3/20/2014



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MAR 2 0 2014

Khalid H. Akkari, Ph.D. BASF Corporation 26 Davis Drive P.O. Box 13528 Research Triangle Park, NC 27709-3528

Subject:

Notifications per PRN 98-10

EPA Registration No.: 7969-309 Sercadis™ Xemium® Brand Fungicide D#: 488068

Date of Submission: February 26, 2014

Dear Dr. Akkari:

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the abovementioned product. The Registration Division (RD) has conducted a review of your request and finds that the action requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions regarding this action, please contact Olga Odiott at (703)308-9369.

Sincerel Michael

Acting Product Manager 13 Insecticide Branch Registration Division (7505P)

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Please read instructions on reverse before completing form. United States	Form A	pproved. OMB No.		0, Approvel expires 2-28-95 OPP Identifier Number
Environmental Protection Weshington, DC 204	• •	✓ Amenda		
Applicatio	on for Pesticide - Se	ction I		·
1. Company/Product Number EPA Reg. No.: 7969-309	2. EPA Product Ma MARK SUARE		3. Pr	oposed Classification
4. Company/Product (Name) Sercadis™ Xemium® Brand Fungicide; (BAS 700	04F) <u>PM#</u> 13			
S. Name and Address of Applicant <i>(Include ZIP Code)</i> BASF Corporation, Agricultural Products P.O. Box 13528, 26 Davis Drive Research Triangle Park, NC 27709 <i>Check if this is a new address</i>	(b)(i), my product to:		tical in co	FIFRA Section 3(c)(3) mposition and labeling
	Section - II			
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below. Explanation: Use additional page(s) if necessary. (For section BASF Corporation, Company Number 7969, is hereby submitting a Sercadis™ Xemium® Brand Fungicide (EPA Reg. No. 7969-309) si PRIA Fee Category: None (Notification) PRIA Fee: None: S	Agency le "Me Too" Other - Ex n I and Section II.) notification to revise the 2nd par	Application. plain below.	nmental Ha	azards section on the
E-Mail: khalid.akkari@basf.com	Section - III	· · · · · · · · · · · · · · · · · · ·		
1. Material This Product Will Be Packaged In:				
Child-Resistant Packaging Ves No * Certification must Unit Packaging Ves No If "Yes" Unit Packaging No. per Unit Packaging	Water Soluble Packaging Yes Vo No If "Yes" No. per Package wgt contain		Container Metel Plastic Glass Paper Other (S	pecify)
be submitted 3. Location of Net Contents Information 4. Size(B) Ret		5. Location of Lat		
	gallon, 2 1/2 gallon, > 55	6 6 1		ed to container
3. Manner in Which Lebel is Affixed to Product Lithog Paper Stenci	and the second	16		
	Section - IV			
1. Contact Point (Complete items directly below for identification		, if necessary, to pr		
Vame Khalid H. Akkari	Title Principal Regulatory Manag	er	Telephone (919) 547	a No. (include Ares Code) -2976
Certifica I certify that the statements I have made on this form and I acknowledge that any knowlingly false or misleading sta- both under applicable law.	all attachments thereto are tru	ie, accurate and cor fine or imprisonmen	nplete. t or	6. Date Application Received (Stamped)
K.H. Hkkari	3. Title Product Registration Manager			
4. Typed Name Khalid H. Akkari	5. Dete February 26	6, 2014		

EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete.

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The Chemical Company

February 26, 2014.

U. S. Environmental Protection Agency Office of Pesticide Programs (7504P) One Potomac Yard, (South Building) 2777 South Crystal Drive, Document Processing Desk, Room S-4900, Washington, DC 22202-4501

Attention: Ms. Olga Odiott (PM Team 13)

Dear Ms. Odiott:

SUBJECT: Sercadis™ Xemium® Brand Fungicide: EPA Reg. No. 7969-309 Notification for Use on Rice

Reference: Active Ingredient: Fluxapyroxad (BAS 700F): EPA Reg. No. 7969-312 Xemium® Fungicide Technical: EPA Reg. No. 7969-312

BASF Corporation, Company Number 7969, is hereby submitting a notification to revise the 2nd paragraph of the **Environmental Hazards** section on the **Sercadis™ Xemium® Brand Fungicide** (EPA Reg. No. 7969-309) by adding the statement in bold as follows:

"DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark, except as specified in this label for use on flooded rice".

