

## **New or Changes to Product Labels – New Pests Evaluation Report for Category B, Subcategory 3.11 Application**

**Application Number:** 2016-1011  
**Application:** B.3.11  
**Product:** Helix Vibrance Insecticide and Fungicide Seed Treatment  
**Registration Number:** 31454  
**Active ingredients (a.i.):** 269 g/L of thiamethoxam, 16 g/L of difenoconazole, 5 g/L of metalaxyl-M (and S-isomer), 3.4 g/L sedaxane, and 1.7 g/L fludioxonil; 20.70%  
**PMRA Document Number:** 3295755

### **Background**

Helix Vibrance Insecticide and Fungicide Seed Treatment is a commercial-class agricultural insecticide and fungicide seed treatment suspension containing 20.70% thiamethoxam, 1.25% difenoconazole, 0.39% metalaxyl-M (and S-isomer), and 0.13% fludioxonil. Helix Vibrance Insecticide and Fungicide Seed Treatment is applied to provide control of various fungal pests and flea beetles in canola, rapeseed, and mustard seed (condiment and oilseed).

### **Purpose of Application**

The purpose of this application was to add a claim for control of leafhoppers to the Helix Vibrance Insecticide and Fungicide Seed Treatment label for canola, rapeseed, and mustard seed (condiment and oilseed) at a rate of 1.5 L product (400 g thiamethoxam) per 100 kg seed.

### **Chemistry Assessment**

Not required.

### **Health Assessments**

Not required.

### **Environmental Assessment**

Not required.

## **Value Assessment**

The value information submitted in support of the addition of control of leafhoppers included data from seven trials conducted in Saskatchewan which tested the efficacy of Helix XTra Seed Treatment for control of leafhoppers. Helix XTra is a seed treatment product which is similar to Helix Vibrance Insecticide and Fungicide Seed Treatment, but does not contain the fungicide active ingredient sedaxane. Therefore, extrapolation of product performance for leafhoppers from data conducted on Helix XTra Seed Treatment to product performance of Helix Vibrance Insecticide and Fungicide Seed Treatment is acceptable. These trials included both laboratory bioassays on canola and field trials on canola mustard and hybrid canola. Laboratory trials took into consideration soil moisture, testing both wet and dry regimes, as an interaction was observed on soil moisture and level of leafhopper mortality. The results of the trials demonstrated that applications of Helix XTra Seed Treatment at a rate of 1.5 L product (containing 400 g thiamethoxam) per 100 kg seed provided control of leafhoppers in canola and canola mustard (96 to 100% control after 72 hr exposure to treated plants). The trials which compared soil moisture found that dry soil regimes provided 89 to 99% mortality after 24 hours exposure, while the wet soil regimes took up to 72 hours to have similar results. The submitted value information was sufficient to support the addition of a new claim for control of leafhoppers at an application rate of 1.5 L product per 100 kg seed for canola and Oriental mustard (condiment types) to the Helix Vibrance Insecticide and Fungicide Seed Treatment label.

## **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Helix Vibrance Insecticide and Fungicide Seed Treatment, and has found the information sufficient to add a new claim for control of leafhoppers at an application rate of 1.5 L product per 100 kg seed for canola, rapeseed, and mustard seed (condiment and oilseed) to the product label.

## References

- 2609120 2016, Value summary for Helix Vibrance and Helix XTra- Add leafhoppers, DACO: 10.1, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.3, 10.3, 10.3.1, 10.3.2, 10.3.3, 10.4, 10.5, 10.5.3, 10.5.4
- 2609121 2016, Value data- Add leafhoppers, DACO: 10.2.3.1
- 2609122 2015, Laboratory and field evaluation of seed treatments for control of aster leafhoppers, suppression of aster yellow symptoms and improvement in seed yield, DACO: 10.2.3.2
- 2609123 2015, Laboratory and field evaluation of seed treatments for control of aster leafhoppers, suppression of aster yellow symptoms and improvement in seed yield- Table Addendum, DACO: 10.2.3.2

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