

GROUP	3	7	FUNGICIDES
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APROVIA® TOP
SOLATENOL® technology

FUNGICIDE

EMULSIFIABLE CONCENTRATE

COMMERCIAL - AGRICULTURAL

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

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

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.

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

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.

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

Restricted Entry Interval (REI): DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 10 days to perform cane turning and vine girdling in grapes and for 2 days for hand harvesting, training, thinning, hand pruning, tying, and leaf pulling in grapes. For all other postapplication activities, **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

DO NOT apply in greenhouses.

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

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, protective eyewear (goggles or face shield), socks and shoes during mixing, loading, application, clean-up and repair. Protective eyewear and 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, or using the toilet.

6.0 ENVIRONMENTAL PRECAUTIONS

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

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application sites such as hedgerows and woodlands.

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

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

filter strip between the treated area and the edge of the water body.

7.0 STORAGE

Store this product away from food or feed.

8.0 DISPOSAL

Disposal of unused, unwanted product:

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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Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application sites such as hedgerows and woodlands.

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

Difenoconazole is persistent and may carryover. It is recommended that this product not be used in areas treated with any products containing difenoconazole 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 filter between the treated area and the edge of the water body.

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1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
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CALL 1-800-327-8633 (FASTMED)***

9.0 PRODUCT 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 certain important plant 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.

9.1 General Use Precautions

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

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.

10.0 DIRECTIONS FOR USE

10.1 General Information

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

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

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.

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.

Do not apply through any ultra-low volume (ULV) spray system.

Use only on crops where air applications are indicated.

10.2 Ground Application

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

10.2.1 Mixing Instructions

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: 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. The label dosage for the tank-mix partner is not to be exceeded.

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.

10.2.2 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 ASAE medium 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.

10.2.3 Equipment Clean-Up

Before Spraying:

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

After Spraying:

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

10.3 Airblast Application

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

10.3.1 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 ASAE 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.

10.3.2 Equipment Clean-Up

Before Spraying:

Prior to using APROVIA TOP, ensure that the spray tank, lines and filter are thoroughly clean.

After Spraying:

Thoroughly clean application equipment immediately after spraying. **DO NOT** allow APROVIA TOP 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 Aerial Application

10.4.1 General Precautions

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.

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

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. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

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.

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

10.4.2 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.

10.4.3 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 WG or DF formulations with tank mix partners within a single batch. Batch mix WG or DF formulations first, pump into the hopper, and then add tank mix partners by induction or as an additional batch mix.

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 any SC formulations.

4. Thoroughly batch mix APROVIA TOP Fungicide and any other EC formulation mix partners. EC formulations may be added to the batch from Step 2, 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 2, if desired.
6. Pump batch mixed SC, EC, and/or SN/SL products into the hopper.
7. Finish filling the hopper with water.
8. If it was not possible to engage hopper agitation in Step 1, do so as soon as possible once airborne.
9. Spray the pesticide suspension the same day as mixing.
10. Do not mix, load or clean equipment where there is a potential to contaminate wells or aquatic systems.

10.4.4 Spraying Instructions

1. Water Volume: Apply in a spray volume of 45 L/ha. Appropriate water volumes aid good coverage.
2. Spray Nozzles: Use only ASAE medium or coarse nozzles rated as delivering droplets of volume median diameter of 340 microns or greater.
3. Pressure: As recommended by the nozzle manufacturer to achieve ASAE coarse or medium sized droplets.
4. Ensure hopper agitation is engaged whenever possible during flight.

10.4.5 Equipment Clean-Up

Before Spraying:

- Prior to using APROVIA TOP 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 APROVIA TOP Fungicide residue to dry within application equipment.

When using tank mixes, consult the tank-mix partner label for additional cleanup 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, flowering crops or weeds, wells or other water sources.
2. Remove all nozzles and screens and wash separately.
3. Dispose of all rinsate in accordance with provincial regulations.

10.5 Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-877-964-3682 or obtain technical advice from the distributor or your provincial agricultural representative.

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 growing season following a resistance management strategy (see **Resistance Management Recommendations**).

10.6 Spray Buffer Zones

A spray buffer zone is NOT required for:

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

The spray buffer zones specified in the tables 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.