The reason for the revision is to ensure that the product can be applied to rice when flooded based on the registration approval dated February 14, 2014 that included use on rice.

The following documents are being submitted in support of the notification for Sercadis™ Xemium® Brand Fungicide:

EPA Form 8570-1 "Application for Pesticide" for Sercadis™ Xemium® Brand Fungicide
 Sercadis™ Xemium® Brand Fungicide proposed supplemental labeling

If you have any questions or need further information, I can be reached by phone at 919-547-2976, or via e-mail at <u>khalid.akkari@basf.com</u>.

Sincerely, **BASF** Corporation Khalid H. Akkari, Ph.D.

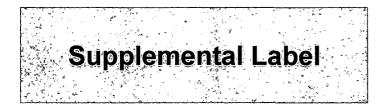
Principal Regulatory Manager Regulatory Affairs. Xemium is a registered trademark of BASF Corporation Sercadis is trademark of BASF Corporation

BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709-3528 Tel: (919) 547-2000 www.basf.com/usa Page 1 of 1

NOTIFICATION MAR 2 0 2014

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Fungicide



Sercadis

Group

XEMIUM® BRAND FUNGICIDE

For disease control in the following crops: berries and small fruits, Brassica leafy vegetables, bulb vegetables, cucurbit vegetables, grapes, leafy vegetables, rice, root vegetables, sorghum and millet, strawberries, sugarcane, and tree nuts

This supplemental label expires on September 30, 2016 and must not be used or distributed after this date.

Powered by Xemium[®] fungicide

Active Ingredient:

fluxapyroxad*: 1H-Pyrazole-4-carboxamide, 3-(difluoromethyl)-	
1-methyl-N-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)-	26.55%
Other Ingredients:	<u>73.45%</u>
Total:	
* Equivalent to 2.47 pounds of active ingredient per gallon	

EPA Reg. No. 7969-309

Environmental Hazards

This pesticide is toxic to fish. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark, except as specified in this label for use in rice. DO NOT contaminate water when disposing of equipment washwaters or rinsate.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow groundwater.

This product is classified as having high potential for reaching aquatic sediment via runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, wellmaintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of this active ingredient or its degradates from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

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Sound erosion control practices will reduce this product's potential to reach aquatic sediment via runoff.

Groundwater Advisory

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Directions For Use

- It is a violation of federal law to use this product in a manner inconsistent with its labeling.
- The supplemental labeling and the entire Sercadis[™] Xemium[®] brand fungicide container label, EPA Reg. No. 7969-309, must be in possession of the user at the time of application.
- Read the label affixed to the container for Sercadis before applying.
- Use of Sercadis according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for Sercadis.



The Chemical Company

BASF Corporation

26 Davis Drive, Research Triangle Park, NC 27709

Restrictions and Limitations

Crop Rotation Restriction - Barley, berries and small fruits, Brassica leafy vegetables, bulb vegetables, corn (all types), cotton, cucurbit vegetables, dried shelled peas and beans, edible-podded legume vegetables, fruiting vegetables, grapes, leafy vegetables, millet, oat, oilseed crops (including flax seed, rapeseed and sunflower), peanut, pome fruits, rice, root vegetables, rye, sorghum, soybean, stone fruits, strawberries, succulent shelled peas and beans, sugar beet, sugarcane, tree nuts, tuberous and corm vegetables (including potato), and wheat and triticale may be

planted immediately following the last application. For all other crops, **DO NOT** plant sooner than 365 days after the last application.

