

Evaluation Report for Category B, Subcategory 2.1 and 4.6 Application

Application Number: 2010-1049
Application: Submission to fulfill a condition of registration on a product with full registration – Change in product chemistry guarantee
Product: Bioprotec CAF Aqueous Biological Insecticide
Registration Numbers: 26854
Active ingredients (a.i.): *Bacillus thuringiensis* subsp. *kurstaki* strain EVB113-19
PMRA Document Number : 2090825

Background

Bioprotec CAF Aqueous Biological Insecticide (Registration Number 26854) is a commercial class end-use product containing *Bacillus thuringiensis* (Bt) subsp. *kurstaki* strain EVB113-19 as its active ingredient. Bioprotec CAF Aqueous Biological Insecticide is registered for the control of lepidopteran pests on agricultural and greenhouse crops, forests, woodlands, ornamentals, residential and other treed areas.

Purpose of Application

The purpose of this application was to amend the Bioprotec CAF Aqueous Biological Insecticide label as per the requirements outlined in PACR2006-09: *Re-evaluation of Bacillus thuringiensis*, RVD2008-18: *Bacillus thuringiensis* and REV2010-06: *Update of Re-evaluation of Bacillus thuringiensis*.

Re-evaluation Note REV2010-06 states that until a recognized global potency standard for *Bacillus thuringiensis* subspecies *kurstaki* insecticides is established, the guarantee sections of the product labels must not imply a standardized or international potency unit (e.g. billion international units). Instead, the guarantee sections of the product labels must specify a company-specific strain (or other appropriate) designation of *B. thuringiensis* for the active ingredient. Under the current submission the applicant has changed the expression of the guarantee on the label from a potency unit (IU, BIU) to a percent weight.

Chemistry Assessment

As a result of the Bt re-evaluation, registrants were required to provide a company-specific strain designation of Bt for the active ingredient. The active ingredient in Bioprotec CAF Aqueous Biological Insecticide has been re-designated as *B. thuringiensis* subsp. *kurstaki* strain EVG113-19.

Furthermore, product guarantees for Bt-based products can no longer reference an international unit. The registrant has opted to express the guarantee as a minimum of 8.12% dry weight. This

is considered to be equivalent to the previous guarantee of 11400 international units (IU)/mg. The guarantees for five batches of Bioprotec CAF Aqueous Biological Insecticide were submitted and found to be acceptable.

Health and Environmental Assessments

Health and environmental assessments were not required for this assessment.

Value Assessment

The change in the expression of guarantee to a % w/w for Bioprotec CAF Aqueous Biological Insecticide is supported from a value and sustainability perspective since no changes were made to the product potency, formulation or directions for use.

Conclusion

The information and data submitted in support of this submission to fulfill the requirements identified by the Bt re-evaluation for Bioprotec CAF Aqueous Biological Insecticide have been reviewed and were found to be adequate.

References

PMRA Document Number	Reference
2014281	2011, Batch data, DACO: 2.13.3 CBI
2014286	2011, SOP, DACO: 2.13.1 CBI

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