

SCLEROTINIA DISEASE CYCLE

Sclerotinia sclerotiorum

RISK ASSESSMENT AND SCOUTING:

[CLICK HERE FOR ASSESSMENT CARD](#)

- Check out the Canadian Canola Council's Disease Scouting & Risk Assessment Card.
- Yield losses are estimated to be half the level of infection. Eg 50% infection = 25% yield loss.
- To calculate revenue loss/acre, multiply percent potential yield loss by estimated yield by cost per bushel.

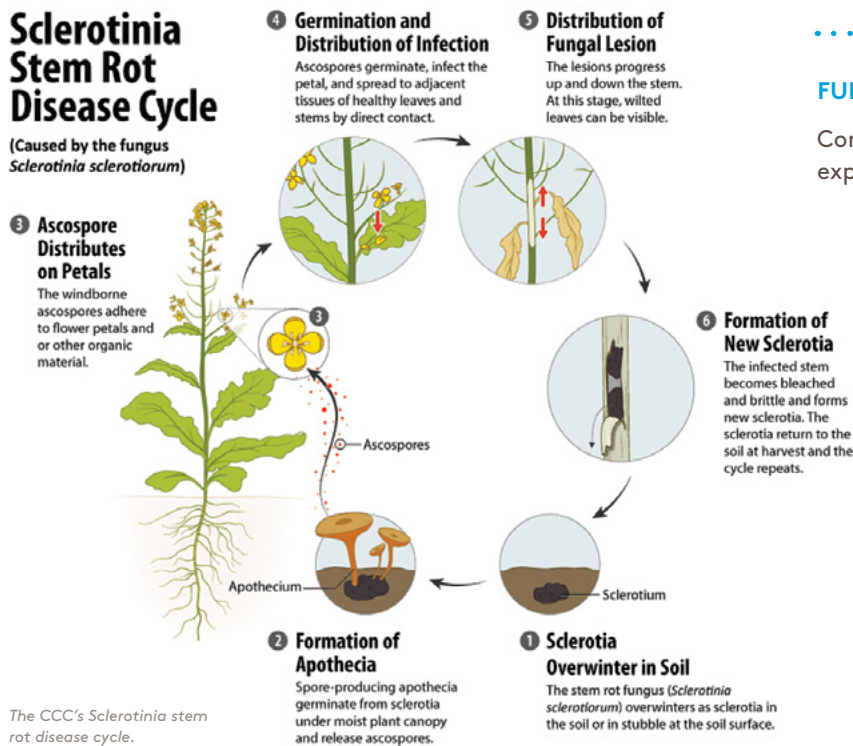
FUNGICIDE APPLICATION:

Consider making a fungicide application if you experience any of the following conditions:

- Warm soil temperatures through June and early July.
- Soil moisture at or near field capacity through June and right up to flowering.
- Presence of Sclerotinia in previous years.
- Humidity levels in canopy and moisture on plants, allowing for 'Petal stick'.
- Frequent showers & moderate temperatures in July.
- Rainfall (at least 5-10 mm) on > than 2 days per week.
- Crop canopy wet throughout most of day.
- Temperatures day and night are warm vs. cool.

Sclerotinia Stem Rot Disease Cycle

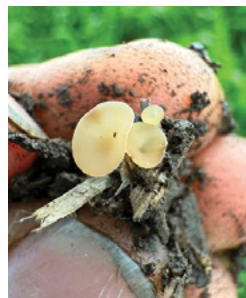
(Caused by the fungus *Sclerotinia sclerotiorum*)



The CCC's *Sclerotinia* stem rot disease cycle.

IDENTIFICATION IN THE FIELD:

- Apothecia (mushroom-shaped sexual structures) can be found from mid-June through September.
- Apothecia thrive under warm, moist conditions.
- On infected canola plants, stem decomposition typically begins near the leaf axils.
- Lesions expand along the stem and can girdle the stem, causing the plant to die.



Apothecia

Credit: Dirt Road Agronomy



Petal drop in canola.



Sclerotinia infection point on stem where leaf wedged.

WHEN SCOUTING:

- 1 Diseased branches appear dead and straw-coloured, healthy stems remain green by comparison.
- 2 Infected plants often remain standing upright longer because they die before pod development, while healthy plants may lean or lodge as pods fill.
- 3 Sclerotia (black resting bodies that resemble mouse droppings) can be found inside the lower stem at harvest.
- 4 During harvest, infected stems are shredded, releasing sclerotia back into the soil, where they can survive and contribute to future disease.



FUNGICIDES

FOR CONTROL OF SCLEROTINIA IN CANOLA

MAXENTIS®



GROUP 3 & 11

Active Ingredient:

Azoxystrobin 120 g/L +
Prothioconazole 90 g/L = EC

Application Rates and Acres Treated:

Canola Sclerotinia Rate: 443 ml/ac

Acres Treated: 19 ac/jug;
267 ac/drum

Packaging:

Case: 2 × 8.45 L jugs
Drum: 118.1 L

Water Volume:

Ground: 40 L/ac (10 US gal/ac)
Aerial: 20 L/ac (5 US gal/ac)

Rainfastness:

Avoid applying when rain is forecast.

Low VOC

FORMULATION TECHNOLOGY

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PRODUCT
DETAILS.](#)

CROP STAGING (NO TANK MIX)	Apply when crop is in the 20–50 % bloom stage. Best protection will be achieved when the fungicide is applied prior to petals beginning to fall and will allow for the maximum number of petals to be protected.
KEY PESTS CONTROLLED	Sclerotinia Stem Rot
TANK MIX OPTIONS	SILENCER® 120 EC & SILENCER® DUO & COSAYR®
RE-ENTRY PERIOD	24 hours
PRE-HARVEST INTERVAL	36 days
ADDITIONAL INFO	Do not apply more than a total of one application per year.

SORATEL®



GROUP 3

Active Ingredient:

Prothioconazole 250 g/L = EC

Application Rates and Acres Treated:

Canola Sclerotinia Rate:
240 ml/ac (standard rate)

Acres Treated: 40 ac/jug;
480 ac/drum

Packaging:

Case: 2 × 9.6 L jugs
Drum: 115.2 L

Water Volume:

Ground: 40 L/ac
(10 US gal/ac)
Aerial: 20 L/ac (5 US gal/ac)

Rainfastness:

Avoid applying when rain
is forecast.

POWERED BY

Asorbital®

FORMULATION TECHNOLOGY

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TANK MIX OPTIONS	SILENCER® 120 EC & SILENCER® DUO & COSAYR®
RE-ENTRY PERIOD	24 hours
PRE-HARVEST INTERVAL	36 days
ADDITIONAL INFO	The 240 ml/ac rate is the recommended rate for most oilseed crops, however, the higher rate (280 ml/ac) is recommended for fields with a history of heavy disease pressure or for dense crop stands. Good spray coverage of the plants is essential. A second application at a rate of 240 ml/ac may be applied 10 days later, up to full bloom, if disease persists or weather conditions are favorable for disease development. When conditions favoring disease are severe, use the shorter interval.

Always read and follow label directions. | Toll-free: 1.855.264.6262 | Website: ADAMA.COM

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