

2024-6576
2025-05-01

Container Label

GROUP	7	FUNGICIDE
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Sercadis® FUNGICIDE

For use in Crop Group 1B (Root Vegetables), Crop Group 1C (Tuberous and Corm Vegetables), Crop Group 3 (Bulb Vegetables), Crop Group 4 (Leafy Vegetables except Brassica), Crop Group 5 (Brassica Leafy Vegetables), Crop Group 8 (Fruiting Vegetables), Crop Group 9 (Cucurbit Vegetables), Crop Group 11 (Pome Fruits), Crop Group 12 (Stone Fruits), Crop Group 13A,B, G (Berries and Small Fruits), grapes, strawberries, sugar beets and almonds

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT: Fluxapyroxad 300 g/L

Contains 1,2-benzisothiazolin-3-one at 0.007% and 2-methyl-4-isothiazolin-3-one at 0.007%, as preservatives

OR

Contains 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one, each at 0.0075%, and 2-bromo-2-nitropropane-1,3-diol at 0.024%, as preservatives

OR

Contains 1,2-benzisothiazolin-3-one at 0.0400%, 2-methyl-4-isothiazolin-3-one at 0.0004%, 2-bromo-2-nitropropane-1,3-diol at 0.024% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0011%, as preservatives

Warning, contains the allergen soy

SUSPENSION

REGISTRATION NO. 31697

PEST CONTROL PRODUCTS ACT

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT
1-800-454-2673**

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 0.1 L - Bulk

BASF Agricultural Solutions Canada Inc.
510 - 28 Quarry Park Blvd. SE
Calgary, Alberta T2C 5P9
1-877-371-2273

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PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. **DO NOT** take internally. Harmful if swallowed.
3. Avoid contact with skin and clothing.
4. Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking.
5. **DO NOT** re-enter treated area for 12 hours after application.
6. Wear long-sleeved shirt, long pants, chemical resistant gloves, socks and footwear during mixing, loading, application, clean-up and repair. Wear goggles or a face shield during mixing/loading.
7. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
8. Clean spray equipment thoroughly after use.
9. **DO NOT** contaminate domestic or irrigation water, lakes, streams or ponds by the cleaning of equipment or the disposal of wastes.
10. 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.
11. When tank mixing, consult the label of the tank mix partner for additional restrictions, precautions and directions for use. Always follow the most restrictive label.

FIRST AID

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.

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 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 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.

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Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

STORAGE

To prevent contamination, store this product away from food or feed.

DISPOSAL

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, this 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.

For Non-Returnable containers

Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements.

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

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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.

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Booklet

GROUP	7	FUNGICIDE
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Sercadis® Fungicide

For use in Crop Group 1B (Root Vegetables), Crop Group 1C (Tuberous and Corm Vegetables), Crop Group 3 (Bulb Vegetables), Crop Group 4 (Leafy Vegetables except Brassica), Crop Group 5 (Brassica Leafy Vegetables), Crop Group 8 (Fruiting Vegetables), Crop Group 9 (Cucurbit Vegetables), Crop Group 11 (Pome Fruits), Crop Group 12 (Stone Fruits), Crop Group 13A, B, G (Berries and Small Fruits), grapes, strawberries, sugar beets and almonds

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GENERAL INFORMATION

This package contains **Sercadis Fungicide**, a broad-spectrum fungicide. The active ingredient in **Sercadis Fungicide** belongs to the carboxamide (SDHI) group of fungicides.

Sercadis Fungicide inhibits spores germination, mycelial growth and sporulation of the fungus on the leaf surface. Optimum disease control is achieved when **Sercadis Fungicide** is applied preventatively in a regularly scheduled spray program and is used in a rotation program with other fungicides.

DIRECTIONS FOR USE (See specific sections for each crop group)

All Crops

Apply recommended rates of **Sercadis Fungicide** as instructed in the following series of crop application rate tables. Apply **Sercadis Fungicide** with spray equipment as specified. Equipment should be checked frequently for proper calibration.

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.

TANK MIXING

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 BASF Agricultural Solutions Canada Inc. ("BASF") at 1-877-371-2273 for information before mixing any pesticide that is not specifically recommended on this label.

Not all varieties and cultivars have been tested with possible tank mix combinations. Local conditions can also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control, or crop injury may result from mixing **Sercadis Fungicide** with other products. Therefore, before using any tank mix (fungicides, insecticides, herbicides, liquid fertilizers, biological control products, adjuvants, and additives), test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application. Consult a BASF representative for more information concerning additives.

