices should still be adhered to as part of any pesticide application

program, including alternating APROVIA TOP with non-Group 7 and 3 fungicides.

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

DO NOT apply at rates lower than recommended 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 APROVIA TOP is suspected.

If disease continues to progress after treatment with this product, DO NOT increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.

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

Table 2. Application Limitations and Pre-harvest Intervals

Crop*	Maximum Product Rate/ha/application (mL/ha)	Maximum total L/ha/season	Pre-Harvest Interval (PHI) (days)	Minimum Re-treatment Interval (days)
Tuberous and corm subgroup 1C	967	3.9	14	7
Fruiting Vegetables (CG 8-09)	967	3.9	1	7
Cucurbits (CG 9)	967	3.9	1	7
Pome (CG 11-09)	643	2.57	30	7
Small fruit and vine climbing subgroup (13-07F)	643	3.9	21	7
Canola (CG 20A)	967	0.967	30	NA

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

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