

## Evaluation Report for Category C, Subcategory 3.11 Application

**Application Number:** 2011-0411  
**Application:** New Pests  
**Product:** Simplicity Herbicide  
**Registration Number:** 28887  
**Active ingredients (a.i.):** pyroxsulam  
**PMRA Document Number English PDF:** 2051609

### Background

Simplicity Herbicide has been registered since January 31, 2008. Simplicity Herbicide is registered for early post-emergence application at 15 g a.i./ha to spring wheat, including durum for the control of several annual broadleaved and grassy weeds. It is registered for use alone or in several tank mixtures for broad spectrum weed control. 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 registration of Simplicity Herbicide to include a claim of control for cow cockle (*Vaccaria pyramidata*) whether the product is applied alone in combination with a labelled non-ionic surfactant or in labelled tank mixtures.

### Chemistry Assessment

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

### Health and Environmental Assessments

Health and environmental assessments were not required as there was no change to the product formulation and use pattern.

### Value Assessment

Efficacy data from six replicated field trials conducted in western Canada in 2009 and 2010 indicated that cow cockle seedlings, from the seedling to the 8-leaf stage, were controlled following application of 11.25 or 15 g a.i./ha Simplicity plus 0.25% v/v Agral 90. Simplicity applied at 15 g a.i./ha in a tank mixture with Attain XC Herbicide Tank Mix (Attain XC A Herbicide at 77 g a.e./ha fluroxypyr [Reg. No. 29973] plus Attain XC B Herbicide at 420 g a.e./ha 2,4-D ester [Reg. No. 29972]) or Prestige XC Herbicide Tank Mix (Prestige XC A

Herbicide at 105 g a.e./ha fluroxypyr [Reg. No. 29462] plus Prestige XC B Herbicide at 495 g a.e./ha Curtail M [Reg. No. 29465]) demonstrated that control of cow cockle provided by Simplicity at 15 g a.i./ha was not negatively impacted by a tank-mix partner. Data also demonstrated that the labelled tank mixture of 11.25 g a.i./ha Simplicity herbicide plus Attain XC HTM (77 g a.e./ha fluroxypyr plus 420 g a.e./ha 2,4-D ester) provided commercially acceptable control of cow cockle seedlings up to the eight-leaf stage. While cow cockle control was not evaluated for all labelled tank mixes included on the Simplicity Herbicide label, it is not anticipated that other labelled tank mix partners would antagonize the activity of Simplicity Herbicide for control of this weed.

The efficacy data generated in tank mixture treatments of Simplicity Herbicide plus Attain XC HTM supports a claim of control for cow cockle for the labelled tank mixture of Simplicity Herbicide plus Attain HTM consisting of Attain A Herbicide (Reg. No. 24834) plus Attain B Herbicide (Reg. No. 24833), since Attain XC HTM has been concluded to be agronomically equivalent to Attain HTM when applied alone or in tank mixture with Simplicity (App. No. 2009-0944).

As there was no change to the use pattern for Simplicity Herbicide, other than the addition of a claim of control for cow cockle, an assessment of crop tolerance was not required.

## **Conclusions**

The Agency has completed an assessment of the subject application and has found the information sufficient to amend the registration of Simplicity Herbicide to include a claim of control for cow cockle for the product applied alone at 15 g a.i./ha or in labelled tank mixtures, including a tank mix of 11.25 g a.i./ha plus Attain Herbicide Tank-Mix.

## **References**

### **List of Studies/Information Submitted by Registrant**

#### Value Assessment

2003729 2010, Small Scale Field trial reports for Cow cockle Efficacy, DACO: 10.2.3.3

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