Tank Mix Compatibility Determination

To determine compatibility, mix all components of the finished spray in proportionate quantities in a small jar. Add components to the test jar in the following order: wettable powders and water dispersible granules, liquid flowables and suspensions, emulsifiable concentrate formulations, and solutions. If the mixture does not ball-up or form flakes, sludge, jelly, oily films or layers, or other precipitates within 2 hours after mixing and can easily be resuspended with agitation, then the tested spray-mix is compatible. Always follow the most restrictive label regarding any precautions when

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tank mixing.

Crop Group 1B Root Vegetables Group (except Sugar Beet) Application Rate Table (Ground Application)

Crop	Disease Controlled OR Suppressed	Application Rate (L/ha)
Root vegetables subgroup (except sugar beet) Beet, garden Burdock, edible Carrot Celeriac Chervil, turnip-rooted Chicory Ginseng Horseradish Parsley, turnip-rooted Parsnip Radish Radish, Oriental Rutabaga Salsify Salsify, black Salsify, Spanish Skirret Turnip	Powdery mildew (<i>Erysiphe spp.</i>)	0.250 – 0.333
Root vegetables subgroup (except sugar beet) Beet, garden Burdock, edible Carrot Celeriac Chervil, turnip-rooted Chicory Ginseng Parsley, turnip-rooted Parsnip Salsify Salsify, black Salsify, Spanish Skirret	Alternaria leaf spot/blight (<i>Alternaria spp.</i>)	0.250 – 0.333
Horseradish Radish Radish, Oriental Rutabaga Turnip	Suppression only: Alternaria leaf spot/blight (<i>Alternaria raphanus, A. brassicae, A. brassicicola</i>)	0.250 – 0.333

For optimal disease control, begin applications of **Sercadis Fungicide** prior to disease development and continue on a 7 to 14 day interval if conditions are conducive for disease development. Use the higher rate and shorter interval when disease pressure is high.

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**Crop Group 1C (Tuberous and Corm Vegetables) Application Rate Table
(Ground and Aerial Application)**

Crop	Disease Controlled	Application Rate (L/ha)
<u>Tuberous and corm vegetables</u> Chinese artichoke, Jerusalem artichoke, chufa, potato, sweet potato, true yam	Early blight (<i>Alternaria solani</i>)	0.167 – 0.333
Potato	Rhizoctonia canker (<i>Rhizoctonia</i> spp.) – In-furrow	0.333
	White mold (<i>Sclerotinia sclerotiorum</i>)	0.333

For control of alternaria early blight, begin applications of **Sercadis Fungicide** prior to disease development at 0.167 to 0.333 L/ha. Apply **Sercadis Fungicide** at 0.333 L/ha at the beginning of flowering to control white mold (*Sclerotinia sclerotiorum*). Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.

The use of a non-ionic surfactant (0.125 % v/v) is recommended.

Instructions for In-furrow Use to Aid in the Control of Soilborne Rhizoctonia in Potatoes

Use 0.333 L/ha of **Sercadis Fungicide** in furrow to control soilborne rhizoctonia in potato. Refer to the chart below to determine the rate per 1000 m of row, based on various row spacings. Apply at planting as an in furrow spray by directing spray pattern to uniformly cover seed pieces and surrounding soil. The spray pattern should be a 10-20 cm (4 to 8 inch) band that is applied to the seed piece prior to being covered with soil.

Use a minimum volume of application of 50 L of water per hectare.

Product Rate (L/ha) (L/ha product)	Product Rate (L per 1000 metres of row)				
	81 cm (32") rows	86 cm (34") rows	91 cm (36") rows	96.5 cm (38") rows	101 cm (40") rows
0.333	0.026	0.028	0.030	0.032	0.034

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**Crop Group 3 Bulb Vegetables Group Application Rate Table
(Ground Application)**

Crop	Disease Controlled OR Suppressed	Application Rate (L/ha)
Bulb vegetables group	Botrytis leaf blight (<i>Botrytis squamosa</i>)	0.333 – 0.666
Chive, fresh leaves Chive, Chinese, fresh leaves Daylily, bulb Elegans hosta Fritillaria, bulb Fritillaria, leaves Garlic, bulb Garlic, great- headed, bulb Garlic, serpent, bulb Kurrat Lady's leek Leek Leek, wild Lily, bulb 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	Purple blotch and leaf blight (<i>Alternaria porri</i>) Suppression Only: Stemphylium leaf blight and stalk rot (<i>Stemphylium vesicarium</i>)	0.250 – 0.333
Begin applications of Sercadis Fungicide prior to onset of disease development and continue on a 7 to 14 day interval. Use the shorter interval and/or the higher rate when disease pressure is high.		

