



Evaluation Report for Category B, Subcategory 3.4 Application

Application Number: 2008-5945
Application: Changes to Product Labels-Application Method
Product: Crestivo Herbicide
Registration Number: 28150
Active ingredients (a.i.): Pinoxaden (PRN)
PMRA Document Number : 1805293

Purpose of Application

The purpose of this application was to add aerial application to the Crestivo Herbicide label for use on Spring wheat, Durum wheat and barley. Crestivo Herbicide has a conditional registration for use by ground application equipment on spring wheat, durum and barley crops to control a number of weeds (including wild oats, green foxtail, yellow foxtail, Persian dandel, volunteer oats, volunteer canary seed and proso millet) in the Prairie Provinces and Peace River, Okanagan and Creston flats regions of British Columbia. The rate and sites of application are the same between the aerial and the ground applications.

Chemistry Assessment

A chemistry assessment was not required for this application as there are no changes to the formulation.

Health Assessments

A health risk assessment was conducted for handlers of Crestivo Herbicide and no unacceptable risk was identified for mixer/loaders and applicators. Exposure to re-entry workers and bystanders is not expected to increase over the current registered use pattern of pinoxaden. No unacceptable risk is expected when workers follow the label directions and wear the personal protective equipment identified on the label.

No new residue data were submitted to support this application. The addition of aerial application to the label does not have any impact on the magnitude of pinoxaden residues. Therefore, the dietary exposure is not expected to increase and is unlikely to an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

New buffer zones were calculated for aerial use. Pinoxaden and its major transformation products (M2 and M3) present a low risk to wild mammals, birds, earthworms, bees and other arthropods, aquatic invertebrates, fish, algae and aquatic plants. However, given that pinoxaden is a herbicide, it is expected to adversely affect terrestrial plants in adjacent areas. Therefore, a ground and aerial buffer zone of 1 and 25 metres, respectively, are required to protect nearby plants from the effects of spray drift.

Value Assessment

The applicant provided reports from four efficacy trials in which efficacy of Axial 100EC Herbicide, applied at a reduced water volume (30 L/ha), was assessed for the control of wild oats. Non-safety adverse effects were assessed in spring wheat (3 trials) and barley (1 trial). The trials were conducted in Saskatchewan in 2008. The addition of the aerial application, with a reduced water volume of a minimum of 30 L/ha, to the Crestivo label was determined to be acceptable from a value perspective.

Conclusion

The PMRA has conducted a review of the available information and has concluded that the addition of aerial application to the Crestivo Herbicide label is acceptable.

References

<u>PMRA #</u>	<u>Reference</u>
714593	2004, A12303C 100EC Herbicide - Value Summary, DACO: 10.1
714594	2004, Note to Reviewer - Mode of Action, DACO: 10.2.1
714595	2004, Note to Reviewer - Description of Pest Problem, DACO: 10.2.2
714596	Pivot Table, DACO: 10.2,10.2.3.1
1689995	2008, 10.2.3.1-1 - Summary_AXIAL 100EC_Add aerial application, DACO: 10.2.3.1
1689996	2008, 10.2.3.1-2 Pivot table_AXIAL 100EC_Add aerial application, DACO: 10.2.3.1
1689997	2008, 10.2.3.4-1 - TSR 1_AXIAL 100EC_Add aerial application, DACO: 10.2.3.4
1689998	2008, 10.2.3.4-2 - TSR 2_AXIAL 100EC_Add aerial application, DACO: 10.2.3.4
1689999	2008, 10.2.3.4-3 - TSR 3_AXIAL 100EC_Add aerial application, DACO: 10.2.3.4
1690000	2008, 10.2.3.4-4 - TSR 4_AXIAL 100EC_Add aerial application, DACO: 10.2.3.4

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