REVUS® Fungicide

AGRICULTURAL SUSPENSION

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

ACTIVE INGREDIENT/GUARANTEE:
Mandipropamid* ......................................... 23.3%
Other Ingredients: 76.7%
Total: 100.0%

*CAS No. 374726-62-2

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

Contains 23.3% Mandipropamid equivalent to 2.08 pounds per gallon or 250 grams per liter of active ingredient

NET CONTENTS: 1 gallon/ 3.78L 250 mL to Bulk

Syngenta Crop Protection, LLC/Syngenta Canada Inc.
PO Box 18300 / 140 Research Lane, Research Park
Greensboro, NC 27419 / Guelph, ON N1G 4Z3
Telephone (Canada): 1-877-964-3682
Telephone (US): 1-866-796-4368

In case of emergency involving a major spill, fire, or poisoning call 1-800-888-8372 (in the US.) or 1-800-327-8633 (FASTMED) (in Canada)

EPA Reg. No. 100-1254/ EPA Est. 100-NE-001
REGISTRATION NO. 29074 PEST CONTROL PRODUCTS ACT

Product of Switzerland, Formulated in the USA

FIRST AID:
When seeking medical attention, take the container label if possible. If not, take information which identifies the product, that is, the product name and registration numbers. If swallowed, call a poison control center or doctor IMMEDIATELY for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told by to a poison control center 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 center 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 center 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 center or doctor for treatment advice.

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR Part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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

IN THE UNITED STATES: It is a violation of United States law to use this product without having obtained the United States label at the time of purchase and following the U.S. label at the time of application.

IN CANADA: 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.

Refer to country specific label booklet for additional information including precautions, protective clothing and equipment, user safety recommendations, environmental hazards, environmental precautions, storage and disposal directions and warranty information.
REVUS® Fungicide

SUSPENSION

COMMERCIAL

For use as a foliar spray to control or suppress certain foliar diseases in vegetable crops. Also, for use as seed treatment for certain diseases in potatoes.

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.**

Wear a long-sleeved shirt, long pants, chemical-resistant gloves and shoes plus socks during mixing, loading and applying and during clean-up and repair. Chemical-resistant gloves are not required during application with groundboom equipment. 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.
Potato seed piece treatment:

Wear coveralls over long-sleeved shirt, long pants, chemical-resistant gloves, socks and boots during mixing, loading, application, clean-up, and repair. When handling treated potato seed pieces or when working with or around equipment used to transport or plant treated potato seed pieces, workers must wear a long-sleeved shirt, long pants, gloves, socks and boots. For good hygiene practice, it is recommended to wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during all job activities.

DO NOT use open treating equipment when treating potato seed pieces. This product must be applied using a closed treatment system.

Foliar application: Applicators and other handlers must wear long-sleeved 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 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.

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.

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 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.

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).

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 and root diseases in Brassica vegetables, bulb vegetables, cucurbits, fruiting vegetables, potatoes, leafy vegetables, hops, grapes, ginseng, basil and edible-podded beans.

REVUS Fungicide product also controls seedborne late blight in potatoes.

DIRECTIONS FOR USE

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

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.

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

APPLICATION PROCEDURES

GREENHOUSE USE

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

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.

SOIL APPLICATION (IN-FURROW AND DRIP (TRICKLE) CHEMIGATION)

For soil application, apply REVUS Fungicide using drip application, transplant water application (water wheel or continuous stream transplanters), surface band or directed application, or in-furrow application. If the application method does not move the product to the target root/crown disease zone, the application must be followed with irrigation or cultivation to correctly place the product for disease control.

Transplant water application

Transplants should be adequately watered before transplanting. Ensure transplant water volume is sufficient to thoroughly wet the rootzone. Ensure 125-250 ml transplant water/transplant depending on sandy (125 to 250 ml) or silty soil (175 to 250 ml). For water wheel transplanters, use the plant population to determine the rate per plant.
**Surface band or directed application**

Apply in a 10 to 30 cm (4 to 12 inch) band. Follow application with cultivation or irrigation (1.25 to 2.5 cm (0.5 to 1 inch)) to move REVUS Fungicide to the target disease zone.

