

Evaluation Report for Category B, Subcategory 3.1 Application

Application Number: 2007-3205
Application: Application Rate Increase
Product: Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide
Registration Number: 27487
Active ingredients (a.i.): Glyphosate (Present as Potassium Salt)
PMRA Document Number: 1627449

Background

Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide contains 540 g glyphosate acid equivalent/L, present as potassium salt and has been registered since October 17, 2003. The product is currently registered for use on various crops. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Purpose of Application

Monsanto has submitted an application to amend the label of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide to include a higher application rate at 4.67 L/ha (2520 g a.e./ha) on Roundup Ready 2 Yield[®] (RR2Y) soybean varieties for the control of volunteer alfalfa and brome grass and the suppression of field horsetail.

Chemistry Assessment

A chemistry assessment is not required for this application.

Health Assessments

A Health assessment has been conducted for Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide and has concluded that potential exposure to the mixer/loader and applicators and re-entry workers is not expected to increase over the currently registered products containing glyphosate.

The field trial data submitted to support the single postemergence application of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide (PCP# 27484) on RR2Y soybean varieties at 4.67 L/ha (2.52 kg a.e./ha glyphosate) was acceptable. The resulting residues will be covered by the 20 ppm MRL as listed on the PMRA's MRL webpage for MRLs regulated under the Pest Control Products Act. The proposed postemergence use on RR2Y soybean 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 Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide on Roundup Ready 2 Yield[®] soybean varieties. The method of application, field sprayer, is unchanged. The rate of application on RR2Y soybean varieties is within the registered rates of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide. Thus, no additional risk to the environment is expected.

Value Assessment

Efficacy data from 25 field trials conducted in Ontario and Quebec in 2000, 2001, 2002, and 2006 were submitted for review. Weed control was visually assessed following application of Roundup WeatherMax with Transorb 2 Technology at 2520 g a.e./ha for volunteer alfalfa, bromegrass, and field horsetail on 2 occasions through the field season at 10-56 and 60-114 days after treatment. It was concluded from these field trials that the control claim of volunteer alfalfa and bromegrass for Roundup WeatherMax with Transorb 2 Technology at 2520 g a.e./ha can be supported from an efficacy standpoint. However, the suppression claim for field horsetail is not supported for the critical growing period of the crop.

Crop safety data from 11 dedicated crop tolerance trials conducted in Ontario and Quebec in 2006 were submitted for review. Crop tolerance, expressed as % crop injury and % growth reduction, and grain yield, expressed as % of an untreated weed-free check, were assessed following application of Roundup WeatherMax with Transorb 2 Technology at 2520 (1 x rate) and 5040 (2 x rate) g a.e./ha. It was concluded from these field trials that the crop tolerance to the treatment of Roundup WeatherMax with Transorb 2 Technology at 2520 g a.e./ha was acceptable.

Overall, the control of volunteer alfalfa and bromegrass following the application of Roundup WeatherMax with Transorb 2 Technology at 4.67 L/ha (2520 g a.e./ha) on Roundup Ready 2 Yield soybean varieties can be supported from a value standpoint.

Conclusion

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 a higher application rate at 4.67 L/ha (2520 g a.e./ha) on Roundup Ready 2 Yield soybean varieties for the control of volunteer alfalfa and bromegrass but not for the suppression of field horsetail.

References

List of Studies/Information Submitted by Registrant

PMRA No.	Title
1407429	2007, Value data to support the use of a 4.67 L/ha application rate of Roundup WeatherMax Herbicide in Roundup Ready 2 Yield soybeans for control of alfalfa and bromegrass and suppression of field horsetail. Monsanto Canada Inc. DACO 10.1, 10.2.2, 10.2.3.1, 10.2.3.3, 10.3.1, and 10.3.2. April 6, 2007. pp 198.
1443091	2007, Magnitude of Glyphosate Residues in Roundup Ready Soybean Raw Agricultural Commodities Following Sequential Applications of a Glyphosate-Based Formulation at the V3 and R1-R2 Growth Stages. Report Number: MSL0020883. Study No. 05-63-R-2. Unpublished study prepared by Monsanto Company. 660 pages.

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