

## Evaluation Report for Category B, Subcategory B.3.11 Application (New or Changes to Product Label – New Pests)

**Application Number:** 2013-5041  
**Application:** Category B, Subcategory B.3.11 (new or changes to product label – new pests)  
**Product:** Infinity Herbicide  
**Registration Number:** 28738  
**Active ingredients (a.i.):** 37.5 g/L pyrasulfotole and 210 g/L bromoxynil  
**PMRA Document Number:** 2408278

### Background

Infinity Herbicide is a post-emergent herbicide to control a broad spectrum of broadleaf weeds in wheat (spring, durum, and winter), barley, triticale, timothy, and certain minor use crops. It is registered for application at a rate of 0.83 L/ha (i.e., 31 g a.i./ha pyrasulfotole + 173 g a.i./ha bromoxynil) or in tank mixes with labelled graminicides for additional control of grassy weeds. For control of cleavers and suppression of giant ragweed and spreading atriplex, Infinity Herbicide is recommended for application with ammonium sulphate (AMS). For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

### Purpose of Application

Purposes of this application are to amend the Infinity Herbicide label as follows:

- (1) Include a control claim for narrow-leaved hawk's beard at the labelled rate.
- (2) Include a control claim for Canada fleabane (including glyphosate resistant biotypes) at the labelled rate plus AMS.
- (3) Amend the labelled suppression claim for giant ragweed to include glyphosate resistant biotypes.

### Chemistry, Health, and Environmental Assessments

Chemistry, health, and environmental assessments were not required as there was no change to product chemistry, product formulation, or use pattern.

### Value Assessment

Data from ten field research trials conducted across various ecozones in Alberta, Saskatchewan, Manitoba, and Ontario between 2005 and 2013 demonstrated that Canada fleabane control (including glyphosate resistant biotypes) could be achieved with the treatment of Infinity Herbicide plus AMS at their respective labelled rates and narrow-leaved hawk's-beard control could be achieved with the treatment of Infinity Herbicide alone at the labelled rate.

Data from the field research trials indicated that Infinity Herbicide (Group 6 and 27) is effective at controlling glyphosate (Group 9) resistant populations of Canada fleabane. It is also reasonable to believe that Infinity Herbicide may provide effective suppression of glyphosate resistant populations of giant ragweed.

Inclusion of control of glyphosate resistant Canada fleabane and suppression of glyphosate resistant giant ragweed on the Infinity Herbicide label will provide farmer with a useful tool to manage glyphosate resistant weeds in agricultural production systems.

### **Conclusions**

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of Infinity Herbicide to include the control of Canada fleabane (including glyphosate resistant biotypes) and narrow-leaved hawk's-beard and to amend the suppression of giant ragweed to include glyphosate resistant biotypes.

## Reference

### List of Studies/Information Submitted by Registrant

- PMRA # 2346244: 2013, Infinity Herbicide, Label expansion to include control of Canada fleabane, including glyphosate resistant biotypes, DACO: 10.1, 10.2, 10.2.2, 10.2.3, 10.2.3.1, and 10.2.3.3(B).
- PMRA # 2346245: 2013, Infinity, Tundra, and Velocity M3 All-in-One Herbicides, Label expansion to include control of narrow-leaved hawk's-beard, DACO: 10.1, 10.2, 10.2.2, 10.2.3, 10.2.3.1, and 10.2.3.3(B).

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2014

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.