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**Crop Group 4 Leafy Vegetables Group (except Brassica) Application Rate Table
(Ground Application)**

Crop	Disease Suppressed	Application Rate (L/ha)
Leafy vegetables group (except Brassica) Amaranth Arugula Cardoon Celery Celery, Chinese Celtuce Chervil Chrysanthemum (edible-leaved and garland) Corn salad Cress (garden and Upland) Dandelion Dock Endive Fennel, Florence Lettuce (head and leaf) Orach Parsley Purslane (garden and winter) Radicchio (red chicory) Rhubarb Spinach Spinach (New Zealand and vine) Swiss chard	Sclerotinia leaf drop caused by <i>Sclerotinia minor</i> OR <i>S. sclerotiorum</i>	0.250 – 0.333
<p>Begin applications of Sercadis Fungicide prior to onset of disease development and continue on a 7 to 14 day interval. Use the shorter interval and/or the higher rate when disease pressure is high.</p> <p>Precautions: <u>Spinach (all varieties)</u>. DO NOT apply Sercadis Fungicide to spinach as a tank mix with any other pesticide products, adjuvants, additives, nutrients or anything other than water.</p>		

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Crop Group 5 Brassica Leafy Vegetables Group Application Rate Table (Ground Application)

Crop	Disease Controlled OR Suppressed	Application Rate (L/ha)
Brassica leafy vegetables group <u>Head and stem</u> Broccoli Broccoli, Chinese Brussels sprouts Cabbage Cabbage, Chinese Cabbage, Chinese mustard Cauliflower Cavalo broccolo Kohlrabi <u>Leafy greens</u> Broccoli raab Chinese cabbage (bok choy) Collards Kale Mizuna Mustard greens Mustard spinach Rape greens	Ring spot (<i>Mycosphaerella brassicicola</i>) Suppression Only: Alternaria leaf spot (<i>Alternaria spp.</i>) Sclerotinia stem rot (<i>Sclerotinia sclerotiorum</i>)	0.250 – 0.333
Begin applications of Sercadis Fungicide prior to onset of disease development and continue on a 7 to 14 day interval. Use the shorter interval and/or the higher rate when disease pressure is high.		

Crop Group 8 (Fruiting Vegetables, except Cucurbits) Application Rate Table (Ground Application)

Crop	Disease Controlled	Application Rate (L/ha)
Eggplant, ground cherry, pepino, field pepper (all varieties), tomatillo, field tomato	Early blight (<i>Alternaria solani</i>)	0.167 – 0.333
	Black mold (<i>Alternaria alternata</i>)	0.333
For control of alternaria early blight, begin applications of Sercadis Fungicide prior to disease development at 0.167 to 0.333 L/ha. For control of black mold, apply Sercadis Fungicide at 0.333 L/ha prior to disease development. Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.		
The use of a non-ionic surfactant (0.125 % v/v) is recommended.		

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Crop Group 9 Cucurbit Vegetables Group Application Rate Table (Ground Application)

Crop	Disease Controlled OR Suppressed	Application Rate (L/ha)
Cucurbit vegetables group	Powdery mildew (<i>Podosphaera spp.</i> , <i>Sphaerotheca spp.</i> , <i>Erysiphe spp.</i>)	0.250 – 0.333
Chayote		
Chinese waxgourd		
Citron melon		
Cucumber	Suppression Only: Gummy stem blight (<i>Didymella bryoniae</i>)	0.333
Gherkin		
Pumpkin		
Watermelon		
<u>Edible gourd</u>		
Hyotan		
Cucuzza		
Chinese okra		
<u>Momordica spp.</u>		
Balsam apple		
Balsam pear		
Bitter melon		
Chinese cucumber		
<u>Muskmelon</u>		
Cantaloupe		
Casaba		
Crenshaw melon		
Golden pershaw melon		
Honeydew melon		
Honey balls		
Mango melon		
Persian melon		
Pineapple melon		
Santaclaus melon		
Snake melon		
<u>Summer squash</u>		
Crookneck squash		
Scallop squash		
Straightneck squash		
Vegetable marrow		
Zucchini		
<u>Winter squash</u>		
Butternut squash		
Calabaza		
Hubbard squash		
Acorn squash		
Spaghetti squash		

For optimal disease control, begin applications of **Sercadis Fungicide** prior to disease development and continue on a 7 to 14 day interval if conditions are conducive for disease development. Use the higher rate and shorter interval when disease pressure is high.

