

REDUCED USE RATE FOR DISEASE CONTROL IN APPLES GROWN IN INDIANA

General Information

Product Information

This package contains Sercadis Xemium brand fungicide, a suspension concentrate (SC) containing the active ingredient fluxapyroxad. The active ingredient in Sercadis belongs to the succinate-dehydrogenase (SDH) inhibitor class of fungicides. To maximize disease control, apply Sercadis in a regularly scheduled protection spray program and use in a rotation program with other fungicides.

Because of its high specific activity, Sercadis has good residual activity against target fungi. Sercadis is not for use in greenhouse or transplant production.

Mode of Action

Fluxapyroxad, the active ingredient of Sercadis, belongs to the group of respiration inhibitors classified by the U.S. EPA and Canada PMRA as a target site of action Group 7 fungicide.

Resistance Management

Sercadis contains fluxapyroxad, a Group 7 fungicide, and is effective against pathogens resistant to fungicides with modes of action different from those of target site Group 7, such as dicarboximides, sterol inhibitors, benzimidazoles, or phenylamides. Fungal isolates resistant to Group 7 fungicides may eventually dominate the fungal population if Group 7 fungicides are used predominantly and repeatedly in the same field in successive years as the primary method of control for the targeted pathogen species. This may result in reduction of disease control by Sercadis or other Group 7 fungicides. To maintain the performance of Sercadis in the field, DO NOT exceed the specified number of sequential applications of Sercadis or the total number of applications of Sercadis per season stated in Table 1. Sercadis Xemium brand fungicide Restrictions and Limitations Overview and Table 2.

Sercadis Xemium brand fungicide Crop-specific Directions. Adhere to the label

instructions regarding the sequential use of Sercadis or other target site of action Group 7 fungicides that have a similar site of action on the same pathogens.

Resistance Management Advisory

The following recommendations may be considered to delay the development of fungicide resistance:

1. Tank mixtures – Use Sercadis in tank mixtures with fungicides from different target site of action groups that are registered/permitted for the same use and that are effective against the pathogens of concern. Use at least the minimum labeled rates of each fungicide in the tank mix.
2. IPM – Integrate Sercadis into an overall disease and pest management program. Follow cultural practices known to reduce disease development. Consult your local extension specialist, certified crop advisor and/or BASF representative for additional IPM strategies established for your area. Sercadis may be used in agricultural extension advisory (disease forecasting) programs, which recommend application timing based on environmental factors favorable for disease development.
3. Monitoring – Monitor efficacy of all fungicides used in the disease management program against the targeted pathogen and record other factors that may influence fungicide performance and/or disease development. If a Group 7 target site fungicide such as Sercadis appears to be less or no longer effective against a pathogen that it previously controlled or suppressed, contact a BASF representative, local extension specialist, or certified crop advisor for further investigation.

Application Instructions

Apply specified rates of Sercadis as instructed in Table 2. Sercadis Xemium brand fungicide Crop-specific Directions. Thorough coverage is best achieved by ground application; however, aerial applications can be made for barley or in conditions where applications are not possible using ground equipment. Sercadis can also be applied through sprinkler irrigation equipment. Check equipment frequently for calibration.

Under low-level disease conditions, use the minimum application rates; use maximum application rates and shortened spray schedules for severe or

threatening disease conditions.

Ground Application

Apply Sercadis in sufficient water to ensure thorough coverage of foliage, bloom, and fruit. Thorough coverage is required for optimum disease control.

Instructions for Directed or Banded Crop Sprays

The application rates shown in Table 1. Sercadis Xemium brand fungicide Restrictions and Limitations Overview and Table 2. Sercadis Xemium brand fungicide Crop-specific Directions on the label reflect the amount of product to be applied uniformly over an acre of ground on a broadcast basis.

Sercadis may be applied as a directed or banded spray over the rows or plant beds with the alleys or row middles left unsprayed. For such uses, reduce the rate of Sercadis in proportion to the area actually sprayed. Make this adjustment to avoid applying the product at use rates higher than permitted on the label.

Aerial Application

Aerial application can be made and thorough coverage is required to obtain optimum disease control. Avoid applications under conditions when uniform coverage cannot be obtained or when spray drift may occur. Use no less than 2 gallons of spray solution per acre. Thorough coverage is required for optimum disease control.

Use Precautions for Sprinkler Irrigation

Applications

- This product can be applied through sprinkler irrigation systems including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move irrigation systems. DO NOT apply this product through any other type of irrigation system.
- Add Sercadis to the pesticide supply tank containing sufficient water to maintain a continuous flow by the injection equipment. In continuous moving systems, inject this product-water mixture continuously, applying the labeled rate per acre for that crop. DO NOT exceed 1/2 inch (13,577 gallons) of water per acre. In stationary or

noncontinuous moving systems, inject the productwater mixture in the last 15 to 30 minutes of each set allowing sufficient time for all of the required pesticide to be applied by all the sprinkler heads and applying the labeled rate per acre for that crop. DO NOT apply when wind speed favors drift beyond the area intended for treatment. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. Thorough coverage of foliage is required for good control. Maintain good agitation during the entire application period.

- Contact a state extension service specialist, equipment manufacturers or other experts for calibration questions.
- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

- Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

- DO NOT connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

- DO NOT apply when wind speed favors drift beyond the area intended for treatment.

Restrictions and Limitations

- DO NOT exceed the maximum product rate (fl ozs/A) per year (season), the maximum rate per application, or the total number of applications of Sercadis per year (season) as stated in Table 1. Sercadis Xemium brand fungicide Restrictions and Limitations Overview and Table 2. Sercadis Xemium brand fungicide Crop-specific Directions. Preharvest interval (PHI) restrictions are also included in these tables.

- DO NOT use Sercadis in greenhouse or transplant production.

- Crop Rotation Restriction - Barley, corn (all types), cotton, dried shelled peas and beans, ediblepodded legume vegetables, fruiting vegetables, oat, oilseed crops (including flax seed, rapeseed and sunflower), peanut, pome fruits, rice, rye, sorghum, soybean, stone fruits, succulent shelled peas and beans, sugar beet, tuberous and corm vegetables (including potato), 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.

- Sercadis is not for sale, distribution, or use in Nassau and Suffolk counties in New York State.

Limitations, Restrictions, and Exceptions

All applicable directions, restrictions, precautions, and Conditions of Sale and

Warranty on the EPA registered label are to be followed. Refer to Sercadis Xemium Brand Fungicide labeling for additional instructions. Always read and follow label directions.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Rates

[field_rates 0](#)

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Restricted Entry Interval

12 hours

Timings

[N.A.](#)