



Evaluation Report for Category B Subcategory 3.12-S-A-EP (new Sites/Hosts) Application

Application Number: 2006-3600
Application: Evaluation Report for Category B, Subcategory 3.12
(new Sites/Hosts)
Product: Blazer
Registration Number: 23315
Active ingredients (a.i.): Sodium Acifluorfen 240 g/L
PMRA Document Number: 1408287

Background

BLAZER is a selective post-emergence herbicide used to control certain broadleaf weeds and to suppress specific perennial weeds in soybeans. The active ingredient is sodium acifluorfen, and the guarantee is 240 g a.i./L. The maximum application rate is 0.6 kg a.i./ha by ground only, and a single application per season is permitted. At the time of this application, the end use product is registered for use on soybeans in Eastern Canada only.

Purpose of Application

The purpose of this application is to add the use of Blazer Herbicide for weed control on soybean crops in Western Canada.

Health Assessment

Blazer Herbicide is currently registered for use on soybeans grown in Eastern Canada with no measurable resulting residues. The proposed use of Blazer Herbicide on soybean grown in Western Canada can be supported. No impact on the magnitude of residues is anticipated.

MRL recommendations

Based on the previously reviewed residue data, maximum residue limit (MRL) to cover residues of sodium acifluorfen in/on soybean seeds will be established at 0.02 ppm. Residues of sodium acifluorfen in processed commodities are covered under established MRL for the raw agricultural commodity (RAC).

Table 1. Summary of Field Trial and Processing Data Used to Establish Maximum Residue Limit (MRL)						
Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)	Experimental Processing Factor	Currently Established MRL ¹	Recommended MRL ²
soybean, seeds	Postemergence treatment/ 300-600	not specified*	<0.02	--	none ³	0.02 ppm

¹MRL(s) currently established in Table II, Division 15 of the FDA&R

²MRL(s) to be promulgated as a result of the current submission.

³ residues are currently covered under Division 15, subsection B.15 002 (1) of the FDA&R (≤ 0.1 ppm)

*Early postemergence application when soybeans are in the 1-3 trifoliolate leaf stage.

Conclusion

Following the review of all available data, an MRL of 0.02 ppm for soybean seeds will be established to cover total residues of sodium acifluorfen and the metabolites (the corresponding acid, methyl ester, and amino analogues) in soybean seeds. The registered and proposed uses of sodium acifluorfen on soybeans will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

No environmental studies were required to support the registration of Blazer in Western Canada since the use pattern is identical to the registered use in Eastern Canada, and no additional impact to the environment is expected.

Value Assessment

Data were submitted from 2 trials conducted in 2005 in Manitoba in which a post-emergence application of Blazer herbicide was applied to soybeans.

The efficacy and crop tolerance evidence supports a post-emergence application of Blazer herbicide when applied as an alone treatment, or in a tank mix combination with Basagran or Basagran Forte in western Canada.

Conclusions

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Blazer herbicide to include its use on soybeans in Western Canada.

Reference List

Reference for Health Assessment

PMRA 1136993. Residue Data on Soybeans Treated with Acifluorfen 1983 Canada Field Trials (BCI#88-0003;RR0300;84/BHL/194/AG;84/076). DACO 7.4.2

References for Value Assessment

<i>PMRA Document No.</i>	<i>Reference</i>
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Studies/Information Provided by Applicant/Registrant

- | | | |
|---|---------|--|
| 1 | 1093582 | 2005, Trial Summary Table for Blazer Applications for Control of Certain Broadleaf Weeds and Supersession of Specific Perennial Weeds in Soybeans (Acifluorfen), DACO: 10.2.3.1. |
| 2 | 1093585 | 2005, Trial Summary Table for Blazer Applications for Crop Tolerance (Acifluorfen), University of Manitoba, DACO: 10.3.1. |
| 3 | 1093586 | 2005, Trial Summary Table for Blazer Applications for Yield (Soybean, Acifluorfen), DACO: 10.3.1. |
| 4 | 1342532 | Ontario Soybean Growers Annual Report 2004, DACO: 10.6 |

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