

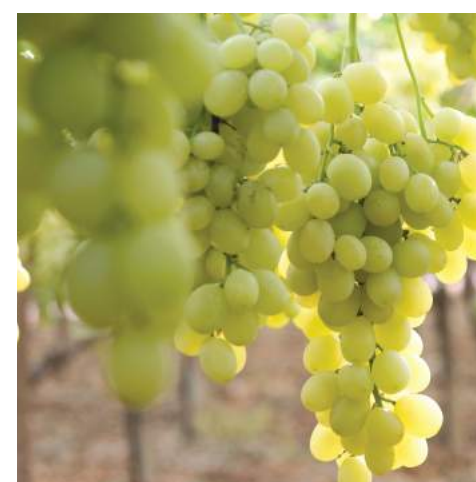
**GROUND APPLICATION ONLY**

Crops	Diseases Suppressed	Rates
<b>Leafy Vegetables</b> (Crop Group 4): Amaranth, arugula, Chinese celery, celtuce, chervil, corn salad, cress, dandelion, dock, endive, fennel, lettuce, orach, parsley, radicchio and swiss chard	Sclerotinia rot	0.6-1.7 kg/ha (0.2-0.7 kg/ac.)
	Botrytis grey mould	
	Powdery mildew	1.7-3.3 kg/ha (0.7-1.3 kg/ac.)
<b>Legume Vegetables</b> (Crop Group 6): Bean ( <i>Lupinus</i> spp., <i>Phaseolus</i> spp., and <i>Vigna</i> spp.), chickpea, lentil and pea (all types)	White mould	
	Botrytis pod rot	
<b>Lettuce</b> (See also Leafy Vegetables)	Downy mildew	
<b>Lowbush blueberry</b> (See also Berries and Small Fruit)	Mummy berry	2.0-3.3 kg/ha (0.8-1.3 kg/ac.)
<b>Pome Fruits</b> (Crop Group 11): Apple, crabapple, loquat, mayhaw, pear, Oriental pear, quince and non-bearing pome fruit trees	Fire blight	1.1-1.7 kg/ha (0.4-0.7 kg/ac.)
	Scab	1.7-3.3 kg/ha (0.7-1.3 kg/ac.)
<b>Potato</b>	Early blight	1.1-2.2 kg/ha (0.4-0.9 kg/ac.)
	White mould	
	Silver scurf (post harvest for storage disease suppression)	7-14 g/tonne
<b>Radish, turnip and rutabaga</b>	Downy mildew	1.4 kg/ha (0.4 kg/ac.)
<b>Root Tuber Vegetables</b> (Crop Group 1): Garden beet, sugar beet, carrot, celeriac, chervil, chicory, ginseng, horseradish, turnip-rooted parsley, parsnip, potato, radish, Oriental radish, rutabaga, salsify, sweet potato and turnip	White mould	1.1-2.2 kg/ha (0.4-0.9 kg/ac.)
<b>Soybean</b>	White mould	0.6-2.0 kg/ha (0.2-0.8 kg/ac.)
	Brown spot	0.1-0.5 kg/ha (0.04-0.2 kg/ac.)
	Frog-eye leaf spot	
<b>Spinach</b>	White rust	0.6-1.1 kg/ha (0.2-0.4 kg/ac.)
<b>Stone Fruits</b> (Crop Group 12): Apricot, cherry, nectarine, peach, plum, plumcot and prune	Brown rot	1.1-1.7 kg/ha (0.4-0.7 kg/ac.)
<b>Sugar and garden beet</b>	Cercospora leaf spot	0.5-1.1 kg/ha (0.2-0.4 kg/ac.)
<b>Tomatoes, peppers</b> (See also Fruiting Vegetables)	Powdery mildew	1.7-3.3 kg/ha (0.7-1.3 kg/ac.)
	Bacterial spot	0.6-1.7 kg/ha (0.2-0.7 kg/ac.)

fact sheet



**BROAD SPECTRUM,  
PREVENTATIVE  
BIOLOGICAL FUNGICIDE  
FOR MANY PLANT  
DISEASES**



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# did you know?

