Evaluation Report for Category C, Subcategory 3.10

Application Number: 2006-4735 and 2006-4737
Application: category C, subcategory 3.10 (new tank mix)
Product: Folicur 432 F Foliar Fungicide
Registration Number: 25940
Active ingredients (a.i.): contained in product: tebuconazole at 432 g/L
PMRA Document Number: 1401462

Background

Folicur 432 F Foliar Fungicide (PCP# 25940) is currently registered for suppression of Fusarium head blight (scab) and control of foliar diseases on wheat (spring, winter and durum). Folicur 432 F Foliar Fungicide is currently registered for use on wheat at a rate of 125 g a.i./ha.

Puma^{120} Super (PCP# 25864) is currently registered for control of wild oats, green foxtail, yellow foxtail and barnyard grass in spring wheat, durum wheat, spring barley and seedling perennial ryegrass grown for seed in the Prairie Provinces and Peace River region of British Columbia only. Puma^{120} Super at 46 or 92 g a.i./ha can be applied in tank mix with Buctril M at 560 g a.i./ha or Refine Extra at 15 g a.i./ha. Note that Puma^{120} Super is not registered for use on winter wheat.

Refine Extra 75 DF Herbicide (PCP# 22352) is currently registered for control or suppression of broadleaf weeds in wheat (spring, winter or durum), barley and oats, and seedling and established grass species for forage and seed production only. Refine Extra at 15 g a.i./ha + Puma^{120} Super at 46 or 92 g a.i./ha can be applied on spring wheat (including durum) and barley. Applications should be made to spring and durum wheat at the 1-6 leaf stage plus 3 tillers and when annual grassy weeds are in the 1-6 leaf stage (up to emergence of third tiller). A non-ionic surfactant is NOT required when Refine Extra is tank mixed with Puma^{120} Super.

Buctril M (PCP# 18022) is currently registered for control or suppression of broadleaf weeds in wheat (spring, durum and winter), barley, oats, flax (including Low Linolenic Acid Varieties), corn, fall rye, canary seed, seedling grasses, and established grasses. The currently registered tank mix of Buctril M at 560 g a.i./ha + Puma^{120} Super at 46 or 92 g a.i./ha can be applied to spring wheat and durum wheat in the Prairie Provinces and Peace River region of British Columbia only. Applications should be made to spring wheat and durum wheat from the 1-6 leaf stage plus 3 tillers and when annual grassy weeds are in the 1-6 leaf stage.

Purpose of Application

The purpose of this application was to amend the registration of Folicur 432 Fungicide to:

1) lower application rate of Folicur 432 F from the currently registered rate of 125 g a.i./ha to 94 g a.i./ha for leaf disease control and the addition of a registered non-ionic surfactant (NIS), Agral 90 or Agsurf at 0.125% v/v
2) add a tank mix of Folicur 432 F (94 g a.i./ha) + Puma ^{120} Super + Refine Extra (92 g + 15 g a.i./ha
3) add a tank mix of Folicur 432 F (94 g a.i./ha) + Buctril M (560 g a.i./ha)
4) add a tank mix of Folicur 432 F (94 g a.i./ha) + Buctril M + Puma^{120} Super (560 g + 92 g a.i./ha)

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 only change to the use pattern was the addition of tank mix partners, Refine Extra, Buctril M and Puma^{120} Super.

Value Assessment

Fungicide Efficacy: One disease, Tan Spot (*Pyrenophora tritici-repentis)*, was tested in six trials in Manitoba and Ontario. No difference was noted in the degree of control between Folicur (no herbicides) at the proposed label rate and Folicur in a tank mix with Puma and/or Buctril M at the proposed rates. It is expected that efficacy for other diseases will not be affected by the herbicide tank mixes. No phytotoxicity was reported in any of the trials.

Herbicide Efficacy: Efficacy was visually assessed throughout the growing season in 10 single season trials conducted in Ontario, Manitoba, Saskatchewan and Alberta over two years. Data collected at 31-50 days for the proposed tank mix combinations with Folicur 432 F supported control claims for eight broadleaf and two grassy weed species listed on the herbicide labels.

Non-safety adverse effects were visually assessed throughout the growing season in 16 single season trials conducted in Ontario, Manitoba, Saskatchewan and Alberta over two years. Data collected at 21-50 days for the proposed tank mix combinations with Folicur 432 F supported crop tolerance claims for spring, durum and winter wheat. Yield was assessed in 14 trials. Yield results after an application of the proposed tank mix combinations with Folicur 432 F Fungicide were similar to the tank mix combinations without Folicur 432 F.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of the Folicur 432 F Fungicide label to include the following tank mix combinations:

- Folicur 432 F + Puma^{120} Super + Refine Extra,
- Folicur 432 F + Buctril M, and
- Folicur 432 F + Buctril M + Puma 120 Super

References

A. LIST OF STUDIES/INFORMATION SUBMITTED BY REGISTRANT

VALUE

PMRA 1311014 FOLICUR 432 F Foliar Fungicide. Data to Support a Tank-mixture with Puma ^{120} Super + Refine Extra Herbicides in Wheat. Part 10 Efficacy/Value. July 25, 2006. Bayer CropScience. p. 258.

PMRA 1283996 FOLICUR 432 F Foliar Fungicide. Data to Support Buctril M and Puma^{120} Super Herbicide Tank-mixtures in Wheat. Part 10 Efficacy/Value. July 11, 2006. Bayer CropScience. p. 259.

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