Application Instructions

Apply Sercadis[™] Xemium[®] brand fungicide according to the rate, timing, and resistance management use instructions in the Crop-specific Directions in this label. Observe the additional instructions on application methods, additive use and mixing order on the Sercadis main label.

Crop**	Minimum Time from Application to Harvest (PHI) (days)	Maximum Product Rate per Application (fl ozs/A)	Maximum Number of Applications per Season	Maximum Number of Sequential Applications	Maximum Product Rate per Season (fl ozs)
Berries and small fruits subgroups	0, 14	9.1	3	2	27.3
Brassica leafy vegetables group	3	4.6	3	2	13.8
Bulb vegetables group	7	9.1	3	2	27.3
Cucurbit vegetables group	0	4.6	3	2	13.8
Grapes – Botrytis disease	14	9.1	3	2	27.3
Grapes ~ all other diseases	14	4.55	6	2	27.3
Leafy vegetables group (except Brassica)	1	9.1	3	2	27.3
Rice	28	6.8	2	2	13.6
Root vegetables (except sugar beet) subgroup	7	4.6	3	2	13.8
Sorghum and millet	21	4.6	2.	2	9.2
Strawberries	0	9.1	30	2	27.3
Sugarcane	14	5.7	2'	2	11.4
Tree nuts group	14	5.7	3,	2	17.1

Table 1. Sercadis[™] Xemium[®] brand fungicide Restrictions and Limitations Overview*

*See Table 2. Sercadis™ Xemium[®] brand_fungicide_Crop-specific Directions for additional_directions. **For a complete list of crops within a crop group, see Table 2. Sercadis™ Xemium[®] brand fungicide Crop-specific Directions.

Table 2. Sercadis'	[™] Xemium [®] brand fu	ingicide Crop	-specific Direc	tions	
Сгор	Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Season	Maximum Product Rate per Season (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
	Alternaria leaf spot	3.4 to 9.1	3	27.3	0
Berries and small fruits subgroups* Bueberry subgroup Blueberry* (highbush and lowbush) Currant Elderberry Gooseberry Huckleberry Huckleberry (all varieties) Loganberry (all varieties) Loganberry (black and red) Wild raspberry Low growing berry subgroup Bearberry Bilberry Cloudberry Cranberry	Alternaria leaf spot and fruit rot (Alternaria spp.) Botrytis gray mold (Botrytis cinerea) Leaf spot and blotch (Mycosphaerella spp., (Septoria spp.) Monilinia blight and mummy berry (Monilinia spp.) Phomopsis leaf spot, twig blight, and fruit rot (Phomopsis spp.) Powdery mildew (Sphaerotheca spp., Microshaera spp., Oidium spp.) Spur blight (Didymella spp., Phoma spp.)	(fl ozs/A)	per Season		
Lingonberry Muntries Partridgeberry	Suppression Only: Rust (<i>Puccianiastrum</i> spp.,				
Small fruit vine climbing subgroup, (except fuzzy kiwifruit) Amur river grape Gooseberry Kiwifruit, hardy Maypop Schisandra berry	Arthuriomyces spp., Phragmidium spp., Kuehneola spp.)				14 (small fruit vine climbing)

Application Directions. Begin applications of Sercadis 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.

DO NOT apply Sercadis to any crops in the Berries and Small Fruits subgroups, including blueberries (highbush and lowbush), 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 with water only for applications to crops listed in the Berries and Small Fruits subgroups.

Resistance Management. To limit the potential for development of resistance, DO NOT apply more than 27.3 fl ozs of Sercadis per acre per season. DO NOT apply more than three (3) applications of Sercadis per season.

DO NOT make more than two (2) sequential applications of Sercadis before alternating to a labeled non-Group 7 fungicide.

