

GROUP	49	FUNGICIDE
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ORONDIS™ Fungicide

**SUSPENSION
OIL DISPERSION**

COMMERCIAL

FOR USE ON BULB VEGETABLES, BRASSICA (COLE) LEAFY VEGETABLES, CUCURBIT VEGETABLES, GREENHOUSE CUCUMBER, TOMATO (FIELD, GREENHOUSE), PEPPER (FIELD, GREENHOUSE), EGGPLANT, LEAFY VEGETABLES, GINSENG, TOBACCO, SUCCULENT PEAS, ASPARAGUS, CELTUCE, FLORENCE FENNEL (FRESH LEAVES AND STALK), KOHLRABI, PRICKLY PEAR, CROP SUBGROUP 4-13B: LEAFY BRASSICA GREENS, BASIL (FIELD AND GREENHOUSE), CROP SUBGROUP 13-07A: CANEBERRIES AND POTATOES

GUARANTEE:

Oxathiapiprolin 100 g/L

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

**WARNING – SKIN IRRITANT
POTENTIAL SKIN SENSITIZER**

REGISTRATION NO.: **32103**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: 0.5 L – 1,500 LITRES

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

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. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. 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

Treat symptomatically.

PRECAUTIONS

- **KEEP OUT OF REACH OF CHILDREN.**
- Causes skin irritation. DO NOT get on skin.
- Potential skin sensitizer
- During mixing/loading/application/clean-up and repair, workers must wear coveralls over long-sleeved shirt, long pants, socks & chemical-resistant footwear and chemical-resistant gloves.
- Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 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 of 12 hours.

- Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
- Do not apply this product using fogging equipment (handheld or automated), or using handheld mist blowers/airblast equipment.

ENVIRONMENTAL PRECAUTIONS

- This product contains an active ingredient and aromatic petroleum distillates which are TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.
- 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.
- 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.
- May be toxic to certain beneficial insects when applied at more than 2 L/ha (200 g a.i./ha) per season. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.
- 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.
- 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.

STORAGE

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed. To prevent contamination, store this product away from food or feed.

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.

CONTAINER DISPOSAL:

For returnable containers:

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

refillable containers:

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

For recyclable containers:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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

ORONDIS™ is a trademark of a Syngenta Group Company.

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- 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.
- 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.

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3. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
4. Make the empty, rinsed container unsuitable for further use.

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

GENERAL INFORMATION

ORONDIS™ Fungicide is active against selective oomycete diseases listed on this label and has preventive and antispore activity. ORONDIS Fungicide is locally systemic, translaminar, and moves systemically in the xylem. ORONDIS Fungicide must be applied in a regularly scheduled protective spray program in rotation with other fungicides. See directions below for specific crop/disease recommendations.

Different application methods (foliar and soil) must not be combined when protecting a crop during the growing season.

ORONDIS Fungicide rapidly penetrates into plant tissues and is rainfast within 30 minutes after spray residues have dried.

ORONDIS Fungicide can be applied with specified ground equipment using sufficient water to obtain thorough coverage of plants. The minimum ground application volume is 110L/ha.

DIRECTIONS FOR USE

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 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.

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 and Biological Engineers (ASABE) fine classification. Boom height must be 60 cm or less above the crop or ground.

Aerial application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural and Biological Engineers (ASABE) 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.

Buffer zones:

Use of the following spray methods or equipment **DO NOT** require a buffer zone: spot treatment, inter-row hooded sprayer, soil drench and soil incorporation.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application		Crop	Buffer Zones (metres) Required for the Protection of Freshwater Habitat of Depths:	
			Less than 1 m	Greater than 1 m
Field sprayer		All field crops except ginseng	1	0
		Ginseng	2	0
Aerial	Fixed Wing	Potatoes	1	0
	Rotary Wing		1	0

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

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

Tank Mixtures:

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-877-SYNGENTA (1-877-964-3682) for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Syngenta Canada Inc.

When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

ORONDIS Fungicide will control the indicated diseases unless stated otherwise.

Do not apply in greenhouses unless specified below.