DO NOT apply **Sercadis Fungicide** to any crops in the Cucurbit Vegetable Group as a tank mix with any other pesticide products (including fungicides, insecticides, herbicides), adjuvants, liquid fertilizers, nutrients, any other additives, or anything other than water.

Mix **Sercadis Fungicide** with water only for applications to crops listed in the Cucurbit Vegetable

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Crop	Disease Controlled OR Suppressed	Application Rate (L/ha)
Group.		

**Crop Group 11 (Pome Fruits) Application Rate Table
(Ground Application)**

Crop	Disease Controlled	Application Rate (L/ha)
Apple, crabapple, mayhaw, pear, pear oriental, quince	Apple scab (<i>Venturia inaequalis</i>) Pear scab (<i>Venturia pirina</i>) Powdery mildew (<i>Podosphaera leucotricha</i>)	0.167 – 0.333
<p>Begin applications of Sercadis Fungicide prior to disease development when weather conditions are favorable for disease development. Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.</p> <p>The use of a non-ionic surfactant (0.125 % v/v) is recommended.</p>		

Crop Group 12 (Stone Fruits) Application Rate Table (Ground Application)

Crop	Disease Controlled	Application Rate (L/ha)
<u>Stone fruits</u> Apricot, cherry (sweet and tart), nectarine, peach, plum (all varieties), plumcot, prune	Blossom blight, brown rot, ripe fruit rot (<i>Monilinia fruticola</i> , <i>Monilinia laxa</i>)	0.333
<p>Begin applications of Sercadis Fungicide at pink bud or prior to the onset of disease development when weather conditions are favorable for disease development. Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.</p> <p>The use of a non-ionic surfactant (0.125 % v/v) is recommended.</p>		

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Crop Group 13-07 A, B, G (Berries and Small Fruits Subgroups) Application Rate Table (Ground Application)

Crop	Disease Controlled OR Suppressed	Application Rate (L/ha)
<p>Berries and small fruits subgroups</p> <p><u>Bushberry subgroup</u> Blueberry (highbush and lowbush) Currant Elderberry Gooseberry Huckleberry</p> <p><u>Caneberry subgroup</u> Blackberry (all varieties) Loganberry Raspberry (black and red) Wild raspberry</p> <p><u>Low growing berry subgroup</u> Bearberry Bilberry Cloudberry Cranberry Lingonberry Muntries Partridgeberry</p>	<p>Leaf spot (<i>Septoria spp.</i>)</p> <p>Suppression only: Botrytis gray mold (<i>Botrytis cinerea</i>)</p>	<p>0.250 – 0.666</p>
<p>Begin applications of Sercadis Fungicide prior to onset of disease development and continue on a 7 to 14 day interval. Use the shorter interval and/or the higher rate when disease pressure is high.</p>		

Grapes Application Rate Table (Ground Application)

Crop	Disease Controlled OR Suppressed	Application Rate (L/ha)
Grapes	Powdery mildew (<i>Erysiphe necator</i>)	0.250 – 0.333
<p>Begin applications of Sercadis Fungicide prior to onset of disease development and continue on a 7 to 14 day interval. Use the shorter interval when disease pressure is high.</p> <p>Use the higher rates from bunch preclosure to veraison.</p>		

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**Strawberries Application Rate Table
(Ground Application)**

Crop	Disease Controlled OR suppressed	Application Rate (L/ha)
Strawberries	Powdery mildew (<i>Sphaerotheca macularis</i>)	0.250 – 0.333
	Suppression only: Botrytis gray mold (<i>Botrytis cinerea</i>)	0.50 – 0.666

Begin applications of **Sercadis Fungicide** no later than 10% bloom, or prior to disease development and continue on a 7 to 14 day interval. Use the shorter interval and/or the higher rate when disease pressure is high.

