

Evaluation Report for Category B, Subcategory 2.1 Application

Application Number: 2007-2284

Application: B.2.1 (New EP Product chemistry – guarantee)

Product: Prestige XC A Herbicide

Registration Number: 29462

Active ingredients (a.i.): fluroxypyr (FLR) / Herbicide

PMRA Document Number: 1940228

Purpose of Application

The purpose of this application was to register the use of Prestige XC A Herbicide on spring barley, spring wheat, including durum, and seedling and established forage grass species grown for seed. Prestige XC A Herbicide is only intended for post-emergence application in a tank mixture with Prestige XC B Herbicide (reviewed under companion Submission number 2007-2285) as "Prestige SC Herbicide Tank Mix". Prestige XC Herbicide Tank Mix (HTM) may be applied at two rates: 103 g a.i./ha Prestige XC A Herbicide plus 495 g a.e./ha Prestige XC B Herbicide, or 137 g a.i./ha Prestige XC A Herbicide plus 660 g a.e./ha Prestige XC B Herbicide for control of additional weed species. The requested use pattern of Prestige XC HTM, which includes the subject new formulation that does not contain any nonylphenol ethoxylated (NPE) formulants, is similar to that of Prestige HTM that includes Prestige A Herbicide (Registration number 25465). For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Chemistry Assessment

Prestige XC A Herbicide (a component of Prestige XC Herbicide Tank Mix) contains the active ingredient fluroxypyr (present as fluroxypyr-meptyl) at a nominal concentration of 333 g/L. This product has a density of 1.0552 g/mL at 20°C and pH of 4.58. The chemistry requirements for Prestige XC A Herbicide are complete.

Health Assessments

Prestige XC A Herbicide is of low acute toxicity by the oral (LD $_{50}$ >5000 mg/kg bw), dermal (LD $_{50}$ >5000 mg/kg bw), and inhalation (LC $_{50}$ >5.5 mg/L) routes of exposure. The formulation is moderately irritating to the rabbit eye, and is slightly irritating to the rabbit skin. Prestige XC A Herbicide is considered to be a potential dermal sensitizer based on the Local Lymph Node Assay.



The proposed uses of fluroxypyr should not result in an increase in potential occupational or bystander (reentry) exposure over registered uses of the active ingredient since the crops, application rate, number of applications, frequency of application and method of application fall within the currently registered products.

Environmental Assessment

The new product formulation and the proposed use rate of Prestige XC A Herbicide will not result in increased environmental exposure relative to the currently registered product Starane Herbicide (Registration number 24815). Therefore, no increase in environmental risk is expected. Environmental concerns have been mitigated through adequate statements on the product label.

Value Assessment

The efficacy data submitted in support of the registration of Prestige XC A Herbicide and Prestige XC HTM were reviewed under companion Submission number 2007-2288, Starane II Herbicide. The formulation of Prestige XC A Herbicide is the same as that of Starane II Herbicide. In that review, it was concluded that the performance of Starane II Herbicide applied alone or in tank mixtures was similar to that of Starane Herbicide (Registration number 24815) applied alone or in tank mixture with the same tank mix partner products (at the same rates), including with Curtail M Herbicide (Registration number 22764). The formulation of Prestige XC B Herbicide is the same as that of Prestige B Herbicide (Registration number 25464) and Curtail M Herbicide.

Crop safety data for spring wheat, durum wheat, and spring barley were also reviewed under Submission number 2007-2288. Crop safety data for forage grass species were reviewed under the subject application. Data were submitted from 3 replicated field trials conducted in Alberta at Beaverlodge, Fort Saskatchewan, and Ellerslie in 2006 in which the tolerance of established forage grasses to treatments of Prestige II A Herbicide applied alone or in tank mixture with Prestige XC B Herbicide as Prestige XC HTM was assessed.

The submitted data indicate that each of the tested established forage grass species proposed for labelling are similarly tolerant of Prestige XC A Herbicide as they are to Prestige A Herbicide applied alone or in tank mixture with Prestige XC B Herbicide (i.e. Prestige XC HTM) or Prestige B Herbicide (as Prestige HTM). These data corroborate the crop safety data submitted for spring wheat, durum wheat, and barley in which it was concluded that these cereal species are as tolerant of Starane II Herbicide applied alone or in tank mixtures as they are of Starane Herbicide applied alone or in tank mixtures with the same tank mix partner products. While data were not submitted specifically for canarygrass or for seedling (newly established) forage grasses, performance of Prestige XC HTM would be expected to be similar to that of Prestige HTM for these crops.

Conclusion

The PMRA has completed an assessment of available information for Prestige XC A Herbicide and has found the information sufficient to allow for full registration.

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