Evaluation Report for Category C, Subcategory C.3.10 Application

Application Number: 2008-1280
Application: Category C, subcategory C.3.10 (new tank mix addition to the product label)
Product: Tilt 250E Fungicide
Registration Number: 19346
Active ingredients (a.i.): Propiconazole
PMRA Document Number: 1634964

Background

Tilt 250E Fungicide (Reg No. 19346) was first registered on April 23, 1986 and is currently registered for a broad-spectrum disease control in wheat, spring barley, oats, canola, corn, legume vegetables, soybeans, canaryseed, and timothy. Tilt 250E Fungicide is a group 3 demethylation inhibitor (DMI) containing propiconazole (250 g/L), a member of the chemical group triazole. Propiconazole is a broad spectrum systemic fungicide. Tilt 250E can be applied in tank mix with one of these herbicides: 2,4-D Amine Estemine 2,4-D†, MCPA Amine Estemine MCPA†, Buctril †M Pardner†, HORIZON 240EC Herbicide (Wheat Only).

Axial 100EC Herbicide (28642) is a systemic, post emergence herbicide for the selective control of wild oats, green foxtail, yellow foxtail, volonteer oats, volonteer canary seed and proso millet in Spring Wheat and Barley in the prairie provinces and the Peace River, Okanagan, and Creston Flats Regions of British Columbia.

Purpose of Application

The purpose of this submission is to add a new herbicide tank-mixing partner, Axial 100EC Herbicide, to the Tilt 250E Fungicide label for use on Septoria leaf spot (*Septoria tritici*) on Wheat and Net blotch (*Pyrenophora teres*) on Spring Barley at growth stage BBCH 12-23.

Chemistry, Health, and Environmental Assessment

A chemistry assessment was not required since there was no change to the product chemistry. Health and environmental assessments were not required since the use pattern, applications rates and timing of the component products remained unchanged.

Value Assessment

Six field trials were reviewed to assess the efficacy of Tilt 250E and Axial 100EC tank mix to control Septoria in spring wheat and Net Blotch in spring barley. Tilt 250E applied alone at the lower rate of 62.5 g a.i./ha is used at growth stage BBCH 12-23 for early disease suppression under normal field conditions. The tank mix of Axial 100EC and Tilt 250E at 62.5 g a.i./ha at growth stage BBCH 12-23 provided a slight decrease in efficacy compared to Tilt 250E applied alone. However, the level of control, on Septoria in spring wheat and Net Blotch in spring barley, obtained with the tank mix is still considered suppression. Crop yields obtained with the tank mix are comparable between the tank mix and Tilt 250E applied alone (62.5 g a.i./ha).

Tilt 250E can be applied at a higher rate (125 g a.i./ha) early season (G.S. BBCH 12-23) for disease control if there is a history of high disease pressure in the field and/or field conditions favour disease development. No efficacy data were provided to assess the efficacy of Axial 100EC with Tilt 250E at the higher rate applied at growth stage BBCH 12-23. A curative application (BBCH 37-39) of Tilt 250E alone at 125 g a.i./ha showed good disease control (63-73% control). A preventative application (BBCH 12-23) of Tilt 250E at the same rate would be expected to provide even better disease control. When tank mixing with Axial 100EC, a slight decrease in efficacy is to be expected, but it still should control Septoria in spring wheat and Net Blotch in spring barley.

It is important to note that Tilt 250E persists about three weeks systematically in the plant. If conditions are favourable to disease continuation after this length of time, another application at the high rate (125 g a.i./ha) will be necessary at the time of head emergence to maintain control. In most cases, this second application is essential to maintain control of Septoria disease complex.

No phytotoxicity or incompatibility were reported in any trials.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Tilt 250E Fungicide to include a new herbicide tank mix partner, Axial 100EC Herbicide, to the existing Tilt 250E Fungicide label for use on Septoria leaf spot (*Septoria tritici*) on Wheat and Net blotch (*Pyrenophora teres*) on Spring Barley at growth stage BBCH 12-23.

References

PMRA #1578801. 2008. 10.2.1 - Mode of Action - TILT and AXIAL, DACO: 10.2.1

PMRA #1578804. 2008, 10.2.3.1-1 - Efficacy Summary - TILT and AXIAL, DACO: 10.1,10.2.3.1

PMRA #1578807. 2008, 10.2.3.3-1 - Field Efficacy Trial Summaries for AXIAL and TILT-Fungicide Efficacy, DACO: 10.2.3.3

PMRA #1578809. 2008, 10.2.3.1-1 - Tolerance Summary - TILT and AXIAL, DACO: 10.3.1,10.3.2

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