

Evaluation Report for Category B, Subcategory 2.1, 2.3, & 2.4 Application

Application Number: 2013-6791
Application: New / Changes EP or MA Product Chemistry-Guarantee, identity of formulants, proportion of formulants
Product: Xtendimax with Vaporgrip Technology
Registration Number: 31896
Active ingredients (a.i.): Dicamba
PMRA Document Number : 2436155

Purpose of Application

The purpose of this application was to register a new end use product, XtendiMax with VaporGrip Technology, for control of broadleaf weeds in Roundup Ready 2 Xtend soybeans, cereals, corn, reduced tillage (prior to seeding and reduced tillage fallow), pastures and rangeland grasses, crop-free land (summer fallow and stubble), red fescue, canary seed, seeding grasses grown for seed and forage, and low bush blueberries.

Chemistry Assessment

XtendiMax with VaporGrip Technology is formulated as a solution containing dicamba, present as diglycolamine salt at a nominal concentration of 350 g/L. This end-use product has a density of 1.2017 g/mL and pH of 5.24. With the exception of the storage stability and corrosion characteristics study, the chemistry requirements for this product have been fulfilled.

Health Assessments

Food residue and occupational exposure assessments were not required for this application.

Xtendimax with vaporgrip technology is of low acute, dermal and inhalation toxicity in rats. It is minimally irritating to the eyes and non-irritating to the skin of rabbits. It was not a dermal sensitizer in guinea pigs.

Environmental Assessment

An environmental assessment was not required for this application

Value Assessment

Value information included data from 10 efficacy trials and 5 dedicated crop tolerance trials conducted in Quebec, Ontario, and Manitoba in 2013. Efficacy of XtendiMax with VaporGrip

Technology at 300 and 600 g a.e./ha was directly compared to M1691 Herbicide at the same rates for control of lamb's-quarters, pigweed, redroot pigweed, common ragweed, dandelion, and wild buckwheat in the efficacy trials. Crop safety of XtendiMax with VaporGrip Technology applied at 600 and 1200 g a.e./ha was assessed for Roundup Ready 2 Xtend soybeans compared to M1691 Herbicide at the same rates in the dedicated crop tolerance trials.

Efficacy and crop tolerance data demonstrated that XtendiMax with VaporGrip Technology was biologically similar to M1691 Herbicide in terms of weed control as well as crop safety. Therefore, all claims and uses labelled for M1691 Herbicide were supported to be included on the XtendiMax with VaporGrip Technology label.

The applicant indicated that the registration of XtendiMax with VaporGrip Technology may provide users with the following benefits:

- Lower volatility risk of dicamba.
- Reduced potential for off-site movement for dicamba.
- Maintained high level of weed efficacy and Roundup Ready 2 Xtend soybean crop safety as M1691.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the registration of the new end-use product Xtendimax with Vaporgrip Technology.

References

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