

Evaluation Report for Category B, Subcategory B.3.5 Application

Application Number: 2007-8635
Application: B.3.5 (Product label - Rotational crops \ Plantback interval)
Product: Impact Herbicide
Registration Number: 28141
Active ingredients (a.i.): Topramezone (MTN)
PMRA Document Number: 1576169

Purpose of Application

The purpose of this application is to add corn as a rotational crop on the Impact Herbicide label. This is to allow users to plant corn in fields treated with Impact Herbicide immediately after crop failure (rescue crop).

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

No new residue data were submitted to support the addition of corn (field, sweet or seed) as a rotational crop on the Impact Herbicide label. Field crop rotation data on file indicated that corn could be planted as a rotational crop at any time, as residues on grain from corn grown as a rotational crop would be covered by the field corn grain MRL of 0.01 ppm (when grown as the primary crop). Therefore, no increase in dietary exposure is anticipated from the addition of corn as a rotational crop.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

Data from 18 trials established in 1998, 2000, 2002, 2003 and 2005 in Canada and the US were submitted for review. In the rescue crop tolerance trials, treatment of Impact Herbicide alone was applied before planting of corn in 1 trial and after planting of corn but prior to emergence in 11 trials. As a pre-emergence treatment has a short interval between herbicide application and crop emergence, it presents the worst case scenario for assessing a rescue crop in terms of crop

safety. Therefore, all 12 trials were considered to be acceptable for review. In the rotational crop tolerance trials, Impact Herbicide alone or in combination with Aatrex 480 was applied to field corn as per the label instructions in the year of trial establishment. Crop injury to field corn seeded as a rotational crop in the second year was visually assessed 2 to 3 times during the growing season.

Mean crop injury to field corn grown as both a rescue crop and a rotational crop with the treatment of either Impact Herbicide alone or in combination with Aatrex 480 was concluded to be acceptable over varieties, locations and years. Data were not submitted to support sweet and seed corn as rescue crops or as rotational crops.

An efficacy assessment was not required as there were no changes to the use rate and pest claims.

Conclusion

The PMRA is able to support the addition of field corn as a rotational crop on the Impact Herbicide label. This will allow users to plant corn in fields treated with Impact Herbicide immediately after crop failure (rescue crop).

References

- PMRA # 1523841: Trial report - 1. BASF. December, 2007. DACO 10.3.3. pp. 10.
- PMRA # 1523842: Trial report - 2. BASF. December, 2007. DACO 10.3.3. pp. 13.
- PMRA # 1523843: Trial report - 3. BASF. December, 2007. DACO 10.3.3. pp. 9.
- PMRA # 1523844: Trial report - 4. BASF. December, 2007. DACO 10.3.3. pp. 7.
- PMRA # 1523845: Trial report - 5. BASF. December, 2007. DACO 10.3.3. pp. 10.
- PMRA # 1523846: Trial report - 6. BASF. December, 2007. DACO 10.3.3. pp. 8.
- PMRA # 1523847: Trial report - 7. BASF. December, 2007. DACO 10.3.3. pp. 8.
- PMRA # 1523848: Trial report - 8. BASF. December, 2007. DACO 10.3.3. pp. 9.
- PMRA # 1523849: Trial report - 9. BASF. December, 2007. DACO 10.3.3. pp. 8.
- PMRA # 1523850: Trial report - 10. BASF. December, 2007. DACO 10.3.3. pp. 6.
- PMRA # 1523851: Trial report - 11. BASF. December, 2007. DACO 10.3.3. pp. 7.
- PMRA # 1523856: Trial report - 12. BASF. December, 2007. DACO 10.3.3. pp. 8.
- PMRA # 1523852: Trial report - 13. BASF. December, 2007. DACO 10.3.3. pp. 9.
- PMRA # 1523853: Trial report - 14. BASF. December, 2007. DACO 10.3.3. pp. 5.
- PMRA # 1523854: Trial report - 15. BASF. December, 2007. DACO 10.3.3. pp. 8.
- PMRA # 1523855: Trial report - 16. BASF. December, 2007. DACO 10.3.3. pp. 14.
- PMRA # 1523857: Trial report - 17. BASF. December, 2007. DACO 10.3.3. pp. 17.
- PMRA # 1523858: Trial report - 18. Ag Research. December, 2007. DACO 10.3.3. pp. 24.
- PMRA # 1266821: Review for Non-Safety Adverse Effects. September 23, 2003. pp. 28.

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