Table 2. Sercad	lis™ Xemium [∞] branc	i lungiciae Cro	pp-specific Dire	cuons (continue	
Сгор	Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Season	Maximum Product Rate per Season (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days).
Brassica leafy vegetables	Alternaria leaf spot (<i>Alternaria</i> spp.)	3.4 to 4.6	3	13.8	3
group*	Black leg				
Head and stem	(Phoma lingan)				
Broccoli Broccoli, Chinese Brussels sprouts Cabbage	Cercospora leaf spot (Cercospora brassicicola)				
Cabbage, Chinese Cabbage,	Powdery mildew (Erysiphe polygoni)			•	
Chinese mustard Cauliflower Cavalo broccolo	Rhizoctonia blight (<i>Rhizoctonia solani</i>)				
Kohlrabi	Ring spot (Mycosphaerella brassicicola)		· .		
Broccoli raab Chinese cabbage (bok choy) Collards	White leaf spot (<i>Pseudocercosporella</i> <i>capsellae</i>)				
Kale	Suppression Only:				
Mizuna Mustard greens Mustard spinach Rape greens	Sclerotinia stem rot (Sclerotinia sclerotiorum)				
	Southern blight (Sclerotium rolfsii)				

Application Directions. Begin applications of Sercadis 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.

Resistance Management. To limit the potential for development of resistance, DO NOT apply more than 13.8 fl ozs of Sercadis per acre per season. DO NOT apply more than three (3) applications of Sercadis per season.

DO NOT make more than two (2) sequential applications of Sercadis before alternating to a labeled non-Group 7 fungicide.

Сгор	lis™ Xemium [®] brane Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Season	Maximum Product Rate per Season (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Bulb vegetables group*	Powdery mildew (<i>Leveillula tauri</i> ca)	3.4 to 9.1	3	27.3	7
Chive, fresh leaves Chive, Chinese, fresh leaves Daylily, bulb Elegans hosta Fritillaria, bulb	Purple blotch and leaf blight (<i>Alternaria porri</i>) Rust (<i>Puccinia porri</i>) Stemphylium leaf blight and stalk rot				
Fritillaria, leaves Garlic, bulb Garlic, great-	(Stemphylium vesicarium)				
headed, bulb Garlic, serpent, bulb	Botrytis leaf blight (<i>Botrytis</i> spp.)	4.6 to 9.1			
Kurrat Lady's leek Leek Leek, wild	Botrytis neck rot (<i>Botrytis</i> spp.)				
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			• 1		

Resistance Management. To limit the potential for development of resistance, **DO NOT** apply more than 27.3 fl ozs of **Sercadis** per acre per season. **DO NOT** apply more than three (3) applications of **Sercadis** per season.

DO NOT make more than two (2) sequential applications of Sercadis before alternating to a labeled non-Group 7 fungicide.

Сгор	lis™ Xemium [®] branc Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Season	Maximum Product Rate per Season (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Cucurbit vegetables group*	Alternaria leaf blight (Alternaria cucumerina)	3.4 to 4.6	3	13.8	0
Chayote Chinese waxgourd Citron melon	Powdery mildew (<i>Podosphaera</i> spp., <i>Sphaerotheca</i> spp., <i>Erysiphe</i> spp.,)				
Cucumber Gherkin Pumpkin	Cercospora leaf spot (Cercospora citrulina)	4.6			
Watermelon Edible gourd	Gummy stem blight (<i>Didymella bryoniae</i>)				
Hyotan Cucuzza Chinese okra	Microdochium blight (<i>Plectosporium</i> <i>tabacinum</i>)				
<i>Momordica</i> spp. Balsam apple Balsam pear Bitter melon Chinese cucumber	Target leaf spot (<i>Corynespora</i> <i>cassiicola</i>)	~			
Muskmelon Cantaloupe Casaba Crenshaw melon Golden pershaw melon Honeydew melon Honey balls Mango melon Persian melon					
Pineapple melon Santaclaus melon Snake melon			-		
Summer squash Crookneck squash Scallop squash Straightneck squash Vegetable matrow Zucchini					
Winter squash Butternut squash Calabaza ! Hubbard squash Acorn squash			· · · · · · · · · · · · · · · · · · ·		
Spaghetti squash					(continued

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Cucurbit vegetables group, continued

Application Directions. For optimal disease control, begin applications of **Sercadis** 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** 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 with water only for applications to crops listed in the Cucurbit Vegetable Group.

