



Evaluation Report for Category C, Subcategory 3.10 Application

Application Number: 2009-0305
Application: Application to add an adjuvant requirement statement to the label
Product: Movento 240 SC Insecticide
Registration Number: 28953
Active ingredient (a.i.): spirotetramat
PMRA Document Number 1828897

Background

Movento 240 SC Insecticide contains 240 g/L of the tetrionic/tetramic acid derivative spirotetramat (Group 23) in a soluble concentrate formulation. Spirotetramat is an insecticide applied directly onto the leaves of plants for the control of sucking pests such as mites and aphids. It is applied to a variety of crops, including fruits and vegetables. Spirotetramat inhibits lipid biosynthesis in target insects and is most effective against immature insect life stages.

Purpose of Application

A label amendment has been granted to add a label statement requiring that Movento 240 SC Insecticide be tank-mixed with an adjuvant / additive having spreading and penetrating properties to maximize leaf uptake and systemicity of the active ingredient within treated plants. The adjuvant type must be one of the following: non-ionic (e.g., Agral 90 or Ag-surf), methylated seed oil (e.g., Hasten), or horticultural oil. Prior to the use of a surfactant with Movento 240 SC Insecticide in tree fruit and grapes, the mixture must be tested in a small area to ensure no risk of phytotoxicity. Use of any blended adjuvant is not permitted. Horticultural oil adjuvants may be used on pome fruit only. Movento 240 SC Insecticide may not be used on pear trees when fruit is present due to the possibility of adverse effects on the harvested commodity. As it is widely known that a tank-mix and/or sequential treatments that include adjuvants with Captan may cause adverse effects in tree fruit and grapes; including Movento 240 SC Insecticide in this tank-mix and/or sequential treatment scenario is not recommended. Movento 240 SC Insecticide may not be tank-mixed with sulphur.

Chemistry, Health and Environment Assessments

A chemistry assessment was not required since there was no change to product chemistry. Health and environmental assessments were not required since the use pattern, including host crops, application rates and timings, of the product remained unchanged.

Value Assessment

The data demonstrate that the addition of a surfactant provides improved control of target pests on the Movento 240 SC Insecticide label in all labelled crops. The data also confirm that when used according to the label directions, Movento 240 SC Insecticide with a non-blended surfactant does not cause phytotoxicity in labelled crops. The use of registered non-ionic, methylated seed oil or horticultural oil surfactants to provide improved efficacy of Movento 240 SC Insecticide against registered crop/pest combinations is acceptable. Although sufficient efficacy data were provided to support the use of organosilicone surfactants, this use is not supported due to lack of residue data. Use of horticultural oil surfactants is acceptable on pome fruit only, as it was tested only on apples. At the applicant's request, additional label statements were added, stating that Movento 240 SC Insecticide is not to be applied to pear trees when fruit is present, is not to be tank-mixed with sulphur, and recommending that Movento 240 SC Insecticide not be tank-mixed or applied as a sequential treatment with any fungicide containing captan.

Conclusion

From a value and sustainability perspective, the use of registered non-ionic, methylated seed oil, organosilicone or horticultural oil surfactants to provide improved efficacy of Movento 240 SC Insecticide against registered crop/pest combinations is acceptable.

References

1711740 2008, Movento 240 SC Insecticide: Data to Support the Addition of a Surfactant On Registered Crops, DACO: 10.1,10.2,10.2.1,10.2.2,10.2.3.1,10.2.3.3(C),10.3.2(B)

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