

PMRA Approved Label
2021-6088
2023-02-10

GROUP	49	40	FUNGICIDE
--------------	-----------	-----------	------------------

ORONDIS® Ultra Fungicide

SUSPENSION CONCENTRATE

COMMERCIAL

FOR USE ON LABELLED CROPS

ACTIVE INGREDIENTS:

Oxathiapiprolin30 g/L
Mandipropamid 250 g/L

Contains 1,2-benzisothiazolin-3-one at 0.044% and 2-bromo-2-nitropropane-1,3-diol at 0.027% OR 1,2-benzisothiazolin-3-one at 0.00133% and 2-bromo-2-nitropropane-1,3-diol at 0.027% PLUS 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00091% AND 2-methyl-4-isothiazolin-3-one at 0.00030% as preservatives.

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

REGISTRATION NO.: **32805**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **0.5 L – 1500 L**

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

Label

1.0 NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

2.0 FIRST AID

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

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

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

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

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

4.0 PRECAUTIONS

Harmful if swallowed. KEEP OUT OF REACH OF CHILDREN.

Keep unused product in original container tightly closed, locked up and away from food and feed.

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

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

DO NOT apply using handheld mist blower or handheld fogging equipment.

If this pest control product is to be used on a commodity that may be exported to other countries

in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during all job activities. Gloves are not required during application within a closed cab or cockpit.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

All users should wash hands after using ORONDIS® Ultra Fungicide for example before eating, drinking, smoking, using the toilet or using a handheld device.

6.0 ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms.

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.

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

7.0 STORAGE

Store this product away from food or feed. Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area away from feed and foodstuffs, and out of the reach of children and animals.

8.0 DISPOSAL

For information on disposal of unused, unwanted product, contact the manufacturer or the

provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

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 Returnable Containers

Do not reuse this container for any purpose. For disposal, the empty container may be returned to the point of purchase (distributor/dealer).

For Refillable Containers

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

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

GROUP	49	40	FUNGICIDE
-------	----	----	-----------

ORONDIS® Ultra Fungicide

SUSPENSION CONCENTRATE

COMMERCIAL

FOR USE ON LABELLED CROPS

ACTIVE INGREDIENTS:

Oxathiapiprolin30 g/L
Mandipropamid 250 g/L

Contains 1,2-benzisothiazolin-3-one at 0.044% and 2-bromo-2-nitropropane-1,3-diol at 0.027% OR 1,2-benzisothiazolin-3-one at 0.00133% and 2-bromo-2-nitropropane-1,3-diol at 0.027% PLUS 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00091% AND 2-methyl-4-isothiazolin-3-one at 0.00030% as preservatives.

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

REGISTRATION NO.: **32805**
PEST CONTROL PRODUCTS ACT

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

Pamphlet

Table of Contents

	<u>Section Number</u>
NOTICE TO USER	1.0
FIRST AID	2.0
TOXICOLOGICAL INFORMATION	3.0
PRECAUTIONS.....	4.0
PERSONAL PROTECTIVE EQUIPMENT (PPE)	5.0
ENVIRONMENTAL PRECAUTIONS	6.0
STORAGE	7.0
DISPOSAL	8.0
PRODUCT INFORMATION	9.0
Cultivar/Varietal Crop Safety	9.1
General Use Precautions	9.2
DIRECTIONS FOR USE	10.0
General Information	10.1
Greenhouse Application	10.2
Transplant Application.....	10.3
Ground Application	10.4
General Precautions	10.4.1
Mixing Instructions	10.4.2
Spraying Instructions	10.4.3
Equipment Clean-Up.....	10.4.4
Airblast Application.....	10.5
Spraying Instructions	10.5.1
Aerial Application	10.6
General Precautions	10.6.1
Use Precautions.....	10.6.2
Operator Precautions	10.6.3
Pilot Precautions.....	10.6.4
Product Specific Precautions	10.6.5
Mixing Instructions	10.6.6
Spraying Instructions	10.6.7
Equipment Cleanup	10.6.8
Rotational Crop Restrictions	10.7

CROP USE DIRECTIONS	11.0
Tank Mixtures	11.1
Use Directions – Potatoes	11.2
Use Directions – Bulb Vegetables	11.3
Use Directions – Leafy Greens - Crop Group 4-13A	11.4
Use Directions – Brassica Leafy Greens - Crop Group 4-13B	11.5
Use Directions – Brassica Head and Stem Vegetables - Crop Group 5-13	11.6
Use Directions – Fruiting Vegetables	11.7
Use Directions – Cucurbit Vegetables – Crop Group 9	11.8
Use Directions – Greenhouse Tomatoes and Cucumbers	11.9
MINOR USES	12.0
Use Directions – Basil	12.1
Use Directions – Hops	12.2
RESISTANCE MANAGEMENT	13.0
Application Limitations and Pre-harvest Intervals	13.1

1.0 NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

2.0 FIRST AID

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

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

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

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

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

4.0 PRECAUTIONS

Harmful if swallowed. KEEP OUT OF REACH OF CHILDREN.

Keep unused product in original container tightly closed, locked up and away from food and feed.

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

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

DO NOT apply using handheld mist blower or handheld fogging equipment.

If this pest control product is to be used on a commodity that may be exported to other countries

in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during all job activities. Gloves are not required during application within a closed cab or cockpit.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

All users should wash hands after using ORONDIS® Ultra Fungicide for example before eating, drinking, smoking, using the toilet or using a handheld device.

6.0 ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms.

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.

