

Evaluation Report for Category B, Subcategory 3.9 Application

Application Number: 2006-0568
Application: Category B, Subcategory 3.9
Product: Refine SG
Registration Number: 28285
Active ingredients (a.i.): thifensulfuron methyl at 33.35% and tribenuron methyl at 16.65%
PMRA Document Number: 1578678

Background

Refine SG Herbicide (PCP 28285) is registered at 15 g a.i./ha for selective post-emergent control or suppression of broadleaf weeds in wheat (spring, winter or durum), spring barley and oats not underseeded to legumes or grasses, and in certain grasses for forage or seed production. Refine SG is to be applied from the 2-leaf to flag leaf growth stage of the crop.

Currently on the Refine SG label, there are registered control claims for wild buckwheat from the cotyledon to 5-leaf stage with 2 tank mixes: Refine SG + Curtail M and Refine SG + Lontrel 360. Note that all other tank mixes (eg. Refine SG + Banvel II) listed on the Refine SG label state that the broadleaf weed control claims are those labelled for Refine SG Herbicide alone plus additional weed control claims from the tank mix partner, therefore, these tank mixes follow what is approved for control with the alone treatment of Refine SG.

For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Purpose of Application

E.I. Du Pont Canada Company submitted an application with data to amend the application timing (i.e. leaf stage) of wild buckwheat on the Refine SG (Reg. No. 28285) label. Refine SG was currently registered to control wild buckwheat from the cotyledon to 3-leaf stage. New data were submitted to support the claim that wild buckwheat can be controlled from the cotyledon to the 5-leaf stage. On the proposed Refine SG label, the proposed control claim for wild buckwheat (Apply to actively growing wild buckwheat in the cotyledon to 5-leaf stage) was recommended for the alone treatment of Refine SG and for two tank mixes: Refine SG + MCPA amine or ester and Refine SG + 2,4-D amine or ester.

Chemistry Assessment

A chemistry assessment was not required since there was no change to product chemistry.

Health Assessments

Health assessments were not required since the only change to the use pattern was to change the leaf stage of wild buckwheat.

Environmental Assessment

An environmental assessment was not required since the only change to the use pattern was to change the leaf stage of wild buckwheat.

Value Assessment

A total of 14 field trials studies conducted over 5 years at 8 locations across the prairie provinces; Manitoba, Saskatchewan, and Alberta were submitted for review. Spring wheat and barley were planted in the trials. Efficacy data were provided for wild buckwheat control from the 5- to 9-leaf stage. The level of wild buckwheat control achieved was similar for the alone treatments of Refine SG and Refine Extra 75DF, the currently registered tank mixes of Refine SG + 2,4-D amine, Refine SG + MCPA amine and Refine SG + Banvel II and the commercial standard, Buctril M.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Refine SG Herbicide to amend the leaf stage of wild buckwheat from the cotyledon to the 5-leaf stage for the alone treatment of Refine SG and for two tank mixes: Refine SG + MCPA amine or ester and Refine SG + 2,4-D amine or ester.

References

A. LIST OF STUDIES/INFORMATION SUBMITTED BY REGISTRANT

VALUE

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| PMRA# 1138009 | 2006, Control of advanced stage wild buckwheat, Polygonum convolvulus, with Refine SG herbicide, Dupont-19310, DACO: 10.1,10.2,10.2.2,10.2.3.3(B), pp. 27. |
| PMRA# 1138010 | 2006, Module ID - All Inclusive, Trial Reports, DACO: 10.2.3.3(B), pp. 137. |
| PMRA# 1240928 | 2006, Module ID - All Inclusive, Trial Reports, DACO: 10.2.3.3, pp. 26. |

ISSN: 1911-8082

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