HEAD AND STEM BRASSICA VEGETABLES – Crop subgroup 5A

SITE	PEST	RATE ORONDIS Fungicide/ha	SPECIFIC DIRECTIONS
HEAD AND STEM BRASSICA VEGETABLES Broccoli Broccoli, Chinese (gai lon) Brussels sprouts Cabbage Cabbage, Chinese (napa) Cabbage, Chinese, mustard (gai choy) Cauliflower Cavolo broccolo Kohlrabi	Downy Mildew <i>Peronospora parasitica</i>	0.175 to 0.35 L/ha	Begin applications prior to disease development and continue on a 5 to 10 day interval. Use higher rate and shorter interval when disease pressure is high.

RESTRICTIONS AND PRECAUTIONS: Head and Stem Brassica Vegetables

- Make no more than 2 sequential applications of ORONDIS Fungicide before switching to a fungicide with a different mode of action. Do not use ORONDIS Fungicide for more than 33% of the total foliar fungicide applications or make more than 4 applications of product per crop per year, whichever is more restrictive. Where multiple crop cycles are produced in the same year do not exceed 6 applications of ORONDIS Fungicide per hectare per year.
- Minimum spray interval is 5 days.
- Maximum seasonal use rate is 1.40 L/ha.
- Minimum time (PHI) between application and harvest is 0 days.
- For any of the pests listed above, use the high rate under heavy pest pressure.

BULB VEGETABLES – Crop Group 3

SITE	PEST	RATE ORONDIS Fungicide/ha	SPECIFIC DIRECTIONS
BULB VEGETABLES Chive, fresh leaves; chive, Chinese, fresh leaves; garlic, bulb; garlic, great-headed, bulb; garlic, serpent, bulb; kurrat; lady's leek; leek; leek, wild; onion, Beltsville bunching; onion, bulb; onion, Chinese, bulb; onion, fresh; onion, green; onion, macrostem; onion, pearl; onion, potato, bulb; onion, tree, tops; onion, Welsh, tops; shallot, bulb; shallot, fresh leaves; cultivars, varieties, and/or hybrids of these.	Downy Mildew <i>Peronospora destructor</i>	0.0875 to 0.35 L/ha	Begin applications prior to disease development and continue on a 5 to 10 day interval. Use higher rate and shorter interval when disease pressure is high.

RESTRICTIONS AND PRECAUTIONS: Bulb Vegetables

- Make no more than 2 sequential applications of ORONDIS Fungicide before switching to a fungicide with a different mode of action. Do not use ORONDIS Fungicide for more than 33% of the total foliar fungicide applications or make more than 4 applications of product per crop per year, whichever is more restrictive. Where multiple crop cycles are produced in the same year do not exceed 6 applications of ORONDIS Fungicide per hectare per year.
- Maximum seasonal use rate is 1.40 L/ha.
- Minimum time (PHI) between application and harvest is 0 days.
- For any of the pests listed above, use the high rate under heavy pest pressure.

CUCURBIT VEGETABLES – Crop Group 9

SITE	PEST	RATE ORONDIS Fungicide/ha	SPECIFIC DIRECTIONS
Cucurbit vegetables Chinese waxgourd (Chinese preserving melon); citron melon; cucumber (field + greenhouse foliar only); gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); Momordica spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe); pumpkin; squash, summer; squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon	Downy Mildew <i>Pseudoperonospora cubensis</i>	0.0875 to 0.35 L/ha	Begin applications prior to disease development and continue on a 5 to 14 day interval. Use higher rate and shorter interval when disease pressure is high or for susceptible varieties.
	Phytophthora Blight – foliar phase <i>Phytophthora capsici</i>	0.175 to 0.35 L/ha	Begin applications prior to disease development and continue on a 5 to 14 day interval. Use higher rate and shorter interval when disease pressure is high.
	Phytophthora Blight – soil phase <i>Phytophthora capsici</i>	0.7 to 2.8L/ha	Apply at plant, in furrow, drip or in transplant water. See specific soil application directions in this label.

