



Evaluation Report for Category B, Subcategory 3.11 Application

Application Number: 2015-0915
Application: New Pest
Product: Engarde™ Post Herbicide
Registration Number: 31596
Active ingredients (a.i.): rimsulfuron, mesotrione
PMRA Document Number : 2551058

Background

Engarde™ Post Herbicide, a wettable granule formulation, was first registered on December 8, 2014. It is registered for use as a tank mixture with a glyphosate herbicide for post-emergence application to glyphosate-tolerant field corn in eastern Canada at 250 g/ha (112.5 g a.i./ha) for the control or suppression of certain grass and broadleaved weeds. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Purpose of Application

The purpose of this application was to expand the registration of Engarde Post Herbicide to include a claim of control of volunteer canola, including volunteer glyphosate-tolerant canola, when applied at the labelled rate of 250 g/ha (112.5 g a.i./ha or 12.5 g/ha of rimsulfuron and 100 g/ha mesotrione) in combination with 0.2% v/v of a recommended non-ionic surfactant and when applied either pre-emergence or early post-emergence to glyphosate-tolerant field corn when volunteer canola is at the cotyledon to 5-leaf stage.

Chemistry Assessment

A chemistry assessment was not required as there was no change to the product formulation.

Health and Environmental Assessments

Health and environmental assessments were not required as there was no change to the use pattern, including host crops, application methods, timings and rate.

Value Assessment

Value information in the form of efficacy data generated in four field trials in 2014 across western Canada was submitted under Sub. No. 2015-0902. The rimsulfuron product tested in

these trials was Elim 25 SG Herbicide, containing 25% rimsulfuron. Glyphosate-tolerant canola treated at the cotyledon to 5-leaf stage was consistently controlled by an application of 7.5 g a.i./ha Elim 25 SG Herbicide plus 0.2% v/v Agral 90 adjuvant. As the efficacy of Elim 25 SG Herbicide applied at 7.5 g a.i./ha for the control of volunteer glyphosate-tolerant volunteer canola was demonstrated, then it can be expected that Engarde Post Herbicide applied at its labelled rate of 112.5 g a.i./ha, equivalent to 12.5 g/ha rimsulfuron, in combination with a labelled non-ionic surfactant, would also control glyphosate-tolerant volunteer canola. Engarde Post Herbicide would similarly be expected to control non herbicide tolerant volunteer canola. As Engarde Post Herbicide is registered for post-emergence application only, only post-emergence use is supported.

Due to seed shattering of canola pods, a considerable quantity of canola seed can remain in the field, becoming volunteer weeds in the crop that follows, including in field corn. The expansion of the Engarde Post Herbicide label to include a claim of control of volunteer canola, including glyphosate-tolerant volunteer canola, will provide growers an additional option to control this weed, which is very competitive with corn, especially prior to crop canopy closure.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the submitted information adequate to support the post-emergence (with respect to crop staging) use of Engarde Post Herbicide in glyphosate-tolerant field corn at the labelled rate of 112.5 g a.i./ha with 0.2% v/v of a labelled non-ionic surfactant for the control of volunteer canola, including glyphosate-tolerant volunteer canola, when treated at the cotyledon to 5-leaf stage of development.

References

List of Studies/Information Submitted by Registrant

Value Assessment

2508933	2015, CONTROL OF VOLUNTEER GLYPHOSATE TOLERANT CANOLA WITH RIMSULFURON, DACO: 10.1,10.2,10.2.1,10.2.2,10.2.3,10.2.3.1,10.2.3.2(B),10.2.3.3,10.2.3.3(B),10.2.3.4,10.2.3.4(B),10.2.4,10.3,10.3.1,10.3.2,10.3.2(A),10.3.3,10.4,10.5.3
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