

Evaluation Report for Category B, Subcategory 3.11, 3.12, 3.2 Application

Application Number: 2009-0302

Application: Changes to product label: new pest, new host, application timing

Product: Simplicity Herbicide

Registration Number: 28887

Active ingredients (a.i.): Pyroxsulam

PMRA Document Number : 1866685

Purpose of Application

Dow AgroSciences has submitted an application to amend the registration of Simplicity Herbicide (Registration Number 28887) to include an additional pest claim (downy brome), as well as to add a new host crop (winter wheat), a new application timing (fall application in winter wheat), and add a new adjuvant to be used with Simplicity Herbicide when targeting downy brome in winter wheat (spring application only).

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicity assessment was not required for this application.

The use of Simplicity Herbicide on winter wheat fits within the existing use pattern for pyroxsulam. Exposure to workers mixing/loading and applying Simplicity Herbicide to winter wheat or entering treated areas is not expected to increase over the currently registered use pattern.

No new residue data for pyroxsulam were submitted. As the use directions for Simplicity Herbicide on winter wheat are comparable to those registered for spring wheat and durum wheat, no impact on the magnitude of residues is expected. Accordingly, no increase in dietary exposure is anticipated. The proposed use of Simplicity Herbicide on winter wheat will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

No environmental data were required to support the registration of Simplicity Herbicide on winter wheat. The rate and method of application for use of this product on winter wheat are the same as for registered uses on spring and durum wheat. Environmental exposure from the use of Simplicity Herbicide on winter wheat is expected to be the same as for other registered uses.

Value Assessment

Efficacy and crop tolerance data were submitted from a total of nine replicated small plot field trials conducted in Alberta in 2006 (six trials) and 2007 (three trials) in which fall applications to winter wheat were evaluated and 16 replicated small plot field trials conducted in Alberta (13 trials) and Saskatchewan (three trials) in 2007 (eight trials) and 2008 (eight trials) in which spring applications to winter wheat were evaluated. The data provided demonstrate that Simplicity Herbicide can be expected to provide acceptable control or suppression of downy brome when applied in the fall or spring, respectively, with minimal injury to winter wheat at either application timing. The performance of Simplicity + Merge Adjuvant was comparable to that of Simplicity + Assist Oil Concentrate in terms of suppression of downy brome and in terms of crop tolerance (visual injury) of winter wheat. Based on the data provided, amending the registration of Simplicity Herbicide to include an additional pest claim (downy brome), as well as to add a new host crop (winter wheat), a new application timing (fall application in winter wheat) and add a new adjuvant to be used with Simplicity when targeting downy brome in winter wheat (spring application only), can be supported from a value perspective.

Conclusion

The PMRA has conducted a critical evaluation of the subject application and has found the information sufficient to support the proposed label expansion of Simplicity Herbicide.

References

- 1711694 2009. Value Summary. DACO 10.1, 2 pages
- 1711697 2008. Trial reports; Downy brome efficacy with fall applications. DACO 10.2.3.3, 71 pages
- 1711698 2008. Trial reports; Downy brome efficacy with spring applications. DACO 10.2.3.3, 70 pages
- 1711699 2009. Efficacy: small-scale trials (field, greenhouse); Summary for downy brome efficacy with fall applications. Daco 10.2.3.3, 6 pages
- 1711701 2009. Efficacy: small-scale trials (field, greenhouse); Summary for downy brome efficacy with spring applications. DACO 10.2.3.3, 6 pages
- 1711704 2009. Trial reports; Winter wheat phytotoxicity with fall applications. DACO 10.3.2, 71 pages
- 1711705 2008. Trial reports; Winter wheat phytotoxicity with spring applications. DACO 10.3.2, 88 pages
- 1711706 2009. Non-safety adverse effects (e.g.: to crop, site of application); Summary for winter wheat phytotoxicity with fall applications. DACO 10.3.2, 5 pages
- 1711707 2009. Non-safety adverse effects (e.g.: to crop, site of application); Summary for winter wheat phytotoxicity with spring applications. DACO 10.3.2, 5 pages

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