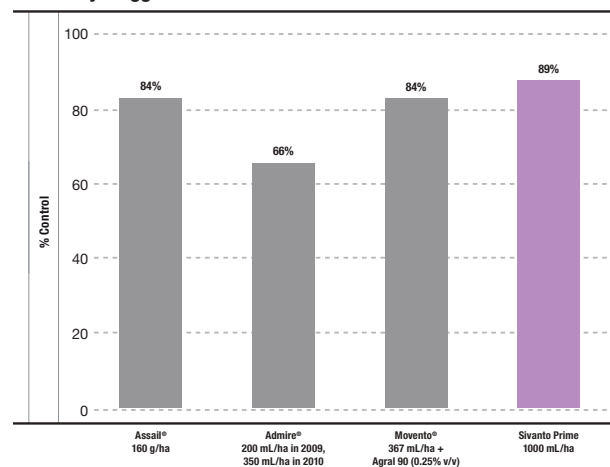
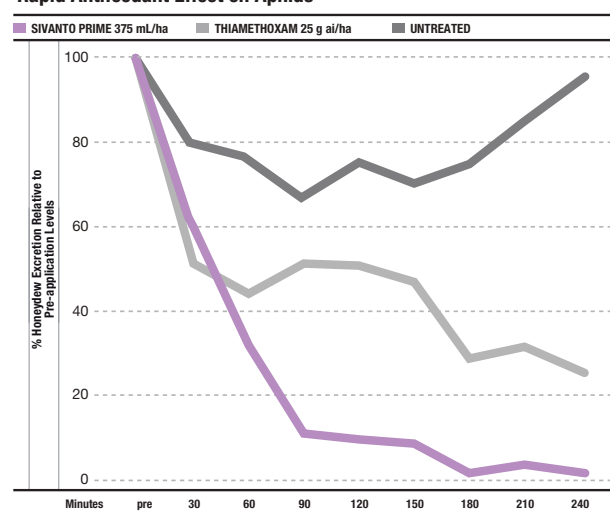


### Blueberry Maggot Control in Lowbush Blueberries



Source: 3 Trials - Nova Scotia, 2009-2010

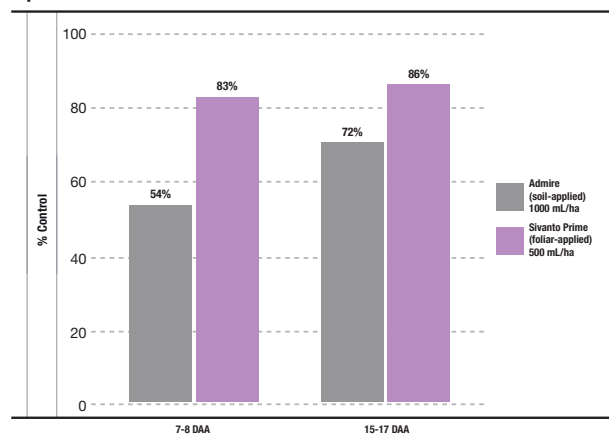
### Rapid Antifeedant Effect on Aphids



Sivanto Prime treatment leads to a quick feeding (honeydew excretion) cessation within 90 minutes after foliar application even on aphids feeding on the underside of leaves.

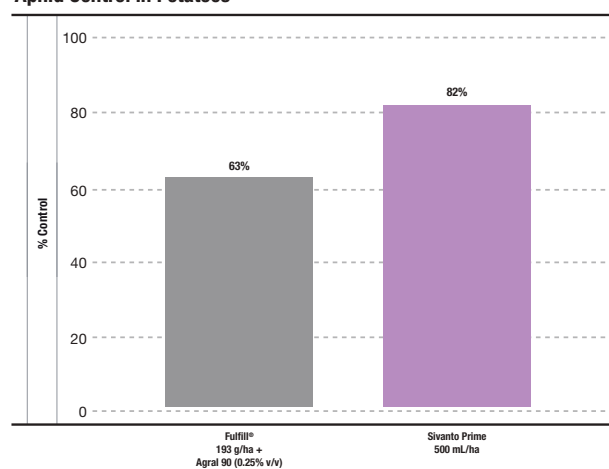
Study performed at Bayer CropScience Inc. in Germany

### Aphid Control in Strawberries



Source: 2 trials - BC, 2009 and 2011

### Aphid Control in Potatoes



Source: 5 trials - Ontario, Manitoba, BC, 2009-2011

## fact sheet



SIVANTO PRIME PRECISELY TARGETS KEY DAMAGING PESTS WITH FAST-ACTING AND LONG-LASTING ACTIVITY WHILE AT THE SAME TIME HAVING A FAVOURABLE SAFETY PROFILE FOR MANY BENEFICIAL INSECTS.



