



New Pests

Evaluation Report for Category B, Subcategory 3.11 Application

Application Number: 2017-1756
Application: New Pests
Product: Converge Flexx Herbicide
Registration Number: 29071
Active ingredients (a.i.): isoxaflutole
PMRA Document Number : 2782557

Background

Converge Flexx Herbicide was first registered November 3, 2008. Converge Flexx Herbicide, containing 240 g/L isoxaflutole, is registered for pre-plant, pre-emergence and early post-emergence application in field corn in eastern Canada and British Columbia and in seed corn in eastern Canada for the control of multiple grass and broadleaved weeds, including common ragweed and tall waterhemp, at rates of 220-440 ml/ha (53-105 g a.i./ha). Tank mixtures with atrazine (obligatory for pre-plant applications) with or without glyphosate are included on the label. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Purpose of Application

The purpose of this application was to expand the registration of Converge Flexx Herbicide to include claims of early-season control of glyphosate-resistant biotypes of common ragweed and tall waterhemp at the rate of 220 ml/ha, control of glyphosate-resistant biotypes of these two weeds at the rate of 330 ml/ha, and control of Canada fleabane and giant ragweed, including glyphosate-resistant biotypes of both, for Converge Flexx Herbicide applied at 440 ml/ha in a tank mixture with 1063 g a.i./ha atrazine.

Chemistry Assessment

A chemistry assessment was not required as there was no change to the product formulation.

Health and Environmental Assessment

Health and environmental assessments were not required as there was no change to host crops, application rates, methods, and timings.

Value Assessment

The widespread use of glyphosate in glyphosate-tolerant crops, including corn, has led to the

appearance of weed populations resistant to glyphosate, including for four species, common ragweed, giant ragweed, Canada fleabane and tall waterhemp (also known as common waterhemp). Identification of glyphosate-resistant biotypes of common ragweed and tall waterhemp on the Converge Flexx Herbicide label will document that this product can be used for their control. Addition of claims of control of Canada fleabane and giant ragweed, including glyphosate-resistant biotypes of each, specifically for the tank mixture of Converge Flexx Herbicide plus atrazine, will provide corn growers an additional option to combat these weeds.

A rationale was submitted to support claims of control of glyphosate-resistant biotypes of each of common ragweed and tall waterhemp. It was argued that as claims of early season control and season-long control at rates of 220 ml/ha and 330 ml/ha, respectively, are already registered for each of these weeds, and as isoxaflutole and glyphosate belong to different mode-of-action groups, the performance of Converge Flexx Herbicide for control of glyphosate-resistant biotypes would be expected to be similar to non-glyphosate-resistant biotypes.

Performance data generated in small-scale field trials were submitted to assess the performance of the tank mixture of 440 ml/ha Converge Flexx Herbicide plus 1063 g a.i./ha atrazine (as 2.21 L/ha Converge 480 Herbicide) for control of Canada fleabane and giant ragweed up to 10 cm in height. The data demonstrated that consistent control of these weeds, including glyphosate-resistant biotypes of each, can be expected by later in the field season for this tank mix applied from pre-plant to the early post-emergence stage of corn.

A crop safety assessment was not required as Converge Flexx Herbicide applied alone or in a tank mixture with atrazine was already registered for use in field corn and seed corn.

Conclusion

The PMRA has conducted an assessment of the subject application and has determined that the submitted information is adequate to support each of the proposed claims for Converge Flexx Herbicide applied alone or in a tank mixture with atrazine in accordance with the Converge Flexx Herbicide label in field corn and seed corn.

References

List of Studies/Information Submitted by Registrant

Value Assessment

2750025	2017, Converge Flexx (isoxaflutole) plus Converge 480 (atrazine) applied Pre-plant or Pre-emergence to corn for control of Canada fleabane and giant ragweed (including glyphosate-resistant biotypes), DACO: 10.1,10.2,10.2.3,10.2.3.3(B),10.3,10.3.2(A)
2750026	2017, Converge Flexx + Converge 480 ERICA & AMBTR Trial Reports, DACO: 10.2.3.4(B)

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