

GROUP	40	FUNGICIDE
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## ORONDIS™ ULTRA A Fungicide

### SUSPENSION

### COMMERCIAL

For control or suppression of certain root and foliar diseases in vegetable crops.

#### 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: **32145**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: 250 mL to Bulk

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

Label

## NOTICE TO USER

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

## FIRST AID

**IN CASE OF POISONING**, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If swallowed**, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing**, take off contaminated clothing. Rinse skin **IMMEDIATELY** with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled**, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for 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. 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.

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

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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. 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.

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#### **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.

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



## GENERAL INFORMATION

ORONDIS™ ULTRA A 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, and edible-podded beans.

## DIRECTIONS FOR USE

### Rotational Crop Restrictions

Do not plant any crop which is not registered for use with ORONDIS ULTRA A 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.

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

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

## APPLICATION PROCEDURES

**DO NOT APPLY BY AIRCRAFT.**

## 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 ORONDIS ULTRA A 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 ORONDIS ULTRA A 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 ORONDIS ULTRA A 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 ORONDIS ULTRA A 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):**

ORONDIS ULTRA A Fungicide must be applied in a manner that ensures the product is in the root zone. ORONDIS ULTRA A 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 ORONDIS ULTRA A FUNGICIDE through any irrigation system which is physically connected to a public water system. ORONDIS ULTRA A 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 ORONDIS ULTRA A FUNGICIDE in the solution tank at a ratio of at least 5 parts of water to one part of ORONDIS ULTRA A 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 ORONDIS ULTRA A 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:**

ORONDIS ULTRA A 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 ORONDIS ULTRA A FUNGICIDE mixture in the injector (solution) tank. It is important to use the same volume of soap solution as the planned volume of ORONDIS ULTRA A 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 ORONDIS ULTRA A 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 ORONDIS ULTRA A 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, ie using more than a 5:1 ratio of water to ORONDIS ULTRA A FUNGICIDE, or adjust the injector to a slower flow rate.
7. Once the system is calibrated, dilute the needed amount of ORONDIS ULTRA A FUNGICIDE with water and any other tank mix partners in the injection tank at a minimum dilution of 5 parts water to 1 part ORONDIS ULTRA A 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 ORONDIS ULTRA A FUNGICIDE into the system until all emitters are

producing equal flow rates, or until the system is at full pressure.

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

## 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 ORONDIS ULTRA A Fungicide to the tank.
3. Continue agitation while adding the remainder of the water.
4. Begin application of the solution after ORONDIS ULTRA A 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:** ORONDIS ULTRA A 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 ORONDIS ULTRA A 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><b>Brassica Vegetables</b>  <b>Brassica Head and Stem subgroup:</b> Broccoli; Chinese broccoli (gai lon); Brussels sprouts; Cabbage; Chinese cabbage (napa); Chinese mustard cabbage (gai choy); Cauliflower; Cavalo broccoli; Kohlrabi</p> <p><b>Leafy Greens subgroup:</b> Broccoli rabb; Chinese cabbage; Collards; Kale; Mizuna; Mustard greens; Mustard spinach; Rape greens</p> <p>Including all cultivars and/or hybrids of these</p>	For control of Downy mildew ( <i>Peronospora parasitica</i> )	400 - 600 (100 - 150)	<p>ORONDIS ULTRA A 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>ORONDIS ULTRA A 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><b>Specific Use Restrictions:</b>  Do not make more than 4 applications per season of ORONDIS ULTRA A Fungicide.  Do not apply within 1 day of harvest (1 day PHI).  Do not apply by aircraft.</p>			

Crop	Disease	Rate mL product/ha (g ai/ha)	Application Directions
<p><b>Bulb Vegetables</b>  <b>Dry Bulb:</b> Onion, bulb, Garlic, Shallot</p>	For control of Downy mildew ( <i>Peronospora destructor</i> )	400 (100)	<p>ORONDIS ULTRA A 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>ORONDIS ULTRA A 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><b>Specific Use Restrictions:</b>  Do not make more than 4 applications per season of ORONDIS ULTRA A Fungicide.  Do not apply within 7 day of harvest (7 day PHI).  Do not apply by aircraft.</p>			