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

7.0 STORAGE

Store this product away from food or feed. Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area away from feed and foodstuffs, and out of the reach of children and animals.

8.0 DISPOSAL

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

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 Returnable Containers

Do not reuse this container for any purpose. For disposal, the empty container may be returned to the point of purchase (distributor/dealer).

For Refillable Containers

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

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

9.0 PRODUCT INFORMATION

ORONDIS Ultra Fungicide is active against oomycete diseases listed on this label and has preventive and antispore activity. ORONDIS Ultra Fungicide must be applied in a regularly scheduled protective spray program in rotation with other fungicides. See directions below for specific crop/disease recommendations.

Do not follow transplant applications of ORONDIS Ultra Fungicide with foliar applications of oxathiapiprolin-containing fungicides. Different application methods (foliar and transplant) must not be combined when protecting a crop during a growing season.

ORONDIS Ultra Fungicide penetrates into plant tissues and is rainfast within 1 hour after application or when dry.

ORONDIS Ultra Fungicide can be applied with specified ground and aerial equipment using sufficient water to obtain thorough coverage of plants.

9.1 Cultivar/Varietal Crop Safety

Not all crops within a crop group, and not all varieties, cultivars or hybrids of crops, have been individually tested for crop safety. It is not possible to evaluate for crop safety all applications of ORONDIS Ultra Fungicide on all crops within a crop group, on all varieties, cultivars, or hybrids of those crops, or under all environmental conditions and growing circumstances. To test for crop safety, apply the product in accordance with the label instructions to a small area of the target crop to ensure that a phytotoxic response will not occur, especially where the application is a new use of the product by the applicator.

9.2 General Use Precautions

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

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

Follow directions regarding the maximum number of successive applications for each use outlined in the Use Directions Tables.

10.0 DIRECTIONS FOR USE

10.1 General Information

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

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

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-87-SYNGENTA (1-877-964-3682) for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank-mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

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.

10.2 Greenhouse Application

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

10.3 Transplant Application

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.

10.4 Ground Application

10.4.1 General Precautions

It is important to check the physical compatibility of tank mixed pesticide products in a small volume prior to filling the sprayer. Check the compatibility of tank mixes containing ORONDIS Ultra Fungicide using a jar test with proportionate amounts of mix partners, and water, before mixing in the spray tank.

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

10.4.2 Mixing Instructions

1. Ensure that the sprayer interior is clean, then fill the spray tank with $\frac{1}{2}$ the required amount of water and engage gentle agitation. Good agitation is indicated by a rippling or rolling action on the surface of the water.
2. Add any WG or DF formulation mix partners and agitate to ensure complete mixing.
3. Add ORONDIS Ultra Fungicide and agitate to ensure complete mixing.
4. Add any SE or SC formulation mix partners and agitate to ensure complete mixing.
5. Add any EC formulation mix partners and agitate to ensure complete mixing.
6. Fill the tank to $\frac{3}{4}$ the required amount of water.
7. Add any solution (SN or SL) formulation mix partners and agitate to ensure complete mixing.
8. Finish filling the sprayer with water, maintaining good agitation.
9. After any break in spraying operations, agitate thoroughly before spraying again.
10. Spray the pesticide suspension the same day as mixing.
11. Do not mix, load or clean spray equipment where there is a potential to contaminate

wells or aquatic systems.

When using chemical handling equipment to fill the sprayer, the following additional recommendations apply:

- WG and DF formulations are preferentially batch mixed.
- SC, SN, and SL formulations may be inducted or batch mixed.
- EC formulations are preferentially batch mixed.

10.4.3 Spraying Instructions

1. Water Volume: Apply in a minimum spray volume of 100 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. Sprayer Agitation: Use a jet agitator or liquid sparge tube which recirculates 7-10% of the tank per minute. **DO NOT** use an air sparger.
3. Pump: Screens should be used on the suction side of the pump for protection and to prevent clogging. **DO NOT** place a screen in the recirculation line. Use 50 mesh or *coarser* screens between the pump and boom unless directed otherwise by the sprayer manufacturer.
4. Spray Nozzles: 80° or 110° flat fan incorporating a drift reducing technology wherever feasible. Use 50 mesh nozzle screens or as recommended by the nozzle manufacturer. **DO NOT** use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
5. Pressure: As recommended by the nozzle manufacturer to achieve the target spray quality. **DO NOT** apply finer than ASAE fine quality sprays.
6. Apply at uniform speed and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from over application.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in overly fine particles (mist). **DO NOT** apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. **DO NOT** spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

10.4.4 Equipment Clean-Up

Before Spraying:

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

After Spraying:

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

10.5 Airblast application

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

10.5.1 Spraying Instructions

1. Water Volume: Apply in a minimum spray volume of 200 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. Spray Quality: Select nozzles and pressure to achieve a minimum of ASAE fine sized droplets.
3. Spray Distribution: Select nozzles, orient deflectors, and adjust air speed and volume to ensure only the canopy is sprayed. Spray should just reach the top of the target. Account for the shape and canopy density of the target when setting spray distribution.
4. Apply at uniform speed and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from over application.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in overly fine particles (mist). **DO NOT** apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. **DO NOT** spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

10.6 Aerial Application

10.6.1 General Precautions

Aerial Application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) fine classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

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.

Label rates, conditions, and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. When no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

10.6.2 Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as

outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

10.6.3 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 a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing/loading, clean-up and repair. Wear a NIOSH-approved N95 (minimum filtering face piece respirator (dust mask) that is properly fit tested during all job activities. Gloves are not required during application within a closed cockpit.