Tuberous and corm vegetables subgroup (including potatoes)*

Method of application	Crop		Spray 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**	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/year 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/year of APROVIA TOP) to potatoes.

Remaining Crops

Method of application	Crop		Spray 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 (Crop Group 8); table beet tuberos and corm vegetables (Crop Subgroup 1C); Cucurbits vegetables (Crop Group 9); Small Fruit Vine Climbing subgroup (Crop Subgroup 13-07F), ginseng and onions		15	2	1	1	1
	Rapeseed (Crop Subgroup 20A)		5	1	1	1	0
	Root vegetables		15	2	1	1	1
Airblast	Small Fruit Vine Climbing subgroup (Crop Subgroup 13-07F)	Early season	50	25	15	5	3
		Late season	40	15	5	3	2
	Pome fruit	Early season	45	20	10	4	2
		Late season	35	10	5	2	1
Aerial	Canola	Fixed wing	175	10	1	1	0
		Rotary wing	175	10	1	1	0

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the [Canada.ca](https://www.canada.ca) web site.

10.7 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 (CSG 1C) Fruiting vegetables crop group (CG8-09) Root Vegetables Cucurbit vegetables crop group (CG 9) Rapeseed subgroup (CSG 20A) Bulb vegetables (Crop Subgroups 3-07A and 3-07B)	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

11.0 CROP USE DIRECTIONS

11.1 Root Vegetables

Crops	Root Vegetables*
Diseases Controlled	Alternaria leaf blight (<i>Alternaria</i> spp.) (Suppression**) Powdery mildew (<i>Erysiphe</i> spp.)
Crops	Carrot
Diseases Controlled	Alternaria leaf blight (<i>Alternaria dauci</i>) (Suppression**) Cercospora leaf spot (<i>Cercospora carotae</i>)
Use rate (mL product/ha)	643-967
Application Timing/Instructions	Begin applications prior to disease development and continue throughout the growing season on a 7-14 day interval. For best results, sufficient water volume must be used to provide thorough coverage. Please see Specific Use Restrictions. A minimum of 150 L/ha for ground applications is recommended.
*Complete list of crops: Root Vegetables: Beet (garden), Burdock (edible), Carrot, Celeriac (celery root), Chervil (turnip-rooted), Chicory, Horseradish, Parsley (turnip-rooted), Parsnip, Radish, Radish (oriental, daikon), Rutabaga, Salsify (oyster plant), Salsify (black & Spanish), Skirret, Turnip **Control can be expected when APROVIA TOP is applied at 967 mL product/ha.	
Specific Use Restrictions: <ol style="list-style-type: none"> Do not make more than 4 applications per year. Do not apply within 7 days of harvest (7-day PHI). 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. If disease pressure is high, use the highest rate and shortest interval. 	

11.2 Tuberous and Corm Vegetables (Crop Subgroup 1C)

Crops	Tuberous and Corm Vegetables (Crop Subgroup 1C) Complete list of crops: Tuberous and corm (CSG 1C): Arrowroot; Artichoke, Chinese; Artichoke, Jerusalem, Canna, edible; Chufa; Dasheen; Ginger; Potato; Sweet potato
Disease Controlled	Early blight (<i>Alternaria solani</i>)
Disease Suppressed	Brown spot (<i>Alternaria alternata</i>)

Use Rate	643-967 mL/ha
Application Timing/Instructions	<p>Begin applications prior to disease development and continue throughout the growing 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.</p> <p>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 applications 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.</p>
Pre-Harvest Interval (PHI)	14 days
Maximum Number of Applications per Year	<p>2 applications by air</p> <p>4 applications by ground</p>
Maximum Amount of Product per Year	<p>1.9 L/ha by air</p> <p>3.9 L/ha by ground</p>
Specific Use Restrictions: <ol style="list-style-type: none"> 1. 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 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. 	

