

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

Application Number: 2009-4409
Application: Category C, Subcategory C.3.10 (new or changes to tank mixes)
Product: Velocity Herbicide
Registration Number: 29070
Active ingredients (a.i.): 10 g/L thien carbazone-methyl
PMRA Document Number : 1888622

Background

Velocity Herbicide is a selective post-emergence herbicide for control of grassy and broadleaf weeds in spring and durum wheat (for use in the Prairie Provinces and the Peace River region of British Columbia only). The product is formulated as an oil dispersion containing 10 g/L of thien carbazone-methyl and 60 g/L of mefenpyr-diethyl (safener). For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Purpose of Application

Bayer CropScience has applied to amend the registration of Velocity Herbicide to include uses of (1) Velocity Herbicide + Thumper Herbicide (Reg. No. 22659) on durum wheat from the 4- to 6-leaf stage plus 3 tillers and (2) Velocity Herbicide + Buctril M Herbicide (Reg. No. 18022) on durum wheat from the 2- to 6-leaf stage plus 3 tillers.

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 for any tank mix component.

Environmental Assessment

An environmental assessment was not required as there was no change to the use site and pattern for any tank mix component.

Value Assessment

Crop tolerance data from a total of 9 trials were submitted and the trials were conducted in Rosthern, Indian Head, Saskatoon, and Swift Current, Saskatchewan in 2006 and 2007.

Crop tolerance was assessed visually as percent crop injury (%) for the tank mixture of Velocity + Buctril M in 6 trials and for the tank mixture of Velocity + Thumper in 3 trials. Final yield was taken in all 9 trials. Based on the evidence made available, following an application of Velocity in a tank mixture with either Buctril M or Thumper, crop safety and final grain yield of durum wheat for which data were provided are acceptable and as well comparable to the registered treatment of Everest 75 WDG + Frontline HTM.

Conclusions

The PMRA has completed an assessment of the subject application and has found the information sufficient to amend the registration of Velocity Herbicide to include the use of Velocity in a tank mixture with either Buctril M or Thumper on durum wheat.

Reference

List of Studies/Information Submitted by Registrant

PMRA # 1817068: Velocity Herbicide (thiencarbazone-methyl) + Thumper (bromoxynil + 2,4-D ester) or Buctril M (bromoxynil + MPCA ester) for grass and broadleaf weed control in durum wheat. October 15, 2009. DACO 10, 10.3, 10.3.1, and 10.3.2. pp 145.

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