

Impact Herbicide Evaluation Report for Category C, Subcategory C.3.10 Application (Addition of tank-mixes)

Application Number: 2008-1797
Application: Category C, Subcategory C.3.10 Application (addition of tank-mixes)
Product: Impact Herbicide
Registration Number: 28141
Active ingredients (a.i.): topramezone (MTN)
PMRA Document Number : 1735504

Background

Impact Herbicide has been registered since November 18, 2005. Impact Herbicide is registered for post-emergence control of grasses and broadleaf weeds in field corn, both conventional and herbicide tolerant hybrids. 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 submission was to amend the registration of Impact Herbicide to include 2 new tank mixtures with glyphosate or with glyphosate + atrazine at registered rates. These tank mixtures are intended for post-emergence application to glyphosate-tolerant corn at the 1- to 7-leaf stage of the crop for the control of specific weed species.

Chemistry, Health and Environmental Assessments

A chemistry assessment was not required since there was no change to product chemistry. Health and environmental assessments were not required since the use pattern, including host crops, application rates and timings, of the component products remained unchanged.

Value Assessment

In support of the Impact + glyphosate tank mixture, efficacy data and crop tolerance data were submitted from 6 and 12 field trials, respectively. These trials were conducted in 2002, 2006 or 2007 in Ontario. Trials included treatments with Impact + Roundup Transorb or Impact + Roundup WeatherMax. Efficacy and crop safety of the proposed tank mixture were directly compared to that of Impact + Assist + UAN, Roundup Transorb or Roundup WeatherMax applied alone. The weed control of the proposed tank mixture was acceptable and similar to that of the tank mixture partners alone. Performance was also acceptable and similar in terms of crop safety, assessed as both crop injury and yield.

In support of the Impact + glyphosate + atrazine tank mixture, efficacy data and crop tolerance data were submitted from 6 field trials. These trials were conducted in 2006 or 2007 in Ontario. Trials included treatments with Impact + Roundup WeatherMax + Aatrex. Efficacy and crop safety of the proposed tank mixture were directly compared to that of Impact + Aatrex + Assist + UAN applied alone and to Roundup WeatherMax applied alone. The weed control of the proposed tank mixture was acceptable and similar to that of the tank mixture partners alone. Performance was also acceptable and similar in terms of crop safety, assessed as both crop injury and yield.

Conclusions

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Impact Herbicide to include the tank mixtures of Impact Herbicide with glyphosate (present as isopropylamine or potassium salt) and Impact Herbicide with glyphosate (present as isopropylamine or potassium salt) and atrazine for use on glyphosate-tolerant field corn.

References

A. LIST OF STUDIES/INFORMATION SUBMITTED BY REGISTRANT

- PMRA # 1602423. Non-Safety Adverse-Effect Evaluation of Topramezone (Impact) Herbicide in Corn Tankmix with Glyphosate. Amvac Chemical Corporation. May 5 2008. DACO 10.1, 10.2.3.3, 10.3.2.

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