RESTRICTIONS AND PRECAUTIONS: Cucurbit Vegetables

- Minimum time (PHI) between application and harvest for all uses is 0 days.
- Do not follow soil applications of ORONDIS Fungicide or OXTP 200SC fungicide with foliar applications of ORONDIS Fungicide or other oxathiapiprolin-containing fungicides. Use either soil applications or foliar applications but not both for the control of relevant disease. Do not make more than 4 applications of product per crop per year by either method. Where multiple crop cycles are produced in the same year do not exceed 6 foliar applications of ORONDIS Fungicide per hectare per year.
- Annual maximums for specific use patterns are listed below.

Foliar Applications

- Make no more than 2 sequential applications of ORONDIS Fungicide before switching to a fungicide with a different mode of action. Do not use ORONDIS Fungicide for more than 33% of the total foliar fungicide applications.
- Maximum seasonal use rate for foliar use is 1.40 L/ha.
- For any of the pests listed above, use the high rate under heavy pest pressure.

Soil Applications

- Make no more than 2 sequential applications of ORONDIS Fungicide before switching to a fungicide with a different mode of action. Do not use ORONDIS Fungicide for more than 33% of the total soil fungicide applications.
- The minimum soil application interval is 7 days.
- Maximum seasonal soil use rate is 5.6 L/ha.
- Do not make soil applications in greenhouses.

LEAFY VEGETABLES – Crop Group 4

SITE	PEST	RATE ORONDIS Fungicide/ha	SPECIFIC DIRECTIONS
LEAFY VEGETABLES Amaranth leafy, Arugula, Chevril, Chrysanthemum (edible-leaved), Chrysanthemum (garland), Corn Salad, Cress (garland), Cress (upland), Dandelion leaves, Dock, Endive, Lettuce (head & leaf), Orach, Parsley leaves, Purslane (garden), Purslane (winter), Radicchio, Spinach, Spinach (vine), Spinach (New Zealand), Swiss Chard	Downy Mildew (<i>Peronospora</i> spp, <i>Bremia Latucae</i>)	0.175 to 0.35 L/ha	Begin applications prior to disease development and continue on a 5 to 14 day interval. Use higher rate and shorter interval when disease pressure is high.

RESTRICTIONS AND PRECAUTIONS: Leafy Vegetables

- Make no more than 2 sequential applications of ORONDIS Fungicide before switching to a fungicide with a different mode of action. Do not use ORONDIS Fungicide for more than 33% of the total foliar fungicide applications or make more than 4 applications of product per crop per year, whichever is more restrictive. Where multiple crop cycles are produced in the same year do not exceed 6 applications of ORONDIS Fungicide per hectare per year.
- Maximum seasonal use rate is 1.40 L/ha.
- Minimum time (PHI) between application and harvest is 0 days.
- For any of the pests listed above, use the high rate under heavy pest pressure.

TOMATO, PEPPER, EGGPLANT

SITE	PEST	RATE ORONDIS Fungicide/ha	SPECIFIC DIRECTIONS
Tomato (field, greenhouse); Pepper, bell, non-bell (field, greenhouse); Eggplant (field)	Late Blight <i>Phytophthora infestans</i>)	0.175 to 0.35 L/ha	Begin applications prior to disease development and continue on a 5 to 14 day interval. Use higher rate and shorter interval when disease pressure is high.
	Phytophthora Blight – foliar phase <i>Phytophthora capsici</i>)	0.175 to 0.35 L/ha	Begin applications prior to disease development and continue on a 5 to 14 day interval. Use higher rate and shorter interval when disease pressure is high.
	Phytophthora Blight – soil phase <i>Phytophthora capsici</i>)	0.7 to 2.8L/ha	Apply at plant, in furrow, drip or in transplant water. See specific soil application directions in this label.

RESTRICTIONS AND PRECAUTIONS: Tomato, Pepper, Eggplant

- Minimum time (PHI) between application and harvest is 0 days.
- Do not follow soil applications of ORONDIS Fungicide or OXTP 200SC fungicide with foliar applications of ORONDIS Fungicide or other oxathiapiprolin-containing fungicides. Use either soil applications or foliar applications but not both for the control of relevant disease. Do not make more than 4 applications of product per crop per year by either method. Where multiple crop cycles are produced in the same year do not exceed 6 foliar applications of ORONDIS Fungicide per hectare per year.
- Annual maximums for specific use patterns are listed below.