**Sugar Beets Application Rate Table
Ground / In-Furrow and Aerial Application**

Crop	Disease Controlled	Application Rate (L/ha)
Sugar beets	Powdery mildew (<i>Erysiphe betae</i>)	0.333
	Rhizoctonia seedling disease (<i>Rhizoctonia solani</i>)	See chart below

For optimal disease control, begin applications of **Sercadis Fungicide** prior to disease development. For control of powdery mildew, apply **Sercadis Fungicide** at 0.333 L/ha. Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.

The use of a non-ionic surfactant (0.125 % v/v) is recommended.

Instructions for In-furrow Use to Aid in the Control of Soilborne Rhizoctonia in sugar beets

Use 0.333 L/ha of **Sercadis Fungicide** in furrow to control soilborne *Rhizoctonia solani* in sugar beets. Refer to the chart below to determine the rate per 1000 m of row, based on various row spacings. Apply at planting as an in-furrow spray by directing spray pattern to uniformly cover seed pieces and surrounding soil. The spray pattern should be a 10-20 cm (4 to 8 inches) band that is applied to the seed piece prior to being covered with soil.

Use a minimum volume of application of 50 L of water per hectare.

Product Rate (L/ha)	Product Rate (L per 1000 metres of row)				
	81 cm (32") rows	86 cm (34") rows	91 cm (36") rows	96.5 cm (38") rows	101 cm (40") rows
0.333	0.026	0.028	0.030	0.032	0.034

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Almond Application Rate Table (Ground Application)

Crop	Disease Controlled	Application Rate (L/ha)
Almond	Alternaria leaf spot (<i>Alternaria alternata</i>)	0.333
	Brown rot / Blossom blight (<i>Monilinia laxa</i> OR <i>M. fructicola</i>)	0.25 – 0.42
<p>Begin applications of Sercadis Fungicide prior to onset of disease development and continue on a 7 to 14 day interval up to 14 days before harvest.</p> <p>No restriction on livestock feeding of almond hulls.</p>		

Crop-Specific Restrictions and Limitations

Crop	Minimum Time from Application to Harvest (PHI) (days)	Maximum Product Rate/ha per Application (Litres)	Maximum Number of Applications per Season	Maximum Product Rate/ha per Season (Litres)
Berries and small fruits subgroups (Crop Group 13-07 A, B, G)	0	0.666	3	2.0
Brassica leafy vegetables group (Crop Group 5)	3	0.333	3	1.0
Bulb vegetables group (Crop Group 3)	7	0.666	3	2.0
Cucurbit vegetables group (Crop Group 9)	0	0.333	3	1.0
Fruiting vegetables (Crop Group 8)	7	0.333	3	1.0
Grapes	14	0.333	6	2.0
Leafy vegetables group (except Brassica) (Crop Group 4)	1	0.333	3	1.0
Pome fruits (Crop Group 11)	0	0.333	4	1.33
Root Vegetables (except Sugar beet) (Crop SubGroup 1B)	7	0.333	3	1.0
Stone fruits (Crop Group 12)	0	0.333	3	1.0
Strawberries	0	0.666	3	2.0
Sugar beets	7	0.333	3	1.0
Almond	14	0.420	3	0.840

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Crop	Minimum Time from Application to Harvest (PHI) (days)	Maximum Product Rate/ha per Application (Litres)	Maximum Number of Applications per Season	Maximum Product Rate/ha per Season (Litres)
Tuberous and corm vegetables (Crop Subgroup 1C)	7	0.333	3	1.0

Ground application

Apply **Sercadis Fungicide** at rates listed in the Application Rate and Timing Tables (crop specific) when conditions are favourable for the development of disease. Use a minimum water volume of 100 L/ha and ensure thorough coverage of foliage. Consult nozzle manufacturers recommendation for spray pressures for specific nozzles.

Airblast application

Apply recommended rates of **Sercadis Fungicide** as instructed in the following series of crop specific application rate and timing tables. Apply **Sercadis Fungicide** with ground equipment. Equipment should be checked frequently for proper calibration.

Aerial application

Apply **Sercadis Fungicide** at rates listed in application rate and timing tables (crop specific) when conditions are favourable for the development of disease. Use a minimum water volume of 50 L/ha. Ensure thorough coverage of foliage. Consult nozzle manufacturers recommendation for spray pressures for specific nozzles.

Instructions for Aerial Applications

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. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

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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.

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 1-877-371-2273 or obtain technical advice from the distributor or your provincial agricultural representative.

