



Evaluation Report for Category B, Subcategories 3.3, 3.8, 3.9, 3.11, 3.12 Application

Application Number: 2025-0026
Application: Changes to Product Labels – Application Number or Frequency;
Re-Entry Interval; Level of Control; New Pests; New Site or Host
Applicant: Syngenta Canada Inc.
Product: A15457 Fungicide
Registration Number: 31522
Active ingredient (a.i.): Benzovindiflupyr
PMRA Document Number: 3799253

Purpose of Application

The purpose of this application was to amend the product label of A15457 Fungicide to shorten the re-entry interval for grapes; expand the registered in-furrow use and rates on potatoes and sugar beets to all commodities in Crop Group 1 – Root and Tuber Vegetables; add foliar application to ginseng; add control of rhizoctonia root and crop rot (*Rhizoctonia solani*) in Crop Group 1 at the registered rates; add new pest claims in pome fruit within registered rates; and make label improvements to the directions for use section.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

The amendments to the A15457 Fungicide label to expand the registered in-furrow use on potatoes and in-furrow and early postemergent use on sugar beets to all commodities in Crop Group 1 (Root and Tuber Vegetables), add foliar application to ginseng, and shorten the restricted-entry interval (REI) in grapes from 4 days to 12 hours can be supported from an occupational exposure perspective.

The mixer/loader/applicator risk assessment on file was adequate to demonstrate acceptable margins of exposure (MOEs). A quantitative postapplication exposure risk assessment was conducted for grapes using the updated dermal absorption value of 10%, and the calculated MOEs exceeded the target MOE. There are no postapplication exposure risks of concern for the uses of A15457 Fungicide on Crop Group 1 and on ginseng. As such, the default REI of 12 hours can be supported for grapes. Bystander exposure is not of health concern.

No risks of concern are expected from the new uses, provided that workers follow the label directions and wear the personal protective equipment identified on the label.



No new residue data for benzovindiflupyr in Crop Group 1 (Root and Tuber Vegetables) were submitted to support the use expansion of this active ingredient on the A15457 Fungicide label. Previously reviewed residue data from field trials conducted in/on sugar beets, radishes, carrots, ginseng, and potatoes were reassessed in the framework of this application. In addition, a processing study in treated carrots was reassessed to determine the potential for concentration of residues of benzovindiflupyr into processed commodities. The current established maximum residue limits (MRLs) are adequate to cover residues of benzovindiflupyr resulting from the use expansion.

A toxicology assessment was not required for this application.

Environmental Assessment

The use of A15457 Fungicide is within the currently registered use pattern for benzovindiflupyr. Therefore, the risk is acceptable when A15457 Fungicide is used in accordance with the label, which includes statements to mitigate risks to the environment.

Value Assessment

The results of nine field and greenhouse trials on red table beets and ginseng were reviewed to support the claims of control of seed and seedling diseases caused by *Rhizoctonia solani*. Efficacy trials, scientific rationales, and use history information based on the U.S. label were reviewed to support the claims on pome fruit. The value information submitted by the applicant was found to be sufficient to support all the disease claims.

The registration of these uses provides a new mode of action fungicide to manage rhizoctonia root and crown rot on certain root and tuber crops, and a soil-applied product as an additional tool for growers to manage this soil-borne pathogen. This registration also provides a new product to growers of minor root and tuber crops as identified in priority setting workshops held by Agriculture and Agri-Food Canada. The addition of pome fruit diseases broadens the disease spectrum on this group of crops with no change to the use pattern, which in turn, may reduce the need for co-application of additional products specifically targeting the subject diseases.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to amend the registered label of A15457 Fungicide.

References

PMRA

Document

Number

Reference

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3673021	2024, Evaluate Aprovia (Solatenol) for control of infection by Rhizoctonia solani in Table beets in 2024, DACO: 10.2.3.3
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3673024	2024, Evaluate Aprovia for control of Rhizoctonia Root Rot in Ginseng, DACO: 10.2.3.3
3673025	2019, Greenhouse evaluation of an experimental fungicide for the control of Rhizoctonia root rot of American ginseng, 2019, DACO: 10.2.3.3
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3695836	2014, Evaluate solatenol for scab control: Demo work in apples, DACO: 10.2.3.3
3695837	2014, Evaluate solatenol for summer disease control in apple fruit, DACO: 10.2.3.3
3695838	2018, Evaluate APN for control of Eastern apple diseases, DACO: 10.2.3.3
3695839	2018, Evaluate APN for control of Eastern apple diseases, DACO: 10.2.3.3

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3673036	2024, Occupational Risk Assessment for Benzovindiflupyr Formulated as Aprovia(r) (A15457 Fungicide) on Grapes Using a New Dermal Absorption Factor And Rationale Supporting No Need for an Occupational Risk Assessment for Expansion of In-Furrow Applications to Entire Crop Group 1 and Two Foliar Applications to Ginseng on the A15457 Fungicide Label, DACO: 5.2
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3673038	2024, Benzovindiflupyr EC (A15457H) - The In Vitro Percutaneous Absorption of Radiolabelled Benzovindiflupyr in Concentrate Formulation and Two In-Use Dilutions Through Human Split-Thickness Skin, DACO: 5.8
3673039	2012, SYN545192 EC (A15457H) - In Vitro Absorption through Human Epidermis using [14C-Radiolabelled]-SYN545192, DACO: 5.8
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