



Evaluation Report for Category C Streamlined Application

Application Number: 2007-8827
Application: Streamlined Category C
Product: Infinity Herbicide
Registration Number: 28738
Active ingredients (a.i.): pyrasulfotole/bromoxynil
PMRA Document Number: 1622496

Background

Infinity Herbicide (Reg. No. 28738) is registered for sale nationally as a selective herbicide for control of broadleaf weeds in wheat (spring durum and winter), spring barley, Timothy (seed production only) and triticale. It may be applied post emergence at a rate of 0.83L/ha.

Axial 100EC Herbicide (Reg. No.28642) is a conditionally registered systemic herbicide for the control of wild oat, green foxtail, yellow foxtail, volunteer oat, volunteer canary seed and proso-millet in spring wheat and barley in the Prairie provinces and Peace River, Creston Flats, and Okanagan Regions of British Columbia. It may be applied post emergence at a rate of 0.6 L/ha in addition to 0.7 L/ha of Adigor adjuvant (Reg. No. 28151).

Achieve Liquid Herbicide (Reg. No. 27011) containing tralkoxydim at 400g/L is registered for selective post emergence control of wild oat in spring wheat, winter wheat, durum wheat, barley, triticale and rye in eastern Canada. In western Canada, Achieve Herbicide is registered for use for control of wild oat, volunteer oat, green foxtail, yellow foxtail, barnyard grass and Persian darnel in wheat (durum, spring, winter), barley, triticale, rye (spring and winter), cereal crops under seeded to forage legumes such as alfalfa, birdsfoot trefoil, sainfoin and clover, and selected forage grasses (except timothy) grown for seed only. It may be applied post emergence at a rate of 0.5 L/ha in addition to Turbocharge adjuvant (Reg. No. 23135) at 0.5% v/v.

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

Purpose of Application

The purpose of this application was to amend the registration of Infinity Herbicide (Reg. No. 28736) containing the technical active ingredients pyrasulfotole at 37.5g/L and bromoxynil at 210g/L to include tank mixes with:

- 1) Axial 100EC Herbicide (Reg. No. 28642) + Adigor adjuvant (Reg. No. 28151) for the control of weeds appearing on the Infinity Herbicide label in addition to control of wild oat, green foxtail, yellow foxtail, volunteer oat, volunteer canary seed and proso-millet for use in spring wheat and barley.
- 2) Achieve Liquid Herbicide (Reg. No. 27011) + Turbocharge adjuvant (Reg. No. 23135) for the control of weeds appearing on the Infinity Herbicide label in addition to weeds appearing in the Achieve Herbicide label for use in wheat (spring, durum, winter), barley and triticale.

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

Data were submitted from a total of 15 field trials conducted in 2006 from Manitoba (6), Saskatchewan (6) and Alberta (3). Efficacy and crop safety of the tank mixture of Infinity Herbicide + Axial 100EC Herbicide + Adigor adjuvant were directly compared to that of the registered stand alone treatments of Infinity Herbicide, Axial Herbicide + Adigor adjuvant, and/or Achieve Herbicide + Turbocharge adjuvant.

The performance of the tank mixtures of Infinity Herbicide + Axial 100EC Herbicide + Adigor adjuvant and Infinity Herbicide + Achieve Liquid Herbicide + Turbocharge adjuvant were acceptable and similar to that of the registered alone treatments of Infinity Herbicide, Axial 100EC Herbicide + Adigor adjuvant and Achieve Liquid Herbicide + Turbocharge adjuvant for control of weed species listed on the respective tank mix partner labels. Performance was also acceptable and similar in terms of crop safety, assessed as percent visual crop injury.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of the Infinity Herbicide label to include tank mixes with Axial 100EC Herbicide + Adigor adjuvant and Achieve Liquid Herbicide + Turbocharge adjuvant for the control of weeds appearing on the respective tank mix partner labels.

References

- PMRA # 1524213 2007. Infinity Herbicide (Pyrasulfotole + Bromoxynil)- Data to support Tank mixtures with Axial and Achieve Herbicides DACO:10.3.2, p.233 Unpublished.

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