

IMPORTANT NOTICE
CANADIAN LABEL –It is a violation of Canadian law to use this product in Canada in a manner inconsistent with its Canadian labeling.

GROUP	40	FUNGICIDE
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REVUS® Fungicide

SUSPENSION

COMMERCIAL

For control or suppression of certain foliar diseases in Brassica vegetables, bulb vegetables, cucurbits, peppers, tomatoes, potatoes, leafy vegetables, grapes and hops.

GUARANTEE:

Mandipropamid 250 g/L

Contains 1,2-benzisothiazolin-3-one at 0.017% as a preservative.

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

REGISTRATION NO: **29074**
PEST CONTROL PRODUCTS ACT

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

Pamphlet

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 further 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.

TOXICOLOGICAL INFORMATION

There is no specific antidote if this product is ingested. Treat symptomatically. There is no known medical condition likely to be aggravated by the exposure.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Applicators and other handlers must wear long-sleeve shirt and long pants when mixing, loading and applying and during clean-up and repair activities. Wear chemical resistant gloves during mixing, loading, clean-up and repair activities. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash thoroughly with soap and water after handling. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at

www.croplife.ca.

ENVIRONMENTAL PRECAUTIONS

Runoff

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

Store in a cool, dry place. Do not store food, beverages or tobacco products in storage area.

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 clean up of spills.

CONTAINER DISPOSAL:

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.

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 use this container for any other purpose.

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

GENERAL INFORMATION

REVUS® Fungicide is a fungicide for control or suppression of certain foliar diseases in Brassica vegetables, bulb vegetables, cucurbits, peppers, tomatoes, potatoes, leafy vegetables, hops, and grapes.

DIRECTIONS FOR USE

Rotational Crop Restrictions

Do not plant any crop which is not registered for use with REVUS Fungicide for a period of 30 days after the last application.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuarine/marine habitats.

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

APPLICATION PROCEDURES

GROUND APPLICATION:

Spray nozzles should be selected which will provide accurate and uniform spray deposition. Use spray nozzles, which provide medium-sized droplets and reduce drift. To help ensure accuracy, calibrate sprayer before each use. Do not apply REVUS Fungicide through any type of ultra low volume (ULV) spray system. For information on spray equipment and calibration, consult sprayer manufacturers and/or the local agricultural representative specialists.

Apply REVUS Fungicide using sufficient water volume to provide thorough and uniform coverage. For ground applications, use a minimum of 100 L/ha unless otherwise indicated on this label. In situations where a dense canopy exists and/or pest pressure is high, use greater water volumes. Avoid making applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. Avoid spray overlap.

Precautions:

- 1) Select nozzles that can produce the desired droplet sizes at the normal rated pressure range.
- 2) The sprayer should travel at a uniform speed across the field.

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) fine classification. Boom height must be 60 cm or less above the crop or ground.

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) 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 rotor span. Apply in at least 45 litres of water per hectare.

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

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-87-SYNGENTA (1-877-964-3682) or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum of 45 litres of water per hectare.

Do not spray when the wind blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

MIXING PROCEDURES

1. Add 1/2 of the required amount of water to the mix tank.
2. With the agitator running, add the desired amount of REVUS Fungicide to the tank.
3. Continue agitation while adding the remainder of the water.
4. Begin application of the solution after REVUS Fungicide has completely dispersed into the mix water.
5. Maintain agitation until all of the mixture has been applied.

Prepare no more spray mixture than 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. Keep product container tightly closed when not in

use.

DIRECTIONS FOR USE

Integrated Pest (Disease) Management: REVUS Fungicide should be integrated into an overall disease management strategy that includes varieties with disease tolerance, proper timing of irrigation and removal of plant debris in which inoculum overwinters.

Resistance Management: Follow the resistance management guidelines in the Resistance Management Section. Do not apply more than one application of REVUS Fungicide or any other Group 40 fungicide before alternation with at least one application of a fungicide that is not a group 40.

Crop	Disease	Rate mL product/ha (g ai/ha)	Application Directions
<p>Brassica Vegetables</p> <p>Brassica Head and Stem subgroup: Broccoli; Chinese broccoli (gai lon); Brussels sprouts; Cabbage; Chinese cabbage (napa); Chinese mustard cabbage (gai choy); Cauliflower; Cavalo broccoli; Kohlrabi</p> <p>Leafy Greens subgroup: Broccoli rabb; Chinese cabbage; Collards; Kale; Mizuna; Mustard greens; Mustard spinach; Rape greens</p> <p>Including all cultivars and/or hybrids of these</p>	<p>For control of Downy mildew (<i>Peronospora parasitica</i>)</p>	<p>400 - 600 (100 - 150)</p>	<p>REVUS Fungicide applications should begin prior to disease development and continue throughout the season on a 7-10 day schedule of fungicides, following the resistance management guidelines.</p> <p>The use of a non-ionic adjuvant (0.25% v/v) is recommended.</p> <p>Applications may be made by ground or air.</p> <p>REVUS Fungicide may be tank mixed with BRAVO® 500 Agricultural Fungicide for any Brassica crop listed on that label. Follow the most restrictive use directions of either label.</p>
<p>Specific Use Restrictions:</p> <p>Do not make more than 4 applications per season of REVUS Fungicide.</p> <p>Do not apply within 1 day of harvest (1 day PHI).</p>			

