

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

**Application Number:** 2012-2072  
**Application:** Category C, Subcategory C.3.10 (new or changes to tank mixes)  
**Product:** Puma Advance  
**Registration Number:** 29615  
**Active ingredients (a.i.):** 90 g/L fenoxaprop-P-ethyl  
**PMRA Document Number:** 2207853

### Background

Puma Advance Herbicide containing 90 g/L fenoxaprop-P-ethyl (Group 1 Herbicide) is registered for post-emergence control of wild oats, green foxtail, yellow foxtail, and barnyard grass in spring wheat, durum wheat, and spring barley. Puma Advance Herbicide can be applied alone or in combination with other broadleaf herbicides. 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 is to amend registration of Puma Advance to replace two tank mix partners:

- (1) Prestige HTM at 0.8 L/ha of Prestige A + 2.0 L/ha of Prestige B with Prestige XC HTM at 0.31 L/ha of Prestige XC A + 1.5 L/ha of Prestige XC B or 0.41 L/ha of Prestige XC A + 2.0 L/ha of Prestige XC B, and
- (2) Attain HTM at 0.6 L/ha of Attain A + 1.0 L/ha of Attain B with a tank mix of Attain XC A at 0.23 L/ha plus 2,4-D Ester Herbicide at 420 g a.e./ha or Attain XC A at 0.31 L/ha plus 2,4-D Ester Herbicide at 560 g a.e./ha.

### Chemistry, Health, and Environmental Assessments

Chemistry, health, and environmental assessments were not required as there was no change to product chemistry, formulation, use rate, and use pattern.

### Value Assessment

Replacement of the tank mix partner of Prestige HTM (Reg. Nos. 25465 and 25464) with Prestige XC HTM (Reg. Nos. 29462 and 29465) was supported for the following reasons:

- Prestige XC HTM was determined to be agronomically equivalent to Prestige HTM when applied at the same rate on an a.i./ha basis under application number 2007-2284.

- Prestige XC HTM is registered for application at low rate, 0.31 L/ha of Prestige XC A plus 1.5 L/ha of Prestige XC B, and high rate, 0.41 L/ha of Prestige XC A plus 2.0 L/ha Prestige XC B based on weed spectrum.
- Prestige XC HTM at both rates are registered for application in tank mix with Puma<sup>120</sup> Super (Reg. No. 25864; 120 g/L fenoxaprop-P-ethyl), which was previously determined to be agronomically similar to Puma Advance.

Replacement of the tank mix partner of Attain HTM (Reg. Nos. 24834 and 24833) with a tank mix of Attain XC A (Reg. No. 29973) plus 2,4-D Ester Herbicide was supported for the following reasons:

- Attain XC A is a master copy product of Starane II Herbicide (Reg. No. 29463) and is registered for control of a wide spectrum of broadleaf weeds in tank mix with 2,4-D Ester Herbicide. Attain A is a master copy product of Starane Herbicide (Reg. No. 24815) and Attain B contains 564 g a.e./L 2,4-D Ester. The tank mixture of Attain XC A plus 2,4-D Ester Herbicide has been determined to be agronomically similar to Attain HTM when applied at the same rate on an a.i./ha basis.
- Attain XC A is registered for application at low rate of 0.23 L/ha in tank mix with 420 g a.e./ha of 2,4-D Ester Herbicide and at high rate of 0.31 L/ha in tank mix with 560 g a.e./ha of 2,4-D Ester based on weed spectrum.
- Attain XC A in tank mix with 2,4-D Ester Herbicide at both rates are registered for application in tank mix with Puma<sup>120</sup> Super (Reg. No. 25864; 120 g/L fenoxaprop-P-ethyl), which was previously determined to be agronomically similar to Puma Advance.

## **Conclusions**

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of Puma Advance to replace the tank mix partner of Prestige HTM with Prestige XC HTM and the tank mix partner of Attain HTM with a tank mix of Attain XC A plus 2,4-D Ester Herbicide.

## **Reference**

### List of Studies/Information Submitted by Registrant

PMRA # 2196081: Puma Advance EC Herbicide and Puma Advance Herbicide: Use in tank mixture with Prestige XC HTM and with Attain XC A + 2,4-D Ester. DACO. 10.1, 10.2.2, 10.2.3.1, 10.2.3.3, 10.3.1, and 10.3.2. May 31, 2012. pp. 6.

ISSN: 1911-8082

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