## did you know?

SIVANTO™ PRIME INSECTICIDE IS THE FIRST INSECTICIDE FROM THE BUTENOLIDE CHEMICAL CLASS. THE DISCOVERY OF FLUPYRADIFURONE, THE ACTIVE INGREDIENT IN SIVANTO PRIME, WAS INSPIRED BY A NATURAL COMPOUND FOUND IN THE PLANT *STEMONA JAPONICA*.

### FEATURES AND BENEFITS

- The first insecticide in a new chemical sub-class, Group 4D, Sivanto Prime combines proven Group 4 insecticide efficacy with a favourable safety profile for many beneficial insects
  - Provides a wide window of application, strong Integrated Pest Management (IPM) fit and multiple application methodologies
  - Minimal application timing restrictions allowing application based on pest thresholds, not plant staging
  - Antifeedant properties and quick knockdown of adult pests
  - Xylem mobility allows for systemic movement from a soil application to protect new plant growth
  - Registered for use on a wide range of crops, such as vegetables, tree fruit, vine crops, and other horticulture crops
  - Can be applied as a foliar treatment to all registered crops and as a soil treatment to grapes, fruiting vegetables and cucurbit vegetables
- Short PHIs allow early season through late season applications
  - Translaminar and local systemic movement allows targeting of insects feeding on the underside of leaves
  - Sivanto Prime offers a three-prong ability to mitigate primary and secondary spread of insect-transmitted diseases:
    1. Sivanto Prime's knockdown insecticidal activity quickly kills targeted adult and immature insect pests
    2. Sivanto Prime applied either as a foliar or soil treatment causes rapid feeding cessation, within 90 minutes of application, in many sucking insect pests including aphids, psyllids and whiteflies
    3. Excellent residual activity of Sivanto Prime provides ongoing control of insect vectors, preventing colonization and additional spread of plant pathogens



cropscience.bayer.ca or 1 888-283-6847 or contact your Bayer representative.

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H-14-10/16-10638985-E



# did you know?

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## APPLICATION TIPS

- Rainfast in 1 hour
- Prior to use of a surfactant with Sivanto Prime, the mixture must be tested in a small area to ensure no risk of phytotoxicity
- Sivanto Prime mixed with oil may cause fruit injury to certain varieties of pears (e.g. d'Anjou), when used alone or when other products are applied sequentially. Follow precautions on oil labels and spray guides and avoid application when temperatures exceed 30°C within 24 hours of application. See label for more details.
- Good coverage is important; product will not move to older leaves, as these leaves are not being fed by the plant's transport system
- Restricted Entry Interval (REI) for hand girdling of grapes is 24 hours. REI for all other crops and activities is 12 hours
- Do not make any application of Sivanto Prime insecticide following a soil, in-furrow, or seed treatment application of a Group 4D Insecticide
- Sivanto Prime belongs to the chemical subgroup 4D. The cross-resistance potential between subgroups (i.e. 4A, B and C) is higher than that between different groups, so rotation between subgroups should be avoided where possible
- Registered for aerial application in root and tuber vegetables (Crop subgroups 1-B and 1-C), legume vegetables (Crop group 6) and corn

## MODE OF ACTION

- Group 4D insecticide (flupyradifurone)

## FORMULATION AND PACKAGING

- Formulated as a 200 g/L suspension concentrate
- Available in 2 L jugs

PESTS CONTROLLED	METHOD OF TREATMENT	RATE	PHI	MAX APPS
<b>Alfalfa<sup>3</sup> (forage, silage and hay production only)</b>				
Aphids Leafhoppers	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	7 days – forage, silage, hay cutting	2000 mL/ha per crop season
<b>Berry and small fruit - bushberry (except highbush cranberry)<sup>3</sup> (Crop subgroup 13-07B) Example: high and low bush blueberry</b>				
Aphids	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	3 days	2000 mL/ha per crop season
Blueberry maggot		750-1000 mL/ha (303-405 mL/ac.)		
<b>Berry and small fruit - small fruit vine climbing (except fuzzy kiwifruit)<sup>3</sup> (Crop subgroup 13-07F) Example: grape</b>				
FOLIAR: Leafhoppers	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	0 days	2000 mL/ha per crop season
SOIL APPLICATION: Leafhoppers	Chemigation	1500-2000 mL/ha (607-809 mL/ac.)	30 days	
<b>Berry and small fruit - low growing berry (except cranberry and lowbush blueberry)<sup>3</sup> (Crop subgroup 13-07G) Example: strawberry</b>				
Aphids	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	0 days	2000 mL/ha per crop season
Blueberry maggot		750-1000 mL/ha (303-405 mL/ac.)		
<b>Brassica head and stem vegetables<sup>3</sup> (Crop group 5-13) Example: cabbage</b>				
Aphids	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	1 day	2000 mL/ha per crop season
Whiteflies		750-1000 mL/ha (303-405 mL/ac.)		
<b>Corn<sup>3</sup> (field, sweet, pop, seed)</b>				
Aphids	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	7 days - Sweet corn, forage, silage, hay cutting 21 days - Grain, stover	2000 mL/ha per crop season
<b>Cucurbit vegetables<sup>1,3</sup> (Crop group 9) Example: cucumber, squash</b>				
FOLIAR: Aphids Leafhoppers	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	1 day	2000 mL/ha per crop season
Whiteflies		750-1000 mL/ha (303-405 mL/ac.)		
SOIL APPLICATION: Aphids Leafhoppers Whiteflies	Chemigation or injection	750-1000 mL/10,000 plants	21 days	

