



Evaluation Report for Category B, Subcategory 3.1 Application

Application Number: 2007-2062
Application: Cat B.3.1 - New or Changes to Product Labels-Application Rate Increase
Product: PQ-8 Liquid Fungicide Concentrate
Registration Number: 12143
Active ingredients (a.i.): copper-8-quinolinolate (CUQ)
PMRA Document Number: 1539799

Purpose of Application

The purpose of this application is to address the outstanding issues resulting from the re-evaluation of copper-8-quinolinolate (CUQ), an antisapstain active ingredient. As an outcome of re-evaluation, it was identified in 2004 that product label amendments were required to include dilution rates to be used with spray box and dip tank applications as well as the target deposition rate ($\mu\text{g}/\text{cm}^2$) on the treated lumber. Since the PMRA had no data permitting the establishment of those rates, operational trials were requested to demonstrate that the proposed deposition rates were efficacious without being excessive and that the proposed dilution rates for each application method could achieve the target deposition rate.

Chemistry Assessment

Not required

Health Assessments

The proposed dilution and deposition rates of copper-8-quinolinolate should not result in an increase of exposure to workers handling treated wood over the existing use pattern. However, following implementation of a Product Stewardship Program and follow-up monitoring of workers performing activities with high exposure potential, the PMRA will need to revisit the risk assessment for post-application exposure activities.

Environmental Assessment

Not required

Value Assessment

Efficacy data was submitted demonstrating the deposition rates found to be efficacious without being excessive and confirming that the proposed dilution rates could achieve the target deposition rate when applied by dip treatment. Under the conditions of this test, PQ-8 showed an acceptable level of performance, over a 6 month period, at treatment levels of 0.82-1.20% PQ-8 and CUQ surface deposition levels of 9.0-11.0 $\mu\text{g}/\text{cm}^2$. Therefore, the use of PQ-8 liquid fungicide for the control of sapstain and mold in freshly cut lumber, when applied by dip treatment, is acceptable over a 6 month period.

Conclusion

The PMRA has completed its evaluation of the subject application and has determined that a target deposition rate of 9.0-11.0 $\mu\text{g}/\text{cm}^2$ is effective at controlling sapstain over a period of 6 months, when CUQ is applied by dip at an a.i. concentration 0.82-1.20%. The target deposition rate was found to be reasonable and not excessive. Therefore the outstanding issues have been addressed.

References

PMRA Document Number	Reference
1388689	2007, Six-month operational trial PQ-8 liquid fungicide concentrate for its ability to prevent sapstain of unseasoned lumber, DACO: 10.2.3.4

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