

GROUP	29	49	FUNGICIDES
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ORONDIS® ADVANCED

FUNGICIDE

COMMERCIAL

SUSPENSION CONCENTRATE

For broad-spectrum disease control or suppression in labelled crops.

ACTIVE INGREDIENTS:

Oxathiapiprolin19.1 g/L
Fluazinam384 g/L

Contains 1,2-benzisothiazolin-3-one as a preservative at 0.04% and 2-bromo-2-nitropropane-1,3-diol as a preservative at 0.033% and 5-Chloro-2-methyl-4-isothiazolin-3-one as a preservative at 0.0010% and 2-Methyl-4-isothiazolin-3-one as a preservative at 0.0003%.

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

POTENTIAL SKIN SENSITIZER

REGISTRATION NUMBER: **35748**
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

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 doctor 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

KEEP OUT OF REACH OF CHILDREN AND DOMESTIC ANIMALS.

Potential skin sensitizer. **DO NOT** get on skin.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash exposed areas of skin thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use.

Restricted Entry Intervals (REI): DO NOT enter or allow worker entry into treated areas during the intervals specified in the following table. Where the REI for harvesting activities and the PHI differ, the longer of the two intervals must be followed when harvesting the crop.

Crop	Preharvest Interval (PHI)	Postapplication Activity	Restricted-Entry Interval (REI)
Cucurbit Vegetables (Crop Group 9)	30 days	All activities	24 hours
Potatoes	14 days	All activities	24 hours

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

DO NOT apply in greenhouses.

Avoid inhalation of vapours/dust and spray mist, and working in spray mist.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

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. Gloves are not required during application within a closed cab.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing. After spraying, wash hands and shower thoroughly with soap and water.

Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. Do not reuse them.

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.

Wear freshly laundered clothes daily.

Do not wear contaminated shoes.

Users should wash hands and exposed skin before eating, drinking, chewing gum, using tobacco, applying cosmetics or using the toilet.

While using product, do not eat, drink or use tobacco (including smoking).

6.0 ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to small wild mammals.

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 filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

The residues of oxathiapiprolin and fluazinam are persistent and may carry over. It is recommended that this product not be used in areas treated with any products containing oxathiapiprolin or fluazinam during the previous season.

7.0 STORAGE

Keep in original container, tightly closed, during storage. Store this product away from seed, food, feed or fertilizer.

Repeated freeze-thawing of ORONDIS® ADVANCED Fungicide will not affect the physical integrity of the product. If the product should freeze, allow to thaw and agitate thoroughly prior to use.

8.0 DISPOSAL

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for clean-up of spills.

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 or territorial requirements.

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.

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

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Pamphlet

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Wear freshly laundered clothes daily.

Do not wear contaminated shoes.

Users should wash hands and exposed skin before eating, drinking, chewing gum, using tobacco, applying cosmetics or using the toilet.

While using product, do not eat, drink or use tobacco (including smoking).

6.0 ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to small wild mammals.

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 filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

The residues of oxathiapiprolin and fluazinam are persistent and may carry over. It is recommended that this product not be used in areas treated with any products containing oxathiapiprolin or fluazinam during the previous season.

7.0 STORAGE

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

Repeated freeze-thawing of ORONDIS® ADVANCED Fungicide will not affect the physical integrity of the product. If the product should freeze, allow to thaw and agitate thoroughly prior to use.

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CALL 1-800-327-8633***

9.0 PRODUCT INFORMATION

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

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 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.

DO NOT apply by air.

10.2 Ground Application

Field sprayer application: **DO NOT** apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. **DO NOT** apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (S572.1 to 572.3) coarse classification. Boom height must be 60 cm or less above the crop or ground.

10.2.1 Mixing Instructions

NOTE: WG and DF formulations are preferentially batch mixed.

NOTE: SC, SN, and SL formulations may be induced 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. Spray equipment should be thoroughly flushed with clean water before mixing ORONDIS® ADVANCED.
2. Fill spray tank 1/2 full with carrier. Engage gentle agitation.
3. Pour in the required amount of wettable powder or wettable granule, if applicable.
4. Fill tank 3/4 full and add the ORONDIS® ADVANCED and other liquid products, if applicable.
5. Fill tank 9/10 full and add emulsifiable concentrate, liquid solutions or emulsifiable oils, as required. If adding emulsifiable oils, avoid excessive agitation to prevent mixture from forming a grease-like mass and settling out.
6. Finish filling tank. Maintain gentle agitation during mixing and spraying operations.
7. Do not let stand without agitation.
8. Spray the pesticide suspension the same day as mixing.
9. When using a mixture of ORONDIS® ADVANCED and emulsifiable oil, clean tank immediately after use with a strong detergent and clean water.

10.2.2 Spraying Instructions

1. Water Volume: Apply the minimum spray volume given in the crop and pest specific instructions tabulated in the Directions for Use tables below.
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 to protect the pump and prevent clogging. Use 16 mesh or *coarser* screens on the suction side of the pump. **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: Use only ASABE coarse nozzles rated as delivering droplets of volume median diameter of 250 microns or greater. The use of higher water volumes and larger spray tip sizes will generally increase spray deposition and reduce drift.

5. Pressure: As recommended by the nozzle manufacturer to achieve ASABE coarse sized droplets.
6. Ensure hopper agitation is engaged whenever possible.
7. Keep bypass line at bottom of tank to minimize foaming.
8. Use 16 mesh suction screens, 50 mesh line and tip screens.
9. 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.

10.2.3 Equipment Clean-Up

Before Spraying:

Prior to using ORONDIS® ADVANCED, ensure that the spray tank, lines and filter are thoroughly clean.

