

Evaluation Report for Category C, Subcategory 3.10 Application

Application Number: 2006-2747 and 2006-7569
Application: Evaluation Report for Category C, Subcategory 3.10 Application
Product: Refine SG Herbicide and Refine SG Herbicide Toss-N-Go
Registration Number: 28285 and 28286
Active ingredients (a.i.): Tribenuron methyl and Thifensulfuron methyl
PMRA Document Number: 1373069

Background

Refine SG Herbicide (PCP#28285) and Refine SG Toss-N-Go Herbicide (PCP#28286) are registered for post-emergence use in wheat (spring, winter, and durum), spring barley and oats, and seedling and established grass species for forage and seed production only, for the control of a range of broadleaved weeds. Refine is registered for use in tank-mix with Banvel II (PCP#23957) in spring wheat and barley, and in tank-mix with Banvel II (PCP#23957) + Horizon 240EC Herbicide (PCP#24067) in spring wheat. 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 is to amend the Refine SG Herbicide (PCP#28285) and Refine SG Toss-N-Go Herbicide (PCP#28286) labels to add Banvel Dry (PCP#24362) as an alternative to Banvel II (PCP#23957) when used as a tank-mix partner with Refine Herbicide and Refine Herbicide + Horizon 240EC Herbicide (PCP#24067). Banvel Dry is to be applied at the same rate of active ingredient (dicamba) as Banvel II. Therefore, the proposed application rate is Refine SG Herbicide 30g/ha + Banvel Dry 76g/ha (53g ai/ha) + Agral 90, Ag-Surf, or Citowett Plus (2L/1000L); **AND** Refine SG Herbicide 30g/ha + Banvel Dry 76g/ha (53g ai/ha) + Horizon 240EC 0.230L/ha + Score Adjuvant 0.8L/ha.

Chemistry, Health and Environmental Assessments

A chemistry assessment was not required since there was no change to product chemistry. Health and environmental assessments were not required since the use pattern, including host crops, application rates and timings, of the component products remained unchanged.

Value Assessment

The applicant provided a rationale based on the similar use patterns observed between Banvel II and Banvel Dry, along with data from 6 small-scale field trials, all conducted in 2006, in Alberta (2 trials), Saskatchewan (3 trials), and Manitoba (1 trial). Efficacy and crop safety of the proposed tank mixture was directly compared to Refine SG + Banvel II +/- Horizon. Percent visual control was evaluated for 8 weeds, and crop tolerance (including yield) was evaluated for spring wheat. The use of Refine SG + Banvel II is also registered for spring barley. Although no data was provided for this crop, non-safety adverse effects to spring barley are not anticipated, and therefore the use of these tank-mixes can also be extended to spring barley.

Conclusions

Banvel Dry was shown to be equivalent in performance to Banvel II when applied in a tank-mix. Therefore the following tank-mixes that include Banvel Dry can be added to the Refine SG Herbicide label and the Refine SG Toss-N-Go Herbicide label: Refine SG Herbicide 30g/ha + Banvel Dry 76g/ha (53g ai/ha) + Agral 90, Ag-Surf, or Citowett Plus (2L/1000L); **AND** Refine SG Herbicide 30g/ha + Banvel Dry 76g/ha (53g ai/ha) + Horizon 240EC 0.230L/ha + Score Adjuvant 0.8L/ha.

References

- PMRA #1217157 Rationale For Waiver Of Efficacy Data Requirements For Bridging Use Of Banvel II, PCP 23957 To Banvel Dry, PCP 24362, In Tank Mixtures With Refine SG Herbicide, PCP 28285, and Horizon 240 EC Herbicide, PCP 25477.
- PMRA #550738 Efficacy: Small-scale trials (Field, Greenhouse) Herbicides. PMRA review report with submission 2003-1427.
- PMRA #1321139 Efficacy: Small-scale trials (Field, Greenhouse) Herbicides. PMRA review report with submission 1998-0160.
- PMRA #1321142 Efficacy: Small-scale trials (Field, Greenhouse) Herbicides. PMRA review report with submission 2000-1583.
- PMRA #1321149 Efficacy: Small-scale trials (Field, Greenhouse) Herbicides. PMRA review report with submission 2000-0398.
- PMRA #1321162 Note to file with submission 1999-0851.
- PMRA #1321177 Note to file with submission 1999-1174.

PMRA #1323502 Correspondence-Applicant-General.
PMRA #1323503 Correspondence-Applicant-General.
PMRA #1323504 Efficacy: Small-scale trials (Field, Greenhouse) Herbicides.
PMRA #1323505 Efficacy: Small-scale trials (Field, Greenhouse) Herbicides.

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