

## Evaluation Report for Category B, Subcategory 3.11 and 3.12 Application

**Application Number:** 2012-1824  
**Application:** Changes to product label: New pest and site/host  
**Product:** Bioprotec CAF Aqueous Biological Insecticide  
**Registration Numbers:** 26854  
**Active ingredients (a.i.):** *Bacillus thuringiensis* ssp. *kurstaki* strain EVG113-19  
**PMRA Document Number:** **2210504**

### Background

Bioprotec CAF Aqueous Biological Insecticide (Registration number 26854) is a commercial and restricted class end-use product containing the active ingredient *Bacillus thuringiensis* ssp. *kurstaki* strain EVG113-19 (formerly designated as strain HD-1). Bioprotec CAF Aqueous Biological Insecticide is registered for use as a biological insecticide on a wide range of field, orchard, and greenhouse agricultural crops as well as on forests, woodlands, residential and other treed areas.

### Purpose of Application

The purpose of this application was to amend the registration of Bioprotec CAF Aqueous Biological Insecticide to include the control of leek moth on chives, garlic, green onions, leeks, onions and shallots.

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

The toxicological database for *Bacillus thuringiensis* ssp. *kurstaki* strain EVG113-19 is complete and there are no outstanding toxicological concerns for this active ingredient. Based on the evaluation of information previously submitted by the registrant in support of Bioprotec CAF Aqueous Biological Insecticide and given that the proposed use scenario is consistent with registered uses, no additional risks to human health and safety are expected as a result of the proposed new uses.

As the application method, application rates and label statements are consistent with those already registered for Bioprotec CAF Aqueous Biological Insecticide, there are no additional occupational exposure concerns due to the proposed additional uses for Bioprotec CAF Aqueous Biological Insecticide.

Based on the evaluation of information previously submitted by the registrant in support of Bioprotec CAF Aqueous Biological Insecticide and given that the proposed use scenario is consistent with registered uses, no additional dietary risks are expected as a result of the proposed new uses.

### **Environmental Assessment**

The environmental database for *Bacillus thuringiensis* ssp. *kurstaki* strain EVG113-19 is complete and there are no outstanding environmental concerns for this active ingredient. Based on the evaluation of information previously submitted by the registrant in support of Bioprotec CAF Aqueous Biological Insecticide and given that the proposed use scenario is consistent with registered uses, additional risks to the environment are not expected as a result of the proposed new uses.

### **Value Assessment**

Efficacy data from two small-scale field trials conducted in Ontario in 2006 showed that Bioprotec CAF Aqueous Biological Insecticide applied at rates of 1.4-2.8 L/ha seven days after peak moth flight, as indicated by pheromone trap catches, can significantly reduce both damage and larval infestation by leek moth on both garlic and onion, with results comparable to the current commercial standards. Addition of leek moth to the label of Bioprotec CAF Aqueous Biological Insecticide provides a new alternative active ingredient for management of this pest in Canada.

### **Conclusion**

The PMRA has completed an assessment of available information for Bioprotec CAF Aqueous Biological Insecticide and has found the information sufficient to amend the label to include the control of leek moth on chives, garlic, green onions, leeks, onions and shallots.

## References

- 2189535 Evaluation of organic and conventional insecticides for control of leek moth on garlic and onion, 2006. DACO: M10.2.2

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