**Transplant tray application**

Apply as a foliar spray to the transplants in the transplant tray 24 to 48 hours prior to transplanting. Immediately water the spray off the foliage into the transplant tray soil, not watering past soil saturation. Wait 24 hours to transplant. For this application, the hectare of transplants receives the full recommended hectare rate for transplant tray application, applied as a foliar spray, and then washed into the transplant cubes. Transplant cubes should be on the dry side at the beginning of this treatment.

**Application through irrigation equipment (CHEMIGATION):**

REVUS Fungicide must be applied in a manner that ensures the product is in the root zone. REVUS Fungicide must be in the root zone to provide effective control of target pests. **Do not** begin applications until after crop emergence in direct seeded crops or until roots are present for transplants. **Do not** make applications if soil moisture is below the level required for active plant growth.

This product **MAY ONLY** be applied through lower pressure micro sprinklers and surface laid drip irrigation AND **ONLY** at rates specified on this label. **DO NOT** apply this product through any other type of irrigation system, including permanent sub-surface drip irrigation system (ie drip tape buried beneath more than 15 cm of soil). This product **MAY BE** applied through surface type drip irrigation tape buried up to 15 cm of soil. **DO NOT** apply REVUS FUNGICIDE through any irrigation system which is physically connected to a public water system. REVUS FUNGICIDE may be applied through irrigation systems, which may be **supplied** by a public water system **only if** the water is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

**DO NOT** apply when wind speed causes non-uniform distribution and/or favors drift beyond the area intended for treatment.

**DO NOT** apply by chemigation if the area to be treated is within 100 metres of a residential area or park.

The irrigation system **must provide uniform distribution of treated water.** Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. The system **must be calibrated to uniformly apply the rates specified.** If you have questions about calibration, contact your equipment manufacturers or distributor. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Dilute REVUS FUNGICIDE in the solution tank at a ratio of at least 5 parts of water to one part of REVUS FUNGICIDE. Injecting a larger volume of a more dilute solution will usually allow a more accurate calibration of the metering equipment. Meter the insecticide into the irrigation water during the irrigation cycle.
Operating Instructions for All Labeled Types of Irrigation Systems

1. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, contact the equipment manufacturer.

2. The system must contain a functional check-valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.

4. The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

6. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

7. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump or Venturi injector), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

8. Do not apply when wind speed favors drift beyond the area intended, except in drip chemigation.

9. The pesticide injection pipeline must be on the downstream (field) side of the system filters to avoid potential pesticide off-site contamination or misapplication as a result of the filter backflushing process.

10. Have a dedicated pesticide injection tank for chemigation purposes rather than tank-mixing pesticides with fertilizers or other non-pesticide chemigation products. This reduces the potential for incompatibility issues which could result in misapplication.

11. Make REVUS FUNGICIDE injections into the center of the water pipe for a thorough and quick mix. This can be accomplished with an “injection tube” which should contain a check valve.

Specific LOW PRESSURE MICRO SPRINKLERS AND DRIP IRRIGATION Instructions:

REVUS FUNGICIDE must be applied on the schedule specified in the tabulated crop and pest specific directions for use, not according to the irrigation schedule. The following calibration and application techniques are provided for user reference, but do not constitute a warranty of fitness for application through low-pressure microsprinkler or drip type irrigation equipment. Check with provincial and other applicable regulatory agencies for potential use restrictions before applying any agricultural chemicals through irrigation equipment.

1. Each run of the irrigation system must be calibrated separately to determine the time it takes water to move through the system and to make sure all emitters in the system are putting out the same amount of water.

2. Use only pressure injection or Venturi equipment.

3. Determine the area to be treated in each irrigation run.

4. Measure the output of each of the emitters or drip tubes closest to and farthest from the injection point.

5. For calibration, substitute a concentrated laundry detergent for the REVUS FUNGICIDE mixture in the injector (solution) tank. It is important to use the same volume of soap solution as the planned volume of REVUS FUNGICIDE solution when calibrating the
system. The detergent will bubble as it leaves the emitters. Check the time period over which the bubbles occur for both the closest and farthest emitters. If these times are not within 2 minutes of each other, adjust the dilution ratio and/or the injection rate.

**Step-by-Step Calibration and Application Instructions**

1. Before starting to calibrate, operate the system until all of the emitters are putting out at equal flow rates or until the system is operating at full pressure.

