

Evaluation Report for Category C, Subcategory 6.3 (URMULE) Application

Application Number: 2010-3851
Application: Category C, subcategory 6.3 (URMULE)
Product: Roundup WeatherMAX with Transorb 2 Technology Liquid Herbicide
Registration Number: 27487
Active ingredients (a.i.): glyphosate
PMRA Document Number English PDF: 2111214

Background

Roundup WeatherMAX with Transorb 2 Technology Liquid Herbicide has been registered since October 17, 2003. Roundup WeatherMAX with Transorb 2 Technology Liquid Herbicide is registered for the control of labelled weeds in various cropland and non-cropland uses. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to product label.

Purpose of Application

The purpose of this application was to amend the registration of Roundup WeatherMAX with Transorb 2 Technology Liquid Herbicide to include the claim of control of labelled weeds on mustard (yellow, brown and oriental) (condiment and oilseed). The product is intended for a single application at a rate of 1.67 L/ha (901.8 g a.e./ha) with a minimum pre-harvest interval of 7 days.

Chemistry Assessment

A chemistry assessment was not required as there was no change to product chemistry.

Health Assessment

A toxicology assessment was not required since there was no change to the formulation.

Potential exposure for mixer/loader/applicators and for workers re-entering treated fields for post application activities is not expected to result in unacceptable risk when the product is applied according to the proposed label.

To support the use expansion to mustard seed (condiment type and oilseed type), residue data from supervised residue trials conducted in Canada were reviewed, in which canola, the representative crop for Crop Subgroup 20A, was treated with glyphosate, and harvested according to label directions.

Maximum Residue Limit(s)

The recommendation for a maximum residue limit (MRL) for glyphosate in/on borage seeds, cuphea seeds, echium seeds, Gold of Pleasure seeds, Hare’s ear mustard seeds, milkweed seeds, mustard seed (condiment type), mustard seeds (oilseed type), oil radish seeds, poppy seeds, sesame seeds, and sweet rocket seeds was based on guidance provided in PRO2005-04 (“Guidance for Setting Pesticide Maximum Residue Limits Based on Field Trial Data”). Based on the residue data and the MRL statistical methodology, MRLs to cover residues of glyphosate in/on borage seeds, cuphea seeds, echium seeds, Gold of Pleasure seeds, Hare’s ear mustard seeds, milkweed seeds, mustard seed (condiment type), mustard seeds (oilseed type), oil radish seeds, poppy seeds, sesame seeds, and sweet rocket seeds will be established as shown in Table 1.

Table 1. Summary of Field Trial Data Used to Establish Maximum Residue Limits (MRLs) for Glyphosate

Commodity	Application Method/ Total Application Rate (g a.e./ha)	PHI (days)	Residues (ppm)		Currently Established MRL (ppm)	Recommended MRL (ppm)
			Min	Max		
Canola	Foliar broadcast/ 900-2700	6-8	<0.17	3.8	--	10 ppm for borage seeds, cuphea seeds, echium seeds, Gold of Pleasure seeds, Hare’s ear mustard seeds, milkweed seeds, mustard seed (condiment type), mustard seeds (oilseed type), oil radish seeds, poppy seeds, sesame seeds, and sweet rocket seeds

Environmental Assessment

No additional environmental data were required for the preharvest use of Roundup WeatherMAX with Transorb 2 Technology Liquid Herbicide on mustard (yellow, brown and oriental) (condiment and oilseed mustard). No additional risk to the environment is expected from the preharvest use of this product on mustard because the method of application, the rate of application and the application timing are the same as those registered for other preharvest uses. Environmental concerns have been mitigated through adequate statements on the product label but may undergo revision based upon the re-evaluation of glyphosate.

Value Assessment

A rationale was provided by the sponsor explaining how the currently registered weed claims could be extrapolated to mustard. The data provided support the inclusion of a preharvest application on mustard (yellow/white, brown, oriental). This preharvest application cannot be applied to mustard (yellow/white, brown, oriental) grown for seed production.

Conclusions

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Roundup WeatherMAX with Transorb 2 Technology Liquid Herbicide to include the claim of control of labelled weeds on mustard (yellow, brown and oriental) (condiment and oilseed).

MRLs

Following the review of all available data, it was determined that MRLs of 10 ppm for residues of glyphosate in/on borage seeds, cuphea seeds, echium seeds, Gold of Pleasure seeds, Hare's ear mustard seeds, milkweed seeds, mustard seed (condiment type), mustard seeds (oilseed type), oil radish seeds, poppy seeds, sesame seeds, and sweet rocket seeds is considered adequate to cover residues of glyphosate in/on these commodities as a result of this new use. Residues of glyphosate in these commodities at the established MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Reference List

A. List of Studies/Information Submitted by Registrant

Health Assessment

- PMRA# 788492. Hampton, M, 2002, GLYPHOSATE: Residue Levels on Canola (Seed) from Trials Conducted with TOUCHDOWN IQ and TOUCHDOWN XP in Canada during 2001., DACO: 7.4.1.
- PMRA# 788493. Hampton, M, 2002, GLYPHOSATE: Residue Levels on GLYPHOSATE-Tolerant Canola (Seed) from Trials Conducted with TOUCHDOWN IQ in Canada during 2001., DACO: 7.4.1.

PMRA# 788494. Anderson, L., 2001, Residue Levels in GLYPHOSATE-Tolerant Canola from Trials Conducted in Canada during 2000., DACO: 7.4.1.

Value Assessment

PMRA# 852741. 2007. Rationale for efficacy claims, DACO: 10.2.

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