

Evaluation Report for Category B, Subcategory 4.6 Application

Application Number: 2014-1497
Application: Conversion to fulfill conditions of registration on a product with full registration
Product: MustGrow Crop Biofumigant
Registration Number: 30263
Active ingredients (a.i.): Oriental mustard seed meal
PMRA Document Number : 2458640

Purpose of Application

The purpose of this application was to provide the outstanding value data in order to fulfill the conditions of full registration for MustGrow Crop Biofumigant.

Chemistry, Environmental and Health Assessments

Chemistry, environmental and health assessments were not required for this application.

Value Assessment

The value information required as conditions of full registration were addressed by either efficacy trials or rationales provided with this application. Two confirmatory trials conducted in British-Columbia confirmed the efficacy of MustGrow Crop Biofumigant for suppression of phytophthora root rot (*Phytophthora rubi*) on raspberries. MustGrow Crop Biofumigant at 1121 and 2242 kg/ha reduced disease incidence by respectively 65% and 87% in one trial, while the same application rates reduced disease severity by respectively 60% and 53% in another trial. A side-by-side comparison of application timing was conducted in the confirmatory raspberry trials with MustGrow Crop Biofumigant applied either in the spring or fall. Results indicated that both application timings achieved the same level of disease suppression. A value assessment in a concurrent application for MustGrow Crop Biofumigant also demonstrated that there was no difference in disease and nematode suppression between fall and spring applications. A range of application rates was tested in the two confirmatory raspberry trials described above to support an increased low application rate from 980 kg/ha to 1121 kg/ha. The treatments at rates of 560 and 841 kg/ha demonstrated much less efficacy compared to the other rates applied. A similar trend was also observed in many efficacy trials reviewed in the aforementioned concurrent application. Finally, rationales were provided to support the removal of root lesion nematodes for caneberries and removal of caneberry group and blackberry from the current label. Sufficient information to fulfill the conditions of registration for MustGrow Crop Biofumigant has been provided.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to fulfill the conditions of full registration for the end-use product MustGrow Crop Biofumigant.

References

- 2421696 2014, Efficacy Summary for Conditions of Registration for MustGrow Crop Biofumigant, Reg. No. 30263, DACO: 10.1,10.2.3.1,10.2.3.3(D)
- 2421697 2013, Efficacy of MustGrow at Various Rates for the Control of Soil Diseases and Nematodes, DACO: 10.2.3.3(D)
- 2421698 2014, Efficacy Summary Tables for Conditions of Registration for MustGrow Crop Biofumigant, Reg. No. 30263, DACO: 10.2.3.3(D)
- 2421699 2012, Evaluation of, and crop tolerance to, MUSTGROW as a pre-plant application in spring or fall for control of Phytophthora root rot of red raspberry in Abbotsford, British Columbia., DACO: 10.2.3.3(D)
- 2421700 2012, Evaluation of, and crop tolerance to, MUSTGROW as a pre-plant application in spring or fall for control of Phytophthora root rot of red raspberry in Abbotsford, British Columbia., DACO: 10.2.3.3(D)

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