PESTS CONTROLLED	METHOD OF TREATMENT	RATE	PHI	MAX APPS
<b>Fruiting vegetables<sup>3</sup> (Crop group 8-09) Example: tomato</b>				
FOLIAR: Aphids Leafhoppers	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	1 day	2000 mL/ha per crop season
Colorado potato beetle Whiteflies		750-1000 mL/ha (303-405 mL/ac.)		
SOIL APPLICATION: Aphids Whiteflies	Chemigation or injection	750-1000 mL/10,000 plants	45 days	
<b>Hops<sup>3</sup></b>				
Aphids	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	21 days	750 mL/ha per season
<b>Leaf petiole vegetables<sup>3</sup> (Crop group 22-B) Example: celery</b>				
Aphids	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	1 day	2000 mL/ha per crop season
Whiteflies		750-1000 mL/ha (303-405 mL/ac.)		
<b>Leafy vegetables<sup>3</sup> (Crop group 4-13) Example: head and leaf lettuce</b>				
Aphids	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	1 day	2000 mL/ha per crop season
Whiteflies		750-1000 mL/ha (303-405 mL/ac.)		
<b>Legume vegetables (succulent or dried)<sup>3</sup> (Crop group 6) Example: soybean</b>				
Aphids Leafhoppers	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	7 days - Forage, Leaves, Vines, Pods, Cutting for Hay, or Seed (fresh or dry, except dry soybean seed) 21 days – dry soybean seed	2000 mL/ha per crop season
Whiteflies		750-1000 mL/ha (303-405 mL/ac.)		
<b>Peanut<sup>3</sup></b>				
Aphids Leafhoppers	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	7 days	2000 mL/ha per crop season
Whiteflies		750-1000 mL/ha (303-405 mL/ac.)		

PESTS CONTROLLED	METHOD OF TREATMENT	RATE	PHI	MAX APPS
<b>Pome fruits<sup>2,3</sup> (Crop group 11-09) Example: apple, pear</b>				
Aphids (except wooly apple aphid) Leafhoppers	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	14 days	2000 mL/ha per crop season
Oystershell scale Pear psylla (Suppression) San Jose Scale		750-1000 mL/ha (303-405 mL/ac.) + horticultural oil at 0.25% vol/vol.		
<b>Root and tuber vegetables - root vegetables (except sugarbeet)<sup>3</sup> (Crop subgroup 1-B) Example: carrot</b>				
Aphids Leafhoppers	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	7 days	2000 mL/ha per crop season
Whiteflies		750-1000 mL/ha (303-405 mL/ac.)		
<b>Root and tuber vegetables - tuberous and corm vegetables<sup>3</sup> (Crop subgroup 1-C) Example: potato</b>				
Aphids Leafhoppers	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	7 days	2000 mL/ha per crop season
Colorado potato beetle Whiteflies		750-1000 mL/ha (303-405 mL/ac.)		
<b>Tree nuts<sup>3</sup> (Crop group 14-11) Example: almond, hickory nuts</b>				
Aphids	Apply as a directed foliar spray ensuring thorough coverage	500-750 mL/ha (202-303 mL/ac.)	7 days	2000 mL/ha per crop season

<sup>1</sup>Certain varieties of muskmelon have been shown to be sensitive to foliar application of Sivanto Prime insecticide, potentially resulting in significant leaf necrosis. Do not make foliar applications of Sivanto Prime insecticide on muskmelon.

<sup>2</sup>Sivanto Prime mixed with oil may cause fruit injury to certain varieties of pears (e.g. d'Anjou), when used alone or when other products are applied sequentially. Follow precautions on oil labels and spray guides and avoid application when temperatures exceed 30°C within 24 hours of application. See label for more details.

<sup>3</sup>Refer to label for a complete list of registered crops within each Crop group.