

New fungicide and bactericide registrations or label expansions for tomato, pepper, eggplant

Several new Canadian fungicide, bactericide, and insecticide registrations have come through for solanaceous crops in 2012/13. They are briefly summarized below.

Fungicides/Bactericides

Product	Crop	Pests on label	Notes
<i>active ingredient</i>			
Acrobat <i>dimethomorph</i>	Fruiting vegetables	Late blight/ <i>Phytophthora infestans</i>	Must be applied in a tank mix with another late blight fungicide. Group 40 fungicide.
Acrobat <i>dimethomorph</i>	Field peppers	Phytophthora blight/ <i>Phytophthora capsici</i>	Group 40 fungicide.
Actigard 50 WG <i>acibenzolar-S-methyl</i>	Field tomato	Bacterial spot and speck (suppression)	Group P1 fungicide.
Actinovate <i>Streptomyces lydicus</i> strain WYEC108	Field and greenhouse tomato and pepper	Powdery mildew (suppression)	Biofungicide.
Allegro 500F <i>fluazinam</i>	Peppers	Phytophthora blight (suppression)	Group 29 fungicide.
Cease <i>Bacillus subtilis</i> QST 713 strain	Fruiting vegetables, including transplants	Bacterial speck/ <i>Pseudomonas syringae</i> (suppression), Gray mold (suppression), Bacterial spot/ <i>Xanthomonas campestris</i> (pepper only, including transplants) (suppression)	Biological fungicide.
Evito <i>fluoxastrobin</i>	Tomato	Late blight	Note rotational (plant back) restrictions on label. Group 11 fungicide.
Fontelis <i>penthiopyrad</i>	Tomato, pepper, eggplant	Gray mold, early blight (suppression)	Group 7 fungicide.

Kasumin 2L	Fruiting vegetables, greenhouse or field	Bacterial spot (suppression) Bacterial canker (suppression)	Group 24 bactericide.
<i>kasugamycin</i>			
Phostrol	Tomato crop subgroup 8-09A (tomatoes, tomatillo, goji berry, ground-cherry, etc.)	Late blight (suppression)	Group 33 fungicide.
<i>sodium, potassium and ammonium phosphites</i>			
Phostrol	Greenhouse-grown and outdoor bedding plants	Phytophthora root rot (suppression)	Group 33 fungicide.
<i>sodium, potassium and ammonium phosphites</i>			
Quadris Top	Fruiting vegetables	Early blight, anthracnose, septoria leaf spot, powdery mildew	<i>On eggplant, suppression only for septoria leaf spot.</i> Group 11 + group 3 fungicides.
<i>azoxystrobin + difenoconazol</i>			
Ranman 400SC	Tomato and pepper transplants (greenhouse) for field production Field tomato	Pythium damping-off and root rot	Group 21 fungicide.
<i>cyazofamid</i>		Late blight	
Reason	Field tomato	Early blight, late blight	Must be tank mixed with Dithane DG or Bravo 500. Group 11 fungicide.
<i>fenamidone</i>			
Regalia Maxx	Tomato, field and greenhouse	Bacterial blight/ <i>Xanthomonas campestris</i> (suppression), gray mold (suppression)	Induces plant resistance. Biofungicide.
extract of <i>Reynoutria sachalinensis</i>			
Rhapsody	Fruiting vegetables, including transplants	Bacterial speck (suppression), gray mold (suppression)	Biofungicide.
<i>Bacillus subtilis</i> QST 713 strain			
Rhapsody	Pepper, including transplants	Bacterial spot (suppression), bacterial speck (suppression)	Biofungicide.
<i>Bacillus subtilis</i> QST 713 strain			
Serenade	Tomato, pepper	Powdery mildew	Biofungicide.

<i>Bacillus subtilis</i> strain QST 713		(suppression)	
Switch	Field tomato Field pepper	Gray mold (tomato), Anthracnose (field pepper)	Group 9 + group 12 fungicide.
<i>cyprodonil</i> + <i>fludioxinil</i>			
Tivano	Field tomato	Bacterial canker (suppression)	Fungicide group: not classified.
<i>citric acid</i> + <i>lactic acid</i>			
Torrent 400SC	Tomato and pepper transplants (greenhouse) for field production	Pythium damping-off and root rot	Group 21 fungicide.
<i>cyazofamid</i>	Field tomato	Late blight	
Zampro	Fruiting vegetables	Phytophthora blight (suppression), late blight	Group 40, 45 fungicides.
<i>ametoctradin</i> + <i>dimethomorph</i>			

Always read and follow label directions. For copies of these labels, see the [PMRA label search site](#) at <http://pr-rp.hc-sc.gc.ca/lr-re/index-eng.php> or the manufacturer's website.

OMAFRA's Vegetable Crop Protection Guide ([Publication 838](#)), introduced in February 2012, is the source of pest control information for commercial field vegetable production in Ontario. The 2013 supplement, [available online](#), lists updated registrations to December 2012. Watch [ONvegetables](#) for the latest updates on pesticide registrations.

For information on minor use registration activity and issues in Ontario, visit OMAFRA's minor use web pages at <http://www.omafra.gov.on.ca/english/crops/minoruse/>.