

## Evaluation Report for Category B, Subcategory 5.0 Application

**Application Number:** 2017-6413  
**Application:** New Maximum Residue Limit (MRL) for previously assessed technical active ingredient.  
**Product:** Spiromesifen Technical Insecticide-Miticide  
**Registration Number:** 28589  
**Active ingredients (a.i.):** Spiromesifen  
**PMRA Document Number:** 2943472

### Purpose of Application

The purpose of this application was to establish an import maximum residue limit (MRL) for green coffee treated with spiromesifen.

### Chemistry, Environmental, and Value Assessments

Chemistry, environmental, and value assessments were not required for this application.

### Health Assessments

Residue data for total spiromesifen residues in green coffee beans imported from Guatemala, Colombia, Mexico and Brazil were submitted to support the maximum residue limit. Previously reviewed analytical methodology and submitted storage stability data for plant matrices were assessed in the framework of this petition. In addition, a processing study in treated green coffee beans was reviewed to determine the potential for concentration of residues of spiromesifen and BSN2060-enol into processed commodities.

### Maximum Residue Limit

The recommendation for the maximum residue limit (MRL) for spiromesifen was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). The MRL to cover total residues of spiromesifen in/on green coffee beans is proposed as shown in Table 1.

<b>TABLE 1 Summary of Field Trial Data Used to Support the Maximum Residue Limit (MRL)</b>							
<b>Commodity</b>	<b>Application Method/ Total Application Rate</b>	<b>PHI (days)</b>	<b>Total Residues<sup>1</sup> (ppm)</b>		<b>Experimental Processing Factor</b>	<b>Currently Established MRL (ppm)</b>	<b>Recommended MRL (ppm)</b>
			<b>LAFT</b>	<b>HAFT</b>			
Green coffee beans	Foliar / 0.285-0.294 kg ai/ha/season	20-21	<0.02	0.120	None	None	0.2

PHI = postharvest interval. LAFT = lowest average fields trial, HAFT = highest average field trial

<sup>1</sup> Total residues = sum of spiromesifen and BSN2060-enol (in parent equivalents)

Following the review of all available data, the MRL as proposed in Table 1 is recommended to cover total residues of spiromesifen. Total residues in green coffee beans at the proposed MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to recommend an import MRL of 0.2 ppm for green coffee beans.

## References

### PMRA

#### Document

Number	Reference
2814279	2016, Storage stability of Spiromesifen (BSN 2060) and its metabolite Spiromesifen-enol (BSN 2060-enol) in/on dry bean, coffee and citrus during freezer storage for up to 24 months, DACO: 7.3
2814280	2015, Oberon 240 SC - Magnitude of the Residue in/on Coffee: U.S., Canada and E.U. Import Tolerances, DACO: 7.4,7.4.1,7.4.2
2814281	2014, Determination of residues of Spiromesifen in Coffee culture after application of OBERON in field trials in Brazil, DACO: 7.4,7.4.1,7.4.2
2814282	2015, Oberon 240 SC Magnitude of the Residue in/on Coffee Processed Commodities: U.S., Canada and E.U. Import Tolerances, DACO: 7.4.5

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