



Evaluation Report for Category B, Subcategory 3.11 Application

Application Number: 2015-0914
Application: New Pest
Product: Engarde™ Herbicide
Registration Number: 31595
Active ingredients (a.i.): rimsulfuron, mesotrione
PMRA Document Number : 2551054

Background

Engarde™ Herbicide, a wettable granule formulation, was first registered on December 8, 2014. It is registered for pre-emergence or early post-emergence use on field corn at up to the 2-leaf stage in eastern Canada at 348 g/ha (159 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 Herbicide to include a claim of control of volunteer canola, including volunteer glyphosate-tolerant canola, when applied at the labelled rate of 348 g/ha (159 g a.i./ha or 15 g/ha of rimsulfuron and 144 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 field corn at up to the 2-leaf stage and 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 Herbicide applied at its labelled rate of 159 g a.i./ha, equivalent to 15 g/ha rimsulfuron, in combination with a labelled non-ionic surfactant, would also control glyphosate-tolerant volunteer canola. Engarde Herbicide would similarly be expected to control non herbicide tolerant volunteer canola.

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 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 pre-emergence and post-emergence use of Engarde Herbicide in field corn at the labelled rate of 159 g a.i./ha with 0.2% v/v of a labelled non-ionic surfactant for the control of volunteer canola, including that originating from glyphosate-tolerant varieties, 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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