



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

**Application Number:** 2009-0688  
**Application:** Category C, Subcategory C.3.10 Application (New or Changes to Product Label - Tank Mixes)  
**Product:** PP-23235 Herbicide  
**Registration Number:** 29262  
**Active ingredients (a.i.):** 23.1% tribenuron-methyl, 23.1% thifensulfuron-methyl, and 4.6% metsulfuron-methyl  
**PMRA Document Number:** 1757263

### Background

PP-23235 Herbicide is a three-way physical blend product, containing 23.1% tribenuron-methyl, 23.1% thifensulfuron-methyl, and 4.6% metsulfuron-methyl, and is recommended for selective post-emergence control or suppression of broadleaf weeds in spring wheat (including durum) and spring barley not underseeded to legumes and in certain grasses for forage or seed production. PP-23235 Herbicide is to be applied at the rate of 16.5 g a.i./ha with a recommended adjuvant at 0.2% v/v, such as Agral 90, AgSurf, and Citowett Plus. PP-23235 Herbicide is also labelled for use in tank mixture with 2,4-D Ester or Puma<sup>120</sup> Super for additional 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

E.I. du Pont Canada Company has applied to amend the registration of PP-23235 Herbicide to include a tank mixture of 16.5 g a.i./ha PP-23235 Herbicide + 60 g a.i./ha Axial 100 EC + 700 ml/ha Adigor Adjuvant for control of weeds listed on the PP-23235 Herbicide label plus wild oats, volunteer oats, green and yellow foxtail, volunteer canary seed, and proso millet in spring wheat (excluding durum wheat) and spring barley in the Prairie provinces and the Peace River Region of British Columbia

Each component of the tank mixture is presently registered for the same use pattern and no changes are made to host crops, target pests, and the application rates.

### 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 all the components of the tank mixtures are presently registered for use on spring and durum wheat.

### **Value Assessment**

Data from 9 combined efficacy and crop tolerance trials were submitted for review. The trials were conducted in Alberta, Manitoba, and Saskatchewan in 2006, 2007, and 2008.

Efficacy of the treatment of PP-23235 Herbicide + Axial 100 EC + Adigor Adjuvant was compared to that of the registered treatment of Refine Extra + Axial 100 EC + Adigor Adjuvant in the trials. Control of wild oats, redroot pigweed, round-leaved mallow, lamb's-quarters, Canada thistle, wild buckwheat, wild mustard, and stinkweed was visually assessed on 1-3 occasions during the growing season. Mean control of these weeds following the application of PP-23235 Herbicide + Axial 100 EC + Adigor Adjuvant was comparable to that of the registered tank mixture of Refine Extra + Axial 100 EC + Adigor Adjuvant.

Crop tolerance of spring wheat (8 trials) to the treatment of PP-23235 Herbicide + Axial 100 EC + Adigor Adjuvant, expressed as % crop injury, was reported. Crop injury to spring wheat was acceptable and also comparable to the registered treatment in the trials.

Inclusion of the tank mixtures of 16.5 g a.i./ha PP-23235 Herbicide + 60 g a.i./ha Axial 100 EC + 700 ml/ha Adigor Adjuvant to the PP-23235 Herbicide label can be supported from a value standpoint, based on the field trial data submitted and the following points:

1. Each component of the tank mixture is presently registered for use in spring wheat and spring barley and the applicant is not changing the application rates, application timing, and application methods.
2. The tank mixture of Axial 100 EC + Refine Extra (co-formulation of tribenuron methyl and thifensulfuron methyl) is presently registered on the Axial 100 EC label for use in spring wheat and spring barley.
3. The treatment of Ally Herbicide (60% metsulfuron-methyl) at 4.5 g a.i./ha is presently registered for use in spring wheat and spring barley.

### **Conclusions**

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of PP-23235 Herbicide to include the tank mixture of 16.5 g a.i./ha PP-23235 Herbicide + 60 g a.i./ha Axial 100 EC + 700 ml/ha Adigor Adjuvant for control of broadleaf weeds plus wild oats, volunteer oats, green and yellow foxtail, volunteer canary seed, and proso millet in spring wheat and spring barley.

### **Reference**

List of Studies/Information Submitted by Registrant

PMRA # 1725948:

Efficacy and crop tolerance of PP-23235 Herbicide + Axial 100 EC Herbicide on wild oats in spring wheat and barley. Mark Redden. February 25, 2009. DACO 10.1, 10.2.1, 10.2.2, 10.2.3.1, 10.2.3.3, 10.3.1, and 10.3.2. pp 198.

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