Foliar Applications

- Make no more than 2 sequential applications of ORONDIS Fungicide before switching to a fungicide with a different mode of action. Do not use ORONDIS Fungicide for more than 33% of the total foliar fungicide applications.
- Maximum seasonal foliar use rate is 1.40 L/ha.
- For any of the pests listed above, use the high rate under heavy pest pressure.

Soil Applications

- Make no more than 2 sequential applications of ORONDIS Fungicide before switching to a fungicide with a different mode of action. Do not use ORONDIS Fungicide for more than 33% of the total soil fungicide applications.
- Maximum seasonal soil use rate is 5.6 L/ha.
- Do not make soil applications in greenhouses. Do not apply to hydroponic solution.

POTATO

SITE	PEST	RATE ORONDIS Fungicide	SPECIFIC DIRECTIONS
Potato	Control of Late Blight (<i>Phytophthora infestans</i>)	0.12 – 0.35 L/ha	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. Apply by air in a minimum of 45 L/ha or by ground in a minimum of 100 L/ha.
	Suppression of Pink rot (<i>Phytophthora erythroseptica</i>)	6.4 ml/100 m row length	Apply once as an in-furrow spray in a minimum of 40 L per hectare of water at planting. Mount spray nozzle so the spray is directed into the furrow as a 15-20 cm band just before the seed is covered.

RESTRICTIONS AND PRECAUTIONS: Potato

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- Do not follow soil applications of ORONDIS Fungicide with foliar applications of ORONDIS Fungicide or other oxathiapiprolin-containing fungicides. Use either soil applications or foliar applications but not both for the control of relevant disease. Do not make more than 4 foliar applications of product per crop per year. Where multiple crop cycles are produced in the same year do not exceed 6 foliar applications of ORONDIS Fungicide per hectare per year.
- Maximum seasonal use rate is 1.40 L/ha.
- Minimum time (PHI) between foliar application and harvest is 5 days for ground and aerial applications.
- For any of the pests listed above, use the high rate under heavy pest pressure.

TOBACCO

SITE	PEST	RATE ORONDIS Fungicide/ha	SPECIFIC DIRECTIONS
Tobacco	Blue Mold (<i>Peronospora tabacina</i>)	0.20 to 0.35 L/ha	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.

RESTRICTIONS AND PRECAUTIONS: Tobacco

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hectare per year.

- Maximum seasonal use rate is 1.40 L/ha.
- Minimum time (PHI) between application and harvest is 0 days.
- For any of the pests listed above, use the high rate under heavy pest pressure.

SUCCULENT PEAS

SITE	PEST	RATE ORONDIS Fungicide /HA	SPECIFIC DIRECTIONS
Peas, succulent <i>Pisum</i> spp., includes dwarf pea, edible-pod pea, snow pea, sugar snap pea, English pea, garden pea, green pea.	Pea Downy Mildew (<i>Peronospora viciae</i>)	0.175 to 0.35 L/ha	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.

RESTRICTIONS AND PRECAUTIONS: Pea subgroup

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

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than the Syngenta Canada Inc. and accepted for registration by Health Canada. The Syngenta Canada Inc. itself makes no representation or warranty with respect to product performance (efficacy) and crop tolerance (phytotoxicity) of this product when used on the crops listed below. Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold the Syngenta Canada Inc. harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

GINSENG (*Panax quinquefolius*)

SITE	PEST	RATE ORONDIS Fungicide/ha	SPECIFIC DIRECTIONS
Ginseng (<i>Panax quinquefolius</i>)	Phytophthora Root Rot (<i>Phytophthora cactorum</i>)	0.7 to 2.8 L/ha	Begin foliar 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.

RESTRICTIONS AND PRECAUTIONS:

- Make no more than 2 sequential applications of ORONDIS Fungicide before switching to a fungicide with a different mode of action. Do not use ORONDIS Fungicide for more than 33% of the total foliar fungicide applications.
- Do not make more than 4 applications per year
- Maximum seasonal use rate is 5.6 L/ha.
- Minimum time (PHI) between application and harvest is 14 days.
- For any of the pests listed above, use the high rate under heavy pest pressure.

