

Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2015-6724
Application: Changes to Product Labels-New Site or Host
Product: Sivanto Prime Insecticide
Registration Number: 31452
Active ingredients (a.i.): Flupyradifurone
PMRA Document Number: 2707586

Purpose of Application

The purpose of this application was to add a claim and crop groups (12-09 (stone fruit) and 13-07A (caneberry)) to the label of the end-use product Sivanto Prime Insecticide.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessment

A human health review was conducted for the addition of the use on Stone Fruit (Crop Group 12 – 09, except capulin and jujube (Chinese)) and Caneberry Subgroup (Crop Subgroup 13-07A) to the Sivanto Prime Insecticide label. The new uses are not expected to result in potential occupational or bystander exposures that are greater than those from the registered uses of flupyradifurone. No risks of concern are expected provided that workers follow the label directions and wear the personal protective equipment identified on the label.

Environmental Assessment

Additional data including laboratory and semi-field toxicity studies for bees and acute toxicity studies for freshwater chironomus were evaluated. Results are consistent with those previously evaluated and do not alter ecotoxicity profile of flupyradifurone. Therefore, when used according to currently registered application rates and methods, the proposed use of Sivanto Prime Insecticide on crop groups of 12-09 (stone fruit) and 13-07A (caneberry) is not expected to pose an unacceptable risk to the environment. The existing mitigation measures on the label are adequate to address any environmental concerns.

Value Assessment

In support of the addition of a claim for control of aphids with a foliar application of 500 to 750 mL product per ha for Crop Group 12-09 (stone fruit) and Crop Subgroup 13-07A (caneberry) to the Sivanto Prime Insecticide label, value information was submitted which

included a scientific rationale to extrapolate from currently registered control claims for Sivanto Prime Insecticide and confirmatory efficacy trials.

Sivanto Prime Insecticide is registered as a foliar application for control of aphids at a rate of 500 to 750 mL product per ha in a wide variety of crops, including Crop Group 11-09 (pome fruits), Crop Subgroup 13-07B (berry and small fruit: bushberry except highbush cranberry). It was acceptable to extrapolate from these registered claims to a claim of control of aphids in stone fruit and caneberry with a foliar application of 500 to 750 mL product per ha. In addition, nine supplementary confirmatory trials on stonefruit (sweet cherry, sour cherry, peach, and apricot) and two confirmatory trials on raspberry also supported this claim.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Sivanto Prime Insecticide, and has found the information sufficient to add stone fruits and caneberries and the claim to control aphids on the label of this product.

References

PMRA Document Number	Study Title
2588821	Flupyradifurone SL 200 G: Acute contact toxicity to the bumblebee <i>Bombus terrestris</i> L.(Hymenoptera, Apidae) under laboratory conditions (multi doses test), DACO 9.2.4.1
2588822	Effects of a test item mix of BYI 02960 SL 200 G + tebuconazole (HWG 1608) EW 250C G (acute contact) on honey bees (<i>Apis mellifera</i> L.) in the laboratory, DACO 9.2.4.1
2588823	Effects of a test item mix of flupyradifurone (BYI 02960) SL 200 G + fluopyram SC 500B G (acute contact) on honey bees (<i>Apis mellifera</i> L.) in the laboratory, DACO 9.2.4.1
2588824	Effects of a test item mix of flupyradifurone (BYI 02960) SL 200 G + trifloxystrobin WG 50 W (acute contact) on honey bees (<i>Apis mellifera</i> L.) in the laboratory, DACO 9.2.4.1
2588825	Effects of a test item mix of flupyradifurone (BYI 02960) SL 200 G + propineb WG 70A W (acute contact) on honey bees (<i>Apis mellifera</i> L.) in the laboratory, DACO 9.2.4.1
2588826	Effects of a test item mix of flupyradifurone (BYI 02960) SL 200 G + pyrimethanil SC 300 G (acute contact) on honey bees (<i>Apis mellifera</i> L.) in the laboratory, DACO 9.2.4.1
2588828	Effects of flupyradifurone SL 50A G (acute contact and oral) on honey bees (<i>Apis mellifera</i> L.) in the laboratory, DACO 9.2.4.1, 9.2.4.2
2588829	Acute toxicity of flupyradifurone SL50 to larvae of <i>Chironomus riparius</i> in a 48 h static laboratory test system, DACO 9.3.5
2588830	Acute toxicity of flupyradifurone SL 50A G to larvae of <i>Chironomus riparius</i> in a 48 h static laboratory test system, DACO 9.3.5
2588831	Determination of residues of BYI 02960 after application of BYI 02960 SL 200 G once before and once during flowering in a semi-field honeybee (<i>Apis mellifera</i> L.) study in <i>Phacelia tanacetifolia</i> in 2012, DACO 9.9
2588832	Toxicity testing of a tank mix of flupyradifurone (BYI 02960) SL 200 G + tebuconazole EW 250C G on honey bees (<i>Apis mellifera</i> L.) under semi-field conditions - Tunnel test, DACO 9.9
2588890	Assessment of chronic effects of BYI 02960 tech. to the honey bee, <i>Apis mellifera</i> L., in a 10 days continuous laboratory feeding test, DACO 9.9
2616174	Flupyradifurone (BYI 02960): Acute Oral Toxicity to the Bumble Bee, <i>Bombus terrestris</i> L. under Laboratory Conditions, DACO 9.2.4.2
2588803	2015, Efficacy and tolerance of Sivanto Prime insecticide (flupyradifurone) for control of aphids on caneberries (crop subgroup 13-07A), DACO: 10.1, 10.2.3.1, 10.2.3.3, 10.3.1, 10.3.2
2588804	2015, Value assessment of Sivanto Prime insecticide (flupyradifurone) for aphid control on stone fruits, DACO: 10.1, 10.2.3.1, 10.2.3.3, 10.3.1, 10.3.2, 10.5.1, 10.5.2, 10.5.3, 10.5.4, 10.5.5
2588805	2015, Value assessment of Sivanto Prime insecticide (flupyradifurone) for aphid control on stone fruits, DACO: 10.1, 10.2.3.1, 10.2.3.3, 10.3.1, 10.3.2, 10.5.1,

- 10.5.2, 10.5.3, 10.5.4, 10.5.5
- 2588806 2015, Efficacy and tolerance of Sivanto Prime insecticide (flupyradifurone) for control of aphids on caneberries (crop subgroup 13-07A), DACO: 10.2.3.1
- 2588807 2015, Efficacy and tolerance of Sivanto Prime insecticide (flupyradifurone) for control of aphids on caneberries (crop subgroup 13-07A), DACO: 10.2.3.3
- 2588811 Nauen, R., 2013, Determination of the oral LD50-value for flupyradifurone against the green peach aphid, *Myzus persicae* Sulzer (Homoptera: Aphididae), DACO: 10.6

ISSN: 1911-8082

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