Resistance Management. To limit the potential for development of resistance, **DO NOT** apply more than 13.8 fl ozs of **Sercadis** per acre per season. **DO NOT** make more than two (2) sequential applications of **Sercadis** before alternating to a labeled **non-Group 7** fungicide. In areas where gummy stem blight resistance to **Group 7** fungicides have been confirmed, tank mix with chlorothalonil at full label rates and adhering to all label precautions.

Сгор	Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Season	Maximum Product Rate per Season (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Grapes	Powdery mildew (Erisyphe necator)	3.4 to 4.55	6	27.3	. 14
	Black rot (Guignardia bidwellii)	4.55			
	Botrytis gray mold (<i>Botryțis cinerea</i>)	4.5 to 9.1	3	-	
	Aids in control:				
	Summer bunch rot (Aspergillus spp., Alternaria spp., Botrytis spp., Cladosporium spp., Penicillium spp.,				
	Rhizopus spp.)				
onset of disea powdery milde depend on the	Directions. For powdery mild se. When using 3.4 fl ozs per a ew control may be possible with e current powdery mildew infec s crop growth stage and rate o	acre, continue on a n higher rates of Se tion level in the fiel	10 to 14 day interverse for the second secon	val. Longer spray ir iveness of longer s	ntervals for pray intervals will
For black rot	control, begin applications of	Sercadis before p	re-bloom and conti	nue on a 10 to 14 c	lay interval.
development o	tions targeted against Botrytis during early bloom, bunch prec shorter intervals when disease	losure and veraiso			
	diseases listed, begin applicant nterval. Use the higher rate and				and continue on a

DO NOT apply **Sercadis** to Grapes 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 with water only for application to Grapes.

Resistance Management. To limit the potential for development of resistance, **DO NOT** apply more than 27.3 fl ozs of **Sercadis** per acre per season. **DO NOT** make more than two (2) sequential applications of **Sercadis** before alternating to a labeled **non-Group 7** fungicide.

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Crop	is™ Xemium [®] brane Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Maximum Number of Applications per Season	Maximum Product Rate per Season (fl ozs/A)	Minimum Time from Application to Harvest
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	Alternaria leaf spot (Alternaria spp.) Ascochyta leaf spot (Ascochyta spp.) Cercospora leaf spot (Cercospora spp.) Phoma (Phoma spp.) Powdery mildew (Erysiphe spp., Phyllactinia spp., Sphaerotheca spp.) Rust (Puccinia spp., Uromyces spp.) Septoria leaf spot (Septoria leaf spot (Septoria spp.) Lettuce drop caused by Sclerotinia minor Botrytis rot (Botrytis spp.) Lettuce drop caused by Sclerotinia	(fl ozs/A) 3.4 to 9.1 4.6 to 9.1	3	(fl ozs/A) 27.3	(PHI) (days) 1
(red chicory) Rhubarb Spinach Spinach (New Zealand and vine) Swiss chard	sclerotiorum	· .			

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Leafy vegetables group, continued

Application Directions. Begin applications of **Sercadis** 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.

Tank Mix Restrictions

Spinach (all varieties). DO NOT apply **Sercadis** to spinach 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 with water only for applications to Spinach (all varieties).

Leafy Vegetables (except spinach). It is impossible for BASF to test all varieties of leafy vegetables for sensitivity to Sercadis under all environments and all potential product mixture combinations. Local conditions can also influence crop tolerance and may not match those under which BASF has conducted testing. Proceed with caution with regard to Sercadis use, particularly in tank mixes and/or adjuvant combinations on leafy vegetables. To reduce the risk of leafy vegetable injury, BASF recommends testing Sercadis or Sercadis tank mixtures on a small portion of the crop before broadscale use.

To the extent consistent with applicable law, the user assumes all risks associated with adding products to the **Sercadis** spray solution. Refer also to the **Conditions of Sale and Warranty** section of this label.