SITE	PEST	RATE ORONDIS Fungicide/ha	SPECIFIC DIRECTIONS
Asparagus, Celtuce, Fennel, Florence (fresh leaves & stalk), Kohlrabi, Prickly pear, Cultivars, varieties, and hybrids of these commodities	Spear, crown or root rot (<i>Phytophthora</i> <i>spp.</i>) Phytophthora rot (<i>Phytophthora</i> <i>spp.</i>) Brown rot and wilt (<i>Phytophthora</i> <i>spp.</i>) Foot rot (<i>Phytophthora</i> <i>spp.</i>)	1.4 to 2.8 L/ha	<p>New Plantings of transplants & bulbs: Apply a transplant drench prior to plant. See specific soil application directions in this label. For transplanting crowns, apply a crown soak. See specific crown soak application directions in this label. Make a crown soak solution in a large enough container to ensure that the crowns are fully submerged. Rinse excessive soil or sand from crowns prior to soak. Place crowns in fungicide solution and soak for a minimum of 10 minutes. Ensure the solution remains in suspension by using agitation. After soaking, remove from solution, drain and then plant the crowns.</p>
			<p>Established Plantings: Directly apply to soil with a banded drench application at a minimum of 200L/ha. Follow by sprinkler or drip irrigation within 24 hours to adequately distribute the product to the root zone. If needed, re-apply using a 7-14 day interval. See specific soil application directions in this label.</p>

RESTRICTIONS AND PRECAUTIONS:

- Make no more than 2 sequential applications of ORONDIS fungicide before switching to a fungicide with a different mode of action. Do not use ORONDIS fungicide for more than 33% of the total foliar fungicide applications.
- Do not make more than 2 applications (high rate) or 4 applications (low rate) per year
- Maximum seasonal use rate is 5.6 L/ha.
- Minimum time (PHI) between application and harvest is 0 days.
- For any of the pests listed above, use the high rate under heavy pest pressure.

Crop Subgroup 4-13B: Leafy Brassica Greens

SITE	PEST	RATE ORONDIS Fungicide/ha	SPECIFIC DIRECTIONS
Arugula, Broccoli raab, Broccoli, Chinese, Cabbage, Abyssinian, Cabbage, seakale, Chinese cabbage, bok choy, Collards, Cress, garden, Cress, upland, Hanover salad, Kale, Maca, Mizuna, 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, Rape greens, Rocket, wild, Shepherd's purse, Turnip greens, Watercress, Cultivars, varieties and/or hybrids of these	Downy Mildew (<i>Peronospora parasitica</i>)	0.175 to 0.35 L/ha	Begin foliar applications prior to disease development, and continue on a 5 to 10 day interval. Use higher rate and shorter interval when disease pressure is high. Apply in a minimum of 100L of water, increasing spray volume as needed to ensure complete canopy coverage.

RESTRICTIONS AND PRECAUTIONS:

- Make no more than 2 sequential applications of ORONDIS fungicide before switching to a fungicide with a different mode of action. Do not use ORONDIS fungicide for more than 33% of the total foliar fungicide applications.
- Do not make more than 2 applications (high rate) or more than 4 applications (low rate) per year
- Maximum seasonal use rate is 1.4 L/ha.
- Minimum time (PHI) between application and harvest is 0 days.
- For any of the pests listed above, use the high rate under heavy pest pressure.

Basil, field and greenhouse (*Ocimum basilicum*)

SITE	PEST	RATE ORONDIS Fungicide/ha	SPECIFIC DIRECTIONS
Basil, field and greenhouse (<i>Ocimum basilicum</i>)	Downy Mildew (<i>Peronospora belbahrii</i>)	0.175 to 0.35 L/ha	Begin foliar applications prior to disease development, and continue on a 5 to 10 day interval. Use higher rate and shorter interval when disease pressure is high. Apply in a minimum of 100L of water, increasing spray volume as needed to ensure complete canopy coverage.

RESTRICTIONS AND PRECAUTIONS:

- Make no more than 2 sequential applications of ORONDIS fungicide before switching to a fungicide with a different mode of action. Do not use ORONDIS fungicide for more than 33% of the total foliar fungicide applications.
- Do not make more than 2 applications (high rate) or more than 4 applications (low rate) per year
- Maximum seasonal use rate is 1.4 L/ha.

