



## **Simplicity Herbicide Evaluation Report for Category C, Subcategory C.3.10 Application (Addition of tank-mixes)**

**Application Number:** 2009-1358  
**Application:** Category C, Subcategory C.3.10 Application (addition of tank-mixes)  
**Product:** Simplicity Herbicide  
**Registration Number:** 28887  
**Active ingredients (a.i.):** pyroxsulam (JUA)  
**PMRA Document Number:** 1810506

### **Background**

Simplicity Herbicide has been registered since January 31, 2008. Simplicity Herbicide is registered for post-emergence control of broadleaf and grass weeds in spring wheat and durum wheat. 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 submission was to amend the registration of Simplicity Herbicide to include a tank mixture of it with Frontline 2,4-D Herbicide Tank-Mix (Reg. No. 27242 and 27243), with Frontline 2,4-D ester applied at 2/3 the currently registered rate. This tank mix is intended for post-emergence application on spring wheat and durum wheat for the control of wild buckwheat, weed species listed on the Simplicity label and weed species controlled by 2,4-D ester at a rate of 350 g a.e./ha.

### **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**

Efficacy data were provided from a total of 18 trials conducted in 2007 and 2008 in Alberta, Saskatchewan and Manitoba. The efficacy of the tank mixture of Simplicity plus Frontline 2,4-D Herbicide Tank-Mix applied to spring wheat for the control of wild buckwheat was directly compared to that of Simplicity + Assist applied at the registered rate, to Frontline 2,4-D applied at a reduced rate, and to Everest (Reg. No. 26447) + Frontline 2,4-D + Agral 90 applied at

registered rates. The Simplicity + Frontline 2,4-D tank-mix provided an acceptable level of control of wild buckwheat. Also supported are weed species for which there are registered control or suppression claims for Simplicity Herbicide applied alone (with an adjuvant) and weed species controlled with 2,4-D Ester at 350 g a.e./ha.

Crop injury data were provided from a total of 20 trials, including the 18 trials in which efficacy data were collected as well as two additional dedicated crop tolerance trials conducted in spring wheat and durum wheat. Crop injury to spring wheat and durum wheat with the tank mixtures was usually low or absent, and was similar to the level of injury observed following application of Simplicity + Assist or Frontline 2,4-D alone. Grain yield data corroborated injury data.

## **Conclusions**

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Simplicity Herbicide to include the tank mixture of Simplicity Herbicide with Frontline 2,-4-D Herbicide Tank-Mix.

## **References**

### **A. LIST OF STUDIES/INFORMATION SUBMITTED BY REGISTRANT**

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