Crop	Disease	Rate mL product/ha (g ai/ha)	Application Directions
<p>Bulb Vegetables</p> <p>Dry Bulb: Onion, bulb, Garlic, Shallot</p>	<p>For control of Downy mildew (<i>Peronospora destructor</i>)</p>	<p>400 (100)</p>	<p>REVUS Fungicide applications should begin prior to disease development and continue throughout the season on a 7 day schedule of fungicides, following the resistance management guidelines.</p> <p>The use of a non-ionic adjuvant (0.25% v/v) or mineral oil at 1.0% v/v is recommended.</p> <p>Applications may be made by ground or air.</p> <p>REVUS Fungicide may be tank mixed with BRAVO 500 Agricultural Fungicide for use on all dry bulb and green bunching onions. Follow the most restrictive use directions of either label.</p>
<p>Specific Use Restrictions: Do not make more than 4 applications per season of REVUS Fungicide. Do not apply within 7 day of harvest (7 day PHI).</p>			
<p>Cucurbits</p> <p>Cantaloupe; Chayote; Chinese-waxgourd; Field cucumber; Gourds; Honeydew Melons; Momordica spp. (bitter melon, balsam apple); Muskmelon; Watermelon; Pumpkin; Squash; Zucchini</p> <p>Including all cultivars and/or hybrids of these</p>	<p>For suppression of Downy mildew (<i>Pseudo-peronospora cubensis</i>)</p>	<p>400 - 600 (100 - 150)</p>	<p>REVUS Fungicide applications should begin prior to disease development and continue throughout the season on a 7-10 day schedule of fungicides, following the resistance management guidelines.</p> <p>The use of a non-ionic adjuvant (0.25% v/v) is recommended.</p> <p>Applications may be made by ground or air.</p> <p>REVUS Fungicide must be tank mixed with BRAVO 500 Agricultural Fungicide, for use on field cucurbits. Follow the most restrictive use directions of either label.</p> <p>For Resistance Management purposes, do not apply REVUS Fungicide to greenhouse-grown seedlings to be transplanted in the field, until after they have been transplanted out.</p>
<p>Specific Use Restrictions: Do not make more than four applications per season of REVUS Fungicide. May be applied on the day of harvest (0 day PHI) for all cucurbit crops.</p>			

Crop	Disease	Rate mL product/ha (g ai/ha)	Application Directions
<p>Fruiting Vegetables:</p> <p>Field pepper transplants</p> <p>For use on peppers to be treated in the greenhouse and immediately transplanted to the field</p> <p>Bell peppers</p> <p>Non-bell peppers</p> <p>Sweet non-bell peppers</p> <p>Eggplant, Okra, Ground Cherry, Pepino</p>	<p>For suppression of Phytophthora blight (<i>Phytophthora capsici</i>)</p>	<p>600 (150)</p>	<p>Make one application of REVUS Fungicide as a drench, immediately before transplant to the field.</p>
<p>* Drenching Guidelines:</p> <p>Number of plants/ha = 34,100</p> <p>Volume of prepared REVUS Fungicide solution per plant = 150 to 200 mL</p> <p>Total volume of solution/ha = 5,115 to 6,800 L</p>			
<p>Specific Use Restrictions:</p> <p>Do not make more than one application per season of REVUS Fungicide.</p> <p>Do not apply within 1 day of harvest (1 day PHI).</p>			

