

Evaluation Report for Category B, Subcategory 3.10, 3.12, 3.4 Application

Application Number: 2013-4278
Application: Changes to Product labels – Tank Mixes
Changes to Product labels – New site or host
Changes to Product labels – Application method
Product: Everest 2.0 Herbicide
Registration Number: 30342
Active ingredients (a.i.): Flucarbazone (present as flucarbazone-sodium)
PMRA Document Number: 2363078

Purpose of Application

The purpose of this application was to amend the label for Everest 2.0 Herbicide to add aerial application, to add the new crop winter wheat, to update the tankmix partners for spring and winter wheat, to update the buffer zone section and to amend the net contents to add a smaller container size.

Chemistry Assessment

A chemistry assessment was not required with this application.

Health Assessments

A toxicology assessment was not required with this application.

The occupational exposure from the new use of Everest 2.0 Herbicide on winter wheat for mixers, loaders, groundboom applicators, bystanders and post application re-entry workers is not expected to exceed that of the registered uses of flucarbazone-sodium. Changes to the tank-mix partners are also not expected to increase the exposure when compared to the registered use pattern. The exposure scenario from the new use by aerial application was assessed and no risks of concern were identified. Therefore, the changes to the label of Everest 2.0 Herbicide are not expected to be of health concern provided that workers follow the label directions and wear the personal protective equipment identified on the label.

No new residue data for flucarbazone-sodium in wheat were submitted to support the amendments to the use pattern of this active on the Everest 2.0 Herbicide label. Previously reviewed residue data from field trials conducted in/on spring and winter wheat were reassessed in the framework of this petition and were considered sufficient. In addition, processing data on treated wheat were reviewed to determine the potential for concentration of residues of flucarbazone-sodium into processed commodities.

The label changes are not expected to increase the magnitude of flucarbazone-sodium residues in food or feed items. Therefore, the MRL specified at 0.01 ppm in/on wheat is considered adequate to protect the consumer, including infants, children, adults and seniors, from dietary residues of flucarbazone-sodium following use in accordance with Good Agricultural Practice (GAP).

Environmental Assessment

Everest 2.0 Herbicide is currently registered for use in Manitoba, Saskatchewan, Alberta and Peace River region of British Columbia for spring wheat and durum wheat. The application rates for the new crop, winter wheat, are the same as those currently registered for spring wheat. The new crop, aerial application, tank mix partners and label amendments are not expected to pose additional environmental concerns.

Value Assessment

Value information including data from field research trials, scientific rationale, and use history information was submitted for review.

Data from five field research trials demonstrated that winter wheat exhibited an adequate margin of crop safety to Everest 2.0 Herbicide applied in accordance with the label directions. Therefore, inclusion of winter wheat as a new host crop was supported for control of labeled weeds.

A scientific paper (PMRA # 2348343) was submitted to support the aerial application. The study was carried out on an AAFC Research Farm during a four year period. Applications of flucarbazone-sodium with three spray volumes, 30, 50, and 100 L/ha, were evaluated for wild oat control and spring wheat yield. It was concluded in the paper that an application of flucarbazone-sodium with a 30 L/ha spray volume maintained the same wheat grain yield and satisfactory wild oat control compared to the spray volumes registered for ground application (i.e., 50-100 L/ha). Therefore, the inclusion of aerial application was supported for labeling.

Updating tank mix options were evaluated and supported by scientific rationales and registration status of each of the listed tank mix partners.

Inclusion of winter wheat as a new host crop and update on tank mix options will provide users more flexibility to manage grasses and broadleaf weeds in small grain cereals. Aerial application will allow farms to apply Everest 2.0 Herbicide under different circumstances, e.g., fields are too wet to be sprayed by ground equipment in the early spring.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and is able to support the amendments to the product label for Everest 2.0 Herbicide, to add aerial application, to add the new crop winter wheat, to update the tankmix partners for spring and winter wheat, to update the buffer zone section and to amend the net contents to add a smaller container size.

References

PMRA Document Numbers	References
2333670	2013, Efficacy summary for Everest 2.0 Herbicide for application to winter wheat and application by air for control of grass and broadleaf weeds, DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1, 10.2.3.3(D).
2333672	2011, 81 - Everest 2.0 + ARY-0922-001 Tolerance in Central Kansas in 2010-2011, DACO: 10.3.2(A).
2333684	2011, 81 - Everest 2.0 + ARY-0922-001 Tolerance, DACO: 10.3.2(A).
2333687	2012, Everest 2.0 Tolerance on winter wheat, DACO: 10.3.2(A).
2333688	2011, 80 - Flucarbazone + ARY-0922-001 winter wheat post-emergent ratios, DACO: 10.2.3.3(B), 10.3.2(A).
2333690	2012, Everest 2.0 efficacy on winter wheat, DACO: 10.2.3.3(B),10.3.2(A).
2348343	2001, Control of wild oat (<i>Avena fatua</i>) in wheat with MKH 6562 ¹ , Weed Technology, Volume 15:48-55, DACO: 10.1, 10.6.

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