

Evaluation Report for Category B, Subcategory 2.3 and 2.4 Application

Application Number: 2014-1935
Application: New end-use product chemistry – identity and proportion of formulants
Product: Ultra Blazer Herbicide
Registration Number: 32330
Active ingredients (a.i.): Acifluorfen (present as sodium salt)
PMRA Document Number : 2459494

Purpose of Application

The purpose of this application was to register the end-use product, Ultra Blazer Herbicide (guarantee: 240g/L acifluorfen, present as sodium salt), for post emergence application on soybeans for the control of cocklebur, jimsonweed, lady's-thumb, lamb's-quarters, wild mustard, eastern black nightshade, redroot pigweed, and common ragweed and suppression of Canada thistle, hedge bindweed, field bindweed, and common milkweed. The application was based on a currently registered precedent product.

Chemistry Assessment

Ultra Blazer Herbicide is formulated as solution containing acifluorfen (present as sodium salt) at a nominal concentration of 240 g/L. This end-use product has a density of 1.177 g/mL and pH of 9.52. The required chemistry data for Ultra Blazer Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

Ultra Blazer Herbicide is slightly acutely toxic in rats by the oral route and of low acute toxicity by the dermal and inhalation routes of exposure. Ultra Blazer Herbicide is severely irritating (with persistence) to the eyes and moderately irritating to the skin of rabbits. Ultra Blazer Herbicide is not a skin sensitizer in guinea pigs.

No residue data were submitted in support of the registration of the end-use product Ultra Blazer Herbicide, which contains acifluorfen, for use on soybeans. However, previously reviewed data was reassessed in the framework of this submission. The use of Ultra Blazer Herbicide is not expected to result in an increase in the magnitude of acifluorfen residues in/on the soybeans. Therefore, the use of Ultra Blazer Herbicide will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

The use of Ultra Blazer Herbicide on soybeans is not expected to result in potential occupational or bystander exposure over the registered use of acifluorfen. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

The formulation of Ultra Blazer Herbicide was compared to the formulation of a currently registered precedent product. It was considered that the formulation differences were minor and would not result in any significant effects on product efficacy and crop safety for Ultra Blazer Herbicide when compared to the precedent product.

Confirmatory value information from eight combined efficacy and crop tolerance trials conducted in Canada and the US in 2011 and 2012 were submitted. Efficacy and crop safety of Ultra Blazer Herbicide applied alone or in tank mix with Basagran Forte (Registration Number 22006) were compared to those of Blazer (Registration Number 23315) applied alone or in tank mix with the same herbicide at comparable rates. The Ultra Blazer Herbicide treatments provided similar levels of weed control and resulted in similar levels of visible soybean injury when compared with the Blazer treatments.

Based on the weight of evidence, it can be concluded that Ultra Blazer Herbicide is agronomically equivalent to Blazer. Therefore, all uses and claims that are labelled for Blazer are supported to appear on the Ultra Blazer Herbicide label and the registration of Ultra Blazer Herbicide is supported from a value standpoint.

Conclusion

The PMRA has completed a review of all available information in support of Ultra Blazer Herbicide and found it sufficient to support full registration.

References

PMRA Document Number	References
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2429787	2011, Control of Glyphosate or ALS Resistant Weeds in Soybeans, DACO: 10.2.3.3(B), 10.3.2(A)
2429788	2011, Efficacy of Ultra Blazer in Roundup Ready Soybean Programs, DACO: 10.2.3.3(B), 10.3.2(A)
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2429799	2005, Physical and Chemical Characteristics: pH and Density/Relative density, DACO: 3.5.6, 3.5.7
2479329	2006, Composition of Some Sodium Acifluorfen Formulations, DACO: 3.5.10, 3.5.14 CBI
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2540380	2007, Ultra Blazer Herbicide Storage Stability and Corrosion Characteristics, DACO: 3.5.10, 3.5.14
2429793	2014, Product Chemistry for Ultra Blazer Herbicide Containing Sodium Acifluorfen, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2.1, 3.2.2, 3.5.12, 3.5.13, 3.5.15, 3.5.2, 3.5.4, 3.5.5, 3.5.8, 3.5.9
2429795	2014, Product Chemistry for Ultra Blazer Herbicide Containing Sodium Acifluorfen, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2.1, 3.2.2, 3.5.12, 3.5.13, 3.5.15, 3.5.2, 3.5.4, 3.5.5, 3.5.8, 3.5.9 CBI
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2544976	2015, Ultra Blazer: Physical and Chemical Characteristics: Oxidation/Reduction, Flammability, and Viscosity, DACO: 3.5.11, 3.5.8, 3.5.9
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