

Evaluation Report for Category B, Subcategory 3.1, 3.11 Application

Application Number: 2017-3277
Application: Changes to product label; rate and pests
Product: Twinguard Insecticide
Registration Number: 31442
Active ingredients (a.i.): Sulfoxaflor and spinetoram
PMRA Document Number: 2929431

Purpose of Application

The purpose of this application was to add control of leafhopper in/on potatoes, to the Twinguard Insecticide label at an increased rate, equivalent to 72 g a.i./ha/season for both sulfoxaflor and spinetoram.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicological assessment was not required for this application.

The amendments to the label to include a claim against leafhoppers in root and tuber vegetables at the application rate of 360 g product/ha/season, equivalent to 72 g a.i./ha/season of both sulfoxaflor and spinetoram, are considered acceptable from an occupational exposure perspective. Updated risk assessments for mixers/loaders/applicators and postapplication re-entry workers were conducted and no health risks of concern are expected when the recommended label amendments are made and workers wear the appropriate personal protective equipment and follow all label directions.

No new residue data for sulfoxaflor and spinetoram in potatoes were submitted to support the use expansion of these actives on the TwinGuard Insecticide labels. Previously reviewed residue data from field trials conducted in/on potatoes were reassessed in the framework of this petition. In addition, processing studies in treated potatoes were also reassessed to determine the potential for concentration of residues of sulfoxaflor and spinetoram into processed commodities. This use expansion is covered by the existing MRLs for sulfoxaflor and spinetoram.

Residues in these crop commodities at the existing MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The addition of the control of leafhoppers on potatoes at the rate of 360 g product/ha/season (72 g a.i./ha/season for both sulfoxaflor and spinetoram), is an increase from the current registered use pattern on potatoes, but is within the currently registered rate for other crops. One metre buffer zones to protect terrestrial habitats are required for potatoes.

Value Assessment

The results of three field trials supported TwinGuard Insecticide to control leafhoppers on potatoes. Sulfoxaflor represents a new mode of action subgroup for this use. Therefore, this product has value as a new tool for use against, and in the management of resistance of, these pests on this crop.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to amend the label of Twinguard Insecticide to include control leafhoppers on potatoes.

References

PMRA

Document

Number	Reference
2784113	2017, Exposure Waiver - Use Description Scenario, DACO: 5.2
1913109	2009, Agricultural Handler Exposure Scenario Monograph: Open Cab Groundboom Application of Liquid Sprays, DACO: 5.3,5.4.
2172938	2015, Agricultural Handler Exposure Scenario Monograph: Open Pour Mixing and Loading of Liquid Formulations, DACO: 5.3,5.4.
2572744	2015, Agricultural Handler Exposure Scenario Monograph: Open Pour Mixing and Loading Dry Flowable Formulations, DACO: 5.3,5.4.
2778904	2017, Efficacy Table - Sulfoxaflor-Rate increase, add potato leafhopper in potatoes, DACO: 10.2.3.1
2778905	2017, Field Trials (3) - Sulfoxaflor-Rate increase, add potato leafhopper in potatoes, DACO: 10.2.3.3
2778906	2017, Value summary - Sulfoxaflor-Rate increase, add potato leafhopper in potatoes, DACO: 10.1,10.2,10.3

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