

Evaluation Report for Category C, Subcategory 3.1 Application

Application Number: 2006-2821
Application: Evaluation Report for Category C, Subcategory 3.1 (application rate decrease)
Product: IMPACT Herbicide
Registration Number: 28141
Active ingredients (a.i.): topramezone at 336 g/L
PMRA Document Number: 1373132

Background

IMPACT Herbicide, previously known as BAS 670 00H 336SC herbicide, was first registered on November 18, 2005. IMPACT Herbicide is registered for post-emergence use in field corn (conventional and herbicide tolerant varieties) for selective control of grasses and broadleaf weeds. 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 amend the registration of IMPACT herbicide to:

- 1) remove use of IMPACT herbicide at either 12.5 and 25 g a.i./ha in combination with Assist Oil Concentrate adjuvant (Reg. No. 16937) and urea ammonium nitrate (UAN); and
- 2) reduce the rate of Impact Herbicide from 25 to 12.5 g a.i./ha that is used in a tank mixture with 500 g a.i./ha atrazine plus 1.25% v/v Assist plus 1.25% v/v UAN, while retaining the same weed claims as for the original tank mixture, except for the one pertaining to smooth crabgrass.

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 only change to the use pattern was removal of the previously registered higher rate of 25 g a.i./ha and use of Impact Herbicide as the alone herbicide. The host crop and the application timing remain the same.

Value Assessment

Efficacy was visually assessed throughout the growing season in 39 single season trials conducted in Ontario and Quebec over three years. Data collected at 35-58 days for the tank mixture of 12.5 g a.i./ha IMPACT plus 500 g a.i./ha atrazine plus 1.25% v/v Assist adjuvant plus 1.25% v/v 28% UAN supported control claims for lamb's-quarters, lady's-thumb, common ragweed, Eastern black nightshade, wild mustard, redroot pigweed, and green pigweed. Data supported suppression claims for velvetleaf, common chickweed, green foxtail, yellow foxtail,

large crabgrass and barnyard grass. The data did not support a claim of suppression for fall panicum.

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 reduce the rate of Impact Herbicide that is applied in a tank mixture with 500 g a.i./ha atrazine herbicide from 25 to 12.5 g a.i./ha, while retaining the same weed claims as for the original tank mixture, except for smooth crabgrass and fall panicum.

References

A. LIST OF STUDIES/INFORMATION SUBMITTED BY REGISTRANT

VALUE

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|--------------|---|
| PMRA 1227151 | Impact (BAS 670 00H) Herbicide Petition for Amendments to Label Use Directions in Field Corn: Value Summaries (pp 2). DACO 10.1. |
| PMRA 1227168 | Impact (BAS 670 00H) Herbicide Petition for Amendments to Label Use Directions in Field Corn: EFFICACY TRIALS: SUMMARY (pp 4). DACO 10.2.3.1. |
| PMRA 1227154 | Impact (BAS 670 00H) Herbicide Petition for Amendments to Label Use Directions in Field Corn: EFFICACY: SMALL-SCALE TRIALS (pp 7). DACO 10.2.3.3. |
| PMRA 1251360 | Appendix II: Raw Data. Impact (BAS 670 00H) Herbicide Petition for Amendments to Label Use Directions in Field Corn (pp 510). DACO 10.2.3.3. |

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