11.3 Fruiting Vegetables (Crop Subgroup 8-09)

Crops	Fruiting vegetables (Crop Subgroup 8-09) Complete list of crops (CSG 8-09): Eggplant; Groundcherry; Pepino; Pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); Tomatillo; Tomato; Okra
Diseases Controlled	Early blight (<i>Alternaria solani</i>) Powdery mildew (<i>Oidiopsis sicula</i>) Septoria leaf spot (<i>Septoria lycopersici</i>)
Disease Suppressed	Anthrachnose (<i>Colletotrichum</i> spp.)
Use Rate	643-967 mL/ha
Application Timing/Instructions	<p>Begin applications prior to disease development and continue throughout the growing 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.</p>
Crops	Eggplant, pepper and tomato
Disease Suppressed	Cercospora leaf spot (<i>Cercospora capsici</i>)
Use Rate	643 mL/ha
Application Timing/Instructions	<p>Begin applications prior to disease development and continue throughout the growing 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.</p>

Pre-Harvest Interval (PHI)	1 day
Maximum Amount of Product per Year	3.9 L/ha
Specific Use Restrictions: <ol style="list-style-type: none"> 1. Do not use on varieties in which the mature tomatoes will be less than 5 cm (such as cherry tomatoes). 2. 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. 	

11.4 Cucurbit Vegetables (Crop Group 9)

Crops	Cucurbit vegetables (Crop Group 9) 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.
Diseases Controlled	Powdery mildew (<i>Sphaerotheca fuliginea</i> , <i>Erysiphe cichoracearum</i>) Alternaria blight and leaf spot (<i>Alternaria</i> spp.)
Use Rate	761-967 mL/ha
Application Timing/Instructions	Begin applications prior to disease development and continue throughout the growing 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	Anthraxnose (<i>Colletotrichum orbiculare</i>) Cercospora leaf spot (<i>C. citrullina</i>)
Disease Suppressed	Gummy stem blight (<i>Didymella bryoniae</i>)
Use Rate	967 mL/ha
Application Timing/Instructions	Begin applications prior to disease development and continue throughout the growing 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.
Pre-Harvest Interval (PHI)	1 day
Maximum Amount of Product per Year	3.9 L/ha
Specific Use Restrictions: <ol style="list-style-type: none"> 1. 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. 	

11.5 Pome Fruit (Crop Group 11-09)

Crops	Pome fruit (Crop Group 11-09) Complete list of crops (CG 11-09): Apples, Crabapples, Loquat, Mayhaw, Pears and Quince.
Diseases Controlled	Scab (<i>Venturia</i> spp.)
Use Rate	386-643 mL/ha
Application Timing/Instructions	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,

	<p>Dithane™ DG 75 Fungicide, Manzate® Pro-Stick™ Fungicide and Penncozeb® 75DF Fungicide).</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, Manzate Pro-Stick Fungicide and Penncozeb 75DF Fungicide). Only apply in combination on crops appearing on the labels of both partner products. 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	643 mL/ha
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>
Pre-Harvest Interval (PHI)	30 days
Maximum Amount of Product per Year	2.57 L/ha
<p>Specific Use Restrictions:</p> <ol style="list-style-type: none"> 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. DO NOT enter or allow entry into treated areas until sprays have dried. 	

11.6 Small Fruit Vine Climbing Subgroup (Crop Subgroup 13-07F)

Crops	<p>Small Fruit Vine Climbing Subgroup (Crop Subgroup 13-07F)</p> <p>Complete list of crops (CG 13-07F): Gooseberry, Grape, Schisandra chinensis and cultivars, varieties and/or hybrids of these</p>
Diseases Controlled	<p>Powdery mildew (<i>Erysiphe</i> spp., <i>Sphaerotheca</i> spp. and <i>Uncinula necator</i>)</p>
Use Rate	643 mL/ha
Application Timing/Instructions	<p>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.</p>
Pre-Harvest Interval (PHI)	21 days
Maximum Amount of Product per Year	3.9 L/ha
<p>Specific Use Restrictions:</p> <ol style="list-style-type: none"> On <i>V. labrusca</i>, <i>V. labrusca</i> hybrids, and other non-viniferea hybrids where sensitivity is not 	

<p>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.</p> <p>2. 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.</p>	
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11.7 Rapeseed (Crop Subgroup 20A)

Crops	Rapeseed (Crop Subgroup 20A) Complete list of crops (CSG 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.
Diseases Controlled	Blackleg (<i>Leptosphaeria maculans</i>)
Use rate	643-967 mL/ha
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.
Pre-Harvest Interval (PHI)	30 days
Maximum Amount of Product per Year	0.967 L/ha
Specific Use Restrictions:	
1. Do not graze the treated rape crop or harvest for forage.	