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) medium classification. Boom height must be 60 cm or less above the crop or ground.

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.

Aerial Application

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

Spray Buffer Zones

Use of the following spray methods or equipment **DO NOT** require a spray buffer zone: hand-held or backpack sprayer and spot treatment.

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

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freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Spray Buffer Zone Specifications for Sercadis Fungicide

Method of application	Crop		Spray Buffer Zones (metres) Required for the Protection of:		
			Freshwater Habitat of Depths:		Terrestrial Habitat
			Less than 1 m	Greater than 1 m	
Field sprayer	Crop group 1B root vegetables group (except sugar beet), tuberous and corm vegetables, crop group 5 (Brassica leafy vegetables), crop group 9 (cucurbit vegetables), fruiting vegetables (except cucurbits), sugar beets		1	0	0
	Berries and small fruits subgroups (crop group 13-07 A, B), strawberries, bulb vegetables, leafy vegetables (except Brassica)		1	1	1
Airblast	Stone fruits	Early growth stage	5	0	0
		Late growth stage	3	0	0
	Berries and small fruits subgroups (crop group 13-07 A, B), grapes	Early growth stage	15	1	1
		Late growth stage	5	1	1
	Pome fruits, almond	Early growth stage	10	0	0
		Late growth stage	4	0	0
Aerial	Tuberous and corm vegetables, sugar beets	Fixed wing	5	0	0
		Rotary wing	3	0	0

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 (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca web site.

ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

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

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that **Sercadis Fungicide** contains a Group 7 fungicide. Any fungal population may contain individuals naturally resistant to **Sercadis Fungicide** and other Group 7 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same locations. Other resistance mechanisms that are not linked to site of action but are 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 **Sercadis Fungicide** or other Group 7 fungicides with different groups that control the same pathogens. Avoid application of consecutive sprays of **Sercadis Fungicide** or other fungicides in the same group in a season. **DO NOT** apply more than two (2) sequential applications of **Sercadis Fungicide** before alternating to a labeled fungicide with a different mode of action for at least one application. **DO NOT** exceed the total number of applications of **Sercadis Fungicide** per season as stated in the Crop-Specific Restrictions and Limitations.
- 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 resistance development. Notify BASF if reduced sensitivity of the pathogen to **Sercadis 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.

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- 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 BASF representatives at 1-877-371-2273 or at www.agsolutions.ca.

MIXING

1. Ensure the spray tank is clean before use. Follow the clean-out recommendations stated on the label of the product that was previously used.
2. Fill the spray tank one-half full of water and start agitation.
3. Add the required amount of **Sercadis Fungicide** to the tank.
4. Add the required amount of the tankmix partner.
5. Add the recommended amount of adjuvant.
6. Continue agitation while filling the remainder of the spray tank.
7. After use, clean the spray tank according to PRECAUTIONS.

RESTRICTIONS AND LIMITATIONS

1. All crops on this label can be grazed or fed to livestock. For livestock feeding and grazing, observe the minimum preharvest intervals specified for each crop under the Crop-Specific Restrictions and Limitations section on this label. Do not harvest cereals for forage or hay within 7 days of the last application.
2. Crop Rotation Restrictions: Tuberos and corm vegetables, sugar beets, legume vegetables, fruiting vegetables, pome fruits, stone fruits, cereals, oilseeds and peanuts may be planted immediately following the last application. A plant-back interval of one year is required for all other crops.
3. **DO NOT** use in greenhouses.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. **DO NOT** take internally. Harmful if swallowed.
3. Avoid contact with skin and clothing.
4. Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking.

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5. **DO NOT** re-enter treated area for 12 hours after application.
6. Wear long-sleeved shirt, long pants, chemical resistant gloves, socks and footwear during mixing, loading, application, clean-up and repair. Wear goggles or a face shield during mixing/loading.
7. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
8. Clean spray equipment thoroughly after use.
9. **DO NOT** contaminate domestic or irrigation water, lakes, streams or ponds by the cleaning of equipment or the disposal of wastes.
10. 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.
11. When tank mixing, consult the label of the tank mix partner for additional restrictions, precautions and directions for use. Always follow the most restrictive label.

FIRST AID

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.

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 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 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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

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STORAGE

To prevent contamination, store this product away from food or feed.

DISPOSAL

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, this 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.

For Non-Returnable containers

Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements.

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

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.