Crop	Disease	Rate mL product/ha (g ai/ha)	Application Directions
<b>Cucurbits*</b> Including all cultivars and/or hybrids of these	For suppression of Downy mildew ( <i>Pseudo-peronospora cubensis</i> )	400 - 600 (100 - 150)	<p>ORONDIS ULTRA A 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>ORONDIS ULTRA A 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 ORONDIS ULTRA A Fungicide to greenhouse-grown seedlings to be transplanted in the field, until after they have been transplanted out.</p>
	For suppression of Phytophthora blight ( <i>Phytophthora capsici</i> ) – foliar phase	600 (150)	<p>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 ORONDIS ULTRA A 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.</p>
	For suppression of Phytophthora root and crown rot ( <i>Phytophthora capsici</i> ) - soil phase		<p>For suppression of the soil phase of Phytophthora root and crown rot, ORONDIS ULTRA A 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, ORONDIS ULTRA A 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.</p>
<p><b>* Cucurbit Vegetables (Crop Group 9):</b> Chinese waxgourd; citron melon; cucumber; gherkin; gourd, edible; <i>Momordica</i> spp.; muskmelon; cantaloupe; honeydew melon; pumpkin; squash, summer; squash, winter; watermelon; zucchini</p>			
<p><b>Specific Use Restrictions:</b>            Do not make more than four applications per season of ORONDIS ULTRA A Fungicide.            May be applied on the day of harvest (0 day PHI) for all cucurbit crops.            Do not apply by aircraft.</p>			

Crop	Disease	Rate mL product/ha (g ai/ha)	Application Directions
<b>Fruiting Vegetables*</b> <b>(except tomatoes, see TOMATO section):</b> Including cultivars, varieties, and/or hybrids of these	For suppression of Phytophthora blight ( <i>Phytophthora capsici</i> )	600 (150)	Make one application of ORONDIS ULTRA A Fungicide as a drench, immediately before transplant to the field.
Greenhouse Bell Peppers (For use in greenhouse only - not for transplant to the field)	For suppression of Phytophthora blight ( <i>Phytophthora capsici</i> ) – 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 ORONDIS ULTRA A 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 ( <i>Phytophthora capsici</i> ) - soil phase		For suppression of the soil phase of Phytophthora root and crown rot, ORONDIS ULTRA A 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, ORONDIS ULTRA A 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
<b>*Fruiting Vegetables (Crop Group 8-09, except types of tomatoes):</b> African eggplant; eggplant; garden huckleberry; goji berry; groundcherry; martynia; okra; pea eggplant; pepino; pepper, bell; pepper, nonbell; scarlet eggplant; sunberry			
<b>* Drenching Guidelines:</b> Number of plants/ha = 34,100 Volume of prepared ORONDIS ULTRA A 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 ORONDIS ULTRA A Fungicide foliar or soil.

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

Do not apply by aircraft

**Rate Conversion Chart for Chemigation**

Rate mL product /ha	Rate in mL product /100 m row for specified row spacing							
	Row Spacing (cm)							
	90	120	150	180	210	240	270	300
400	3.6	4.8	6	7.2	8.4	9.6	10.8	12
600	5.4	7.2	9	10.8	12.6	14.4	16.2	18



Crop	Disease	Rate mL product/ha (g ai/ha)	Application Directions
<b>Tomatoes</b> Field Tomato Tomatillo Currant tomato Greenhouse Tomatoes (For use in greenhouse only - not for transplant to the field)	For control of Late blight ( <i>Phytophthora infestans</i> )	400 - 600 (100 - 150)	<p>ORONDIS ULTRA A 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>For greenhouse water volumes, refer to the Greenhouse Water Volumes chart.</p> <p>ORONDIS ULTRA A 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 ORONDIS ULTRA A Fungicide to greenhouse-grown seedlings to be transplanted in the field, until after they have been transplanted out.</p>
	For suppression of Phytophthora blight ( <i>Phytophthora capsici</i> ) – foliar phase	600 (150)	<p>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 ORONDIS ULTRA A 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.</p>
	For suppression of Phytophthora root and crown rot ( <i>Phytophthora capsici</i> ) - soil phase	600 (150)	<p>For suppression of the soil phase of Phytophthora root and crown rot, ORONDIS ULTRA A 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, ORONDIS ULTRA A 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</p>

**Specific Use Restrictions:**

Do not make more than four applications per season of ORONDIS ULTRA A Fungicide foliar or soil.

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

Do not apply by aircraft.