2. Make up an indicator solution of detergent, using the same rate of indicator as the planned volume of REVUS FUNGICIDE to be used in the mix.

3. Set the injector to apply the indicator solution at the injection rate to be used in the actual REVUS FUNGICIDE application.

4. Attach a 30 cm length of flexible tubing over the emitter closest to the injection point, another 30 cm length over the emitter farthest away. Both emitters should be monitored to determine the time intervals that the indicator solution is observed.

5. Begin injecting the indicator solution. Direct the flow from the flexible tubes into a small container. Begin timing when the indicator solution is first detected. Stop timing when the indicator solutions are no longer detected in the container.

6. If the period of detection of the indicator solution between the near and far emitter is within 2 minutes, comparable coverage will be obtained. If they are not, make adjustments by increasing the dilution ratio, i.e. using more than a 5:1 ratio of water to REVUS FUNGICIDE, or adjust the injector to a slower flow rate.

7. Once the system is calibrated, dilute the needed amount of REVUS FUNGICIDE with water and any other tank mix partners in the injection tank at a minimum dilution of 5 parts water to 1 part REVUS FUNGICIDE. Follow the directions for mixing and equipment set up in the **Mixing Instructions** section of this label for complete details.

8. Do not begin to inject REVUS FUNGICIDE into the system until all emitters are producing equal flow rates, or until the system is at full pressure.

9. Inject the REVUS FUNGICIDE solution into the system at the beginning of the irrigation set in 1.5-2.5 cm of irrigation water.

**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.

**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
<table>
<thead>
<tr>
<th>Crop</th>
<th>Disease</th>
<th>Rate mL product/ha (g ai/ha)</th>
<th>Application Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brassica Vegetables</td>
<td>For control of Downy mildew (<em>Peronospora parasitica</em>)</td>
<td>400 - 600 (100 - 150)</td>
<td>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 any Brassica crop listed on that label. Follow the most restrictive use directions of either label.</td>
</tr>
<tr>
<td>Leafy Greens subgroup: Broccoli; Chinese cabbage; Collards; Kale; Mizuna; Mustard greens; Mustard spinach; Rape greens</td>
<td></td>
<td></td>
<td>Specific Use Restrictions: Do not make more than 4 applications per season of REVUS Fungicide. Do not apply within 1 day of harvest (1 day PHI).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Crop</th>
<th>Disease</th>
<th>Rate mL product/ha (g ai/ha)</th>
<th>Application Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulb Vegetables</td>
<td>For control of Downy mildew (<em>Peronospora destructor</em>)</td>
<td>400 (100)</td>
<td>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. The use of a non-ionic adjuvant (0.25% v/v) or mineral oil at 1.0% 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 all dry bulb onions. Follow the most restrictive use directions of either label.</td>
</tr>
<tr>
<td>Dry Bulb: Onion, bulb, Garlic, Shallot</td>
<td></td>
<td></td>
<td>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).</td>
</tr>
<tr>
<td>Crop</td>
<td>Disease</td>
<td>Rate mL product/ha (g ai/ha)</td>
<td>Application Directions</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Cucurbits*           | For suppression of Downy mildew (Pseudoperonospora cubensis)            | 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 must be tank mixed with BRAVO 500 Agricultural Fungicide, for use on field cucurbits. Follow the most restrictive use directions of either label.  
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. |
| Cucurbits*           | For suppression of Phytophthora blight (Phytophthora capsici) – foliar phase | 600 (150)                    | Begin foliar applications prior to disease development and continue throughout the season on a 7- to 10-day interval. Make no more than one application before switching to another effective non-Group 40 fungicide. Apply REVUS as a foliar spray beginning at the first sign of disease or based on local recommendations. For best results, use sufficient water volume to provide thorough coverage.                                                                                           |
| Cucurbits*           | For suppression of Phytophthora root and crown rot (Phytophthora capsici) - soil phase |                              | For suppression of the soil phase of Phytophthora root and crown rot, REVUS Fungicide must be applied in a manner that ensures the product solution adequately saturates the target crop root/crown zone via in-furrow and drip (trickle) chemigation). When applied to the root/crown zone before, during, or soon after sowing once roots are present or transplanting the crop, REVUS Fungicide will suppress Phytophthora root and crown rot that limits crop stand establishment. Subsequent applications can be made via in furrow and trickle drip irrigation. Make no more than one application before switching to another effective non-Group 40 fungicide. |

