

Evaluation Report for Category B, Subcategory 3.10, 3.11 Application

Application Number: 2014-3716
Application: Changes to Product Labels – tank mixes; new pests
Product: Impact Herbicide
Registration Number: 28141
Active ingredients (a.i.): Topramezone
PMRA Document Number : 2495243

Purpose of Application

The purpose of this application was to add XA Oil Concentrate (Reg. No. 11769) as an alternate tankmix partner and the two pests Volunteer Canola (controlled) and Giant Ragweed (suppressed) to the product label for Impact Herbicide.

Chemistry and Environmental Assessments

Chemistry and environmental assessments were not required with this application.

Health Assessments

The use of the registered adjuvant XA Oil Concentrate (83% mineral oil and 17% surfactant blend) as an alternate tank mix partner is an identical use to the currently registered Assist Oil Concentrate (Reg. No. 16937) on the Impact Herbicide label. The tank mix use of XA Oil Concentrate, including the product rate and timing of the tank-mix, is identical to its registered use on other end use product labels. When XA Oil Concentrate is used on corn with Impact Herbicide, no changes in the magnitude of residues of topramezone are expected in the treated crops. Therefore, dietary exposure to topramezone are not expected to increase, and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Value Assessment

Value information submitted included data from three field trials, use history information from four sources in the US, and scientific rationale.

Efficacy of Impact Herbicide alone or in tank mix with atrazine, atrazine + Frontier, glyphosate or atrazine + glyphosate was assessed for volunteer canola control in three trials conducted on corn in Manitoba in 2013. Mean volunteer canola control with all herbicide treatments was achieved in these trials. Therefore, volunteer canola control with Impact Herbicide applied in tank mix with atrazine or atrazine + Frontier or atrazine + glyphosate and volunteer canola

suppression with Impact Herbicide in tank mix with glyphosate can be supported as per requested.

Use history information from four sources in the US, including from Purdue University, University of Southern Illinois, Illinois State University, and Iowa State University, indicated that giant ragweed suppression can be achieved with the treatment of Impact Herbicide alone. Therefore, giant ragweed suppression with Impact Herbicide applied in tank mix with the labelled herbicides can be supported.

Both XA Oil Concentrate and Assist Oil Concentrate are composed of 83% mineral oil and 17% surfactant blend. They can be expected to perform similarly when applied in tank mix with a pest control product. Therefore, the addition of XA Oil Concentrate as an alternative to the labelled adjuvants for use with Impact Herbicide can be supported.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and is able to support the addition of XA Oil Concentrate as a tank mix partner and the two pests Volunteer Canola (controlled) and Giant Ragweed (supressed) to the product label for Impact Herbicide.

References

PMRA Document Number	References
2455219	2014, Use history information from Purdue University, DACO: 10.2.4.
2455220	2014, Use history information from Illinois State University, DACO: 10.2.4.
2455221	2014, Use history information from Iowa State University, DACO: 10.2.4.
2455222	2014, Use history information from University of Southern Illinois, DACO: 10.2.4.
2455223	2013, Trial report, DACO: 10.2.3.3(B).
2455224	2013, Trial report, DACO: 10.2.3.3(B).
2455225	2013, Trial report, DACO: 10.2.3.3(B).

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