

## Evaluation Report for Category C, Subcategory 3.10 Application

**Application Number:** 2011-0732  
**Application:** Tank mixtures  
**Product:** Simplicity Herbicide  
**Registration Number:** 28887  
**Active ingredients (a.i.):** pyroxsulam  
**PMRA Document Number English PDF:** 2050752

### Background

Simplicity Herbicide has been registered since January 31, 2008. Simplicity Herbicide is registered for early post-emergence application to spring wheat, durum wheat and winter wheat not underseeded to legumes for the control of certain annual broadleaved and grassy weeds. It is registered for use alone or in several tank mixtures, including one with Attain Herbicide Tank Mix, consisting of Attain A Herbicide (Reg. No. 24834) plus Attain B Herbicide (Reg. No. 24833), for control of labelled weeds. 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 the option of applying Simplicity Herbicide in a tank mixture with Attain Herbicide Tank Mix and with either Tilt 250E Fungicide (Reg. No. 19346), containing 250 g/L propiconazole, or Stratego 250EC Fungicide (Reg. No. 27528), containing 125 g/L propiconazole and 125 g/L trifloxystrobin, to spring wheat, including durum for control of labelled weeds and foliar diseases on wheat.

### Chemistry, Health and Environmental Assessments

A chemistry assessment was not required since there was no change to product chemistry. Health and environmental assessments were not required since the use pattern, including host crops, application rates and timings, of the component products remained unchanged.

## **Value Assessment**

Data from six replicated field trials conducted in western Canada in 2008 and 2009 indicated that Tilt 250E Fungicide or Stratego 250EC Fungicide applied in a tank mixture with Simplicity Herbicide and Attain XC Herbicide Tank Mix (Attain XC A Herbicide [Reg. No. 29973] plus Attain XC B Herbicide [Reg. No. 29972]) did not impact the efficacy of the herbicides for control or suppression of labelled weeds. The data generated from tank mixture treatments of Simplicity Herbicide plus Attain XC HTM plus either Tilt 250E or Stratego 250EC supported the labelling of tank mixtures of Simplicity Herbicide plus Attain HTM plus either Tilt 250E or Stratego 250EC since a review of previously submitted data (App. No. 2009-0944) demonstrated that Attain XC HTM is agronomically equivalent to Attain HTM when applied alone or in tank mixture with Simplicity Herbicide.

In one trial, the efficacy of labelled rates of Tilt 250E Fungicide or Stratego 250EC Fungicide for control of tan spot on wheat was not negatively impacted when either fungicide was applied in a tank mixture with Simplicity Herbicide and Attain XC HTM when evaluated at 21 and 42 days after application. While no data were submitted for other foliar diseases of wheat, it is not anticipated that these herbicides would negatively impact the performance of either Tilt 250E or Stratego 250EC for control of foliar diseases on wheat since both fungicides are registered for use in tank mixture with several other herbicides. Early season foliar diseases on wheat are prevalent in western Canada at the same time that herbicide application would normally be made.

Addition of Tilt 250E Fungicide or Stratego 250EC Fungicide to the tank mixture of Simplicity Herbicide plus Attain XC HTM did not appear to affect crop sensitivity to the herbicides as assessed 2-3 weeks after treatment. As Attain XC HTM has been concluded to be agronomically equivalent to Attain HTM, it is not anticipated that either fungicide product would increase the sensitivity of spring or durum wheat when tank mixed with both Simplicity Herbicide and Attain HTM.

## **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 tank mixtures of either Tilt 250E Fungicide or Stratego 250EC Fungicide with Simplicity Herbicide alone, Simplicity Herbicide plus Attain Herbicide Tank-Mix, and Simplicity Herbicide plus MCPA LV500 for application to spring wheat, including durum for control of labelled weeds and foliar diseases on wheat.

## **References**

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

#### Value Assessment

1991611 2010, Field Reports, DACO: 10.2.3.3(A)

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