* Cucurbit Vegetables (Crop Group 9): Chinese waxgourd; citron melon; cucumber; gherkin; gourd, edible; Momordica spp.; muskmelon; cantaloupe; honeydew melon; pumpkin; squash, summer; squash, winter; watermelon; zucchini

**Specific Use Restrictions:**
Do not make more than four applications per season of REVUS Fungicide foliar or soil.
May be applied on the day of harvest (0 day PHI) for all cucurbit crops.
**Application Directions**

<table>
<thead>
<tr>
<th>Crop</th>
<th>Disease</th>
<th>Rate mL product/ha (g ai/ha)</th>
<th>Application Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td><em><em>Fruiting Vegetables</em> (except tomatoes, see TOMATO section):</em>* Including cultivars, varieties, and/or hybrids of these</td>
<td>For suppression of Phytophthora blight <em>(Phytophthora capsici)</em></td>
<td>600 (150)</td>
<td>Make one application of REVUS Fungicide as a drench, immediately before transplant to the field.</td>
</tr>
<tr>
<td>Greenhouse Bell Peppers (For use in greenhouse only - not for transplant to the field)</td>
<td>For suppression of Phytophthora blight <em>(Phytophthora capsici)</em> – foliar phase</td>
<td>600 (150)</td>
<td>Begin applications prior to disease development and continue throughout the season on a 7- to 10-day interval. Make no more than one application before switching to another effective non-Group 40 fungicide. Apply REVUS as a foliar spray beginning at the first sign of disease or based on local recommendations. For best results, use sufficient water volume to provide thorough coverage.</td>
</tr>
<tr>
<td>For suppression of Phytophthora root and crown rot <em>(Phytophthora capsici)</em> - soil phase</td>
<td>600 (150)</td>
<td>For suppression of the soil phase of Phytophthora root and crown rot, REVUS Fungicide must be applied in a manner that ensures the product solution adequately saturates the target crop root/crown zone via in-furrow or drip (trickle) chemigation). When applied to the root/crown zone before, during, or soon after sowing once roots are present or transplanting the crop, REVUS Fungicide will suppress Phytophthora root and crown rot that limits crop stand establishment. Subsequent applications can be made via in furrow and trickle drip irrigation. Make no more than one application before switching to another effective non-Group 40 fungicide.</td>
<td></td>
</tr>
</tbody>
</table>

*Fruiting Vegetables (Crop Group 8-09, except types of tomatoes):* African eggplant; eggplant; garden huckleberry; goji berry; groundcherry; martynia; okra; pea eggplant; pepino; pepper, bell; pepper, nonbell; scarlet eggplant; sunberry

* Drenching Guidelines:*

Number of plants/ha = 34,100

Volume of prepared REVUS Fungicide solution per plant = 150 to 200 mL

Total volume of solution/ha = 5,115 to 6,800 L

**Specific Use Restrictions:**

Do not make more than four applications per season of REVUS Fungicide foliar or soil.

Do not apply within 1 day of harvest (1 day PHI).

