

Evaluation Report for Category C.3.10 Application

Application Number: 2007-8163
Application: Category C.3.10
Product: Axial 100EC Herbicide
Registration Number: 28642
Active ingredients (a.i.): pinoxaden
PMRA Document Number: 1705606

Background

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.

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.

Purpose of Application

The purpose of this application was to amend the Axial 100EC Herbicide label to include a tankmix of Axial 100EC Herbicide + Spectrum HTM (at currently labeled rates) for the post-emergent control of labeled weeds in spring wheat, durum wheat and spring barley. In addition, the registrant has requested a Master Product status for 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. The registrant's request for Master Product status for Axial 100EC Herbicide is denied at this time due to the current status of Axial 100EC Herbicide being a conditionally registered product.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of the Axial 100EC Herbicide label to include the tankmix of Axial 100EC Herbicide + Spectrum Herbicide Tankmix 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).

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