

# **Evaluation Report for Category B, Subcategories 2.3, 2.4 Application**

**Application Number:** 2021-5858

**Application:** Changes to End-use Product (Product Chemistry)-Identity and

**Proportion of Formulants** 

**Product:** Botanigard 22WP

**Registration Number:** 29321

**Active ingredient (a.i.):** Beauveria bassiana strain GHA

PMRA Document Number: 3578461

### **Purpose of Application**

The purpose of this application was to amend the registered formulation and add an alternate formulation for Botanigard 22WP.

### **Product Characterization and Analysis**

The data provided was acceptable to support the new formulations of Botanigard 22WP. Data from a sufficient number of acceptable batches were provided to support the new product guarantee for the new formulations of Botanigard 22WP.

### **Health Assessment**

No new data on *Beauveria bassiana* strain GHA were submitted in support of the new formulations for Botanigard 22WP. In previous reviews, *Beauveria bassiana* strain GHA in Botanigard 22WP, was found to be of low toxicity and was not infective when administered via the oral, pulmonary (instillation) and intraperitoneal routes, but was considered to be a mild ocular irritant. Botanigard 22WP was found to be of low toxicity by the oral route and to be a mild skin irritant and moderate ocular irritant. The new formulants are not expected to impact the toxicity profile via the oral, dermal or ocular routes. As is the case for all microorganisms, *Beauveria bassiana* strain GHA was considered to be a potential sensitizer.

Botanigard 22WP is currently registered for use on ornamentals, vegetables, herbs, strawberries and wasabi produced in greenhouses, as well as on cannabis that is produced commercially indoors, for the control of whiteflies, aphids and thrips. Botanigard 22WP is applied using spray equipment at rates ranging from 250-1kg/400L spray volume or as a pre-plant dip.

The new formulations do not present an increased dietary or occupational risk. As the use site (greenhouse), rate, method, interval and timing of application remains the same as the current registered uses of Botanigard 22WP on food crops, an occupational exposure assessment was not required. The risks from occupational and dietary exposures associated with the new formulations of Botanigard 22WP are acceptable.



The available information is sufficient to support the labeled use of the new formulations of Botanigard 22WP on the currently registered ornamental and greenhouse food crops.

For the new formulations of Botanigard 22WP, the potential consumer exposure to residues remaining on treated cannabis or the pyrolysis by-products of these residues in smoke or vapour was assessed. Applications to the growing media (drench) of cannabis plants grown indoors and dip treatment for cuttings were supported by the available information. Foliar application of Botanigard 22WP must be limited to the vegetative stage of growth of cannabis plants, which includes plants grown for propagation.

### **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 the adulteration provision of the *Food and Drugs Act* (FDA). Health Canada specifies science-based MRLs to ensure the food Canadians eat is safe.

Residues of *Beauveria bassiana* strain GHA on treated food crops are possible at the time of harvest. Dietary risk to humans from use of the new formulations of Botanigard 22WP is acceptable due to the low toxicity profile of *Beauveria bassiana* strain GHA and Botanigard 22WP, and as the level of beauvericin on treated food commodities is expected to be negligible. In addition, the likelihood of residues contaminating drinking water supplies is negligible to non-existent.

Therefore, the PMRA has determined that specification of an MRL under the *Pest Control Products Act* is not required for *Beauveria bassiana* strain GHA.

#### **Environmental Assessment**

An environmental assessment was not required for this application.

#### **Value Assessment**

The new formulations of Botanigard 22WP were supported by a scientific rationale that compared them to the earlier formulation and demonstrated that similar performance can be expected when applied following the same use pattern.

#### Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the amendment of the registered formulation and to add an alternate formulation to Botanigard 22WP.

## References

PMRA	
Document	
Number	Reference
3335551	2022, Rationale To Support Bridging Of Data For Botanigard 22WP, DACO:
	M10.5 CBI
3408080	2022, Three Lot Analysis of Two Formulations of a WP product, BotaniGard
	22WP and Three Lot Analysis of One Formulation of an ES product,
	BotaniGard ES, DACO: M2.9.2 CBI
3510469	2023, Use Description/Scenario (Application and Post Application) for
	Application of Botanigard 22WP on Cannabis, DACO: 5.2
3510471	2023, Residues on Cannabis following Applications of Botanigard 22WP,
	DACO: 7.4.1
3510472	2023, Botanigard 22WP: Request for a Waiver from the Requirements for
	Pyrolysis Testing, DACO: 7.8 CBI

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