**Rate Conversion Chart for Chemigation**

<table>
<thead>
<tr>
<th>Rate mL product/ha</th>
<th>Rate in mL product /100 m row for specified row spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>90</td>
</tr>
<tr>
<td>400</td>
<td>3.6</td>
</tr>
<tr>
<td>600</td>
<td>5.4</td>
</tr>
<tr>
<td>Crop</td>
<td>Disease</td>
</tr>
<tr>
<td>------</td>
<td>---------</td>
</tr>
</tbody>
</table>
| Tomatoes  
Field Tomato  
Tomatillo  
Currant tomato  
Greenhouse Tomatoes (For use in greenhouse only - not for transplant to the field) | For control of Late blight (*Phytophthora infestans*) | 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.  
For greenhouse water volumes, refer to the Greenhouse Water Volumes chart.  
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.  
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. |
| | | | |
| | For suppression of Phytophthora blight (*Phytophthora capsici*) – foliar phase | 600 (150) | Begin applications prior to disease development and continue throughout the season on a 7- to 10-day interval. Make no more than one application before switching to another effective non-Group 40 fungicide. Apply REVUS as a foliar spray beginning at the first sign of disease or based on local recommendations. For best results, use sufficient water volume to provide thorough coverage. |
| | For suppression of Phytophthora root and crown rot (*Phytophthora capsici*) - soil phase | 600 (150) | For suppression of the soil phase of Phytophthora root and crown rot, REVUS Fungicide must be applied in a manner that ensures the product solution adequately saturates the target crop root/crown zone via in-furrow or drip (trickle) chemigation). When applied to the root/crown zone before, during, or soon after sowing once roots are present or transplanting the crop, REVUS Fungicide will suppress Phytophthora root and crown rot that limits crop stand establishment. Subsequent applications can be made via furrow and trickle drip irrigation. Make no more than one application before switching to another effective non-Group 40 fungicide |
**Specific Use Restrictions:**
Do not make more than four applications per season of REVUS Fungicide foliar or soil.
Do not apply within 1 day of harvest (1 day PHI).

**Rate Conversion Chart for Chemigation**

<table>
<thead>
<tr>
<th>Rate mL product /ha</th>
<th>Rate in mL product /100 m row for specified row spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Row Spacing (cm)</td>
</tr>
<tr>
<td></td>
<td>90</td>
</tr>
<tr>
<td>400</td>
<td>3.6</td>
</tr>
<tr>
<td>600</td>
<td>5.4</td>
</tr>
</tbody>
</table>

**Crop** | **Disease** | **Rate mL product/ha (g ai/ha)** | **Application Directions**
---|---|---|---
Grapes | For control of downy mildew (*Plasmopora viticola*) | 500 (125) | 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.

**Leafy Vegetables**
- Field lettuce, leaf and head lettuce
- Spinach
- Greenhouse Lettuce (For use in greenhouse only - not for transplant to the field)

**Crop** | **Disease** | **Rate mL product/ha (g ai/ha)** | **Application Directions**
---|---|---|---
Field lettuce, leaf and head lettuce | For control of Downy mildew (*Bremia lactucae*) | 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

<table>
<thead>
<tr>
<th>Crop</th>
<th>Size</th>
<th>Height (m)</th>
<th>Volume per unit area (L/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tomato</td>
<td>Small</td>
<td>0.6</td>
<td>285</td>
</tr>
<tr>
<td></td>
<td>Medium</td>
<td>1.2</td>
<td>627</td>
</tr>
<tr>
<td></td>
<td>Large</td>
<td>2.7</td>
<td>1200-1400</td>
</tr>
</tbody>
</table>

REVUS Rate Conversion Chart

<table>
<thead>
<tr>
<th>mL Product/ha</th>
<th>g ai/ha</th>
<th>Treated ha/1 L Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>100</td>
<td>2.5</td>
</tr>
<tr>
<td>500</td>
<td>125</td>
<td>2.0</td>
</tr>
<tr>
<td>600</td>
<td>150</td>
<td>1.7</td>
</tr>
</tbody>
</table>

Greenhouse Cucumber – Greenhouse use only, not for transplant to the field.

<table>
<thead>
<tr>
<th>DISEASE</th>
<th>PRODUCT RATE mL/ha</th>
<th>APPLICATION DIRECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>For suppression of Downy mildew (Pseudoperonospora cubensis) (Greenhouse use only - not for transplant to the field)</td>
<td>400 ml/ha of REVUS with 1.5L/ha of PREVICUR N Fungicide</td>
<td>Apply as a resistance management tool in a tank mix as a foliar application when plants begin to vine or when disease threatens. DO NOT make more than one (1) application per crop cycle. DO NOT apply within 2 days of harvest (2-day PHI) DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters. DO NOT apply by chemigation. Refer to other sections of this label for additional application instructions and/or use precautions. The use of a non-ionic adjuvant (0.125% 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.</td>
</tr>
</tbody>
</table>
Crop Disease Rate mL product/ha (g ai/ha) Application Directions

Potatoes For control of Late blight (Phytophthora infestans) 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 of REVUS Fungicide. DO NOT apply more than 600 g mandipropamid/ ha/year. If REVUS Fungicide was used as a seed piece treatment, apply a fungicide belonging to a group other than Group 40 as the first foliar application of the season, Refer to chart under the SEED TREATMENT APPLICATIONS section for more information on the maximum number of foliar applications allowed following the use of REVUS Fungicide as potato seed piece treatment. Do not apply within 14 days of harvest (14 day PHI).

