



## Evaluation Report for Category C, Subcategory 3.11 Application

**Application Number:** 2011-2337  
**Application:** New or Changes to Product Labels – New Pest  
**Product:** Quilt Fungicide  
**Registration Number:** 28328  
**Active ingredients (a.i.):** Azoxystrobin and Propiconazole  
**PMRA Document Number English PDF:** 2093772

### Background

Quilt Fungicide is a pre-mix formulation of the active ingredients azoxystrobin (75 g /L) and propiconazole (125 g /L). Propiconazole (Tilt 250E, Reg. No. 19346) is already registered to control frogeye leaf spot in soybeans in Canada. Quilt is currently registered in many crops including Crop Group 6. The labelled use rate in Crop Group 6 is 1.0 - 1.5 L/ha, providing control of rust, powdery mildew and anthracnose.

Quilt Fungicide, containing 7% azoxystrobin and 11.7% propiconazole (equivalent to azoxystrobin 75 g /L and propiconazole 125 g /L), is currently registered in the USA (EPA Reg. No. 100-1178) for control of numerous diseases on soybean including frogeye leaf spot at the same rates as proposed on the Canadian label.

### Purpose of Application

The purpose of this application is to add the control of frogeye leaf spot on soybean (Crop Group 6) to the Quilt Fungicide (Reg. No. 28328) label. The proposed rates for frogeye leaf spot are within the current registered label rates. Quilt Fungicide combining two distinct modes of action can provide Canadian growers with an option for effective disease management and to combat fungicide resistance.

### 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

Three trials were reviewed in support of the claim. Overall, the efficacy trials showed that Quilt Fungicide at the proposed rates significantly reduced disease severity and its efficacy was superior to the high rate of Quadris alone in two out of three trials, and superior to Tilt 250E at the lower rate alone in all three trials. Quilt provided control comparable to the commercial standard Headline EC. The data also clearly showed the yield benefits of Quilt application. Noted that the level of control was generally low and all fungicides were applied only once in the trials. Since these fungicides are allowed two applications per season, an overall higher efficacy can be expected if two applications are applied. Quilt Fungicide combining two distinct modes of action can provide Canadian growers with an option for effective disease management and to delay fungicide resistance development. The proposed use on the new pest is accepted.

## Conclusion

The results confirmed the benefit of Quilt Fungicide on the control of frogeye leaf spot (*Cercospora sojina*) on soybean. Both level of control and consistency of control were improved with the pre-mix formulation compared to either active ingredient applied alone.

## References

- PMRA # 2061735, 2011, [CBI removed] Efficacy Summary Report, DACO: 10.2.3.1-1.
- PMRA # 2061737, 2004, [CBI removed] SOY04-01 - Efficacy Report: Quilt: Evaluation in soybeans for disease efficacy and yield, DACO: 10.2.3.3.
- PMRA # 2061738, 2004, [CBI removed] SOY04-02 - Efficacy Report: Quilt: Evaluation in soybeans for disease efficacy and yield, DACO: 10.2.3.3.
- PMRA # 2061739, 2004, [CBI removed] SOY04-03 - Efficacy Report: Quilt: Evaluation in soybeans for disease efficacy and yield, DACO: 10.2.3.3.

ISSN: 1911-8082

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