



Evaluation Report for Category C.3.10

Application Number: 2007-8693
Application: Category C.3.10
Product: Spectrum A Suspension Concentrate Herbicide
Registration Number: 27031
Active ingredients (a.i.): florasulam
PMRA Document Number: 1705831

Background

Spectrum Herbicide Tankmix (HTM) is a co-package broadleaf herbicide product based on a mixture of “Spectrum A” (Reg.No. 27031), containing florasulam, in combination with “Spectrum B” (Reg.No. 27032), containing a pre-mixture of clopyralid plus MCPA Ester. Spectrum HTM is registered for selective post-emergent control or suppression of broadleaf weeds in spring wheat, durum wheat, spring barley (not underseeded with legumes) and oats grown in the prairie provinces and the Peace River region of British Columbia.

Axial 100EC Herbicide (Reg No. 28642), containing the active ingredient pinoxaden, is formulated as an emulsifiable concentrate. It is registered for post-emergent control of grass weeds in spring wheat and barley grown in the prairie provinces and Peace River, Okanagan and Creston Flats regions of British Columbia.

Purpose of Application

The purpose of this application was to amend the Spectrum A Suspension Concentrate Herbicide label to include a tankmix of Axial 100EC Herbicide + Spectrum A Suspension Concentrate Herbicide (as a component of Spectrum HTM) at currently labeled rates for the post-emergent control of labeled weeds in spring wheat, durum wheat and spring barley.

This is a companion submission to PMRA Sub. # 2007-8163 to amend the Axial 100EC Herbicide label to include a tankmix with Spectrum HTM. Since no new data were provided with the subject submission, the results of the review from Sub. # 2007-8163 were used for the determination for amending the registration of Spectrum A Suspension Concentrate Herbicide to add the tankmix of Spectrum A Suspension Concentrate Herbicide (as a component of Spectrum HTM) + Axial 100EC Herbicide.

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 or are less than that already registered (in the case of application rates).

Value Assessment

Efficacy and crop safety data were submitted from a total of 18 field trials in 2005 and 2006 in Alberta (7), Saskatchewan (6), and Manitoba (5) to assess the efficacy of Axial 100EC Herbicide both alone and in combination with Spectrum HTM to confirm compatibility and product efficacy. Based on the data provided, the tankmix of Axial 100EC Herbicide + Spectrum HTM is supported from a value perspective. The confirmatory data demonstrated that the subject tankmix combination provided acceptable control of all grass and broadleaf weeds listed on the respective Axial 100EC Herbicide and Spectrum HTM labels, with the exception of two grass weed species; green foxtail (which will be labeled for suppression) and barnyardgrass (which will be labeled for a possible reduction in control). With respect to the crops, the injury data that were provided indicate that the tankmix of Axial 100EC Herbicide + Spectrum HTM is safe for use on spring wheat and spring barley when applied at the use rate of 60 g a.i./ha + 500 g a.i./ha, respectively, between the 2-leaf and 6-leaf growth stage of the crop. Use of this tankmix on durum wheat is not supported due to its absence on the current Axial 100EC label.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of the Spectrum A Suspension Concentrate Herbicide label to include the tankmix of Axial 100EC Herbicide + Spectrum A Suspension Concentrate Herbicide (as a component of Spectrum HTM) for use in spring wheat and spring barley for the control of all labeled grass and broadleaf weeds, with the exception of green foxtail (suppression only) and barnyardgrass (may see reduction in control).

References

- PMRA # 1504325 Efficacy Summary; Submission to add Spectrum Tankmix. DACO 10.2.3.1. 11 pp.
- PMRA # 1504334 Summary (data) – Excel spreadsheet.
- PMRA # 1504324 Efficacy: Small-scale trials (field, greenhouse).

ISSN: 1911-8082

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