

Evaluation Report for Category B.3.4 Application

Application Number: 2010-5637
Application: New Application Method
Product: Movento 240 SC Insecticide
Registration Number: 28953
Active ingredients (a.i.): Spirotetramat [SPA]
PMRA Document Number: 2294817

Purpose of Application

The purpose of this application was to add aerial application to the label of Movento 240 SC Insecticide, containing the active ingredient spirotetramat, to the registered uses for potatoes and soybean. The proposed application rate for aerial applications is identical to that currently registered.

Chemistry Assessment

No chemistry assessment was required for this application.

Health Assessments

A toxicology assessment was not required for this application.

A review of the proposed label was conducted to support the addition of an aerial application to potatoes and soybeans on the end-use product Movento 240 SC Insecticide. The proposed aerial spray volume meets the minimum aerial spray volume required under DIR98-02. The reporting of application rates in mL product/ha instead of g a.i./ha has no impact on the magnitude of the residues. The use pattern on all petitioned crops for Movento 240 SC Insecticide remains unchanged. Therefore, no additional residue data were required in the context of this application. From a food residue exposure point of view, no changes in the magnitude of the residues in food and feed crops are expected, and thus no increase in dietary exposure is anticipated.

A quantitative health assessment has been conducted for Movento 240 SC Insecticide, containing spirotetramat. Exposure to Movento 240 SC Insecticide is within the exposure from the current use patterns for spirotetramat.

Environmental Assessment

The application rate for aerial applications on soybean and potato is the same as for currently registered uses with ground application equipment, and therefore, this use is not expected to increase the risk to the environment. Buffer zones of 15 metres for aerial applications must be observed to protect terrestrial habitat from spray drift.

Value Assessment

In support of adding aerial applications to the Movento 240 SC Insecticide label for potatoes and soybean, four efficacy trials, two on soybean and two on potatoes, which compared a simulated aerial application (45 L/ha spray volume) to ground application (200 to 225 L/ha spray volume) were reviewed.

The reviewed data demonstrated aerial applications of Movento 240 SC Insecticide are expected to have equivalent efficacy and crop tolerance to that of ground applications. The reviewed information also supported the use of Movento 240 SC Insecticide with an adjuvant with spreading and penetrating properties (i.e., non-ionic, methylated seed oil, or horticultural oil) to maximize leaf uptake and systemic activity within treated plants at an application rate of 0.25% v/v.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of information available in support of Movento 240 SC Insecticide and has found the information sufficient to support the addition of an aerial application to potatoes and soybeans on the end-use product.

References

- 1983407 2010, Movento Insecticide: Data in Support of Aerial Application in Soybean and Potato, DACO: 10.1,10.2,10.2.3.3,10.3,10.3.2

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