Resistance Management. To limit the potential for development of resistance, **DO NOT** apply more than 27.3 fl ozs of **Sercadis** per acre per season. **DO NOT** apply more than three (3) applications of **Sercadis** per season.

DO NOT make more than two (2) sequential applications of **Sercadis** before alternating to a labeled **non-Group 7** fungicide.

Сгор	Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Season	Maximum Product Rate per Season (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Rice* Wild Rice*	Aggregate sheath spot (Rhizoctonia oryzae- sativae)	3.4 to 6.8	2	13.6	28
	Sheath blight (<i>Rhizoctonia solani</i>)				

Application Directions. Begin applications of **Sercadis** at the first sign of disease. Repeat applications on 7 to 14 day intervals as needed if conditions for disease infection continue. Use the shorter interval and/or the higher rate when disease pressure is high.

Sercadis can be applied by ground sprayer or aerial equipment. For ground application, apply a minimum of 15 gpa (gallons per acre) spray solution. For aerial application, apply 7 to 10 gpa spray solution. **DO NOT** apply **Sercadis**. through any type of irrigation system. Apply **Sercadis** with a non-ionic spray (NIS) adjuvant at 0.25% v/v. Under hot weather conditions apply **Sercadis** with 1% COC. BASF recommends the use of a Chemical Producers and Distributers Association certified adjuvant.

Resistance Management. To limit the potential for development of resistance, **DO NOT** apply more than 13.6 fl ozs of **Sercadis** per acre per season. **DO NOT** make more than two (2) sequential applications of **Sercadis** before alternating to a labeled **non-Group 7** fungicide.

Сгор	dis™ Xemium [®] bran Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Season	Maximum Product Rate per Season (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Root vegetables (except sugar beet) subgroup*	Alternaria leaf spot/blight (<i>Alternaria</i> spp.)	3.4 to 4.6	3	13.8	7-
Beet, garden Burdock, edible Carrot Celeriac	Powdery mildew (Erysiphe spp., <i>Leveillula</i> spp.)				
Chervil, turnip- rooted Chicory Ginseng	Cercospora leaf spot/blight (<i>Cercospora</i> spp.) Suppression Only:	4.6			
Horseradish Parsley, turnip-rooted Parsnip Radish	Sclerotinia white mold/cottony rot (<i>Sclerotinia</i> <i>sclerotiorum</i>)				
Radish, Oriental Rutabaga Salsify Salsify, black Salsify, Spanish Skirret Turnip	Southern blight (<i>Sclerotium rolfsii</i>)				

Application Directions. For optimal disease control, begin applications of Sercadis 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.

Resistance Management. To limit the potential for development of resistance, DO NOT apply more than 13.8 fl ozs of Sercadis per acre per season. DO NOT make more than two (2) sequential applications of Sercadis before alternating to a labeled **non-Group 7** fungicide.

Сгор	Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Season	Maximum Product Rate per Season (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Sorghum*Gray leaf spot and Cercospora leaf spot (Cercospora spp.)Millet*Orthern leaf blight (Exserohilum turcicum)Rust (Puccinia spp.)	Cercospora leaf spot (<i>Cercospora</i> spp.) Northern leaf blight (<i>Exserohilum</i>	3.4 to 4.6	2	9.2	21
	Southern leaf blight and Bipolaris leaf spot (<i>Bipolaris</i> spp.)				

Application Directions. For optimal disease control, begin applications of Sercadis prior to disease development. Use the higher rate when disease pressure is high.

Resistance Management. To limit the potential for development of resistance, DO NOT apply more than 9.2 fl ozs of Sercadis per acre per season. DO NOT apply more than two (2) sequential applications of Sercadis before alternating to a non-Group 7 fungicide.

Сгор	Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Season	Maximum Product Rate per Season (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Strawberries*	Leaf spot (Mycosphaerella fragariae, Ramularia tulasnei)	3.4 to 5.7	3	27.3	0
	Powdery mildew (Sphaerotheca macularis)				
	Botrytis gray mold (<i>Botrytis cinerea</i>)	6.9 to 9.1			

Application Directions. Begin applications of Sercadis 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.

