

Evaluation Report for Category B, Subcategory 3.11 and 3.12 Application

Application Number: 2012-2300
Application: Changes to Product Labels-New Pests and New Site or Host
Product: Senator 70WP WSB¹ Fungicide
Registration Number: 27297
Active ingredients (a.i.): Thiophanate-methyl
PMRA Document Number : 2222949

Purpose of Application

The purpose of this application was to include potato seed treatment as a sprayable seed treatment for control of verticillium wilt, fusarium rot and silver scurf as well as to aid in control of seed piece decay and black leg infections on seed potato to the Senator 70 WP WSB¹ Fungicide label based on Senator PSPT Potato Seed Piece Treatment (Registration No. 26236) label.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required since there was no change to the formulation.

The use of Senator 70 WP WSB¹ Fungicide on potato seed pieces should not result in worker or bystander exposure over registered uses of thiophanate-methyl, since the application rate fell within that registered for this active ingredient on potato seed pieces. The exposure to thiophanate-methyl from Senator 70 WP WSB¹ Fungicide, which is a wettable powder in water soluble bags, is not expected to exceed that from the use of the registered dust formulation.

No new food residue chemistry data for thiophanate-methyl were submitted to support the addition of a sprayable potato seed piece treatment to the Senator 70WP WSB¹ Fungicide label. The application rate for thiophanate-methyl (0.5 g a.i./kg cut potato seed) as a sprayable treatment is identical to the dry treatment of potato seed pieces under the Senator PSPT Potato Seed Piece Treatment label. Based on this assessment, the noted change to the product label will not increase the dietary exposure to thiophanate-methyl, and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

No additional environmental data were required for the use of Senator 70 WP WSB¹ Fungicide as a sprayable potato seed piece treatment. The rate of thiophanate-methyl to be sprayed on

potato seed pieces is the same as the rate for the dry treatment of potato seed pieces, which is registered for another thiophanate-methyl product, Senator PSPT Potato Seed Piece Treatment. No increase in environmental exposure to thiophanate-methyl is expected from the use of Senator 70 WP WSB¹ Fungicide as a sprayable potato seed piece treatment compared to the registered use of thiophanate-methyl as a dry treatment of potato seed pieces.

Value Assessment

A scientific rationale comparing Senator 70 WP WSB¹ Fungicide (70% thiophanate-methyl; wettable powder) and Senator PSPT Potato Seed Piece Treatment (10% thiophanate-methyl; dust) was submitted in support of the label expansion for Senator 70 WP WSB¹ Fungicide, since the uses are identical with what was registered on Senator PSPT Potato Seed Piece Treatment. It was determined that Senator 70 WP WSB¹ Fungicide delivers the same amount of active ingredient as Senator PSPT Potato Seed Piece Treatment, i.e. 50 g thiophanate-methyl/100 kg seed. The differences between these two products are reflected on their respective formulation (wetable powder vs. dust) and guarantee of the active ingredient present (70% thiophanate-methyl vs. 10% thiophanate-methyl) but are not expected to impact efficacy. Two small-scale studies provided confirmatory evidence that Senator 70WP WSB¹ Fungicide represents an adequate sprayable potato seed treatment, as it showed favourable mixing and spray characteristics and did not cause any adverse effects. Based on this information, the seed potato claims may be extrapolated from Senator PSPT Potato Seed Piece Treatment to Senator 70WP WSB¹ Fungicide.

Conclusion

The Pest Management Regulatory Agency (PMRA) has reviewed the information provided in support of this application and has determined that the inclusion of potato seed treatment as a sprayable seed treatment for control of verticillium wilt, fusarium rot and silver scurf as well as to aid in control of seed piece decay and black leg infections on seed potato is acceptable and thus, can be added to the Senator 70 WP WSB¹ Fungicide label.

References

- 2202308 2012, Value Summary for Senator 70WP WSB¹ Fungicide Label Expansion to Include Potato Seed Treatment (Parent), DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1, 10.3.1, 10.3.2, 10.3.3, 10.4, 10.5.1, 10.5.2, 10.5.3, 10.5.4
- 2202309 2012, Rationale for the requirement of efficacy trial data (CBI), DACO: 10.2.3 CBI
- 2202313 2010, Preliminary Feasibility Investigation of Senator 70WP for use as a Sprayable Potato Seed Piece Treatment, DACO: 10.2.3.2, 10.3.2(B)
- 2202314 2011, Evaluation of Solubility and Spray Characteristics of Senator 70WP WSB in Low Water Volumes, DACO: 10.2.3.2

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