

## Bio-fungicide and Bactericide

### SERENADE ASO Tech Sheet

**Serenade ASO** is a broad spectrum, preventative biofungicide for the control of many important plant diseases like Sclerotinia stem rot (white mold) and Botrytis blight in crops including canola, lentils, peas, chickpeas, soybeans and dry beans. Formulated as an aqueous suspension (liquid), **Serenade ASO** is derived from a naturally occurring bacterium, *Bacillus subtilis*. Its biological nature offers growers an effective alternative to traditional synthetic chemistries.

#### Active Ingredient:

**Serenade ASO** is powered by a complex biochemistry of *Bacillus subtilis* strain QST 713. This strain contains lipopeptides that attack spores to prevent infections and anti-bacterial metabolites which attack bacterial pathogens.

- 1) Broad anti-fungal activity
- 2) Anti-bacterial activity
- 3) Plant activating defenses and responses

#### Crops:

**Serenade ASO** can be used on a wide range of crops, including canola, lentils, peas, chickpeas, soybeans, dry beans, and other fruit and vegetable crops.

#### Rate/Timing:

Canola - 1.6 litres/acre at between 20% and 50% bloom.

Peas, lentils, chickpeas, soybeans, dry beans - 2 to 4 litres per acre. Begin applications when weather is conducive for disease conditions. Repeat applications as necessary, consult the label for complete directions on rates and timing.

#### Application:

**Serenade ASO** can be applied with regular ground spraying equipment or aerial applied in canola.

#### Water Volume:

Use a minimum water volume of 40 L/acre on oilseeds and pulses for ground application and 20 L/acre for aerial application (canola). For best results ensure thorough coverage of all foliage.

#### Rainfast:

**Serenade ASO** is rainfast after the applied product has had sufficient time to dry on the plant.

#### Pre-Harvest Interval:

**Serenade ASO** can be applied up to and including the day of harvest.

#### Pack Sizes:

**Serenade ASO** is packed in 2 x 9.46 litre jugs per case, 500 litre totes and 1000 litre totes.

#### Storage:

Maximum storage period of two years at room temperatures up to 25° C. Store in a dry area in original container. Do not freeze.

