

## **Evaluation Report for Category B, Subcategory B.3.10, B.3.12, B.3.1-S-A-EP Application**

**Application Number:** 2006-0350  
**Application:** B.3.10, B.3.12, B.3.1-S-A-EP  
**Product:** Elim EP Herbicide 25% Dry Flowable  
**Registration Number:** 23518  
**Active ingredients (a.i.):** Rimsulfuron (DPY)  
**PMRA Document Number:** 1378886

### **Background**

Elim EP Herbicide 25% Dry Flowable has been registered since March of 1994. It is registered for use on field corn in Eastern Canada. 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 submission is to register new tank mixes of Elim EP Herbicide 25% Dry Flowable (Reg. No. 23518) at 12.5 g a.i./ha + Roundup Transorb (Reg. No. 25344) or Roundup WeatherMax (Reg. No. 27487) or Touchdown IQ (Reg. No. 27192) at 900 g a.i./ha for residual control of green foxtail, redroot pigweed, fall panicum and lamb's-quarters in glyphosate tolerant field corn from the spike to 6 leaf stage in Eastern Canada.

### **Chemistry Assessment**

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

### **Health Assessments**

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

Since Elim EP Herbicide 25% Dry Flowable is currently registered for use on field corn in Eastern Canada, the proposed use on glyphosate tolerant field corn is not expected to increase exposure to workers mixing, loading and applying Elim EP Herbicide 25% Dry Flowable or reentering treated fields. The proposed tank mixes are currently registered on glyphosate tolerant field corn at the proposed rates.

The glyphosate tankmix products are acceptable for use on glyphosate-tolerant corn. The proposed application rates of rimsulfuron for Elim EP Herbicide 25% Dry Flowable, and glyphosate for the three glyphosate tankmix products are the same or less than the currently registered rates. Therefore, residues are not expected to exceed the currently established MRL on corn for glyphosate, or the MRL for rimsulfuron (covered under Table II, Division 15 of the Food and Drugs Act and Regulations). There is no expectation of an increased dietary risk from the petition to add a use on glyphosate-tolerant corn, or to add two-way tankmixes with glyphosate to the label.

### **Environmental Assessment**

No new data were submitted for Environmental Fate (Part 8) or Environmental Toxicology (Part 9).

An environmental assessment was not required since the proposed rate of Elim EP Herbicide 25% Dry Flowable for use on glyphosate tolerant corn, 50 g e.p./ha, is lower than the already registered rate on conventional field corn. The proposed timing of application window is longer than in conventional field corn (from corn spike to 6-leaf stage), but the PMRA does not expect this proposed use pattern to increase the environmental risk posed by this herbicide.

Environmental concerns have been mitigated through adequate statements on the product label.

### **Value Assessment**

Efficacy and crop tolerance data were generated in 22 trials conducted in Ontario at 8 locations in 2003, 2004, and 2005. Efficacy and crop tolerance of the Elim EP Herbicide 25% Dry Flowable + Roundup Transorb or Roundup WeatherMax or Touchdown IQ tank mixture were directly compared to that of the Elim EP Herbicide 25% Dry Flowable, Roundup Transorb, Roundup WeatherMax, and/or Touchdown IQ alone treatment(s).

Residual control of green foxtail, redroot pigweed, fall panicum and lamb's-quarter was visually assessed 3 times during the growing season. Mean control of these weeds following application of the Elim EP Herbicide 25% Dry Flowable + Roundup Transorb or Roundup WeatherMax or Touchdown IQ was acceptable. The comparable level of the weed control provided by Elim EP Herbicide 25% Dry Flowable + glyphosate herbicide tank mixture to Elim EP Herbicide 25% Dry Flowable alone at the later rating supported that soil residual control of such weeds was contributed by the soil residual activity of rimsulfuron. Control of velvetleaf, shepherd's-purse, field bindweed, yellow nutsedge, smooth crabgrass, night-flower catchfly, proso millet, bluegrass, chickweed, fall panicum, perennial sow-thistle, wild buckwheat, lady's-thumb, giant foxtail, eastern black nightshade, dandelion, annual sowthistle, and quackgrass was also visually assessed. Results indicated that there was no antagonism when adding Elim EP Herbicide to the tested glyphosate formulations.

Crop tolerance of 11 glyphosate tolerant field corn varieties was visually assessed from 2 to 3 times during the growing season. Minor crop injury was observed at the early ratings, but it was acceptable and comparable to that of Elim EP Herbicide 25% Dry Flowable alone or glyphosate herbicide alone treatment. Yield data from 4 trials further supported a crop tolerance claim for glyphosate tolerance field corn to the Elim EP Herbicide 25% Dry Flowable + Roundup Transorb or Roundup WeatherMax or Touchdown IQ.

## **Conclusion**

Following the review of all available data, the addition of the tankmixes and the new hosts can be supported. The additional use on glyphosate-tolerant corn, and the additional use of two-way tankmixes with glyphosate to the Elim EP Herbicide 25% Dry Flowable label will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

## **References**

- PARA # 1123063: Efficacy and crop tolerance of Elim EP Herbicide + glyphosate tank-mix in glyphosate tolerant corn. E.I. du Pont Canada Company. January 24, 2006. DACO. 10.1, 10.2.3.1, and 10.3.1. pp. 96.
- PARA # 1123064: All inclusive field trial reports. E.I. du Pont Canada Company. January 24, 2006. DACO. 10.2.3.3. pp. 234.

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2007

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.