Minimum time (PHI) between application and harvest is 0 days.

- For any of the pests listed above, use the high rate under heavy pest pressure.

Crop Subgroup 13-07A: Caneberries

SITE	PEST	RATE ORONDIS Fungicide/ha	SPECIFIC DIRECTIONS
Blackberry (including Andean blackberry, arctic blackberry, bingleberry, black satin berry, boysenberry, brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyenne blackberry, common blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, evergreen blackberry, Himalayaberry, hullberry, lavacaberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, mora, mures deronce, nectarberry, Northern dewberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, raspberry, black and red; wild raspberry, cultivars, ravenberry, rossberry, Shawnee blackberry, Southern dewberry, tayberry, youngberry, zarzamora), Loganberry, Raspberry (black, red and wild) and cultivars, varieties or hybrids of these)	Root rot (<i>Phytophthora spp.</i>)	1.4 to 2.8 L/ha	Directly apply to soil with a banded drench application at a minimum of 200L/ha, continue on a 7-14 day interval. Follow by sprinkler or drip irrigation within 24 hours to adequately distribute the product to the root zone. See specific soil application directions in this label. Use higher rate and shorter interval when disease pressure is high. Use 1-2 applications at 7-14 days apart made in spring and 1-2 applications at 7-14 days apart made in fall.

RESTRICTIONS AND PRECAUTIONS:

- Make no more than 2 sequential applications of ORONDIS fungicide before switching to a fungicide with a different mode of action. Do not use ORONDIS fungicide for more than 33% of the total foliar fungicide applications.
- Do not make more than 4 applications per year.
- Maximum seasonal use rate is 5.6 L/ha.
- Minimum time (PHI) between application and harvest is 1 day.

- For any of the pests listed above, use the high rate under heavy pest pressure.

CROP ROTATION

For all legume crops except succulent peas, a plant-back interval of 180 days is required. All other crops may be planted immediately following the last application.

APPLICATION INFORMATION

FOLIAR APPLICATION

Mixing Instructions For Product Used Alone

1. Fill clean spray tank 1/4 - 1/2 full of water.
2. While agitating, add the required amount of ORONDIS Fungicide, continuing agitation until the product is completely dispersed.
3. Continue filling the tank, with agitation.

Mix thoroughly to fully disperse the fungicide; once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation.

SPRAYER CLEANUP:

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

SOIL APPLICATIONS

For suppression or control of soil borne diseases, as recommended in this label, ORONDIS Fungicide must be applied in a manner that ensures the product solution adequately saturates the target crop root/crown zone.

For soil application, apply ORONDIS 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.

Use 125-250 mL of transplant water per transplant in sandy soil, and 175-250 mL of transplant water per transplant in silty soil.

- For Water Wheel transplanters, use the plant population to determine the rate per plant.

Surface Band or Directed application

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

Transplant Tray Application

Apply as a foliar spray to the transplants in the transplant tray 24-48 hrs 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 acre of transplants receive the full recommended acre 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.

Crown soak application

Use 40 liters of solution, or the volume required to fully submerge 100 crowns. To determine the amount of product needed to treat 100 crowns, first determine the number of plants per hectare using typical plant spacing. Then use the following formula: $100 \div \text{plant density per ha} \times 2800 \text{ ml} = \text{product needed to treat 100 crowns in 40 liters of solution}$.

CHEMIGATION

The following types of irrigation equipment may be used for chemigation applications: drip (trickle) or strip tubing irrigation systems. Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Do not apply this product through any other type of irrigation system.

See "Required System Safety Devices For All Chemigation Systems" at the end of the Chemigation section.

APPLICATION INSTRUCTIONS**DRIP (TRICKLE)**

ORONDIS Fungicide must be applied in a manner that ensures the product is in the root zone. ORONDIS Fungicide must be in the root zone to provide effective control of target pests. ORONDIS Fungicide is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of ORONDIS Fungicide remain in the root zone where it is most effective.