SEED TREATMENT APPLICATIONS

POTATO SEED PIECE TREATMENT

REVUS Fungicide is to be used as an integral part of a potato disease management strategy. This strategy includes the use of high quality seed and the incorporation of cultural techniques such as: crop rotation and optimal harvest time for tubers to minimize disease development, proper handling of tubers to avoid unnecessary bruising, management and sanitation of equipment and storage areas to reduce inoculum including avoidance of storage conditions that lead to free moisture or condensation and application of the seed piece treatment to clean seed pieces with a properly calibrated application system.

Apply using standard seed treatment equipment that provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Add sufficient water to allow for a slurry volume that will allow for sufficient coverage. Follow the manufacturer's application instructions for the seed treatment equipment being used.

NOTE: Treatment of highly mechanically scarred, excessively sprouted, bruised, or damaged seed pieces, or seed pieces known to be of low vigour, “physiologically old” (that has multiple sprouts) and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed piece and seedling vigour. Treat a small quantity of seed pieces using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of seed pieces before committing the total seed lot to a selected seed treatment. Due to seed piece quality and seed piece storage conditions beyond the control of Syngenta Canada Inc., no claims are made to guarantee the germination of potato seed pieces.
<table>
<thead>
<tr>
<th>Crop</th>
<th>Disease</th>
<th>Rate mL product/100 kg seed (g ai/100 kg seed)</th>
<th>Application Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potatoes (seed piece treatment)</td>
<td>For preventative control of seed borne late blight (Phytophthora) \textit{infestans})</td>
<td>13 – 26 (3.25 – 6.5)</td>
<td>Shake or mix well before using. DO NOT use open treating equipment when treating potato seed pieces. This product must be applied using a closed treatment system. Uneven or incomplete seed coverage may not give the desired level of disease control. Follow the manufacturer’s application instructions for the seed treatment equipment being used. Use the higher rate when conditions favour heavy infection pressure. REVUS Fungicide will not cure pre-existing infection in potato seed pieces. REVUS Fungicide used as a seed piece treatment will not prevent late blight infection of plants or tubers after germination. If following a seed treatment application of REVUS Fungicide with foliar applications of this product, apply a fungicide belonging to a group other than Group 40 as the first foliar application of the season. DO NOT apply more than 600 g mandipropamid/ha/year. Refer to chart below for more information on the maximum number of foliar applications allowed following the use of REVUS Fungicide as potato seed piece treatment.</td>
</tr>
</tbody>
</table>
MAXIMUM FOLIAR APPLICATIONS OF REVUS FUNGICIDE PERMITTED AFTER USE OF REVUS FUNGICIDE AS A POTATO SEED PIECE TREATMENT*

<table>
<thead>
<tr>
<th>Seeding Rate (x100 kg/ha)</th>
<th>Seed Treatment Rate (mL/100 kg seed)</th>
<th>Seed Treatment Rate (g ai/100 kg seed)</th>
<th>Foliar Rate (mL/ha)</th>
<th>Foliar Rate (g ai/ha)</th>
<th>Number of Foliar Applications*</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤23</td>
<td>13 - 26</td>
<td>3.25 – 6.5</td>
<td>400</td>
<td>100</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>100</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>600</td>
<td>150</td>
<td>3</td>
</tr>
<tr>
<td>24 - 30</td>
<td>13</td>
<td>3.25</td>
<td>400</td>
<td>100</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>600</td>
<td>150</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>26</td>
<td>6.5</td>
<td>400</td>
<td>100</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>600</td>
<td>150</td>
<td>2</td>
</tr>
<tr>
<td>31 - 40</td>
<td>13</td>
<td>3.25</td>
<td>400</td>
<td>100</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>600</td>
<td>150</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>26</td>
<td>6.5</td>
<td>400</td>
<td>100</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>600</td>
<td>150</td>
<td>2</td>
</tr>
</tbody>
</table>

