

## Evaluation Report for Category B, Subcategory B.3.10 Application (New or Changes to Product Label –Tank Mixes)

**Application Number:** 2014-4794  
**Application:** Category B, Subcategory B.3.10 (new or changes to product label – new pests)  
**Product:** Liberty 150 SN Herbicide and Crop Desiccant MP  
**Registration Number:** 24081  
**Active ingredients (a.i.):** 150 g/L glufosinate ammonium  
**PMRA Document Number :** 2512378

### Background

Liberty 150 SN Herbicide and Crop Desiccant MP is an agricultural herbicide registered for broad spectrum weed management in canola varieties specifically developed to be tolerant to glufosinate ammonium, as well as for primocane control in raspberries and desiccation of alfalfa grown for seed production. 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 registration of Liberty 150 SN Herbicide and Crop Desiccant MP to include a higher rate of clethodim (Select EC or Centurion Herbicides) to control foxtail barley and other labelled weeds.

### 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

Foxtail barley (*Hordeum jubatum*) is a short-lived perennial bunchgrass native to western North America and adapted to a wide range of soil textures (loam to clay), soil pH and moisture regimes. Increasingly, foxtail barley is becoming a problem in direct-seeding or minimum tillage cropping systems, where the intensity and frequency of tillage is reduced. Currently, there are no post-emergence herbicides that can be applied in cereal crops for foxtail barley control. Thus, growers attempting to control this weed must focus additionally on controlling it in their flax, pulse, and oilseed crops.

The applicant submitted a rationale and trial data detailing that the higher labelled rate of clethodim will, in tank mix with glufosinate ammonium, control foxtail barley. This pest is presently not found on either clethodim label. The data included five trials that demonstrate that the higher rate of clethodim (0.19 L/ha) in tank mix with Liberty 150 SN Herbicide and Crop

Desiccant MP does provide an acceptable level of control of foxtail barley.

## **Conclusions**

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of Liberty 150 SN Herbicide and Crop Desiccant MP to include a higher rate of clethodim (Select EC or Centurion Herbicides) for the control of foxtail barley and other labelled weeds.

## **References**

### List of Studies/Information Submitted by Registrant

2465783	2014, LIBERTY 150 SN Herbicide Data to Support a Tank-mixture with Select or Centurion Emulsifiable Concentrate Post-emergence Herbicides for Foxtail Barley Control in Glufosinate Ammonium-tolerant Canola, DACO: 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3(B), 10.3, 10.3.1, 10.3.2, 10.3.2(A)
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ISSN: 1911-8082

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