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.

It is important to check the physical compatibility of tank mixed pesticide products in a small volume prior to filling the sprayer. Check the compatibility of tank mixes containing ORONDIS Ultra Fungicide using a jar test with proportionate amounts of mix partners, and water, before mixing in the spray tank.

10.6.4 Pilot Precautions

Read and understand the entire label before using this product. 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. Ensure uniform application and a uniform spray with minimum potential for drift. To avoid streaked, uneven or overlapped application, use appropriate marking technology. GPS based marking is preferred.

DO NOT apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas.

DO NOT apply during atmospheric conditions of thermal inversion which are characterized by 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 spray droplets which are smaller than the American Society of Agricultural Engineers (ASAE S572.1). The nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing or rotor span in order to reduce drift caused by turbulent wingtip vortices.

10.6.5 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 spray volume of 45 litres per hectare.

Refer to ENVIRONMENTAL PRECAUTIONS for additional details.

Avoid spraying when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

DO NOT overspray non-target terrestrial or aquatic habitats. DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches, and wetlands), estuaries or marine habitats. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

10.6.6 Mixing Instructions

Mixing this product directly in the aircraft hopper **IS NOT** recommended. The use of chemical handling or managing equipment to load the hopper **IS** recommended. This product **MAY BE** inducted into a hopper which is prefilled with water or when the product and water are mixed prior to entering the hopper. This product **MAY BE** batch mixed and pumped into the hopper. In all cases the chemical handling equipment and hopper interior must be clean prior to use.

NOTE: WG and DF formulations are preferentially batch mixed.

NOTE: SC, SN, and SL formulations may be inducted or batch mixed.

NOTE: EC formulations are preferentially batch mixed.

It is **NOT** recommended to combine solid (WG or DF) formulations with liquid tank mix partners within a single batch. Batch mix WG or DF formulations first, pump into the hopper, and then add liquid tank mix partners by induction or as an additional batch mix. When tank mixing multiple products, follow the mixing order outlined below:

1. Pump water into the hopper to at least $\frac{1}{4}$ to $\frac{1}{2}$ of the desired spray volume. Engage hopper circulation, if possible.
2. Thoroughly batch mix any WG or DF formulation mix partners and agitate to ensure complete mixing. Pump into the hopper.
3. Induct or thoroughly batch mix ORONDIS Ultra Fungicide and any additional SE or SC formulations.
4. Thoroughly batch mix any EC formulation mix partners. EC formulations may be added to the batch from Step 3, if desired.
5. Induct or thoroughly batch mix any solution (SN or SL) formulation mix partners. SN/SL formulations may be added to the batch from Step 3, if desired.
6. Pump batch mixed SC, EC, and/or SN/SL products into the hopper.
7. Finish filling the hopper with water.
8. If it was not possible to engage hopper agitation in Step 1, do so as soon as possible once airborne.
9. Spray the pesticide suspension the same day as mixing.

10. Do not mix, load or clean equipment where there is a potential to contaminate wells or aquatic systems.

10.6.7 Spraying Instructions

1. Water Volume: Apply in a minimum spray volume of 45 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. Spray Nozzles: Use only ASAE medium or coarse nozzles rated as delivering droplets of volume median diameter of 300 microns or greater.
3. Pressure: As recommended by the nozzle manufacturer to achieve ASAE medium or coarse sized droplets.
4. Ensure hopper agitation is engaged whenever possible during flight.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in overly fine particles (mist). **DO NOT** apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. **DO NOT** spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

10.6.8 Equipment Clean-Up

Before Spraying:

- Prior to using ORONDIS Ultra Fungicide, ensure that the hopper, chemical handling equipment, lines and filter are thoroughly cleaned.

After Spraying:

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

10.7 Rotational Crop Restrictions

Crop, Crop Group, or Crop Subgroup	Plant-back Interval (days)
Brassica, Head and Stem (Subgroup 5A)	0
Bulb Vegetables	
Cucurbit Vegetables (Group 9)	
Fruiting Vegetables	
Ginseng	
Leafy Greens (Subgroup 4A)	
Hops	
Basil	
Beans, Edible-Podded	

Tuberous and Corm Vegetables (Subgroup 1C)	
All other crops not listed	30
Legume Vegetables, except succulent peas	180

11.0 CROP USE DIRECTIONS

11.1 Tank Mixtures

ORONDIS Ultra Fungicide will control the indicated diseases unless stated otherwise.

11.2 Use Directions - Potatoes

Crops	Potatoes
Disease Controlled	Late blight (<i>Phytophthora infestans</i>)
Use rate (product/ha)	0.4 to 0.6 L/ha
Application Timing/Instructions	Begin applications prior to disease development and continue on a 7 to 14 day interval. Use higher rate and shorter interval when disease pressure is high.
Minimum recommended application water volume	45 L/ha for aerial application 100 L/ha for ground application
Maximum number of consecutive sprays	2 applications , then switch to a non-Group 49 and 40 fungicide.
Maximum number of applications per crop	4
Maximum rate of active ingredients applied	600 gai/ha of mandipropamid 72 gai/ha of oxathiapiprolin
Restricted-Entry Interval (REI)	Do not enter or allow worker entry into treated areas during the restricted-entry interval of 12 hours.
Pre harvest interval (PHI)	14 days
Specific Use Restrictions:	
<ol style="list-style-type: none"> Do not follow soil applications of oxathiapiprolin-containing fungicides with foliar applications of ORONDIS Ultra Fungicide. Use either soil applications or foliar applications, but not both for the control of relevant diseases. When 3 or more fungicide applications are made, use ORONDIS Ultra Fungicide (or other oxathiapiprolin containing products) in no more than 33% of the applications, or a maximum of 4 applications, whichever is fewer. Where the total number of fungicide applications is less than three (3), apply no more than one (1) application of an ORONDIS Ultra Fungicide. 	

