



Evaluation Report for Category B, Subcategory 3.12 Application

Application Number: 2009-4082
Application: Changes to product label: new site or host
Product: Pristine WG Fungicide
Registration Number: 27487
Active ingredients (a.i.): Glyphosate (present as potassium salt)
PMRA Document Number English PDF: 1887286

Background

Roundup WeatherMAX™ With Transorb® 2 Technology Liquid Herbicide has been registered since October 17, 2003. The registered use pattern for this product includes post-emergence use on glyphosate-tolerant field corn for the control of a range of weeds. 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 was to amend the label to include post-emergence use on sweet corn varieties with 'Roundup Ready 2 Technology' for control of labelled weed species.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessment

Relative to the existing use on field corn, the addition of 'Roundup Ready 2' sweet corn to the label is not expected to result in increased exposure to glyphosate for mixers, loaders, applicators, or field workers re-entering treated fields when label directions are followed.

Residue data for glyphosate in Roundup Ready Corn 2® Technology were submitted to support the use expansion to 'Roundup Ready 2' sweet corn. The level of glyphosate and aminomethylphosphonic acid (AMPA) residues is similar to the data previously assessed. Based on the maximum residues observed in sweet corn treated according to exaggerated rates, the maximum residue limit (MRL) currently established in corn to cover residues of glyphosate is acceptable as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under established MRLs for the raw agricultural commodity (RAC). In conclusion, the dietary risk is not expected to increase and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Table 1 Summary of field trial and processing data used to establish maximum residue limits (MRLs)

Commodity	Application method/ Total application rate	PHI (days)	Residues (ppm)		Experimental processing factor	Currently established MRL	Recommended MRL
			Min	Max			
Sweet corn	Foliar application/ 2 postemergent applications (up to the 8-leaf stage) at 0.9 kg a.e./ha/application or 1 postemergence application (up to the 6- leaf stage) at 1.8 kg a.e./ha for a total rate of 1.8 kg a.e./ha	27- 70	<0.13	1.41	Not applicable	3 ppm in corn	3 ppm

Environmental Assessment

No additional environmental data were required to support the label amendment. The rates of application on sweet corn are the same as those registered for use on field corn; thus, no increase in environmental exposure to glyphosate is expected. The acceptability of the uses of this end-use product and required mitigation measures may change depending on the outcome of the re-evaluation of glyphosate, which is currently underway.

Value Assessment

Sweet corn with the “Roundup Ready 2” designation was assessed for its tolerance to post-emergence applications of Roundup WeatherMAX™ With Transorb® 2 Technology Liquid Herbicide in six field trials conducted in Quebec, Ontario and Manitoba in 2009. The tolerance of “Roundup Ready 2” sweet corn treated once with Roundup WeatherMAX™ With Transorb® 2 Technology Liquid Herbicide at 1800 (maximum labelled rate) or 3600 g a.e./ha at the crop 4- or 6-leaf stage, or treated twice at 900 or 1800 g a.e./ha at the crop 2-leaf and at the 7- to 8-leaf stage, was visually assessed as percent phytotoxicity and percent growth reduction. All trials were taken to harvest and herbicide treatments were compared to a weeded untreated check treatment. Injury was usually absent within two weeks after application. The slight to moderate injury, assessed as percent growth reduction, that was occasionally observed in treatments of 1800 or 3600 g a.e./ha in the early season within two weeks after application was no longer evident by four weeks after application. There were no significant yield differences among Roundup WeatherMAX™ With Transorb® 2 Technology Liquid Herbicide treatments and the untreated weeded check treatment. The data demonstrate that sweet corn with “Roundup Ready 2 Technology” can be expected to exhibit an adequate margin of crop safety to Roundup WeatherMAX™ With Transorb® 2 Technology Liquid Herbicide when applied at up to 1800 g a.e./ha within the labelled application window.

Conclusion

The PMRA conducted an evaluation of the subject application and concluded that the proposed label amendment has value and will not pose unacceptable health or environmental risk.

References

PMRA Document Number: 1808244
Reference: 2009, Summary of value for Roundup WeatherMAX with Transorb 2 Technology Liquid Herbicide on sweet corn varieties with Roundup Ready 2 Technology, Data Numbering Code: 10.1, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.2, 10.2.3.3, 10.2.3.4, 10.3.1, 10.3.2, 10.3.2(a), 10.4, 10.5.1, 10.5.2, 10.5.3, 10.5.4

PMRA Document Number: 1808247
Reference: 2009, Magnitude of glyphosate residues in sweet corn raw agricultural commodities obtained from Roundup Ready Corn 2 ® Technology following applications of glyphosate-based formulation, U.S. and Canada 2008 trials, Data Numbering Code: 7.2.1, 7.4.1

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2011

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.