

Evaluation Report for Category B, Subcategory 4.1 Application

Application Number: 2007-8101 and 2007-8099
Application: B.4.1 – Conversion to Full Registration Without Consultation
Product: Triticonazole Technical and Premis 200 F Fungicide
Registration Number: 26454 and 28387
Active ingredients (a.i.): Triticonazole
PMRA Document Number: 1740865

Background

Triticonazole Technical (Reg. No. 26454) and the end-use product Premis 200 F Fungicide (Reg. No. 28387) were granted conditional registration for use on golf course turf in 2006. The condition of registration consisted of chemistry and environmental information.

Purpose of Application

The purpose of these applications is to convert the conditional registration of Triticonazole Technical and Premis 200 F Fungicide for use on golf course turf to full registration.

Chemistry Assessment

1. Triticonazole Technical

Information on establishing the octanol/water partition coefficient and an analytical method for detection of triticonazole and a metabolite in soil/sediment were required as a condition of registration. The information provided has been assessed and determined to be acceptable to address these conditions of registration.

2. Premis 200 F Fungicide

A one year storage stability with Premis 200 F Fungicide under ambient conditions in its commercial container was required. This study was provided and determined to be acceptable.

Environmental Assessment

1. Triticonazole Technical

During the registration for use on golf course turf, it was determined that triticonazole can enter aquatic systems via runoff and spray drift, where it was expected to partition to sediment. No data were provided on the toxicity of triticonazole to sediment-dwelling organisms for the chronic exposure expected. Therefore, data on the chronic toxicity of triticonazole on sediment-dwelling invertebrates was required.

The study provided to address the issue of toxicity of triticonazole on sediment-dwelling invertebrates has been assessed and determined to be acceptable and satisfies the data requirement. The results of this study indicated that triticonazole had no effect on the emergence rate and development rate of midge larvae (*Chironomus riparius*) up to a nominal concentration (overlying water) of 100 µg a.i./L. End points were NOEC and LOEC values for emergence and development of 100 µg a.i./L and > 100 µg a.i./L, respectively.

The initial screening level (direct spray) risk assessment indicated *Chironomus sp.* are at risk with the use of triticonazole in golf course turf with a Risk Quotient (RQ) of 6.2. Therefore, a refined risk assessment was conducted assuming a 6% drift, which results in an EEC of 0.0372 mg a.i./L and an RQ of 0.372. The RQ value indicates that risk to *Chironomus sp.* is acceptable with the use of triticonazole on golf course turf.

Health and Value Assessments

The health, environmental and value assessment for triticonazole use on golf course turf is complete.

Conclusion

Triticonazole Technical and Premis 200 F Fungicide are acceptable for full registration for use on golf course turf.

References

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