The restricted entry interval (REI) for treated strawberries is 12 hours. Refer to the Agricultural Use Requirements on the Sercadis main label for PPE required for early entry to treated areas as permitted under the Worker Protection Standard.

Resistance Management. To limit the potential for development of resistance, DO NOT apply more than 27.3 fl ozs of Sercadis per acre per season. DO NOT make more than two (2) sequential applications of Sercadis before alternating to a labeled non-Group 7 fungicide.

Сгор	Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Season	Maximum Product Rate per Season (fi ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Sugarcane*	Brown rust (<i>Puccinia</i> <i>melanocephala</i>)	3.4 to 5.7	2	11.4	14
	Orange rust (<i>Puccinia kuehnii</i>)				

Application Directions. Begin applications of **Sercadis** at the first sign of disease. Repeat applications on 14 to 28 day intervals as needed if conditions for rust infection continue. Use the shorter interval and/or the higher rate when disease pressure is high.

Sercadis can be applied by ground or air. When applying by air, DO NOT use less than 5 gallons of spray solution per acre.

Resistance Management. To limit the potential for development of resistance, **DO NOT** apply more than 11.4 fl ozs of **Sercadis** per acre per season. **DO NOT** apply more than two (2) sequential applications of **Sercadis** before alternating to a labeled **non-Group 7** fungicide.

*Not registered for use in California.

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Сгор	idis™ Xemium [®] bran Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Season	Maximum Product Rate per Season (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Tree Nuts Group*	Alternaria late blight (Alternaria spp.)	3.4 to 5.7	3	17.1	14
Almond Beech nut Brazil nut Butternut Cashew Chestnut Chiquapin Filbert Hickory nut Macadamia nut Pecan Pistachio Walnut (black and English)	Botrytis blossom and shoot blight (<i>Botrytis cinerea</i>)				
	Brown rot/Blossom blight (<i>Monilini</i> a spp.)				-
	Eastern filbert blight (<i>Anisogramma</i> anomala)				
	Green fruit rot/ Jacket rot (<i>Botrytis cinerea,</i> <i>Sclerotinia</i> <i>sclerotiorum,</i> <i>Monilinia laxa</i>)				
	Leaf rust (<i>Tranzschelia</i> discolor)				
	Panicle and shoot blight (<i>Botryosphaeria</i> <i>dothidea</i>)				
	Scab (Cladosporium carpophilum, C. caryigenum)				
	Shothole (<i>Wilsonomyces</i> <i>carpophilus</i>)				
	Suppression Only:				
	Hull rot (<i>Rhizopus stolonifer</i> and <i>Monilinia</i> spp.)		•		

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Tree nuts group, continued

Application Directions. For almond, begin applications of **Sercadis** prior to onset of disease development and continue on a 7 to 14 day interval up to 14 days before harvest.

For filbert, begin applications at budswell to budbreak, or prior to infection and onset of disease development. Continue on a 7 to 14 day interval to cover and protect new growth.

For pecan, begin applications of **Sercadis** prior to onset of disease development and continue on a 7 to 21 day interval for the control of scab. Use the shorter interval and/or the higher rate when disease pressure is high.

For pistachio, apply **Sercadis** prior to onset of disease development and continue on a 10 to 30 day interval. Use the higher rate and shorter intervals when disease pressure is high.

For all other crops listed, apply Sercadis prior to disease development and continue on a 7 to 28 day interval. In all cases use the shorter interval when shoot growth is rapid.

No restriction on livestock feeding of almond hulls.

For aerial application to tree nuts, **DO NOT** use less than 10 gallons of spray solution per acre.

Resistance Management. To limit the potential for development of resistance, **DO NOT** apply more than 17.1 fl ozs of **Sercadis** per acre per season. **DO NOT** make more than two (2) sequential applications of **Sercadis** before alternating to a labeled **non-Group 7** fungicide.

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The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

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