

Evaluation Report for Category B, Subcategory 3.1 Application

Application Number: 2015-2705
Application: New Product Labels – Application Rate Increase
Product: BioSafe Weed Control
Registration Number: 32410
Active ingredients (a.i.): Ammonium salt of fatty acid
PMRA Document Number: 2655906

Purpose of Application

The purpose of this application was to register BioSafe Weed Control, a domestic class end-use herbicide product, containing ammonium salt of fatty acid.

Chemistry Assessment

BioSafe Weed Control is formulated as a solution containing ammonium salt of fatty acid at a nominal concentration of 36.0%. This end-use product has a density of 1.001 g/cm³ and pH of 8-9. The required chemistry data for BioSafe Weed Control have been provided, reviewed and found to be acceptable.

Health Assessments

A dietary exposure assessment was not required for this application.

BioSafe Weed Control is of low acute toxicity by the oral, dermal, and inhalation routes, is mildly to moderately irritating to the skin, moderately irritating to the eyes, and is not a dermal sensitizer.

There are no residential user exposure concerns expected from the use of BioSafe Weed Control on grass and broadleaf weeds. The low toxicity of the end-use product and the mitigative precautionary statements on the label are such that the risk due to occupational exposure is not a concern.

Although the end-use product will not be applied near or directly to water, some drinking water exposure may be possible through run-off from treated areas. Exposure to ammonium salt of fatty acid and its by-products in drinking water are expected to be minimal. In addition, toxicity to ammonium salt of fatty acid and its ions is low. Consequently, the risk due to exposure from drinking water is not a concern.

Maximum Residue Limit (MRL)

As part of the assessment process prior to the registration of a pesticide, Health Canada must determine that the consumption of the maximum amount of residues that are expected to remain on food products when a pesticide is used according to label directions will not be a concern to human health. This maximum amount of residues expected is then legally specified as an MRL under the *Pest Control Products Act* (PCPA) for the purposes of adulteration provision of the *Food and Drugs Act* (FDA). Health Canada specifies science-based MRLs to ensure the food Canadians eat is safe.

The dietary risks from food and drinking water are not a concern given that BioSafe Weed Control is not proposed for food or feed use. Consequently, the specification of an MRL for ammonium salt of fatty acid under the PCPA is not required.

Environmental Assessment

The use of BioSafe Weed Control containing the ammonium salts of fatty acid is not expected to increase the environmental exposure relative to other approved fatty acid-based soap salts. Therefore, no risk of concern is expected. Environmental concerns have been mitigated through adequate statements on the product label.

Value Assessment

BioSafe Weed Control is a non-conventional herbicide that provides an alternative herbicide option for weed management in the listed sites, particularly in situations where the use of conventional herbicides is not desirable.

Value information demonstrated that the control or suppression of weeds, such as crabgrass, pigweeds, amaranth, carpetweed, and liverworts can be achieved with applications of BioSafe Weed Control at the 5% a.i. concentration. Value information submitted included data from two field trials and three greenhouse trials conducted in the US over four years.

Conclusion

The Pest Management Regulatory Agency has completed the review of available information and can support the registration of BioSafe Weed Control.

References

PMRA Document Number	References
2558242	2015, PART 5 - Exposure 5.2-AXXE, DACO: 5.2
2545933	2007, Value of Emery AE7005 Concentrate, OK State USDA study, DACO: 10.2.3.3(B) and 10.3.2.
2575946	2010, Outside study, AXXE (Racer) for liverwort control, IR-4, DACO: 10.2.3.3(B) and 10.3.2.
2575947	2011, Outside study, AXXE (Racer) for liverwort control, IR-4, DACO: 10.2.3.3(B) and 10.3.2.
2575948	2011, Outside study, AXXE (Racer) for liverwort control, IR-4, DACO: 10.2.3.3(B) and 10.3.2.

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