Crop	Disease	Rate mL product/ha (g ai/ha)	Application Directions
<p>Tomatoes</p> <p>Field Tomato</p> <p>Tomatillo</p> <p>Greenhouse Tomatoes (For use in greenhouse only - not for transplant to the field)</p>	<p>For control of Late blight (<i>Phytophthora infestans</i>)</p>	<p>400 - 600 (100 - 150)</p>	<p>REVUS Fungicide applications should begin prior to disease development and continue throughout the season on a 7-10 day schedule of fungicides, following the resistance management guidelines.</p> <p>The use of a non-ionic adjuvant (0.25% v/v) is recommended.</p> <p>Applications may be made by ground or air.</p> <p>For greenhouse water volumes, refer to the Greenhouse Water Volumes chart.</p> <p>REVUS Fungicide may be tank mixed with BRAVO 500 Agricultural Fungicide on field tomatoes (not for greenhouse use), following the most restrictive use directions of either label.</p> <p>For Resistance Management purposes, do not apply REVUS Fungicide to greenhouse-grown seedlings to be transplanted in the field, until after they have been transplanted out.</p>
<p>Specific Use Restrictions:</p> <p>Do not make more than four applications per season of REVUS Fungicide.</p> <p>Do not apply within 1 day of harvest (1 day PHI).</p>			
<p>Grapes</p>	<p>For control of downy mildew (<i>Plasmopora viticola</i>)</p>	<p>500 (125)</p>	<p>REVUS Fungicide applications should begin prior to disease development and continue throughout the season on a 7-10 day schedule of fungicides, following the resistance management guidelines.</p> <p>The use of a non-ionic adjuvant (0.25% v/v) is recommended.</p> <p>Applications may be made by ground or air.</p>
<p>Specific Use Restrictions:</p> <p>Do not make more than four applications per season on REVUS Fungicide.</p> <p>Do not apply within 14 days of harvest (14 day PHI).</p>			

Crop	Disease	Rate mL product/ha (g ai/ha)	Application Directions
Potatoes	For control of Late blight (<i>Phytophthora infestans</i>)	400 - 600 (100 - 150)	REVUS Fungicide applications should begin prior to disease development and continue throughout the season on a 7-10 day schedule of fungicides, following the resistance management guidelines. The use of a non-ionic adjuvant (0.25% v/v) is recommended. Applications may be made by ground or air. REVUS Fungicide may be tank mixed with BRAVO 500 Agricultural Fungicide for use on potatoes. Follow the most restrictive use directions of either label.
Specific Use Restrictions: Do not make more than four applications per season on REVUS Fungicide. Do not apply within 14 days of harvest (14 day PHI).			
Leafy Vegetables Field lettuce, leaf and head lettuce Spinach Greenhouse Lettuce (For use in greenhouse only - not for transplant to the field)	For control of Downy mildew (<i>Bremia lactucae</i>) Blue Mold (<i>Peronospora effusa</i>)	400 - 600 (100 - 150)	REVUS Fungicide applications should begin prior to disease development and continue throughout the season on a 7-10 day schedule of fungicides, following the resistance management guidelines. The use of a non-ionic adjuvant (0.25% v/v) is recommended. For Resistance Management purposes, do not apply REVUS Fungicide to greenhouse-grown seedlings to be transplanted in the field, until after they have been transplanted out.
Specific Use Restrictions: Do not make more than four applications per season of REVUS Fungicide. Do not apply within 1 day of harvest of field lettuce - leaf and head, and spinach (1 day PHI). Do not apply within 7 days of harvest of greenhouse lettuce (7 day PHI).			

Greenhouse Water Volume Guidelines

Crop	Size	Height (m)	Volume per unit area (L/ha)
Tomato	Small	0.6	285
	Medium	1.2	627
	Large	2.7	1200-1400

REVUS Rate Conversion Chart

mL Product/ha	g ai/ha	Treated ha/1 L Product
400	100	2.5
500	125	2.0
600	150	1.7

READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS**NOTE TO USER:**

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than Syngenta Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerances arising, and agree to hold Syngenta Canada Inc. harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

Hops		
DISEASE CONTROLLED	PRODUCT RATE mL/ha (g ai/ha)	APPLICATION DIRECTIONS
Downy Mildew (<i>Pseudoperonospora humuli</i>)	600 (150)	<p>Post-emergent foliar broadcast treatment by ground or air.</p> <p>Apply in sufficient water volume to provide thorough coverage.</p> <p>Prior to disease development and continue throughout the season on a 7-10 day interval.</p> <p>Use the shorter interval under high pressure or when conditions are conducive to disease.</p> <p>The use of a non-ionic adjuvant (0.25% v/v) is recommended.</p>
Special Use Restrictions:		
<ol style="list-style-type: none"> Do not apply within 7 days of harvest (7-day PHI) Maximum of 3 applications with no more than 2 consecutive applications. No more than 50% of the total number of sprays should be REVUS. Do not apply more than 1.8 L of product/ha per season. 		

Resistance Management Recommendations

For Resistance management, please note that REVUS Fungicide contains a Group 40 fungicide. Any fungal population may contain individuals naturally resistant to REVUS Fungicide and other Group 40 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 REVUS Fungicide or other Group 40 fungicides with different Groups that control the same pathogens.

Do not exceed the total number of applications of REVUS Fungicide per season per crop.

Do not apply sequential treatments of REVUS Fungicide, or other fungicides in the same Fungicide Group, in a season. Do not apply at rates lower than recommended on the label. Use tank mixtures with fungicides from a different Group when such use is permitted.

Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.

Monitor treated fungal populations for sign of resistance development.

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 disease problems in your area.

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

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