

Evaluation Report for Category B, Subcategory 3.11, 3.12, 3.2, 3.5 Application

Application Number: 2014-2530
Application: New or Changes to Product Labels-New Pests
New or Changes to Product Labels-New Site or Host
New or Changes to Product Labels-Application Timing
New or Changes to Product Labels-Rotational Crops\Plantback Interval
Product: Flumioxazin 51 WDG Herbicide
Registration Number: 29235
Active ingredients (a.i.): Flumioxazin
PMRA Document Number : 2490838

Purpose of Application

The purpose of this application was to amend the Flumioxazin 51 WDG Herbicide label by modifying the directions for use for field pea, to add the new crops spring wheat and chickpea, and to change the rotational interval for spring wheat and field peas.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

The occupational exposure and risk from the addition of the use on spring wheat and chickpeas to the Flumioxazin 51 WDG Herbicide label was assessed. No risks of concern are expected from the new use, provided that workers follow the label directions and wear the personal protective equipment identified on the label.

Residue data from field trials conducted in Canada were submitted to support the domestic use of flumioxazin on spring wheat. Flumioxazin was applied to spring wheat at one-fold the supported rates, and harvested according to label directions. In addition, a processing study in treated wheat was reviewed to determine the potential for concentration of residues of flumioxazin into processed commodities.

No new residue data were submitted in support of (1) the addition of chickpeas and (2) the new application timing for field peas on the Flumioxazin 51WDG Herbicide label. The use pattern for the addition of chickpeas and new application timing for field peas was determined to be within

that of the registered product. Therefore, the previously reviewed data were reassessed in the framework of the current application and confirmed that the use of Flumioxazin 51WDG Herbicide, which contains flumioxazin, is not expected to result in an increase in the magnitude of residues of flumioxazin in/on field peas including chickpeas. Therefore, the use of Flumioxazin 51WDG Herbicide on spring wheat, field peas and chickpeas, according to label directions, will not pose an unacceptable risk to any segment of the population, including infants, children, youth, adults, seniors and females.

Maximum Residue Limits

The recommendation for a maximum residue limit (MRL) for flumioxazin in/on wheat grain was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). A MRL to cover residues of flumioxazin in/on crops and processed commodities is proposed as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under the proposed MRLs for the raw agricultural commodities (RACs).

TABLE 1. Summary of Field Trial and Processing Data Used to Support Maximum Residue Limit(s) (MRLs)							
Commodity	Application Method/ Total Application Rate (g ai/ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			Min	Max			
Spring wheat grain	Soil application 5-8 days prior to planting/ 102.7-109.5	98-133	<0.02	<0.02	0.14 (flour) 0.94 (bran) 1.0 (germ)	None	0.02

Based on the dietary burden and residue data, no MRLs for flumioxazin are proposed in milk, eggs, fat, meat and meat by-products of cattle, goats, hogs, horses, poultry and sheep.

Following the review of all available data, a MRL as proposed in Table 1 is recommended to cover residues of flumioxazin. Residues in these crop commodities at the proposed MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults, seniors and females.

Environmental Assessment

The addition of two new crops: spring wheat and chickpeas; new application timing; new pests; and changes to the rotational intervals were not expected to increase environmental impact. Mitigation measures to protect aquatic organisms, small wild mammals and beneficial insects are provided on the label.

Value Assessment

Value information consisting of a written report describing field trials conducted to support the tolerance of field pea, chick pea and spring wheat to Flumioxazin 51 WDG Herbicide was submitted. The information was found to support the addition of spring wheat and chickpea (fall and spring applications) as well as a spring application to field pea, to the Flumioxazin 51 WDG Herbicide label. The information also supports amending the rotational cropping period for spring wheat and field pea to immediate plantback.

The addition of spring wheat and chickpea to the Flumioxazin 51 WDG label, and expansion of the use pattern for field pea, will provide growers an additional tool for weed management and resistance management.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Flumioxazin 51 WDG Herbicide, and has found the information sufficient to add spring wheat and chickpea to the label, and expand the use pattern for field pea.

References

- 2440986 2014, Value Summary for Flumioxazin 51 WDG Herbicide: Addition of Spring Wheat, Chickpea, and Amendment to Field Pea Use Patterns, DACO: 10.1,10.2.3.1,10.3.2(A),10.5.1,10.5.2,10.5.3
- 2440987 2014, APPENDIX 1: Trial Reports for Value Summary for Flumioxazin 51 WDG Herbicide Addition of Spring Wheat, Chickpea, and Amendment to Field Pea Use Patterns, DACO: 10.1,10.3.2(A)
- 2440989 2014, APPENDIX 2: Trial Reports for Value Summary for Flumioxazin 51 WDG Herbicide Addition of Spring Wheat, Chickpea, and Amendment to Field Pea Use Patterns, DACO: 10.1,10.3.2(A)
- 2441001 2011, Magnitude of the Residue of Flumioxazin on Wheat and in Wheat Processing Fractions, DACO: 7.4.1,7.4.5
- 2441002 2014, Flumioxazin: Magnitude of the Residue on Spring Wheat After Pre-Plant Application of Valtera Herbicide, DACO: 7.4.1

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