

Evaluation Report for Category B, Subcategory B.2.4, B.3.10 Application

Application Number: 2006-0106
Application: B 2.4, B 3.10
Product: Renegade HC Liquid Herbicide
Registration Number: 27946
Active ingredients (a.i.): glyphosate, 540 g a.e./L present as potassium salt
PMRA Document Number: 1388594

Background

Renegade HC Liquid Herbicide has been registered since April 21, 2005. Renegade HC Liquid Herbicide is registered for non-selective weed control in both agricultural and industrial use site categories. 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 is to amend the registration of Renegade HC Liquid Herbicide (Reg No. 27946) to include three new tank mix partners for the control of glyphosate-tolerant canola in glyphosate-tolerant corn. The tank mix partners are: 2,4-D (ester or amine) (Reg. Nos. various); Banvel II Herbicide (Reg. No. 23957, containing 480 g/L dicamba) + Peak 75 WG Herbicide (Reg. No. 25310, containing 75% prosulfuron); and Dyvel DSp Liquid Herbicide (Reg. No. 27856, containing 110 g/L dicamba, 295 g/L 2,4-D, and 80 g/L mecoprop-p).

Chemistry Assessment

N/A

Health Assessment

As the proposed rates for all the proposed tank mix partners are equal to or less than the currently registered rates, the tankmix use of Peak + Banvel II, 2,4-D and Dyvel DS herbicide at the proposed rates is not expected to result in residues exceeding the currently established MRLs for glyphosate (3 ppm) and prosulfuron (0.01 ppm); residues in corn resulting from the tank mix use of 2,4-D, dicamba and mecoprop are expected be covered under section B.15.002(1) of the FDAR (<0.1 ppm). No dietary risk increase is anticipated.

The addition of tank mix partners to the Renegade HC Liquid Herbicide label 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 the three tank mixes, as the rate of application, timing, etc., on corn are similar to those for Renegade HC Liquid Herbicide and the tank mix partners registered for use on corn alone. Therefore, no additional impact to the environment is expected from the use of the three tank mixes.

Value Assessment

Efficacy data for the proposed tank mixtures were submitted from 28 trials conducted between 2002 and 2004 in glyphosate-tolerant corn, using Roundup Transorb Herbicide.

The efficacy data submitted for review support the registration of the three proposed tank mix partners: 2,4-D (ester or amine), Dyvel DSp Herbicide and Banvel II Herbicide + Peak 75 WG Herbicide, for the control of glyphosate-tolerant canola in glyphosate-tolerant corn.

The tolerance of glyphosate-tolerant corn to the tank mix of Roundup Transorb Herbicide + 2,4-D was reported from 26 trials conducted from 2002 to 2004.

The tolerance of glyphosate-tolerant corn to the tank mix of Roundup Transorb Herbicide + Dyvel DS Herbicide was reported from 15 trials conducted in 2002 and 2003. All of the data were generated with Dyvel DS Herbicide and are acceptable in support of Dyvel DSp Herbicide, the proposed tank mix partner.

The tolerance of glyphosate-tolerant corn to the tank mix of Roundup Transorb Herbicide + Banvel II Herbicide + Peak 75 WG Herbicide was reported from six trials conducted in 2003 and 2004.

The crop tolerance data submitted for review support the registration of the three requested tank mix partners: 2,4-D (amine or ester), Dyvel DSp Herbicide and Banvel II Herbicide + Peak 75 WG Herbicide, for the control of glyphosate-tolerant canola in glyphosate-tolerant corn.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Renegade HC Liquid Herbicide to include the proposed tank mix partners 2,4-D (amine or ester), Dyvel DSp Herbicide and Banvel II Herbicide + Peak 75 WG Herbicide, for the control of glyphosate-tolerant canola in glyphosate-tolerant corn.

References

PMRA# 1116066: Efficacy Data to Support the Registration of Roundup Weathermax with Transorb 2 Technology Liquid Herbicide Tank Mixed with 2,4-D or Peak Plus or Dyvel DS for the Control of Glyphosate-Tolerant Canola in Glyphosate Tolerant Corn (Roundup Ready). Monsanto Canada. 94 pp.

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