



## Evaluation Report for Category B, Subcategory 3.10 Application

**Application Number:** 2012-1894  
**Application:** Changes to Product Label: New Tank Mix Partner  
**Product:** Liberty 150 SN Herbicide  
**Registration Number:** 28837  
**Active ingredients (a.i.):** Glufosinate Ammonium  
**PMRA Document Number:** 2462087

### Purpose of Application

The purpose of this application was to amend the registrations of Liberty 150 SN Herbicide to include:

- (1) a tank mix with Facet L (registration number 31539) for enhanced and more consistent control of cleavers in Liberty Link canola.
- (2) a 3-way tank mix with Facet L plus Centurion (registration number 27598, containing clethodim) for enhanced and more consistent control of cleavers and annual grasses in Liberty Link canola.

Liberty 150 SN Herbicide is a master copy of Liberty 150 SN Herbicide and Crop Desiccant MP (registration number 24081). A concurrent application was made for the same tank mix for Liberty 150 SN Herbicide and Crop Desiccant MP (application number 2012-1893).

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

No new residue data for glufosinate ammonium were submitted to support the addition of Facet L, with or without Centurion, for tank-mixing when used on canola, to the label of Liberty 150 SN Herbicide. Glufosinate ammonium is currently registered for use on canola, and no increase in dietary exposure to glufosinate ammonium is expected due to the tank-mix partners. The resulting residues will be covered under the maximum residue limits (MRLs) specified at 3.0 ppm on canola (rapeseed) for glufosinate ammonium including the metabolite propanoic acid, 3-(hydroxymethylphosphinyl). Residues will not pose an unacceptable health risk to any segment of the population, including infants, children, adults and seniors.

## **Environmental Assessment**

No increase in environmental exposure is expected from the use of these tank mixes compared to already registered uses for each product.

## **Value Assessment**

Data from two trials conducted in Saskatchewan in 2010 and 2011 demonstrated that the level of cleaver control provided by the tank mixture of Liberty 150 SN at 500 g a.i./ha plus Facet L at 50 g a.i./ha was acceptable and also greater than that provided by Liberty 150 SN applied alone at 500 g a.i./ha.

Liberty 150 SN Herbicide is registered for the control of cleavers at the 1-2-whorl stage. Since Liberty 150 SN Herbicide only controls emerged weeds at the time of application (contact herbicide), combined with the multiple flush nature of this weed, inconsistent control of cleavers often occurs for the treatment of Liberty Link canola fields. Facet L has a slightly wider window of application on cleavers (i.e. 1-3 whorls) and would improve the overall level and consistency of cleaver control.

Inclusion of the 3-way tank mix of Liberty 150 SN Herbicide at 500 g a.i./ha + Facet L at 50 g a.i./ha + Centurion at 15 g a.i./ha for enhanced and more consistent control of cleavers and annual grasses is supported for the following reasons;

- data submitted supported a claim of enhanced and more consistent control of cleavers when tank mixing with Facet L at 50 g a.i./ha in Liberty Link canola.
- the tank mix of Liberty 150 SN at 500 g a.i./ha plus Centurion at 15 g a.i./ha is labeled for control of volunteer barley and wild oats. Centurion is registered for grass control in an array of crops, including canola.
- quinclorac, active ingredient of Facet L, has been registered for control of grasses and broadleaf weeds since 1996.

## **Conclusion**

Following review of the application the PMRA approved the label amendment of Liberty 150 SN Herbicide to include the addition of tank mix with Facet L, with or without Centurion, when used on Liberty Link canola.

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