

Evaluation Report for Category B, Subcategory 3.1, 3.12 Application

Application Number: 2015-6027
Application: Changes to product label – new site or host
Product: Flumioxazin 51WDG Herbicide
Registration Number: 29235
Active ingredients (a.i.): Flumioxazin
PMRA Document Number: 2604815

Purpose of Application

The purpose of this application was to amend the registration of Flumioxazin 51WDG Herbicide to add a new crop lentil and amend the harvest aid use patterns for the product.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicology assessment was not required for this application.

The use pattern of Flumioxazin 51WDG Herbicide on lentils, Crop Subgroup 6C, dried shell pea and bean (except soybean), and wheat fits within the registered use pattern for flumioxazin. The potential exposure for mixers, loaders, applicators and postapplication re-entry workers is not expected to exceed the current exposure to registered uses. No health risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

Residue data from field trials conducted on wheat in the United States (including Canadian representative growing regions) were reviewed and previously reviewed residue data from field trials conducted in/on dry peas and beans were reassessed to support the domestic use of Flumioxazin 51WDG Herbicide on dried shelled peas and beans and on wheat. Flumioxazin was applied to dry peas and beans at exaggerated rates or to wheat at the application rate, 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.

Maximum Residue Limits

The recommendation for maximum residue limits (MRLs) for flumioxazin was based upon the submitted field trial data, and the guidance provided in the [OECD MRL](#)

[Calculator](#). MRLs to cover residues of flumioxazin in/on crops and processed commodities are 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 Limits (MRLs)

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL	Recommended MRL
			LAFT	HAFT			
Dry peas	Foliar 105-112	4-6	<0.02	0.06	Not applicable	Dry field pea: 0.02 ppm	Crop Subgroup 6C: 0.07 ppm
Dry beans	Foliar 102-108	4-6	<0.02	0.05	Not applicable	Dry bean varieties only: 0.05 ppm	
Wheat grain	Foliar 69-74	9-11	0.04	0.30	Bran: 0.9x Flour: 0.1x Germ: 1.0x	Wheat: 0.02 ppm	Wheat: 0.4 ppm

LAFT = Lowest Average Field Trial; HAFT = Highest Average Field Trial

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

Environmental Assessment

The use as a harvest aid to the whole of Crop Subgroup 6C and wheat does not result in an increase in the application rate; therefore, this change is covered in the current risk assessment for flumioxazin. The addition of lentils also falls within the current use pattern. There is no increase in risk and environmental concerns are mitigated through existing label statements.

Value Assessment

These uses will provide existing users additional flexibility with regards to rates and re-cropping, and give lentil growers a new option for weed control. The value information provided including small plot field trial data (new and previously submitted), scientific rationale based upon mode of action, similarity to presently registered uses in Canada, and uses registered abroad as described in production guides and weed control publications and US labels, supports all the uses.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and is able to support the amendments to the registration of Flumioxazin 51WDG Herbicide.

References

PMRA

References

Document

Number

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