

## Evaluation Report for Category C, Subcategory 3.11 Application

**Application Number:** 2013-1945  
**Application:** New or Changes to Product Labels – New Pest  
**Product:** Civitas Fungicide for Golf Course Turf  
**Registration Number:** 29825  
**Active ingredients (a.i.):** Mineral oil (MOI)  
**PMRA Document Number:** 2325628

### Background

Civitas Fungicide for Golf Course Turf, containing 98% mineral oil, is currently registered to control dollar spot, suppress spring leaf spot, and reduce symptoms of grey snow mold and pink snow mold on golf course turf including fairways, greens, roughs and tees at rates of 250 – 930 mL per 100 m<sup>2</sup> in Canada.

### Purpose of Application

The purpose of this application is to add the control of brown patch and anthracnose on golf course turf including fairways, greens, roughs and tees to the Civitas label. The proposed rate for use to control brown patch is 270 – 540 mL/100 m<sup>2</sup> and the rate for use to control anthracnose is 240 – 460 mL/100 m<sup>2</sup>.

### Chemistry, Health and Environmental Assessments

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

### Value Assessment

Four trials on creeping bentgrass and/or annual bluegrass were submitted to support the proposed uses for control of brown patch and anthracnose. Overall, the efficacy trials showed that Civitas at the proposed rates significantly reduced disease severity at the control level and its efficacy was equivalent or superior to the commercial standards applied in the same trials under moderate to severe disease pressure. Mineral oil, the active ingredient in Civitas, is considered to be a non-conventional pesticide, which would be suitable for use on turf to manage certain diseases or in alternation with conventional pesticides in an IPM program. The proposed uses will provide turf managers with more options for effective disease management and for delay of fungicide resistance development. Therefore, the proposed label expansion was supported as proposed. Label amendments are required.

### Conclusion

The results confirmed the value of Civitas on the control of brown patch and anthracnose on golf course turf including fairways, greens, roughs and tees. Levels of control were comparable or superior to the commercial standards applied in the same trials.



## References

- 2289409 2012, Experiments Examining the Efficacy of Civitas for Control of Brown patch and Anthracnose and the Potential for Phytotoxicity, DACO: 10.1,10.2.2,10.2.3.1
- 2289411 2010, Brown Patch and Dollar Spot Control, Cutworm Suppression and Quality In Creeping Bentgrass With Various Petro-Canada Fungicides, 2010, DACO: 10.2.3.3(D)
- 2289412 2011, Dollar Spot and Brown Patch Control and Turfgrass Quality as Impacted by Various Petro Canada Experimental Formulations, 2011, DACO: 10.2.3.3(D)
- 2289413 2010, Management of Anthracnose Basal Rot in a Putting Green with Fungicide, 2010, DACO: 10.2.3.3(D)
- 2289414 A. Brooks, B. Clarke, 2009, 2009 Turfgrass Proceedings, DACO: 10.2.3.3(D)

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