11.3 Use Directions – Bulb Vegetables

Crops	Bulb vegetables Chive, fresh leaves (<i>Allium schoenoprasum</i> L.); chive, Chinese, fresh leaves (<i>Allium tuberosum</i>); garlic, bulb (<i>Allium sativum</i> L. var. <i>sativum</i>); garlic, great-headed, bulb (<i>Allium ampeloprasum</i> L. var. <i>ampeloprasum</i>); garlic, serpent, bulb (<i>Allium sativum</i> var. <i>ophioscorodon</i>); kurrat (<i>Allium kurrat</i> Schweinf. ex. K. Krause); lady's leek (<i>Allium cernuum</i> Roth); leek (<i>Allium ampeloprasum</i> , <i>A. porrum</i> , <i>A. tricoccum</i>); leek, wild (<i>Allium tricoccum</i> Aiton); onion, Beltsville bunching (<i>Allium x proliferum</i> (Moench) Schrad.); onion, bulb (<i>Allium cepa</i> L. var. <i>cepa</i>); onion, Chinese, bulb (<i>Allium chinense</i> G. Don); onion, fresh (<i>Allium fistulosum</i> L. var. <i>caespitosum</i> Makino); onion, green (<i>Allium cepa</i> L. var. <i>cepa</i>); onion, macrostem (<i>Allium macrostemon</i> Bunge); onion, pearl (<i>Allium porrum</i> var. <i>sectivum</i>); onion, potato, bulb (<i>Allium cepa</i> L. var. <i>aggregatum</i> G. Don); onion, tree, tops (<i>Allium x proliferum</i> (Moench) Schrad. ex Willd.); onion, Welsh, tops (<i>Allium fistulosum</i> L.); shallot, bulb and fresh leaves (<i>Allium cepa</i> var. <i>aggregatum</i>); cultivars, varieties, and/or hybrids of these.
Disease Controlled	Downy mildew (<i>Peronospora destructor</i>)
Use rate (product/ha)	0.4 L/ha
Application Timing/Instructions	Begin applications prior to disease development and continue on a 7 to 10 day interval. Use shorter interval when disease pressure is high. The use of a penetrating surfactant is recommended.
Minimum recommended application water volume	100 L/ha for ground application
Maximum number of consecutive sprays	2 applications , then switch to a non-Group 49 and 40 fungicide.
Maximum number of applications per crop	4
Maximum rate of active ingredients applied	400 gai/ha of mandipropamid 48 gai/ha of oxathiapiprolin
Restricted-Entry Interval (REI)	Do not enter or allow worker entry into treated areas during the restricted-entry interval of 12 hours.
Pre harvest interval (PHI)	7 days
Specific Use Restrictions:	
1. When 3 or more fungicide applications are made, use ORONDIS Ultra Fungicide (or other oxathiapiprolin containing products) in no more than 33% of the applications, or a maximum of 4 applications, whichever is fewer. Where the total number of fungicide applications is less than three (3), apply no more than one (1) application of an ORONDIS Ultra Fungicide.	

