

## Evaluation Report for Category C, Subcategory C.3.10 Application (New or Changes to the Tank Mixes)

**Application Number:** 2009-3168  
**Application:** Category C, Subcategory C.3.10 (new or changes to the tank mixes)  
**Product:** Refine SG Herbicide  
**Registration Number:** 28285  
**Active ingredients (a.i.):** 16.65% tribenuron methyl and 33.35% thifensulfuron methyl  
**PMRA Document Number :** 1861357

### Background

Refine SG Herbicide is a co-formulation containing 16.65% tribenuron methyl (Group 2 Herbicide) and 33.35% thifensulfuron methyl (Group 2 Herbicide) and registered for control of broadleaf weeds on wheat (spring, winter, or durum), spring barley and oats and seedling and established grass species for forage and 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

E.I. du Pont Canada Company has applied to amend the registration of Refine SG Herbicide to include the tank mixture of 15 g a.i./ha Refine SG + 54 g a.i./ha Starane + 0.2% v/v non-ionic surfactant for control of cleavers at the 1-4 whorl stage on spring wheat, durum wheat, and spring barley in the Prairie Provinces and Peace River Region of British Columbia.

### Chemistry Assessment

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

### Health Assessment

A health assessment was not required as there was no change to the product formulation and use pattern.

### Environmental Assessment

An environmental assessment was not required as there was no change to the use site and pattern.

## Value Assessment

Data from four efficacy trials were submitted for review. The trials were conducted in Alberta, Manitoba, and Saskatchewan in 2005 and 2007. Herbicide treatments were applied to cleavers at the 3-4 whorl stage. Weed control (%) was visually assessed 3 times during the growing season.

Mean cleavers control following the application of 15 g a.i./ha Refine SG Herbicide + 54 g a.i./ha Starane Herbicide + 0.2% v/v Agral 90 or AgSurf was 85.8% at the mid rating and 88.1% at the late rating and it was comparable to that 15 g a.i./ha Refine SG Herbicide + 70 g a.i./ha Starane Herbicide (i.e. labelled rate for cleavers control) + 0.2% v/v Agral 90 or AgSurf and the registered commercial standard treatment of Refine SG + Attain HTM + non-ionic surfactant.

As this label amendment is to remove a tank mixture component of 2,4-D Ester from a registered tank mixture of Refine SG + Attain HTM (equivalent to Starane Herbicide + 2,4-D Ester) + non-ionic surfactant, without increasing the rate of either of other components, there would be no expectation of increased risk to the crops. Further crop tolerance data are not required.

## Conclusions

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of Refine SG Herbicide to include the tank mixture of Refine SG Herbicide + Starane Herbicide + non-ionic surfactant for control of cleavers in spring wheat, durum wheat, and spring barley.

## Reference

List of Studies/Information Submitted by Registrant

PMRA # 1793295: Efficacy of a Refine SG Herbicide tankmix with fluroxypyr on cleavers, *Galium aparine*, L. E.I. du Pont Canada Company. DACO. 10.2.3.3 and 10.3.2. August 19, 2009. pp. 182

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