**SERENADE® OPTI IS A BIOLOGICAL FUNGICIDE SUPPORTING THE SUPPRESSION OF EARLY BLIGHT AND WHITE MOULD IN POTATOES AND POWDERY MILDEW, BOTRYTIS AND BACTERIAL DISEASES IN MANY FRUIT AND VEGETABLE CROPS.**

## FEATURES AND BENEFITS

- Serenade OPTI is a new formulation, replacing the popular Serenade MAX, providing the same disease protection in a smaller, easier to use package
- For disease control, Serenade OPTI should be used in a spray program that includes a conventional fungicide
- Provides anti-fungal and anti-bacterial activity
- Stimulates natural plant defence mechanisms
- Has demonstrated increased plant growth effects
- Apply when environmental conditions are conducive to disease development

- Protects a variety of crops including potatoes, blueberries, leafy vegetables, pome fruit and many other fruit and vegetable crops
- Unique mode of action (FRAC Group 44) makes for the best defence against the development of resistance
- Is exempt from tolerances (no MRL or residue concerns), so you can sell your crops into even the most restrictive markets

## APPLICATION

- **Ground:** Thorough coverage is essential for optimum disease control. To achieve good coverage, use the appropriate spray pressure, litres per hectare, nozzles, nozzle spacing and ground speed. Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration.
- **Air:** Use the application rate indicated for the appropriate crop in sufficient water to achieve thorough coverage

## MODE OF ACTION

- Group 44 fungicide – QST 713 strain of dried *Bacillus subtilis*

## PACKAGING

- Formulated as a wettable powder
- Available in 2.72 kg bags

## GROUND AND AERIAL APPLICATION

Crops	Diseases Suppressed	Rates
<b>Canola</b>	Sclerotinia stem rot	0.3-0.9 kg/ha (0.1-0.4 kg/ac.)
<b>Oilseed crops – Rapeseed subgroup</b> (Crop Group 20A)		
<b>Peanut</b>	Leaf spot	0.6-1.7 kg/ha (0.2-0.7 kg/ac.)

## GROUND APPLICATION ONLY

Crops	Diseases Suppressed	Rates
<b>Apples</b> (see also Pome Fruit)	Powdery mildew	1.7-3.3 kg/ha (0.7-1.3 kg/ac.)
<b>Asparagus</b>	Botrytis blight	
<b>Berries</b> (Crop Group 13): Bayberry, bearberry, blackberry, highbush and lowbush blueberry, chokecherry, currant, elderberry, gooseberry, huckleberry, lingonberry, loganberry, mulberry, pincherry, raspberry, salal, Saskatoon berry, sea buckthorn and wild raspberry	Botrytis grey mould	
	Bacterial blight	0.6-1.7 kg/ha (0.2-0.7 kg/ac.)
<b>Berries and Small Fruit</b> (Crop Group 13-07): Blackberry or raspberry, highbush blueberry, elderberry or mulberry, grape, strawberry and fuzzy kiwifruit	Botrytis grey mould	1.7-3.3 kg/ha (0.7-1.3 kg/ac.)
	Sclerotinia rot	
<b>Brassica Leafy Vegetables</b> (Crop Group 5): Broccoli, Chinese broccoli, broccoli raab, Brussels sprouts, cabbage (all types), cauliflower, cavalo broccoli, collards, kale, kohlrabi, mizuna, mustard greens, mustard spinach and rape greens	Downy mildew	1.1-1.7 kg/ha (0.4-0.7 kg/ac.)
	Pin rot	
	Botrytis neck rot	1.7-2.5 kg/ha (0.7-1.0 kg/ac.)
<b>Bulb Vegetables</b> (Crop Group 3): Onions (all types), garlic (all types), leeks, shallots and chives	Botrytis leaf blight	
	Downy mildew	1.7-3.3 kg/ha (0.7-1.3 kg/ac.)
<b>Celery</b> (See also Leafy Vegetables)	Pink rot	
	Powdery mildew	
<b>Cucurbit Vegetables</b> (Crop Group 9): Cantaloupe, Chinese waxgourd, cucumber, gherkin, edible gourd, melon, muskmelon, pumpkin, squash and watermelon	Downy mildew	0.6-1.7 kg/ha (0.2-0.7 kg/ac.)
	Early blight	2.5 kg/ha (1.0 kg/ac.)
<b>Fruiting Vegetables</b> (Crop Group 8): Eggplant, ground cherry, okra, pepino, peppers (all varieties), tomatillo and tomatoes	Botrytis grey mould	1.7-3.3 kg/ha (0.7-1.3 kg/ac.)
	Powdery mildew	
<b>Grapes</b>	Botrytis grey mould	
	Sour rot (a complex of various pathogens)	
	Botrytis grey mould	
<b>Herbs and Spices</b> (Crop Group 19)	White mould	
	Mummy berry	2.0-3.3 kg/ha (0.8-1.3 kg/ac.)