11.4 Use Directions – Leafy Greens – Crop Group 4-13A

Crops	Leafy greens (Crop Group 4-13A) Amaranth, Chinese (<i>Amaranthus tricolor</i>), Amaranth, leafy (<i>Amaranthus</i> spp.), Aster, Indian (<i>Kalimeris indica</i>), Blackjack (<i>Bidens pilosa</i>), Cat's Whiskers (<i>Cleome gynandra</i>), Cham-chwi (<i>Doellingeria scabra</i>), Cham-namul (<i>Pimpinella calycina</i>), Chervil, fresh leaves (<i>Anthriscus cerefolium</i>), Chipilin (<i>Crotalaria longirostrata</i>), Chrysanthemum, garland (<i>Glebionis coronaria</i>), Cilantro, fresh leaves (<i>Coriandrum sativum</i>), Corn salad (<i>Valerianella</i> spp.; including Lamb's lettuce, <i>Valerianella locusta</i> and Italian Corn salad, <i>Valerianella eriocarpa</i>), Cosmos (<i>Cosmos caudatus</i>), Dandelion (<i>Taraxacum officinale</i>), Dang-gwi (<i>Angelica gigas</i>), Dillweed, fresh leaves (<i>Anethum graveolens</i>), Dock (<i>Rumex patientia</i>), Dol-nam-mul (<i>Sedum sarmentosum</i>), Ebolo (<i>Crassocephalum crepidioides</i>), Endive (<i>Cichorium endivia</i> ssp. <i>endivia</i>), Escarole (<i>Cichorium endivia</i> ssp. <i>endivia</i>), Farnesflower (<i>Talinum fruticosum</i>), Feather cockscomb (<i>Glinus oppositifolius</i>), Good King Henry (<i>Chenopodium bonus-henricus</i>), Huazontle (<i>Chenopodium berlandieri</i>), Jute leaves (<i>Corchorus</i> spp.), Lettuce, bitter (<i>Launaea cornuta</i>), Lettuce, head (<i>Lactuca sativa</i> ; including <i>Lactuca sativa</i> var. <i>capitata</i>), Lettuce, leaf (Romaine) (<i>Lactuca sativa</i> ; including <i>Lactuca sativa</i> var. <i>longifolia</i> ; <i>Lactuca sativa</i> var. <i>crispa</i>), Orach (<i>Atriplex hortensis</i>), Parsley, fresh leaves (<i>Petroselinum crispum</i> ; <i>Petroselinum crispum</i> var. <i>neapolitanum</i>), Plantain, buckhorn (<i>Plantago</i> spp.; including Buckhorn plantain, <i>Plantago lanceolata</i> and Common plantain, <i>P. major</i>), Primrose, English (<i>Primula vulgaris</i>) Purslane, garden (<i>Portulaca oleracea</i>), Purslane, winter (<i>Claytonia perfoliata</i>), Radicchio (Red Chicory) (<i>Cichorium intybus</i>), Spinach (<i>Spinacia oleracea</i>), Spinach, Malabar (<i>Basella alba</i>), Spinach, New Zealand (<i>Tetragonia tetragonioides</i>), Spinach, tree (Giant Lambsquarter) (<i>Chenopodium giganteum</i>), Swiss chard (<i>Beta vulgaris</i> subsp. <i>vulgaris</i>), Tanier spinach (<i>Xanthosoma brasiliense</i>), Violet, Chinese (<i>Asystasia gangetica</i>), Cultivars, varieties, and hybrids of these commodities.
Diseases Controlled	Downy mildew (<i>Bremia lactucae</i> and <i>Peronospora</i> spp.)
Use rate (product/ha)	0.6 L/ha
Application Timing/Instructions	Begin applications prior to disease development and continue on a 7 to 10 day interval. Use shorter interval when disease pressure is high.
Minimum recommended application water volume	100 L/ha for ground application
Maximum number of consecutive sprays	2 applications , then switch to a non-Group 49 and 40 fungicide.
Maximum number of applications per crop	4
Maximum amount of active ingredients per season	600 gai/ha of mandipropamid 72 gai/ha of oxathiapiprolin
Restricted-Entry Interval (REI)	Do not enter or allow worker entry into treated areas during the restricted-entry interval of 12 hours.
Pre harvest interval (PHI)	1 day
Specific Use Restrictions:	<ol style="list-style-type: none"> When 3 or more fungicide applications are made, use ORONDIS Ultra Fungicide (or other oxathiapiprolin containing products) in no more than 33% of the applications, or a maximum of 4 applications, whichever is fewer. Where the total number of fungicide applications is less than three (3), apply no more than one (1) application of an ORONDIS Ultra Fungicide.

11.5 Use Directions – Brassica Leafy Greens – Crop Group 4-13B

Crops	Brassica leafy greens (Crop Group 4-13B) Arugula (<i>Eruca sativa</i>), Broccoli raab (<i>Brassica ruvo</i>), Broccoli, Chinese (<i>Brassica oleracea</i> var. <i>alboglabra</i>), Cabbage, Abyssinian (<i>Brassica carinata</i>), Cabbage, seakale (<i>Brassica oleracea</i> L. var. <i>costata</i>), Chinese cabbage, bok choy (<i>Brassica rapa</i> subsp. <i>chinensis</i>), Collards (<i>Brassica oleracea</i> var. <i>viridis</i>), Cress, garden (<i>Lepidium sativum</i>), Cress, upland (<i>Barbarea vulgaris</i>), Hanover salad (<i>Brassica napus</i> var. <i>pabularia</i>), Kale (<i>Brassica oleracea</i> var. <i>sabellica</i>), Maca (<i>Lepidium meyenii</i>), Mizuna (<i>Brassica rapa</i> L. subsp. <i>nipposinica</i>), Mustard greens (<i>Brassica juncea</i> subsp.; including <i>Brassica juncea</i> subsp. <i>Integrifolia</i> and <i>Brassica juncea</i> subsp. <i>tsatsai</i>), Radish, leaves (<i>Raphanus sativus</i> L. var. <i>sativus</i> ; including <i>Raphanus sativus</i> var. <i>mougri</i> , <i>Raphanus sativus</i> L. var. <i>oleiformis</i>), Rape greens (<i>Brassica napus</i> var. <i>napus</i> including <i>Brassica rapa</i> subsp. <i>trilocularis</i> ; <i>Brassica rapa</i> subsp. <i>dichotoma</i> , <i>Brassica rapa</i> subsp. <i>oleifera</i>), Rocket, wild (<i>Diplotaxis tenuifolia</i>), Shepherd's purse (<i>Capsella bursa-pastoris</i>), Turnip greens (<i>Brassica rapa</i> L. subsp. <i>rapa</i>), Watercress (<i>Nasturtium officinale</i>), Cultivars, varieties, and hybrids of these commodities.
Disease Controlled	Downy mildew (<i>Peronospora parasitica</i>)
Use rate (product/ha)	0.6 L/ha
Application Timing/Instructions	Begin applications prior to disease development and continue on a 7 to 10 day interval. Use shorter interval when disease pressure is high. The use of a non-ionic (NIS) surfactant is recommended.
Minimum recommended application water volume	100 L/ha for ground application
Maximum number of consecutive sprays	2 applications , then switch to a non-Group 49 and 40 fungicide.
Maximum number of applications per crop	4
Maximum amount of active ingredients per season	600 gai/ha of mandipropamid 72 gai/ha of oxathiapiprolin
Restricted-Entry Interval (REI)	Do not enter or allow worker entry into treated areas during the restricted-entry interval of 12 hours.
Pre harvest interval (PHI)	1 day
Specific Use Restrictions:	
1. When 3 or more fungicide applications are made, use ORONDIS Ultra Fungicide (or other oxathiapiprolin containing products) in no more than 33% of the applications, or a maximum of 4 applications, whichever is fewer. Where the total number of fungicide applications is less than three (3), apply no more than one (1) application of an ORONDIS Ultra Fungicide.	