**Rate Conversion Chart for Chemigation**

Rate mL product /ha	Rate in mL product /100 m row for specified row spacing							
	Row Spacing (cm)							
	90	120	150	180	210	240	270	300
400	3.6	4.8	6	7.2	8.4	9.6	10.8	12
600	5.4	7.2	9	10.8	12.6	14.4	16.2	18

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)	<p>ORONDIS ULTRA A 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>ORONDIS ULTRA A Fungicide may be tank mixed with BRAVO 500 Agricultural Fungicide for use on potatoes. Follow the most restrictive use directions of either label.</p>

**Specific Use Restrictions:**

Do not make more than four applications per season on ORONDIS ULTRA A Fungicide.

Do not apply within 14 days of harvest (14 day PHI).

Do not apply by aircraft.

Crop	Disease	Rate mL product/ha (g ai/ha)	Application Directions
<b>Leafy Vegetables</b> 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)	ORONDIS ULTRA A 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 ORONDIS ULTRA A Fungicide to greenhouse-grown seedlings to be transplanted in the field, until after they have been transplanted out.
<b>Specific Use Restrictions:</b> Do not make more than four applications per season of ORONDIS ULTRA A 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). Do not apply by aircraft.			

#### 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

#### ORONDIS ULTRA A 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

<b>Greenhouse Cucumber – Greenhouse use only, not for transplant to the field.</b>		
<b>DISEASE</b>	<b>PRODUCT RATE mL/ha</b>	<b>APPLICATION DIRECTIONS</b>
<p>For suppression of Downy mildew (<i>Pseudoperonospora cubensis</i>)</p> <p>(Greenhouse use only - not for transplant to the field)</p>	<p>400 mL/ha of ORONDIS ULTRA A with 1.5 L/ha of PREVICUR N Fungicide</p>	<p>Apply as a resistance management tool in a tank mix as a foliar application when plants begin to vine or when disease threatens.</p> <p>DO NOT make more than one (1) application per crop cycle.</p> <p>DO NOT apply within 2 days of harvest (2-day PHI)</p> <p>DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.</p> <p>DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.</p> <p>DO NOT apply by chemigation.</p> <p>Refer to other sections of this label for additional application instructions and/or use precautions.</p> <p>The use of a non-ionic adjuvant (0.125% v/v) is recommended.</p> <p>For Resistance Management purposes, do not apply ORONDIS ULTRA A Fungicide to greenhouse-grown seedlings to be transplanted in the field, until after they have been transplanted out.</p>

## 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.

<b>Edible-Podded Beans*</b>		
<b>DISEASE CONTROLLED</b>	<b>PRODUCT RATE mL/ha (g ai/ha)</b>	<b>APPLICATION DIRECTIONS</b>
Phytophthora blight ( <i>Phytophthora capsici</i> )	600 (150)	<p>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.</p> <p>Prior to disease development and continue throughout the season on a 7-10 day interval.</p> <p>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.</p> <p>The use of a non-ionic adjuvant (0.25% v/v) is recommended.</p>
Complete list of succulent cultivar of edible-podded bean: edible-podded runner beans, edible-podded snap beans, edible-podded wax beans, edible-podded moth beans, edible-podded yardlong beans, edible-podded jackbeans and edible-podded sword beans.		
<b>Special Use Restrictions:</b> <ol style="list-style-type: none"> <li>1. Do not apply within 1 day of harvest (1-day PHI)</li> <li>2. Maximum of 4 applications applications of ORONDIS ULTRA A Fungicide per year. Do not make more than 2 sequential applications of ORONDIS ULTRA A Fungicide per season.</li> <li>3. Do not apply by chemigation.</li> <li>4. Do not apply by aircraft.</li> </ol>		

<b>Basil (field and greenhouse)</b>		
<b>DISEASE CONTROLLED</b>	<b>PRODUCT RATE mL/ha (g ai/ha)</b>	<b>APPLICATION DIRECTIONS</b>
Downy mildew ( <i>Peronospora belbahrii</i> )	583 (146)	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.
<b>Special Use Restrictions:</b>		
<ol style="list-style-type: none"> <li>1. Do not apply within 1 day of harvest (1-day PHI)</li> <li>2. Maximum of 4 applications applications of ORONDIS ULTRA A per year.</li> <li>3. Do not apply by air or chemigation.</li> </ol>		

### **Resistance Management Recommendations**

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

Do not exceed the total number of applications of ORONDIS ULTRA A Fungicide per season per crop.

Do not apply sequential treatments of ORONDIS ULTRA A 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.

Use tank mixtures with fungicide 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.

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](http://www.syngenta.ca).

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