

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

**Application Number:** 2018-1300  
**Application:** B.11: New Pests  
B.12: New Site or Host  
**Product:** Met52 EC Bioinsecticide  
**Registration Number:** 30829  
**Active ingredients (a.i.):** *Metarhizium anisopliae* strain F52  
**PMRA Document Number :** 2981662

### Purpose of Application

The purpose of this application was to add the claims to reduce numbers of specific pests on greenhouse strawberry and to reduce numbers of specific pests on greenhouse ornamentals to the Met52 EC Bioinsecticide label.

### Chemistry Assessment

Chemistry assessment was not required for this application.

### Health Assessments

Since there are no changes in the formulation of Met52 EC Bioinsecticide and the human health and safety database for this end-use product (EP) is considered complete, no additional toxicological information is required. The changes, including a new host and pests, are consistent with registered uses of Met52 EC Bioinsecticide. The potential for dietary and occupational exposure from these changes is not expected to increase, and therefore, no additional exposure information is required.

### Maximum Residue Limit (MRL)

As part of the assessment process prior to the registration of a pesticide, Health Canada must determine that the consumption of the maximum amount of residues that are expected to remain on food products when a pesticide is used according to label directions will not be a concern to human health. This maximum amount of residues expected is then legally specified as an MRL under the Pest Control Products Act (PCPA) for the purposes of adulteration provision of the Food and Drugs Act (FDA). Health Canada specifies science-based MRLs to ensure the food Canadians eat is safe.

When *Metarhizium anisopliae* strain F52 was administered orally to rats, no signs of toxicity or disease were observed. Although *Metarhizium anisopliae* strain F52 can produce toxic metabolites, analytical data were submitted showing that these were not detected in the technical grade active ingredient. Furthermore, the growth of *Metarhizium anisopliae* strain F52 on insect hosts is unlikely to result in residues of metabolic byproducts occurring on

food commodities. Therefore, the establishment of an MRL is not required for *Metarhizium anisopliae* strain F52.

### **Environmental Assessment**

Since there are no changes to the formulation of Met52 EC Bioinsecticide and the environmental toxicological database for this end-use product (EP) is considered complete, no additional environmental toxicological information is required. Previously submitted information indicates that the use of Met52 EC Bioinsecticide for terrestrial and greenhouse crops does not pose an environmental risk of concern to non-target organisms if the directions on the label are followed.

These changes, including a new host and pests, are consistent with registered uses of Met52 EC Bioinsecticide.

### **Value Assessment**

Data from 26 efficacy trials provided support for the label claims to reduce numbers of spider mites and whiteflies on greenhouse strawberry and to reduce numbers of spider mites, thrips, whiteflies, and aphids on greenhouse ornamentals (excluding conifers) by foliar application at concentrations of 0.5 – 5.0 L / 1000 L, with recommended reapplication intervals of 5-10 days and no limit on the number of applications.

### **Conclusion**

The PMRA has reviewed the information provided in support of the new pest claims on greenhouse ornamentals. Based on the results of this review, the claims to reduce numbers of specific pests on greenhouse strawberry and to reduce numbers of specific pests on greenhouse ornamentals is acceptable for registration.

### **References**

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