

## Evaluation Report for Category B, Subcategory 4.1 Application

**Application Number:** 2013-5489  
**Application:** Conversion to full registration without consultation  
**Product:** Emesto Quantum  
**Registration Number:** 30362  
**Active ingredients (a.i.):** Clothianidin, Penflufen  
**PMRA Document Number:** 2699803

### Background

Clothianidin was first conditionally registered in Canada as an agricultural seed treatment product in 2003. As part of the registration conditions, a hive study conducted under field conditions was requested to examine the long-term effects of clothianidin on honey bee colonies foraging on clothianidin treated canola. Nine higher tiered semi-field and field studies were reviewed under the initial application to register clothianidin and under subsequent applications. The studies did not indicate any significant effect on honey bees; however, all of the studies were found to be deficient in design or were limited and an additional hive study was requested.

### Purpose of Application

The purpose of this application was to fulfill the condition of registration Emesto Quantum and convert to full registration.

### Chemistry, Health and Value Assessments

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

### Environmental Assessment

A submitted higher tiered field study conducted with honey bee hives was reviewed and found to be insufficient to support the conversion of Emesto Quantum from conditional to full registration for the following reasons:

- The hive study did not indicate any significant effect on honey bee colonies; however, the results of the study were considered limited due to some uncertainties associated with exposure levels.
- Since the submission of the subject application, the pollinator risk assessment framework has been updated. In light of these updates, which include changes in the information required, additional information to characterize the risks of pesticides to honey bees and other non-*Apis* bees in accordance with the framework is required.

## **Conclusion**

The PMRA has completed an evaluation of the subject application and has found that the submitted data are insufficient to support the conversion of Ernesto Quantum from conditional to full registration at this time. Additional information is required as issued in a Section 12 Notice.

## References

- 2352001 2013, Interim Report: Potential Long-Term Influences of Clothianidin-treated Canola Seed Plantings on Honey Bees (*Apis mellifera* L.), DACO: 9.2.9
- 2357346 2013, Potential Long-term Influences of Clothianidin-treated Canola Seed Plantings on Honey Bees (*Apis mellifera* L.), DACO: 9.2.9

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