

Evaluation Report for Category B, Subcategory 3.11 Application

Application Number: 2016-3077, 2016-3078
Application: Changes to Product Label – New pests
Product: Vibrance Quattro Seed Treatment, Cruiser Vibrance Quattro Seed Treatment
Registration Number: 31408, 31453
Active ingredients (a.i.): difenoconazole, sedaxane, metalaxyl-m & s-isomer, and fludioxonil [DFZ, SDX, MFN, FLD]; difenoconazole, sedaxane, metalaxyl-m & s-isomer, fludioxonil, and thiamethoxam [DFZ, SDX, MFN, FLD, THE]
PMRA Document Number: 2691255

Background

Vibrance Quattro Seed Treatment (Reg. No. 31408) is a suspension formulation containing four fungicide active ingredients (difenoconazole, sedaxane, metalaxyl-m & s-isomer, and fludioxonil). The product was first registered in June 2014 and is labelled for the control or suppression of seed and seedling diseases of cereal crops incited by seed- and soil-borne pathogens such as *Fusarium* spp., *Rhizoctonia* spp., *Pythium* spp., *Cochliobolus sativus*, *Penicillium* spp., and *Aspergillus* spp., as well as smut, bunt, and take-all.

Cruiser Vibrance Quattro Seed Treatment (Reg. No. 31453) is also a suspension formulation containing the same fungicide active ingredients as Vibrance Quattro Seed Treatment with the addition of thiamethoxam insecticide. This product was first registered in September 2014 and includes the same disease claims as Vibrance Quattro Seed Treatment, plus insecticide claims against wireworms and European chafer.

Purpose of Application

The purpose of these applications is to add the claim of control of seed-borne *Alternaria* spp. on cereal crops (wheat, barley, oats, rye, and triticale) to both the Vibrance Quattro Seed Treatment and Cruiser Vibrance Quattro Seed Treatment labels.

Chemistry, Health and Environmental Assessments

A chemistry assessment was not required since there was no change to product chemistry. Health and environmental assessments were not required since the use pattern, including host crop, application rates and timings, of the component product remained unchanged.

Value Assessment

Two lab trials were submitted to support the claim. The efficacy trials demonstrate control of *Alternaria alternata* on wheat seed as a result of treatment with Vibrance Quattro Seed Treatment at the proposed rate. *Alternaria alternata* is known to infect many different crops, including wheat, barley, oats, rye, and triticale. As such, the claim of control of seed-borne *Alternaria alternata* can be extrapolated from wheat to the other cereal crops. Since Cruiser Vibrance Quattro Seed Treatment contains the same fungicide active ingredients delivered at the same rates, the use was extrapolated to this product label as well.

The addition of seed-borne *Alternaria alternata* to the product label provides growers with an additional pest claim, increasing the spectrum of diseases targeted on cereal crops by the seed treatment. Control of seed-borne *Alternaria alternata* may reduce the need for a foliar spray to control this disease, thereby reducing pesticide load in the environment. Also, currently registered alternative seed treatments for control of *Alternaria* spp. on cereal crops are proposed for discontinuation.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the products, Vibrance Quattro Seed Treatment and Cruiser Vibrance Quattro Seed Treatment, and has found the information sufficient to support the addition of the claim of control of seed-borne *Alternaria alternata* on cereal crops (wheat, barley, oats, rye, and triticale) to both product labels.

References

- 2650512 2016, Value summary - add seed-borne *Alternaria* to the label, DACO:
10.1
- 2650514 2016, trial abstracts - add seed-borne *Alternaria* to the label, DACO:
10.2.3.2

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