11.6 Use Directions – Brassica Head and Stem Vegetables – Crop Group 5-13

Crops	Brassica head and stem vegetables (Crop Group 5-13) Broccoli (<i>Brassica oleracea</i> var. <i>italica</i>), Brussels sprouts (<i>Brassica oleracea</i> var. <i>gemmifera</i>), Cabbage (<i>Brassica oleracea</i> var. <i>capitata</i>), Cabbage, Chinese, napa (<i>Brassica rapa</i> subsp. <i>pekinensis</i>), Cauliflower (<i>Brassica oleracea</i> var. <i>capitata</i>) Cultivars, hybrids, and varieties of these commodities.
Disease Controlled	Downy mildew (<i>Peronospora parasitica</i>)
Use rate (product/ha)	0.6 L/ha
Application Timing/Instructions	Begin applications prior to disease development and continue on a 7 to 10 day interval. Use shorter interval when disease pressure is high. The use of a non-ionic (NIS) surfactant is recommended.
Minimum recommended application water volume	100 L/ha for ground application
Maximum number of consecutive sprays	2 applications , then switch to a non-Group 49 and 40 fungicide.
Maximum number of applications per crop	4
Maximum amount of active ingredients per season	600 gai/ha of mandipropamid 72 gai/ha of oxathiapiprolin
Restricted-Entry Interval (REI)	Do not enter or allow worker entry into treated areas during the restricted-entry interval of 12 hours.
Pre harvest interval (PHI)	1 day
Specific Use Restrictions:	
1. When 3 or more fungicide applications are made, use ORONDIS Ultra Fungicide (or other oxathiapiprolin containing products) in no more than 33% of the applications, or a maximum of 4 applications, whichever is fewer. Where the total number of fungicide applications is less than three (3), apply no more than one (1) application of an ORONDIS Ultra Fungicide.	

11.7 Use Directions – Fruiting Vegetables

Crops	Fruiting vegetables African eggplant (<i>Solanum macrocarpon</i>), Cocona (<i>Solanum sessiliflorum</i>), Currant tomato (<i>Solanum pimpinellifolium</i>), Eggplant (<i>Solanum melongena</i>), Garden huckleberry (<i>Solanum scabrum</i>), Goji berry (<i>Lycium barbarum</i>), Ground cherry (<i>Physalis alkekengi</i> , <i>P. grisea</i> , <i>P. peruvian</i> , <i>P. pubescens</i> .), Naranjilla (<i>Solanum quitoense</i>), Okra (<i>Abelmoschus esculentus</i>), Pea eggplant (<i>Solanum torvum</i>), Pepino (<i>Solanum muricatum</i>), Pepper, bell (<i>Capsicum annuum</i> , <i>Capsicum</i> spp.), Pepper, non-bell (<i>Capsicum chinense</i> , <i>C. annuum</i> , <i>C. frutescens</i> , <i>C. baccatum</i> , <i>C. pubescens</i> , <i>Capsicum</i> spp.), Scarlet eggplant (<i>Solanum aethiopicum</i>), Tomatillo (<i>Physalis philadelphica</i>), Tomato (<i>Solanum lycopersicon</i>), Tree tomato (<i>Solanum betacea</i>) Cultivars, varieties and/or hybrids of these
Disease Controlled	Late blight (<i>Phytophthora infestans</i>)
Use rate (product/ha)	0.6 L/ha
Application Timing/Instructions	Begin applications prior to disease development and continue on a 7 to 14 day interval. Use shorter interval when disease pressure is high.

Disease Suppressed	Phytophthora blight (<i>Phytophthora capsici</i>) – foliar phase
Use rate (product/ha)	0.6 L/ha
Application Timing/Instructions	Begin applications prior to disease development and continue on a 7 to 14 day interval. Use shorter interval when disease pressure is high.
Disease Suppressed	Phytophthora root and crown rot (<i>Phytophthora capsici</i>) – soil phase
Use rate (product/ha)	0.6 L/ha
Application Timing/Instructions	For suppression of the soil phase of Phytophthora root and crown rot, ORONDIS Ultra Fungicide must be applied in a manner that ensures the product solution adequately saturates the root zone of the transplant plug through a transplant water application. When applied to the root/crown zone before, during, or soon after sowing once roots are present or transplanting the crop, ORONDIS Ultra Fungicide will suppress Phytophthora root and crown rot that limits crop stand establishment. Please follow the directions under TRANSPLANT APPLICATION to determine the appropriate application rate and method to suppress Phytophthora root and crown rot.
Minimum recommended application water volume	100 L/ha for ground application
Maximum number of consecutive sprays	2 applications , then switch to a non-Group 49 and 40 fungicide.
Maximum number of applications per crop	4
Maximum amount of active ingredients per season	600 gai/ha of mandipropamid 72 gai/ha of oxathiapiprolin
Restricted-Entry Interval (REI)	Do not enter or allow worker entry into treated areas during the restricted-entry interval of 12 hours.
Pre harvest interval (PHI)	1 day
Specific Use Restrictions:	
<ol style="list-style-type: none"> 1. Use either soil applications or foliar applications, but not both, for disease control. 2. When 3 or more fungicide applications are made, use ORONDIS Ultra Fungicide (or other oxathiapiprolin containing products) in no more than 33% of the applications, or a maximum of 4 applications, whichever is fewer. Where the total number of fungicide applications is less than three (3), apply no more than one (1) application of an ORONDIS Ultra Fungicide. 	

