



Evaluation Report for Category B, Subcategory 3.5 Application

Application Number: 2008-6007
Application: Changes to Product Labels – Rotational Crops\Plantback Interval
Product: Impact Herbicide
Registration Number: 28141
Active ingredients (a.i.): Topramezone (MTN)
PMRA Document Number : 1856250

Purpose of Application

The purpose of this application was to amend the Impact Herbicide label to add pea as a rotational 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 pea as a rotational crop on the Impact Herbicide label. Data on file from confined and field accumulation studies in rotational crops were reassessed in the context of this application and support the addition of peas as a rotational crop with a plant-back interval of one year. The addition of pea as a rotational crop on the Impact herbicide label does not increase the dietary exposure and does not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

Data from a total of seven trials conducted in Ontario were provided where the crop safety of pea planted as a rotational crop was examined. In all trials, field corn was planted in the treatment year and pea was planted the following year. The recrop interval ranged from 325 to 339 days (10.5 months – 11 months). Trials were initiated in 2000 (2 trials), 2006 (4 trials), and 2007 (1 trial). Treatments included Impact + Assist Adjuvant + UAN and Impact + Aatrex + Assist Adjuvant + UAN. Applications rates for Impact Herbicide for all treatments ranged from 12.5 g ai/ha (1X) to 150 g ai/ha (12X). Visual injury to pea was assessed in all seven trials and yield was reported in six trials.

No visual injury to pea planted the year after an application of Impact + Assist Adjuvant + UAN or Impact + Aatrex + Assist Adjuvant + UAN at the registered 1X application rate was reported in any trial at any of the three assessment timings (347 – 364, 365 – 379, and 380 – 407 days after treatment). Minor, but acceptable (2.5%), visual injury to pea was reported in one trial at the second assessment timing (365 – 379 days after treatment) following application of Impact + Aatrex + Assist Adjuvant + UAN at the 2X application rate of Impact. Pea yield from plots treated with Impact + Assist Adjuvant + UAN and Impact + Aatrex + Assist Adjuvant + UAN in the year prior to planting was similar to that from the untreated plots. Therefore, the addition of pea as a rotational crop the year following application of Impact Herbicide can be supported from a value perspective.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to support the addition of pea to the Impact Herbicide label as a rotational crop the year following the application of Impact.

References

- 1692889 Value 10: IMPACT Herbicide Petition for Pea as a Rotational Crop the Year Following Treatment, DACO: 10.1
- 1692890 Pea Follow Crop Trials, DACO: 10.2.3.3
- 1692891 Pea Study Site List, DACO: 10.7.1
- 1692892 Pea Treatment List, DACO: 10.7.2
- 1692893 Pea Follow Crop Frequency Tables, DACO: 10.2.3
- 1763302 Trial Data to Support Peas Addition to Impact Herbicide, DACO: 10.2.3
- 1763303 Trial Data to support Peas Addition to Impact Herbicide, DACO: 10.2.3
- 1763304 Trail Data to Support Peas Addition to Impact Herbicide, DACO: 10.2.3
- 1763305 Trial Data to Support Peas Addition to Impact Herbicide, DACO: 10.2.3
- 1763306 Trial Data to Support Peas Addition to Impact Herbicide, DACO: 10.2.3
- 1763307 Efficacy data, DACO: 10.2.3

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