

Evaluation Report for Category B, Subcategories 2.1, 2.3, 2.4, 3.1, 3.5, 3.6, 3.8, 3.10, 3.11 Application

Application Number: 2022-5269
Application: New End-use Product (Product Chemistry) – Guarantee and Identity and Proportion of Formulants; New Product Label - Application Rate Increase or Decrease, Rotational Crops/Plantback Interval, Pre-Harvest/Slaughter/With-Holding, Re-entry Interval, New Pests, and Tank Mixes
Product: FORCEFIGHTER ALL IN
Registration Number: 35007
Active ingredients (a.i.): Bromoxynil (present as octanoate ester), fluroxypyr (present as 1-methylheptyl ester), and MCPA (present as 2-ethylhexyl ester)
PMRA Document Number: 3522082

Purpose of Application

The purpose of this application was to register a commercial end-use product, FORCEFIGHTER ALL IN, for post-emergent control of broadleaf weeds in wheat (spring and durum) and barley.

Chemistry Assessment

FORCEFIGHTER ALL IN is formulated as an emulsifiable concentrate containing bromoxynil (present as octanoate ester) at a concentration of 200 g/L, fluroxypyr (present as 1-methylheptyl ester) at 80 g/L and MCPA (present as 2-ethylhexyl ester) at 200 g/L. This end-use product has a density of 1.109 g/mL and a pH of 3.96 (1% solution). The required chemistry data for FORCEFIGHTER ALL IN have been provided, reviewed and found to be acceptable.

Health Assessments

FORCEFIGHTER ALL IN is of high acute toxicity via the oral route of exposure. It is of low acute toxicity via the dermal and inhalation routes. It is minimally irritating to the eye and mildly irritating to the skin, and is a potential skin sensitizer.

The registration of FORCEFIGHTER ALL IN on wheat (spring and durum) and barley is not expected to result in potential occupational or bystander exposure over the registered use of fluroxypyr, bromoxynil, and MCPA. Previously conducted risk assessments for mixers, loaders, applicators and postapplication workers were acceptable to support the labeled uses. No health risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

No new residue data for fluroxypyr, bromoxynil and MCPA in spring wheat, durum wheat or barley were submitted or were required to support the registration of

FORCEFIGHTER ALL IN for use on these crops. Its use does not constitute an expansion of the use pattern for these active ingredients. Therefore, previously reviewed residue data from field trials conducted in/on wheat and barley were reassessed in the framework of this application and found to be acceptable. Dietary exposure to residues of fluroxypyr, bromoxynil and MCPA is not expected to increase with the registration of FORCEFIGHTER ALL IN, and no health risks of concern are expected for acute or chronic dietary exposure (food and drinking water) to any segment of the population, including infants, children, adults and seniors. Existing maximum residue limits (MRLs) for these active ingredients in/on wheat and barley are acceptable to cover the uses of FORCEFIGHTER ALL IN.

Environmental Assessment

The uses on the label of FORCEFIGHTER ALL IN are within the currently registered use patterns of fluroxypyr, MCPA, and bromoxynil. After a scientific review of the available information, it has been concluded that the environmental risks associated with the uses of FORCEFIGHTER ALL IN are acceptable when used according to label directions.

Value Assessment

The registration of FORCEFIGHTER ALL IN provides users with an alternative solution to control a broader spectrum of weeds. In addition, FORCEFIGHTER ALL IN contains active ingredients from two herbicide mode of action groups, providing users with a valuable tool that may help manage the development of herbicide-resistant weed biotypes.

Value information submitted for review consisted of scientific rationales, precedent registrations, and data from replicated field trials. This information collectively demonstrated that the performance, in terms of efficacy and crop tolerance, of FORCEFIGHTER ALL IN was similar to that of the tank mixture that delivers the same active ingredients at the same rates. As such, efficacy claims labelled for either tank mix component and host claims labelled for both tank mix components are supported for inclusion on the FORCEFIGHTER ALL IN label. The rotational crop claims are supported based on the more restrictive rotational crop claims labelled for the tank mix components.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the registration of FORCEFIGHTER ALL IN.

References

PMRA

Document

Number

Reference

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