



Changes to Product Labels-Rotational Crops\Plantback Intervals Evaluation Report for Category B, Subcategory 3.5 Application

Application Number: 2006-0567
Application: Changes to Product Labels-Rotational Crops\Plantback Intervals
Product: Adrenalin SC Herbicide
Registration Number: 27879
Active ingredients (a.i.): Imazamox
PMRA Document Number): 1438633

Background

Adrenalin SC Herbicide has been registered since January 17, 2005. Adrenalin SC Herbicide is registered for use in the Prairie Provinces and Peace River Region of British Columbia for the control of broadleaf weeds and grasses in imazamox tolerant wheat (CLEARFIELD® trait). For specific details on 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 registration of Adrenalin SC Herbicide to include the addition of chickpeas (planted one year after application) and mustard (planted two years after application) as rotational crops.

Chemistry Assessment

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

Health Assessments

A toxicology assessment is not required as there was no change in the product formulation. An occupational/bystander exposure assessment is not required since the use pattern and application rates remain unchanged.

To support the proposed addition of chickpeas (one year after application) and mustard (two years after application) to the Adrenalin SC label, no new residue data were submitted. Following the evaluation of the label amendments, there is no indication that any of these changes will lead to measurable residues of imazamox or 2,4-D in rotational crops when used according to the amended label. Since the use rate and pre-harvest interval remained the same, no increase in dietary exposure is anticipated.

Environmental Assessment

An environmental assessment is not required since the use pattern, application rates and timings remain unchanged.

Value Assessment

Damage to rotational crops was visually assessed throughout the growing season in 15 single season trials conducted in Manitoba, Saskatchewan and Alberta over three years. The tolerance of chickpeas were evaluated in crop rotation 1 year after an application of the active ingredient imazamox and the tolerance of oriental and yellow condiment type mustards were evaluated in crop rotation 2 years after an application of the active ingredient imazamox. Data collected at 47-82 days after seeding chickpea reported no crop injury at the maximum application rate of 20 g a.e./ha of imazamox and showed acceptable yield results. Data collected at 56-98 days after seeding oriental mustard reported 1.7% crop injury at the maximum application rate of 20 g a.e./ha of imazamox and showed acceptable yield results. Data collected at 56-79 days after seeding yellow mustard reported no crop injury at the maximum application rate of 20 g a.e./ha of imazamox and showed acceptable yield results

Based on the data provided, it was concluded that chickpea showed acceptable crop tolerance one year after an application of imazamox and that mustard (condiment type only) showed acceptable crop tolerance two years after an application of imazamox.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Adrenalin SC Herbicide to include chickpeas (planted one year after application) and mustard (planted two years after application) as rotational crops.

References

- PMRA# 1137921 Imazamox: Petition for Chickpea (1 YAT) and Mustard (2 YAT) as Rotational Crops. Oostlander, M. BASF Canada. Part 10 Value. December 20, 2005. pp 154.
- PMRA# 1137924 Imazamox: Petition for Chickpea (1 YAT) and Mustard (2 YAT) as Rotational Crops. Oostlander, M. BASF Canada. Part 10 Value. December 20, 2005. pp 154.

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