*If REVUS Fungicide was used as potato seed piece treatment apply a fungicide belonging to a group other than Group 40 as the first foliar application of the season.
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

<table>
<thead>
<tr>
<th>DISEASE CONTROLLED</th>
<th>PRODUCT RATE mL/ha (g ai/ha)</th>
<th>APPLICATION DIRECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Downy Mildew (Pseudoperonospora humuli)</td>
<td>600 (150)</td>
<td>Post-emergent foliar broadcast treatment by ground or air. Apply in sufficient water volume to provide thorough coverage. Prior to disease development and continue throughout the season on a 7-10 day interval. Use the shorter interval under high pressure or when conditions are conducive to disease. The use of a non-ionic adjuvant (0.25% v/v) is recommended.</td>
</tr>
</tbody>
</table>

**Special Use Restrictions:**
1. Do not apply within 7 days of harvest (7-day PHI)
2. Maximum of 3 applications with no more than 2 consecutive applications. No more than 50% of the total number of sprays should be REVUS.
3. Do not apply more than 1.8 L of product/ha per season.
### Ginseng

<table>
<thead>
<tr>
<th>DISEASE CONTROLLED</th>
<th>PRODUCT RATE mL/ha (g ai/ha)</th>
<th>APPLICATION DIRECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phytophthora blight and root rot (<em>Phytophthora cactorum</em>)</td>
<td>583 (146)</td>
<td>Foliar or drench application by ground equipment only. Apply in a spray volume of 470-1400 L/ha. Prior to disease development and continue throughout the season on a 7-day interval. Follow resistance management guidelines. The use of a non-ionic adjuvant (0.25% v/v) is recommended.</td>
</tr>
</tbody>
</table>

**Special Use Restrictions:**
1. Do not apply within 3 days of harvest (3-day PHI)
2. Do not apply by air.
3. Maximum of 4 applications of REVUS per year.

### Basil (field and greenhouse)

<table>
<thead>
<tr>
<th>DISEASE CONTROLLED</th>
<th>PRODUCT RATE mL/ha (g ai/ha)</th>
<th>APPLICATION DIRECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Downy mildew (<em>Peronospora belbahrii</em>)</td>
<td>583 (146)</td>
<td>Foliar application using ground equipment only. Apply in a spray volume of 95 – 280 L/ha. Prior to disease development and continue throughout the season, allowing at least a 7 day interval. Follow resistance management guidelines. The use of a non-ionic adjuvant (0.25% v/v) is recommended.</td>
</tr>
</tbody>
</table>

**Special Use Restrictions:**
1. Do not apply within 1 day of harvest (1-day PHI)
2. Maximum of 4 applications applications of REVUS per year.
3. Do not apply by air or chemigation.
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 that is effective on the target pathogen when such use is permitted.

---

<table>
<thead>
<tr>
<th>Edible-Podded Beans*</th>
<th>PRODUCT RATE</th>
<th>APPLICATION DIRECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DISEASE CONTROLLED</strong></td>
<td><strong>mL/ha (g ai/ha)</strong></td>
<td><strong>APPLICATION DIRECTIONS</strong></td>
</tr>
<tr>
<td>Phytophthora blight (Phytophthora capsici)</td>
<td>600 (150)</td>
<td>Ground or aerial application. For best results, sufficient water volume must be used to provide thorough coverage. Use a minimum of 100 L/ha of water for ground application, 45 L/ha of water for aerial application. Prior to disease development and continue throughout the season on a 7-10 day interval. Follow resistance management guidelines. In the absence of an alternative fungicide registered for the specific disease to be treated, for resistance management purposes, the maximum number of applications is limited to one. The use of a non-ionic adjuvant (0.25% v/v) is recommended.</td>
</tr>
</tbody>
</table>


**Special Use Restrictions:**
1. Do not apply within 1 day of harvest (1-day PHI)
2. Maximum of 4 applications applications of REVUS Fungicide per year. Do not make more than 2 sequential applications of REVUS Fungicide per season.
3. Do not apply by chemigation.
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 REVUS Fungicide is suspected.

If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, to which pathogen resistance has not developed, 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 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.

BRAVO® and REVUS® are trademarks of a Syngenta Group Company.