



Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4, 2.5, 3.1, 3.12 Application

Application Number: 2010-3012
Application: New product chemistry: guarantee, identity of formulants, proportion of formulants, formulation type
New product label: application rate increase, new site or host
Product: Everest 2.0 Herbicide
Registration Number: 30342
Active ingredient (a.i.): Flucarbazone (present as flucarbazone-sodium)
PMRA Document Number English PDF: 2112989

Purpose of Application

The purpose of this application was to register a new end-use product for use in Manitoba, Saskatchewan, Alberta and Peace River region of British Columbia for postemergent application on spring wheat (including durum wheat) for control of wild oat, green foxtail, volunteer tame oat and certain broadleaf weeds based on the precedent product Everest 70 WDG Herbicide (Registration Number 26447).

The precedent product is registered for the same use pattern, as well as for preplant and preemergence on spring wheat (excluding durum wheat). For details on the scientific evaluation and registration decisions related to the precedent product, please refer to Regulatory Note REG2000-09, *Flucarbazone-sodium*, Proposed Registration Decision PRD2008-13, *Flucarbazone-sodium* and Registration Decision RD2009-02, *Flucarbazone-sodium*.

Chemistry Assessment

Everest 2.0 Herbicide is formulated as suspension containing flucarbazone, present as flucarbazone-sodium, at a nominal concentration of 397 g/L. This end-use product has a density of 1.1966–1.1982 g/mL and pH of 6.9–9.5. The chemical requirements for Everest 2.0 Herbicide are complete.

Health Assessment

Everest 2.0 Herbicide is of low acute toxicity via the oral (female $LD_{50} > 5000$ mg/kg bw), dermal ($LD_{50} > 2000$ mg/kg bw) and inhalation ($LC_{50} > 2.08$ mg/L) routes in rats. It is minimally irritating to rabbit eyes and non-irritating to rabbit skin. Everest 2.0 Herbicide is not a skin sensitizer in guinea pigs.

The use of Everest 2.0 Herbicide on spring wheat (including durum wheat) should not result in an increase in potential occupational or bystander (re-entry) exposure to flucarbazone relative to the precedent product since the application rate,

number of applications, frequency of application and method of application are the same. No unacceptable risk is expected when workers follow label direction and wear the personal protective equipment identified on the Everest 2.0 Herbicide label.

Since Everest 2.0 Herbicide is applied at early crop emergence, and there is no change proposed to the application rates or timing with respect to the registered use of flucarbazone-sodium on spring wheat (including durum wheat), the new end-use product is not anticipated to have an impact on the magnitude of the residues in the registered crops. Therefore, the dietary exposure is not expected to increase and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

The precedent product is registered for use in the same areas for use on spring wheat (including durum wheat) with the same maximum application rates and method of application. The Everest 2.0 Herbicide label contains adequate mitigation measures to protect the environment. The use of Everest 2.0 Herbicide is, therefore, not expected to pose additional environmental concerns relative to the precedent product.

Value Assessment

Trial data were provided to support the registration of Everest 2.0 Herbicide. The use pattern for Everest 2.0 Herbicide was based on the postemergence use pattern of the precedent product. Based on the available information, agronomic equivalence (efficacy and crop tolerance) would be expected between the precedent product and Everest 2.0 Herbicide when applied alone or in tank mix. As such, Everest 2.0 Herbicide was determined to have value.

Conclusion

The PMRA conducted an evaluation of the subject application and determined that use of the product in accordance with the label has value and will not pose unacceptable health or environmental risk.

References

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