

Evaluation Report for Category B, Subcategory 3.7 Application

Application Number: 2019-1319
Application: Changes to Product Labels - Pre-Grazing Interval
Product: Esplanade SC Herbicide
Registration Number: 31333
Active ingredient (a.i.): Indaziflam
PMRA Document Number: 3100795

Purpose of Application

The purpose of the application was to amend the product label of Esplanade SC Herbicide regarding the preharvest interval for grazing and hay production. Esplanade SC Herbicide is registered for pre-emergent weed control in non-residential and non-crop areas.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

Residue data for indaziflam in/on grass forage and hay were submitted to support the amendment on the Esplanade SC Herbicide label to allow grazing and hay production immediately following one application on non-croplands for weed control. Residue data from field trials conducted in the United States were submitted to support the Canadian use of Esplanade SC Herbicide on non-cropland vegetation. Indaziflam was applied to pasture grass at the registered application rate, and harvested immediately following application according to label directions. In addition, a dairy cattle feeding study involving treated feed was reviewed to determine the potential for transfer of residues of indaziflam into ruminant commodities.

Maximum Residue Limit

The recommendation for maximum residue limits (MRLs) for indaziflam on livestock are based upon the submitted field trial data for pasture grass and the ruminant feeding study.

Table 1. Summary of Field Trial Used to Support Maximum Residue Limits (MRLs) in Animal Commodities.

Commodity	Application Method / Total Application Rate (g a.i./ha)	PHI (days)	Residues ¹ (ppm)	
			LAFT	HAFT
Grass forage	Foliar broadcast / 72-76	0	3.04	17.1
Grass hay		0-89	<0.01	20.4

¹ Combined residues of indaziflam and 1-fluoroethyl diaminotriazine (FDAT), expressed as parent equivalent.

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

Based on the dietary burden calculated using the residue data in Table 1, MRLs of 0.01 ppm in milk and meat of cattle, goats, horses, and sheep; 0.05 ppm in fat of cattle, goats, horses, and sheep; and 0.15 ppm in meat byproducts of cattle, goats, horses, and sheep to cover residues of indaziflam are proposed (Table 2).

Table 2. Summary of Proposed MRLs for Indaziflam Residues in Ruminant Commodities.

MRL (ppm)	Food Commodity
0.01	Meat of cattle, horses, sheep, and goats; Milk
0.05	
0.15	
	Meat byproducts of cattle, horses, sheep, and goats

Following the review of all available data, MRLs as proposed in Table 2 are recommended to cover residues of indaziflam. Residues in these livestock 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

An environmental assessment was not required for this application.

Value Assessment

A value assessment was not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to amend the product label of Esplanade SC Herbicide regarding the preharvest interval for grazing and hay production.

References

PMRA Document Number	Reference
2977394	2018, An Analytical Method for the Determination of Residues of Indaziflam and its metabolites Indaziflam-acid, BCS-CA59465, BCS-DF21263 and Indaziflam-triazinediamine in Animal Matrices Using LC/MS/MS, DACO: 7.2.1
2977395	2018, Independent Laboratory Validation (ILV) of Analytical Method DH-009-A1 8-01 for the Determination of Indaziflam and its Metabolites Indaziflam-acid, BCS-CA59465, BCS-DF21263 and Indaziflam-triazinediamine in Animal Tissue Matrices Using LC/MS/MS, DACO: 7.2.2, 7.2.3
2977396	2018, Alion (Indaziflam) - Magnitude of Residue in Pasture and Rangeland Grasses (Crop Group 17), DACO: 7.4.1, 7.4.2
2977398	2018, Indaziflam - Magnitude of the Residue in Dairy Cows - Final Report, DACO: 7.5

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