11.8 Use Directions – Cucurbit Vegetables – Crop Group 9

Crops	Cucurbit vegetables (Crop Group 9) Chayote (fruit) (<i>Sechium edule</i>), Chinese waxgourd (Chinese preserving melon) (<i>Benincasa hispida</i>), Citron melon (<i>Citrullus lanatus</i> var. <i>citroides</i>), Cucumber (field) (<i>Cucumis sativus</i>), Gerkin (<i>Cucumis anguria</i>), Gourd, edible (<i>Lagenaria</i> spp.) (includes hyotan, cucuzza), Gourd, edible (<i>Luffa acutangula</i> , <i>L. cylindrica</i>) (includes hechima, Chinese okra), Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelons (hybrids and/or cultivars of <i>Cucumis melo</i>) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon and snake melon), Pumpkin (<i>Cucurbita</i> spp.), Squash, Summer (<i>Cucurbita pepo</i> var. <i>meloepo</i>) (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Squash, winter (<i>Cucurbita maxima</i> , <i>C. moschata</i>) (includes butternut squash, calabaza, hubbard squash); (<i>C. mixta</i> , <i>C. pepo</i>) (includes acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of <i>Citrullus lanatus</i>)
Diseases Suppressed	Phytophthora root and crown rot (<i>Phytophthora capsici</i>) – soil phase
Use rate (product/ha)	0.6 L/ha
Application Timing/Instructions	For suppression of the soil phase of Phytophthora root and crown rot, ORONDIS Ultra Fungicide must be applied in a manner that ensures the product solution adequately saturates the root zone of the transplantplug through a transplant water application. When applied to the root/crown zone before, during, or soon after sowing once roots are present or transplanting the crop, ORONDIS Ultra Fungicide will suppress Phytophthora root and crown rot that limits crop stand establishment. Please follow the directions under TRANSPLANT APPLICATION to determine the appropriate application rate and method to suppress Phytophthora root and crown rot.
Disease Suppressed	Phytophthora blight (<i>Phytophthora capsici</i>) – foliar phase
Use rate (product/ha)	0.6 L/ha
Application Timing/Instructions	Begin applications prior to disease development and continue on a 7 to 10 day interval. Use the shorter interval when disease pressure is high.

Diseases Controlled	Downy mildew (<i>Pseudoperonospora cubensis</i>)
Use rate (product/ha)	0.4 to 0.6 L/ha
Application Timing/Instructions	Begin applications prior to disease development and continue on a 7 to 10 day interval. Use the higher rate and shorter interval when disease pressure is high.
Minimum recommended application water volume	100 L/ha for ground application
Maximum number of consecutive sprays	1 application , then switch to a non-Group 49 and 40 fungicide.
Maximum number of applications per crop	4
Maximum amount of active ingredients per season	600 gai/ha of mandipropamid 72 gai/ha of oxathiapiprolin
Restricted-Entry Interval (REI)	Do not enter or allow worker entry into treated areas during the restricted-entry interval of 12 hours.
Pre harvest interval (PHI)	0 day
Specific Use Restrictions:	
<ol style="list-style-type: none"> 1. Use either soil applications or foliar applications, but not both, for disease control. 2. When 3 or more fungicide applications are made, use ORONDIS Ultra Fungicide (or other oxathiapiprolin containing products) in no more than 33% of the applications, or a maximum of 4 applications, whichever is fewer. 	

11.9 Use Directions – Greenhouse Tomatoes and Cucumbers

Crops	Greenhouse tomatoes
Disease Controlled	Late blight (<i>Phytophthora infestans</i>)
Disease Suppressed	Phytophthora blight (<i>Phytophthora capsici</i>)
Use rate (product/ha)	0.6 L/ha
Application Timing/Instructions	Begin applications prior to disease development and continue on a 7 to 10 day interval. Use the shorter interval when disease pressure is high.
Minimum recommended application water volume	100 L/ha
Maximum number of consecutive sprays	2 applications , then switch to a non-Group 49 and 40 fungicide.
Maximum number of applications per crop cycle	2
Maximum amount of active ingredients per season	300 gai/ha of mandipropamid 36 gai/ha of oxathiapiprolin
Restricted-Entry Interval (REI)	Do not enter or allow worker entry into treated areas during the restricted-entry interval of 12 hours.
Pre harvest interval (PHI)	1 day
Specific Use Restrictions:	
<ol style="list-style-type: none"> 1. Not to be used on plants destined for the field (transplants). 2. When 3 or more fungicide applications are made, use ORONDIS Ultra Fungicide (or other oxathiapiprolin containing products) in no more than 33% of the applications, or a maximum of 4 applications, whichever is fewer. Where the total number of fungicide applications is less than three (3), apply no more than one (1) application of an ORONDIS Ultra Fungicide. 	

