

## Evaluation Report for Category B, Subcategory 3.6, 3.12 Application

**Application Number:** 2016-3131  
**Application:** Changes to product label: New pre-harvest interval, new site  
**Product:** Closer Insecticide  
**Registration Number:** 30826  
**Active ingredients (a.i.):** Sulfoxaflor  
**PMRA Document Number:** 2804222

### Purpose of Application

The purpose of this application was to amend the label of Closer Insecticide to include control of aphids on corn and sorghum and to amend the pre-harvest intervals.

### Chemistry Assessment

A Chemistry assessment was not required for this application.

### Health Assessments

A toxicological assessment was not required for this application.

The occupational exposure and risk from the addition of the use on corn (field, sweet, seed and popping) and sorghum to the Closer Insecticide label was assessed. No health risks of concern are expected from the new uses, provided that workers follow the label directions and wear the personal protective equipment identified on the label.

Residue data from field trials conducted in the United States, in growing regions that are representative of Canada, were submitted to support the use of Closer Insecticide on corn (field, sweet, popping, and seed) and sorghum. Sulfoxaflor was applied to corn and sorghum at exaggerated rates, and harvested according to label directions. In addition, a processing study in treated corn was reviewed to determine the potential for concentration of residues of sulfoxaflor into processed commodities.

### Maximum Residue Limits

The recommendation for maximum residue limits (MRLs) for sulfoxaflor was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). MRLs to cover residues of sulfoxaflor 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).

<b>TABLE 1 Summary of Field Trial and Processing Data Used to Support Maximum Residue Limit(s) (MRLs)</b>							
<b>Commodity</b>	<b>Application Method/ Total Application Rate (g a.i./ha)</b>	<b>PHI (days)</b>	<b>Residues (ppm)</b>		<b>Experimental Processing Factor</b>	<b>Currently Established MRL (ppm)</b>	<b>Recommended MRL (ppm)</b>
			<b>LAFT</b>	<b>HAFT</b>			
Field corn	Foliar application / 98-104 g a.i./ha	13-15	<0.01	0.01	No quantifiable residues observed when treated at exaggerated rate.	None	0.01 (Field corn and Popcorn grain)
Sorghum	Foliar application / 96-102 g a.i./ha	13-14	0.02	0.15			0.3 (Sorghum)
Sweet corn	Foliar application / 99-102 g a.i./ha	7-8	<0.01	<0.01	Not required		0.01 (Sweet corn kernels plus cob with husks removed)

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

Following the review of available data, MRLs as proposed in Table 1 are recommended to cover residues of sulfoxaflor. 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**

No new data were required in support of this use expansion. The use of the product following this use expansion is not expected to increase environmental risk when compared to the previously registered use pattern. Environmental statements on the product label are sufficient to address environmental concerns.

### **Value Assessment**

Field trials and extrapolation from registered uses supported ground and aerial applications of Closer Insecticide to control aphids on corn and sorghum at 75-150 mL product per hectare.

## **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support applications of Closer Insecticide to control aphids on corn and sorghum and to amend the preharvest intervals.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
2651178	2016, Efficacy & Safety of sulfoxaflor, Control of Aphids, Corn & Sorghum, DACO: 10.1, 10.2, 10.2.1, 10.2.2, 10.3, 10.3.1
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1913109	AHETF, 2009. Agricultural Handler Exposure Scenario Monograph: Open Cab Groundboom Application of Liquid Sprays. Report Number AHE1004. December 23, 2009.
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2572745	2015, AHETF. Agricultural Handler Exposure Scenario Monograph: Open Pour Mixing and Loading of Liquid Formulations. Report Number AHE1003-1. March 31, 2015.
2290229	2012, ARTF. Determination of Dermal and Inhalation Exposure to Re-entry Workers During Harvesting in Sweet Corn in the Southwest. Report Number AR1033. June 13, 2012.
2259312	1999, ARTF. Determination of Dermal and Inhalation Exposure from Chlorothalonil to Re-entry Workers During Harvesting in Sweet Corn. Report Number ARF010. Oct.1, 1999.
2651175	2013, Magnitude of Sulfoxaflor & Metabolite Residues in Raw & Processed Commodities Following Application of GF-2372 to Corn, DACO: 7.4.1
2651176	2013, Magnitude of Sulfoxaflor And Metabolite Residues Following Application of GF-2372 To Sorghum (Revision), DACO: 7.4.1
2651177	2015, Magnitude of Sulfoxaflor And Metabolite Residues Following Application of GF-2372 to Sweet Corn, DACO: 7.4.1

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