After Spraying:

Thoroughly clean application equipment immediately after spraying. **DO NOT** allow ORONDIS® ADVANCED 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 or territorial regulations.

10.3 Spray Buffer Zones

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitats of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitats
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Potato	5	1	1	1	0
	Cucurbit Vegetables (Crop Group 9)	10	1	1	1	1

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray 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 spray buffer zones for this product for conventional application equipment can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Drift Mitigation portion of the Canada.ca web site.

10.4 Rotational Crop Restrictions

Crop, Crop Group, or Crop Subgroup	Planting Time from Last Application
Potato Soybean Grape Edible-podded legume vegetables (except pea) Dry Shelled Beans (except Soybean) Ginseng Carrot Apple Head and Stem Brassica (Crop Subgroup 5A) Leafy Brassica Greens (Crop Subgroup 5B) Bushberries (Crop Subgroup 13B) Field-grown Cucurbit Vegetables (Crop Group 9) Field pepper Bulb onion (Crop Subgroup 3-07A)	0 days
Root crops Leafy vegetables	30 days
All other crops	70 days

11.0 CROP USE DIRECTIONS

11.1 Cucurbit Vegetables (Crop Group 9)

Crops	Chayote (fruit) Chinese waxgourd (Chinese preserving melon) Citron melon Cucumber Gherkin Gourd, edible (includes hyotan, cucuzza, hechima and Chinese okra) Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumbers) Muskmelon (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 Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini) Squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash) Watermelon
Diseases Controlled	Downy mildew (<i>Pseudoperonospora cubensis</i>) Alternaria leaf spot (<i>Alternaria</i> spp.) (control up to moderate disease pressures only) Phytophthora foliar blight (<i>Phytophthora capsici</i>) – foliar phase
Diseases Suppressed	Gummy stem blight (<i>Didymella bryoniae</i>)

Use Rate (product/ha)	1.15-1.85 L/ha (22 g ai/ha oxathiapiprolin + 442 g ai/ha fluazinam – 35 g ai/ha oxathiapiprolin + 710 g ai/ha fluazinam)
Application Timing/Instructions	For control of above diseases apply on a 7 day interval, starting prior to disease establishment. Within the stated rate range, use a higher rate when disease pressure is high or for more susceptible varieties.
Minimum recommended application water volume	280 L/ha for ground applications
Maximum number of applications per year	3
Application Interval	7 days
Maximum amount of active ingredients applied per year	105 g ai oxathiapiprolin 2130 g ai fluazinam
Restricted Entry Interval (REI)	24 hours
Pre-harvest Interval (PHI)	30 days
Notes	<i>There is risk of a crop response in watermelon crops, including but not limited to vine stunting, leaf curling and speckling.</i>
Specific Use Restrictions: 1. Ground application only 2. Do not use a Group-49 containing foliar fungicide if a Group-49 containing fungicide has been applied to soil. 3. ORONDIS® ADVANCED Fungicide must not be used in nursery production of transplants. 4. When the total number of fungicide applications is less than three, apply no more than one Group 49 containing fungicide. When three or more fungicide applications are made, use a Group 49 containing fungicide in no more than 33% of applications, or a maximum of 6 applications, whichever is fewer. 5. Limit the number of Group 29 containing fungicides to 50% of the total applications in a season. 6. There will be no more than six (6) applications of oxathiapiprolin (or any other group 49 fungicide product) per year on the same acreage.	

11.2 Potato

Crops	Potato
Diseases Controlled	White mould (<i>Sclerotinia sclerotiorum</i>) Late blight (<i>Phytophthora infestans</i>)
Use Rate (product/ha)	0.633-0.79 L/ha (12.1 g ai/ha oxathiapiprolin + 243 g ai/ha fluazinam – 15.1 g ai/ha oxathiapiprolin + 303 g ai/ha fluazinam)
Application Timing/Instructions	Begin applications prior to disease development. For white mould, applications should begin at full bloom. Within the stated rate range, use a higher rate and/or shorter interval under conditions conducive to high disease pressures.
Minimum recommended application water volume	200 L/ha for ground applications
Maximum number of applications per year	4
Application Interval	7-10 days
Maximum amount of active ingredients applied per year	60.4 g ai oxathiapiprolin 1212 g ai fluazinam
Restricted Entry Interval (REI)	24 hours
Pre-harvest Interval (PHI)	14 days
Specific Use Restrictions: 1. For ground application only. 2. Do not use a Group-49 containing foliar fungicide if a Group-49 containing fungicide has been applied to soil. 3. When the total number of fungicide applications is less than three, apply no more than one Group 49 containing fungicide. When three or more fungicide applications are made, use a Group 49 containing fungicide in no more than 33% of applications, or a maximum of 6 applications, whichever is fewer. 4. For late blight, do not make more than three sequential applications of a Group 29 or Group 49 containing fungicide before alternating with an effective fungicide with a different mode of action. 5. Limit the number of Group 29 containing fungicides to 50% of the total applications in a season.	

12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, ORONDIS® ADVANCED Fungicide contains Group 29 and 49 fungicides. Any fungal population may contain individuals naturally resistant to Group 29 and 49 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:

Refer to the use restrictions within each crop for information on the total sprays per season and/or the total number of consecutive sprays of ORONDIS® ADVANCED Fungicide or other Group 29 and Group 49-containing fungicides in a season

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

Use tank mixtures with fungicide(s) 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 resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to ORONDIS® ADVANCED 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.

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

ORONDIS® is a trademark of a Syngenta Group Company.