

Evaluation Report for Category B, Subcategory 3.11 Application

Application Number: 2017-5729
Application: New or Changes to Product Labels – New pests
Product: Vibrance Quattro
Registration Number: 31408
Active ingredients (a.i.): Difenoconazole (DFZ), fludioxonil (FLD), metalaxyl-M and S-isomer (MFN) and sedaxane (SDX)
PMRA Document Number: 2844144

Background

Vibrance Quattro contains four fungicides: difenoconazole, sedaxane, metalaxyl-M and S-isomer and fludioxonil. It is designed for on-farm and commercial seed treatment use for the control or suppression of certain seed-and soil-borne diseases on small-grain cereal crops (wheat, barley, oats, rye and triticale). A single treatment rate of 325 mL product/100 kg seed is registered for use on all cereal crops.

Purpose of Application

The purpose of this application is to expand the registration of Vibrance Quattro for the control of seed-borne *Cochliobolus sativus* on cereal crops (Crop Group 15, including barley, oats, rye, triticale and wheat) at a rate of 325 mL product/100 kg seed.

Chemistry, Health and Environmental Assessment

A chemistry assessment was not required since there was no change to product chemistry. Health and environment assessments were not required since the use pattern remained unchanged.

Value Assessment

Bioassay data from laboratory trials and a rationale were provided in support of the use claims of Vibrance Quattro. Data from the bioassays demonstrated that Vibrance Quattro reduced the seed infection caused by *Cochliobolus sativus*; however, this testing method is not representative of product performance under actual field conditions. Vibrance Quattro is currently registered for suppression of common root rot caused by the same pathogen at the same application rate for seed treatment, and also registered for the control of other seed-borne diseases. As such, the claim can be supported based on the extrapolation rationale.

The registration of this new use will provide Canadian growers with a new end use product to manage seed-borne *Cochliobolus sativus* on cereal crops.

Conclusion

Based on scientific rationale and the weight of evidence, the claims of suppression of seed-borne *Cochliobolus sativus* on cereal crops are supported.

References

- 2807237 2017, Value summary - add seed-borne *C. sativus* to the label, DACO:10.1
2807239 2017, Trial abstracts - add seed-borne *C. sativus* to the label, DACO:10.2.3.2

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