

Evaluation Report for Category B, Subcategory 3.10, 3.12 Application

Application Number: 2010-0984
Application: B.3.10 - New or Changes to Product Labels-Tank Mixes
B.3.12 - New or Changes to Product Labels-New Site or Host
Product: Peak 75WG Herbicide
Registration Number: 25310
Active ingredients (a.i.): Prosulfuron
PMRA Document Number (English PDF): 2214553

Purpose of Application

The purpose of this application was to amend the registration of Peak 75WG Herbicide (Reg. No. 25310) to (1) add a new host, winter wheat, and to (2) add a new tank mix (Pardner or Pardner +Tilt or Quilt).

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

Residue data for prosulfuron in wheat were submitted. As well, a processing study in treated wheat was also provided and assessed to determine the potential for concentration of residues of prosulfuron into processed commodities.

Based on the maximum residues observed in wheat treated at ~1-20X of the label rate, maximum residue limit (MRL) of 0.01 ppm to cover residues in/on wheat will be established as shown in Table 1. Residues of prosulfuron in processed commodities not listed in Table 1 are covered under established MRL for the raw agricultural commodity (RAC).

TABLE 1. Summary of Field Trial and Processing Data Used to Establish Maximum Residue Limit(s) (MRLs)

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL	Recommended MRL
			Min	Max			
Wheat	Foliar Broadcast/ 10.1-198	70-297	<0.01	<0.01	All residues <0.01 ppm in wheat grain and processed fractions	None	0.01

Following the review of all available data, an MRL is recommended to cover residues of prosulfuron in wheat. Residues of prosulfuron in this commodity at the established MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

The use of Peak 75WG Herbicide on winter wheat falls within the registered use pattern for this active ingredient. No unacceptable risk is expected when workers follow the label directions and wear the personal protective equipment identified on the label. Furthermore, the tank-mix partners are already registered for use at the same rates; therefore, no increase in exposure is expected.

Environmental Assessment

The addition of new tank mixes to the Peak 75WG label for use on winter wheat does not change current application rates or buffer zones. Therefore, there are no further environmental concerns related to this amendment.

Value Assessment

Data and scientific rationales were submitted in support of the expansion of the PEAK 75 WG Herbicide label to include application to a new crop, winter wheat, a new tank mix of Peak 75 WG Herbicide + Pardner Herbicide, and new tank mixes of Peak 75 WG Herbicide.+ Pardner Herbicide + either Tilt or Quilt Fungicide. The information included efficacy data to demonstrate disease and weed control, as well as crop tolerance to the new tank mixes. The information provided were sufficient to support the addition of winter wheat and the new tank mixes from a value point of view.

Four field trials were conducted to evaluate disease control in winter wheat. Tilt 250E was applied alone at 62.5 g ai/ha to establish the level of disease control within each trial. The same rate of Tilt 250E was used in the herbicide tank-mixture of Peak + Pardner + Agral 90. Buctril-M + Stratego Fungicide applied at 560 and 125 g ai/ha, respectively, were used as the commercial

industry standard for disease control in these trials. Septoria leaf spot (*Septoria tritici*) was evaluated in these trials. The disease pressure was generally low, from trace amount to 8 - 9% (disease severity rating using the Horsfall Barret scale). Therefore, the response from the fungicide treatment was low in these trials. The efficacy of Tilt (either alone or in the tank mix), under most cases, was not significantly different from the non-treated control. However, the disease control was not compromised by tank mixing Tilt with herbicide since the tank mix demonstrated a similar level of *Septoria* control to that of Tilt alone and the commercial standard tank mix (Buctril-M plus Stratego). No phytotoxicity was observed in any trials. Although Quilt Fungicide was not evaluated, the same result can be expected since there is no concern with antagonism or compatibility from tank mix of Peak with Quilt that is applied at the registered rate for wheat. The tank mix claim is supported at the label rates for both Tilt 250E and Quilt fungicides.

Conclusion

The PMRA has completed an assessment of this application and has found the information to be sufficient to amend the registration of Peak 75WG Herbicide (Reg. No. 25310) to (1) add a new host, winter wheat, and to (2) add a new tank mix (Pardner or Pardner +Tilt or Quilt).

References

- PMRA ID # 1898620: 2009, EQUINOX EC (BAS 620 00H) HERBICIDE (Active Ingredient: Tepraloxydim) Application for the addition of Aerial Application of Equinox Herbicide at a reduced water volume (25 to 50 L/ha), DACO: 10.1,10.2,10.2.1,10.2.2,10.2.3,10.2.3.1,10.2.3.3,10.3,10.3.
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- PMRA ID # 1873006: 2009, Prosulfuron (A8714C) – Residue Levels on Winter Wheat (Hay, Grain and Straw) from trials conducted in Canada During 2008, DACO: 7.4.1
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