

Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2010-2913
Application: B.3.12 (Product labels – new site or host)
Product: Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide
Registration Number: 27487
Active ingredients (a.i.): Glyphosate (present as potassium salt) (GPP)
PMRA Document Number : 2269072

Purpose of Application

The purpose of this application was to amend the registration of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide (Registration Number 27487) to include post-emergence use on Roundup Ready (RR) alfalfa varieties for control of labeled weeds.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

No risks of concern to glyphosate are expected from the addition of Roundup Ready alfalfa to the Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide label. A postapplication exposure assessment was performed, and there are no risks of concern for workers re-entering treated areas for scouting, irrigation or mechanical harvesting when workers follow the restricted entry interval and preharvest interval. The proposed use falls within the registered use pattern for workers who mix, load and apply the product, when workers follow label directions and precautions including listed personal protective equipment.

Residue data for glyphosate in/on Roundup Ready Alfalfa were submitted to support the addition of Roundup Ready alfalfa to the label of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide. The proposed use of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide on Roundup Ready alfalfa is not expected to significantly increase the magnitude of glyphosate residues in/on livestock commodities. Therefore, the dietary exposure is not expected to increase and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

An environmental assessment was not conducted because no additional environmental data were required to expand the use of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide to include weed control in Roundup Ready alfalfa varieties. Environmental concerns have been mitigated through adequate statements on the product label. Glyphosate is undergoing re-evaluation and all labels for products containing glyphosate will be standardized when the re-evaluation is complete.

Value Assessment

Data from 20 crop tolerance trials conducted in Alberta, Saskatchewan, and Manitoba in 2008 (seedling alfalfa) and 2009 (established alfalfa) were submitted for review. Single application and sequential applications (two times) of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide at 1800 (1x rate) and 3600 g a.e./ha (2x rate) were assessed in the trials. Visual crop injury and growth reduction, expressed as percent of untreated control, were reported in all 20 trials. Biomass yield of alfalfa was collected two times in 2009 trials and reported as percent of either an untreated weed-free control or the registered treatment of Odyssey + Merge Adjuvant.

Crop injury and growth reduction were either slight or not detectable following the single application and sequential applications of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide at 1800 or 3600 g a.e./ha. Furthermore, yield data confirmed that Roundup Ready alfalfa varieties exhibited an adequate margin of crop safety to Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide applied in accordance with the label. Therefore, inclusion of post-emergence use of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide on Roundup Ready alfalfa varieties was supported.

Conclusion

The PMRA has completed an assessment of all available information and is able to support the amendment to the registration of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide to include post-emergence use on Roundup Ready (RR) alfalfa varieties for control of labeled weeds.

References

- PMRA 1924503 2010, Magnitude of Glyphosate Residues in Roundup Ready alfalfa Raw Agricultural Commodities Following Topical Application of a Glyphosate Based Formulation. Canada 2008 Trials, DACO: 7.2,7.4.1
- PMRA 1924505 2002, Magnitude of Glyphosate Residues in Roundup Ready alfalfa Raw Agricultural Commodities Following Topical Application of Roundup Ultra Herbicide, DACO: 7.2,7.4.1
- PMRA 1924499 2010, Summary of value for Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide on alfalfa varieties with Roundup Ready technology. pp 149. DACO 10
- PMRA 1973989 2010, Rationale to support 3 applications of Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide at 3.33 L/ha on Roundup Ready

alfalfa varieties. pp 3. DACO 10.

ISSN: 1911-8082

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