

Evaluation Report for Category B, Subcategory 3.11 Application

Application Number: 2011-1855
Application: New or Changes to Product Labels – New Pests
Product: Quilt Fungicide
Registration Number: 28328
Active ingredients (a.i.): azoxystrobin, propiconazole [AZY, PON]
PMRA Document Number: 2465153

Background

Quilt Fungicide was first registered in Canada on June 15, 2006. It is currently registered for broad spectrum disease control in legume vegetables, including soybeans, cereals, and corn. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product's label

Purpose of Application

The purpose of this application was to add two additional diseases to the Quilt Fungicide label. Claims for control of mycosphaerella blight and crown rust on peas and oats, respectively, were proposed for the product.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicological assessment was not required for this application.

No new food residue chemistry data were submitted for azoxystrobin and propiconazole to support the addition of new pest claims or to increase the application rate to oats on the Quilt Fungicide label. The addition of new pest claims will have no impact to the dietary exposure of azoxystrobin and propiconazole. To evaluate the increase in application rate to oats, previously reviewed residue data were considered in the context of the current application. The application rate increase on oats can be supported by previously reviewed data on cereal grains. Based on this assessment, dietary exposure to azoxystrobin and propiconazole is not expected to increase and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Quilt Fungicide for use on field peas and oats to control mycosphaerella blight and crown rust fits within the registered use pattern for azoxystrobin and propiconazole. The potential exposure for mixers, loaders, applicators and postapplication re-entry workers is not expected to exceed the current exposure to registered products. No unacceptable risk is expected when workers follow the label directions and wear the personal protective equipment identified on the label.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

Six field efficacy trials conducted in 2009 in Manitoba were submitted in support of the claim for control of crown rust on oats. Twenty-eight days following an application of Quilt Fungicide, reduction of crown rust severity, relative to untreated control plants, ranged from 74-92% and 98-99% for the low (0.75 L/ha) and high rates (1 L/ha), respectively. Yield was also significantly increased by as much as 192%.

Three field efficacy trials conducted in 2010 in Alberta were submitted in support of the claim for control of mycosphaerella blight on peas. The highest level of control was observed under moderate disease pressure where, 21 days after a single application, Quilt Fungicide applied at 1 L/ha and 1.5 L/ha reduced disease severity by 73%. Although overall disease reduction was lower than would be normally expected from a control claim, Quilt Fungicide performance in these trials was equivalent to that of the commercial standard, which is registered for control of mycosphaerella blight and was included as a treatment in all three trials. In addition, it is noted that azoxystrobin, the lone active ingredient in Quadris Flowable Fungicide (Reg. No. 26153), is also registered for control of mycosphaerella blight in dried shelled peas and beans at a rate similar to the one in the subject claim. As further support for the value of this claim, significant yield increases were observed in both the high and low rate Quilt Fungicide treatments. Again, these yield increases were comparable to those obtained from the commercial standard treatment.

Both components of Quilt Fungicide were demonstrated to have activity against crown rust and mycosphaerella blight. As such, this pre-mixed product containing actives with two different modes of action has additional value in that it will provide a useful tool in the management of resistance development in these two diseases.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Quilt Fungicide to include new claims for control of crown rust on oats and mycosphaerella blight on peas.

References

PMRA#

2047194 Efficacy Summary. 2011. 18 pp.

2047195 Efficacy Summary Tables – Excel. 2011. 3 pp.

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