- 1 Do not begin applications until after crop emergence in direct seeded crops.
- 2 Do not make applications if soil moisture is below the level required for active plant growth.
- 3 This product must be applied uniformly in the root zone or poor performance may result. Drip tape or emitters must be located within or directly adjacent to the root zone. The drip system must be properly designed, free of leaks, and operated in manner that provides uniform application of water throughout the field.
- 4 In most situations, this product should be applied during the first 1/3 of the irrigation cycle, starting just after the system has come up to pressure.
- 5 The minimum injection period is the time that it takes water to move from the injection point to the furthest emitter in the irrigation zone (propagation time). If this time is not known, it can be calculated by measuring the time for a soluble dye to move from the injection point to the farthest emitter. A longer injection improves uniformity throughout the zone, but needs to allow for at least an equal period of water to flush the system and move the product through the soil.

- 6 ORONDIS Fungicide must not be applied at the same time that a drip irrigation line clean out product is being used as performance may be reduced.

Directions for Chemigation:

Preparation

A pesticide tank is recommended for the application of ORONDIS Fungicide in drip chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard cleanout procedure. Dispose of any residues in accordance with local regulations. With the mix tank 1/4 to 1/2 full with water and the agitator running, measure the required amount of ORONDIS Fungicide and add it to the tank. Then add additional water to bring your total pesticide mixture up to the desired volume for your application. Note: Always add the ORONDIS Fungicide to water, never put ORONDIS Fungicide into a dry tank or other mixing equipment without first adding water. Continue to agitate the mixture throughout the application process. Use mechanical or hydraulic agitation, do not use air agitation.

Injection Into Chemigation Systems

Inject the proper amount of ORONDIS Fungicide into the irrigation water flow using a positive displacement injection pump or a Venturi injector. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

Uniform Water Distribution

The irrigation system used for application of ORONDIS Fungicide must provide for uniform distribution of ORONDIS Fungicide treated water. Non-uniform distribution can result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the drip chemigation system is operating properly to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for applicators and other handlers when making adjustments or repairs on the chemigation system when ORONDIS Fungicide is in the irrigation water.

Operation

Start the water pump and let the system achieve the desired pressure before starting the injector. Start the injector. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

Cleaning the System

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard cleanout procedure. Dispose of any residues in accordance with local regulations. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

REQUIRED SYSTEM SAFETY DEVICES FOR ALL CHEMIGATION SYSTEMS

1. 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.

2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. 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.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. 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.
6. Systems must use a metering device, such as a positive displacement pump or a Venturi injector, that provides uniform injection of the product, is effectively designed and constructed of materials compatible with the product, and is capable of being fitted with a system interlock.
7. Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be 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 the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

SPRAY TANK CLEANOUT

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain application equipment. Thoroughly rinse and flush all application equipment with clean water. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

AERIAL APPLICATION

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

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

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

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

MIXING PROCEDURES

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

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area. Keep product container tightly closed when not in use.

INTEGRATED PEST MANAGEMENT

Syngenta Canada Inc. recommends the use of Integrated Pest Management (IPM) programs to control pests.

ORONDIS Fungicide may be used as part of an IPM program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when disease forecasting models reach locally determined action levels. Consult your provincial extension service, professional consultants, or other qualified authorities to determine the appropriate management, cultural practice and treatment threshold levels for the specific crop,

geography and diseases.

RESISTANCE MANAGEMENT

ORONDIS Fungicide contains the active ingredient oxathiapiprolin which is listed as Group 49 by the Fungicide Resistance Action Committee (FRAC). Oxathiapiprolin inhibits the oxysterol-binding protein (OSBP). Any fungal population may contain individuals naturally resistant to ORONDIS Fungicide. 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 Fungicide or other fungicides containing Oxathiapiprolin with different mode of action groups that control the same pathogens.

Use tank mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted. Do not tank mix ORONDIS Fungicide with any fungicide for which resistance to the target disease has developed.

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 resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to ORONDIS 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 site of action, if available.

Make no more than 2 sequential applications of ORONDIS Fungicide before rotating to a fungicide with a different mode of action.

Do not follow soil applications of ORONDIS Fungicide or OXTP 200SC Fungicide with foliar applications of ORONDIS Fungicide or other oxathiapiprolin-containing fungicides. Different application methods (foliar and soil) must not be combined when protecting a crop during a growing season.

Do not use ORONDIS Fungicide for more than 33% of the total fungicide applications per season per crop.

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.

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