

## **Enforcer D Herbicide**

### **Evaluation Report for Category B Streamlined, Subcategory 3.10 and 3.11 Application**

**Application Number:** 2015-0550  
**Application:** Category B, Subcategory 3.10 (new or changes to product labels – tank mixes) and 3.11 (new or changes to product labels – new pests) Application  
**Product:** Enforcer D Herbicide  
**Registration Number:** 30690  
**Active ingredients (a.i.):** bromoxynil / 2,4-D / fluroxypyr [BRY / DXF / FLR]  
**PMRA Document Number :** 2542845

#### **Background**

Enforcer D Herbicide (Reg. No. 30690) was first registered in November of 2012. Enforcer D Herbicide contains 80 g fluroxypyr / L (Group 4 Herbicide), 190 g bromoxynil / L (Group 6 Herbicide) and 240 g 2,4-D ester / L (Group 4 Herbicide) and is labelled for selective post-emergence control or suppression of annual and perennial broadleaf weeds in wheat (spring and durum) and barley grown in western Canada. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

#### **Purpose of Application**

Nufarm Agriculture Inc. has applied to amend the registration of Enforcer D Herbicide to include a reduced rate of a new tank mix partner, Nufarm Boost Herbicide (Reg. No. 30377; contains 50% w/w thifensulfuron-methyl and 25% w/w tribenuron-methyl (both Group 2 Herbicides)), for the control of narrow-leaved hawk's beard in wheat (spring and durum) and barley grown in western Canada.

#### **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 remain unchanged or were reduced.

#### **Value Assessment**

Narrow-leaved hawk's beard is an annual or winter annual, hard to kill broadleaf weed that competes with cereal crops. At present, there are few herbicide products registered for the

control of narrow-leaved hawk's beard with a post-emergent to crop application.

Data from five small-scale field trials that were conducted in the Prairie Provinces in 2014 demonstrated that the tank mix of Enforcer D Herbicide (0.6 or 1.2 L/ha) + a reduced rate of Boost Herbicide (6.7 g/ha) suppressed narrow-leaved hawk's beard. The tank mix would not be expected to result in unacceptable crop injury when applied to spring wheat, durum wheat or barley. In addition, the use of Nufarm Boost Herbicide as a tank mix partner with Enforcer D Herbicide will provide another mode of action that may have activity against some existing labelled weeds, which may assist with resistance management.

## **Conclusion**

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Enforcer D Herbicide by including Nufarm Boost Herbicide (applied at a reduced rate) as a new tank mix partner for the suppression of narrow-leaved hawk's beard in wheat (spring and durum) and barley grown in western Canada.

## **References**

<b>PMRA Doc Number</b>	<b>Reference</b>
2501563	2015, Part 10 - Enforcer D and Boost Herbicide, DACO: 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3(B), 10.3.2(A).

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