Crops	Greenhouse cucumbers
Disease Controlled	Downy mildew (<i>Pseudoperonospora cubensis</i>)
Use rate (product/ha)	0.4 to 0.6 L/ha
Application Timing/Instructions	Begin applications prior to disease development. Use the higher rate when disease pressure is high.
Disease Suppressed	Phytophthora blight (<i>Phytophthora capsici</i>)
Use rate (product/ha)	0.6 L/ha
Application Timing/Instructions	Begin application prior to disease development.
Minimum recommended application water volume	100 L/ha
Maximum number of consecutive sprays	1 application , then switch to a non-Group 49 and 40 fungicide.
Maximum number of applications per crop	1
Maximum amount of active ingredients per crop cycle	150 gai/ha of mandipropamid 18 gai/ha of oxathiapiprolin
Restricted-Entry Interval (REI)	Do not enter or allow worker entry into treated areas during the restricted-entry interval of 12 hours.
Pre harvest interval (PHI)	1 day
Specific Use Restrictions:	
<ol style="list-style-type: none"> 1. <u>Not to be used on plants destined for the field (transplants).</u> 2. DO NOT apply by chemigation. 3. When 3 or more fungicide applications are made, use ORONDIS Ultra Fungicide (or other oxathiapiprolin containing products) in no more than 33% of the applications, or a maximum of 4 applications, whichever is fewer. 	

12.0 MINOR USES

READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS

NOTE TO USER:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

12.1 Use Directions – Basil

Crops	Basil, field and greenhouse (<i>Ocimum basilicum</i>)
Disease Controlled	Downy Mildew (<i>Peronospora belbahrii</i>)
Use rate (product/ha)	0.6 L/ha
Application Timing/Instructions	Begin foliar applications prior to disease development, and continue on a 5 to 10 day interval. Apply in a minimum of 100L of water, increasing spray volume as needed to ensure complete canopy coverage.
Minimum recommended application water volume	100 L/ha for ground application
Maximum number of consecutive sprays	2 applications then switch to a non-Group 49 and 40 fungicide.
Maximum number of applications per crop	4
Maximum rate of active ingredients applied	600 gai/ha of mandipropamid 72 gai/ha of oxathiapiprolin
Re-entry Interval (REI)	12 hours after application
Pre harvest interval (PHI)	1 day
Specific Use Restrictions:	
<ol style="list-style-type: none"> When 3 or more fungicide applications are made, use ORONDIS Ultra Fungicide (or other oxathiapiprolin containing products) in no more than 33% of the applications, or a maximum of 4 applications, whichever is fewer. Not to be used on plants in the greenhouse destined for the field (transplants). 	

12.2 Use Directions - Hops

Crop	Hops
Disease Controlled	Downy Mildew (<i>Pseudoperonospora humuli</i>)
Use Rate (product/ha)	0.6 L/ha
Application Timing/Instructions	Foliar – Airblast or Boom Begin applications prior to disease development and continue on a 7 to day 10 interval.
Minimum recommended application water volume	100 L/ha (boom) 200 L/ha (airblast)
Maximum number of consecutive sprays	2 applications , then switch to a non-Group 49 and 40 fungicide.
Maximum number of applications per crop	3
Maximum amount of active ingredients per crop cycle	450 g ai/ha of mandipropamid 54 g ai/ha of oxathiapiprolin
Re-entry Interval (REI)	12 hours after application
Pre-harvest interval (PHI)	7 days
Specific Use Restrictions:	
<ol style="list-style-type: none"> Do not use ORONDIS ULTRA Fungicide for more than 33% of the total fungicide applications. 	
<p><u>Airblast application</u>: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.</p>	

13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, ORONDIS Ultra Fungicide contains a Group 49 and a Group 40 fungicide. Group 49 (oxathiapiprolin) inhibits the oxysterol-binding protein (OSBP). Any fungal population may contain individuals naturally resistant to ORONDIS Ultra Fungicide and other Group 49 and 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 Fungicide or other Group 49 or 40 fungicides with different groups that control the same pathogens.

Follow directions regarding the maximum number of successive applications for each use outlined in the Use Directions Tables.

Do not follow soil applications of ORONDIS Ultra Fungicide with foliar applications of oxathiapiprolin-containing fungicides. Different application methods (foliar and soil) must not be combined when protecting a crop during a growing season.

When 3 or more fungicide applications are made, use ORONDIS Ultra Fungicide (or other oxathiapiprolin containing products) in no more than 33% of the applications, or a maximum of 4 applications, whichever is fewer.

DO NOT apply at rates lower than recommended on the label.

Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.

Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.

Where possible, make use of predictive disease models to effectively time fungicide applications.

Monitor treated fungal populations for sign of resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to ORONDIS Ultra 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 pathogens.

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

13.1 Application Limitations and Pre-harvest Intervals

Crop*	Maximum Product Rate/ha/application (L/ha)	Maximum total (L/ha/Season)	Pre-Harvest Interval (PHI) (days)	Minimum Re-treatment Interval (days)
Potato	0.6	2.4	14	7
Bulb vegetables	0.4	1.6	7	7
Leafy greens (CG 4-13A)	0.6	2.4	1	7
Brassica leafy greens (CG 4-13B)	0.6	2.4	1	7
Brassica head and stem (CG 5-13)	0.6	2.4	1	7
Fruiting vegetables	0.6	2.4	1	7
Basil, field and greenhouse	0.6	2.4	1	5
Cucurbits (CG 9)	0.6	2.4	0	7
Greenhouse tomatoes	0.6	1.2	1	7
Greenhouse cucumbers	0.6	0.6	1	NA
Hops	0.6	1.8	7	7

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

ORONDIS® is a trademark of a Syngenta Group Company.