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 Ginseng

Crops	Ginseng
Diseases Controlled	Alternaria blight (<i>Alternaria panax</i>)
Use Rate	643 - 967 mL/ha
Application Timing/Instructions	Begin applications at emergence and re-apply on a 10-14-day interval when weather is favourable. Apply in sufficient water volume to obtain thorough coverage. A minimum spray volume of 200 L/ha is recommended. Increase water volumes as the canopy density increases.
Pre-Harvest Interval (PHI)	14 days
Maximum Amount of Product per Year	3.9 L/ha
Specific Use Restrictions:	
<p>1. Do not apply more than 2 consecutive applications before switching to a non-Group 7 and non-Group 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.</p> <p>2. DO NOT APPLY BY AIR.</p>	

12.2 Bulb Onion (Crop Subgroup 3-07A) and Green Onion (Crop Subgroup 3-07B)

Crops	Bulb Onion (Crop Subgroup 3-07A) and Green Onion (Crop Subgroup 3-07B)* Complete list of crops: <u>Bulb Onions:</u> Daylily, bulb; Fritillaria; Garlic (bulb, great-headed bulb; serpent bulb); Lily; Onion (bulb, Chinese bulb, pearl, potato bulb); Shallot, bulb. <u>Green Onions:</u> Chives (Chinese fresh leaves, fresh leaves); Elegans hosta; Fritillaria; Kurrat; Lady's leek; Leek; Onion (Beltsville bunching, fresh, green, macrostem, tree tops, Welsh tops); Shallot, fresh leaves; Wild leek.
Diseases Controlled	Purple blotch (<i>Alternaria porri</i>) and garlic rust (<i>Puccinia allii</i>)
Disease Suppressed	Stemphylium leaf blight (<i>Stemphylium vesicarium</i>)
Method of Application	Foliar application
Use Rate	967 mL/ha
Application Timing/Instructions	Begin applications when the plants are 5-10 centimetres high or when conditions become favourable for disease development. Make applications on a 7 – 14 days interval. Use the shorter interval when conditions are more conducive to disease. Apply specified rates in a minimum of 150 L of water per hectare up to 600 L of water per hectare. If not treating for purple blotch, the use of Aprovia Fungicide is recommended.
Pre-Harvest Interval (PHI)	7 days
Maximum Amount of Product per Year	2.9 L/ha to Green Onion subgroup 3.9 L/ha to Dry Bulb Onion subgroup
Specific Use Restrictions: <ol style="list-style-type: none"> DO NOT APPLY BY AIR. Do not apply more than 2 consecutive applications before switching to a non-Group 7 or non-Group 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program. 	

12.3 Table Beets

Crop	Table Beet
Diseases Suppressed	Cercospora Leaf Spot (<i>Cercospora beticola</i>)
Method of Application	Foliar application
Use Rate	643 – 967 mL/ha
Application Timing/Instructions	Begin applications prior to disease development and continue throughout the season on a 7 – 14 day interval. A minimum spray volume of 150 L/ha for ground application is recommended.
Application Interval	7 – 14 days

Maximum Number of Applications per Year	4
Pre-Harvest Interval (PHI)	7 days
Specific Use Restrictions: <ol style="list-style-type: none">1. DO NOT APPLY BY AIR.2. Do not apply more than 2 consecutive applications before switching to a non-Group 7 or non-Group 3 fungicide. Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.	

13.0 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.

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)
Root Vegetables	967	3.9	7	7
Tuberous and corm subgroup (CSG 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 (CSG 13-07F)	643	3.9	21	7
Canola (CSG 20A)	967	0.967	30	NA
Ginseng	967	4	14	14
Bulb onion (CSG 3-07A)	967	3.9	7	7 – 14
Green Onion (CSG 3-07B)	967	2.9	7	7 - 14
Table Beets	967	3.9	7	7 - 14

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

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