

Evaluation Report for Category B, Subcategory B.2.1, B.2.3, B.2.4, B.2.6, B.3.10, B.3.12, B.3.9 Application

Application Number: 2014-5764
Application: New End-Use Product, Chemistry - Guarantee, Identity and Proportion of Formulants, New combination of active ingredients
New Product Label - Tank Mixes, New Site/Host, Level of Control
Product: Rexade A Herbicide
Registration Number: 32520
Active ingredients (a.i.): Halauxifen present as methyl ester and Pyroxsulam
PMRA Document Number: 2556848

Purpose of Application

The purpose of this application was to register a new end-use product to be used as an herbicide for the postemergence control of annual grasses and broadleaf weeds in durum, spring and winter wheat.

Chemistry Assessment

Rexade A Herbicide is formulated as wettable granules containing halauxifen, present as methyl ester at a nominal concentration of 5% and pyroxsulam at a nominal concentration of 15%. This end-use product has a density of 0.5222 – 0.5561 g/mL at 23.4°C and pH of 4.44. The required chemistry data for Rexade A Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

Rexade A Herbicide was of low acute toxicity via the, dermal and inhalation routes in the rat. It was minimally irritating to the eye and slightly irritating to the skin of rabbits. It is not a dermal sensitizer in mice when tested using the local lymph node assay (LLNA).

The use of the new end-use product Rexade A Herbicide on durum, spring and winter wheat is not expected to result in potential occupational or bystander exposure over the registered use of halauxifen (present as methyl ester), pyroxsulam and the safener cloquintocet acid. No health risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

No residue data for the active herbicide ingredients halauxifen, present as methyl ester, and pyroxsulam, or for the safener cloquintocet acid in wheat were submitted to support the use expansion of these compounds on the Rexade A Herbicide label. No data were required given

that the proposed use pattern including application timing, rate, preharvest interval (PHI), and crop rotational and livestock feeding/grazing restrictions fall within the use pattern on currently registered end-use products containing each of these components. Based on this assessment, dietary exposure to halauxifen, present as methyl ester, and pyroxsulam, and to the safener cloquintocet acid 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

Data on the toxicity of the formulated product, Rexade A Herbicide, to terrestrial plants and aquatic organisms were received, reviewed and found acceptable in support of its registration. The use of Rexade A Herbicide following label instructions is not expected to increase environmental risk when compared to the registered use pattern of its active ingredients. Mitigation measures, including no-spray buffer zone to protect terrestrial and aquatic habitats, are on the label and are sufficient to mitigate environmental risk.

Value Assessment

The co-formulation of the two active ingredients halauxifen and pyroxsulam into a single product will be easily handled and convenient to apply for the control of both grasses and broadleaf weeds. As the product contains herbicides from mode of action groups 2 and 4, Rexade A Herbicide should contribute to resistance management by reducing the potential for the development of resistance to either individual mode of action, or by providing control of weed species that may already have developed resistance to one of these modes of action. The efficacy and crop injury, to host and rotational crops, of Rexade A Herbicide applied alone, or in tank mix with the listed herbicides was determined to be acceptable by the value information submitted. This information included data from 37 field trials and the precedent registrations of herbicide end-use products containing halauxifen, present as methyl ester, and pyroxsulam.

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 Rexade A Herbicide.

References

PMRA Reference Document Number

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ISSN: 1911-8082

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