

Evaluation Report for Category B, Subcategory 3.2, 3.3, 3.10 Application

Application Number: 2006-6849
Application: 3.2 – New Application Timing
3.3 – New Application Number or Frequency
3.10 – New Tankmixes
Product: Everest 70 WDG Herbicide
Registration Number: 26447
Active ingredients (a.i.): Flucarbazone
PMRA Document Number: 1820068

Purpose of Application

The purpose of this application is to amend the Everest 70 WDG Herbicide product label to include:

- pre-plant or post-plant pre-emergence application of Everest 70 WDG Herbicide at 20 g ai/ha for the suppression of green foxtail and wild mustard; 30 g ai/ha for the suppression of wild oat,
- pre-plant or post-plant pre-emergence application followed by a post-emergence application of Everest 70 WDG Herbicide at 10 + 20, or 15 + 15, or 20 + 10 g ai/ha for the control of green foxtail and suppression of wild oat,
- pre-plant or post-plant pre-emergence application of Everest 70 WDG Herbicide in tank mix with glyphosate present as the isopropylamine or potassium salt.

Chemistry Assessment

Chemistry Assessment was not required as there was no change to the currently registered formulation.

Health Assessments

The increase in the number and timing of applications results in no change to the overall application rate or pre-harvest interval. There is no expectation that the change in application pattern will result in residues of flucarbazone in/on treated wheat at levels exceeding the current maximum residue limit (MRL) of 0.01 ppm established in Table II, Division 15 of the FDAR.

The addition of glyphosate containing products as tank-mix partners to the Everest 70WDG Herbicide label can also be supported as the registered use rates exceed the proposed application rates. Therefore residues of glyphosate, when used as a tank-mix partner, are not expected to

exceed the currently established MRL of 5 ppm for wheat. Thus, there is no expectation of increased dietary exposure to any population subgroups.

The increase in the number and timing of applications, and the addition of glyphosate containing products as tank-mix partners to the Everest 70WDG Herbicide label can be supported. Residues of flucarbazone in wheat are not expected to exceed the established MRL. Therefore, no dietary risk to any segment of the population, including infants, children, adults and seniors is anticipated.

The exposure to mixers, loaders and other handlers, applicators, post-application workers, and bystanders is not expected to increase as a result of label amendments to Everest 70 WDG Herbicide (increased application frequency, at reduced application rates; combinations of pre-plant or post-plant/pre-emergence). An addition of a tank-mix with glyphosate (isopropylamine form) products registered for wheat crops is acceptable. A request to expand the container size is acceptable for workers wearing the personal protective equipment listed on the label.

Environmental Assessment

Everest 70 WDG Herbicide is currently registered for post-emergence application for weed control in spring and durum wheat in prairies and Peace River region of British Columbia. The total application rate and method of application, i.e., ground application only, for the amended label are the same as that of the registered product. Label amendment to include both pre-plant and post-plant pre-emergence applications will not pose additional impact or unacceptable risk to the environment.

Value Assessment

Data from seventeen field trials conducted on nine spring wheat varieties in 2005 at seven sites, including two Canadian provinces and three American states were submitted.

Efficacy was assessed as visual percent control relative to an untreated check on one to three occasions after the last herbicide application. Visual percent crop injury was assessed relative to an untreated check on one to three occasions after the last herbicide application. Crop yield was measured at harvest and was compared to registered commercial standards relative to the untreated check.

The data provided support the pre-plant and post-plant pre-emergence application timings for suppression of wild mustard and green foxtail with an application rate of 20 g ai/ha, and suppression of wild oat with an application rate of 30 g ai/ha. Sequential applications of either a pre-plant or a post-plant pre-emergence application followed by a post-emergence application at application rates of 10 + 20, 15 + 15, or 20 + 10 g ai/ha provide suppression of wild oat and control of green foxtail.

Visual injury to spring wheat following applications of Everest 70 WDG Herbicide was generally acceptable. Crop yield was also unaffected by applications of Everest 70 WDG Herbicide. However, since a 2x treatment was not included in the trials the margin of crop safety to these treatments cannot be determined. In consideration of this, and the significant crop injury reported in one trial, the proposed amendments to the product label are acceptable from a non-safety adverse effects perspective provided a statement is added to the product label warning of possible crop injury when pre-plant or post-plant pre-emergence applications of Everest 70 WDG Herbicide are made to spring wheat.

Conclusion

The Everest 70 WDG Herbicide label with the above amendments is acceptable for full registration.

References

- 1309325 2006, Value Data to Support the Registration of Everest 70 WDG Herbicide Applied as Preplant or Postplant/Preeemergence Treatment in Spring Wheat., DACO: 10.1,10.2.1,10.2.2,10.2.3.1,10.2.3.3,10.3.1,10.3.2
- 1309327 Everest Summary Tables, DACO: 10.2.3.1
- 1309328 2006, Trial Reports Database Everest 70 WDG DACO 10.2.3.3 and 10.3.2, DACO: 10.2.3.3,10.3.2(A)
- 1508964 2007, Response to Clarification Request Everest 70 WDG Herbicide, DACO: 10.2.3.1
- 1508965 2007, Response to Deficiencies Everest 70 WDG Herbicide, DACO: 10.2.3.1
- 1337645 2006, Use Description/Scenario, DACO: 5.2

ISSN: 1911-8082

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