

Evaluation Report for Category B, Subcategory B.2.6 Application

Application Number: 2008-3311
Application: B.2.6 (New EP Product Chemistry – New combination of TGAI)s
Product: Mycostat PQ Wood Preservative Treatment
Registration Number: 29407
Active ingredients (a.i.): Propiconazole (PON),
Didecyl Dimethyl Ammonium Chloride (QAK)
PMRA Document Number : 1792622

Purpose of Application

The purpose of this application was to register a new commercial class product for use in the treatment of fresh sawn lumber in transit and storage. This new product combines two currently registered manufacturing concentrates: Bardac 2250 (Reg. No. 21893), containing the active ingredient didecyl dimethyl ammonium chloride (DDAC), and Wocosen 50TK Manufacturing Concentrate (Reg. No. 24515), containing the active ingredient propiconazole. The resulting product proposed for registration under this submission contains DDAC at 45.5% and propiconazole at 4.4%.

Chemistry Assessment

Mycostat PQ Wood Preservative Treatment is formulated as a solution containing propiconazole at a minimum concentration of 4.4% and didecyl dimethyl ammonium chloride at a nominal concentration of 45.5%. This end-use product has a density of 0.941 g/cm³ and pH of 5.84. The chemistry requirements for Mycostat PQ Wood Preservative Treatment are complete.

Health Assessments

Mycostat PQ Wood Preservative Treatment is considered to be highly acutely toxic to rats via the oral route of exposure (LD₅₀ = 450 mg/kg), and of low acute dermal toxicity in rabbits (LD₅₀ = 4350 mg/kg). It is expected to be highly acutely toxic via the inhalation route due to the corrosive nature of the product. Mycostat PQ Wood Preservative Treatment is considered to be extremely irritating to the skin and corrosive to the eyes of rabbits; however, it is not expected to be a potential skin sensitizer.

No increase in occupational exposure is expected when compared to currently registered end-use products containing the active ingredients, propiconazole and didecyl dimethyl ammonium chloride (DDAC). 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 on this application.

Value Assessment

Efficacy data were submitted to register Mycostat PQ Wood Preservative Treatment, a product meant to replace the tank mix of the products Mycostat P20 Wood Preservative Treatment (Reg. No. 27136) and Mycostat-Q (Reg. No. 25744) that currently have conditional registration with the PMRA. This product is a combination propiconazole at 4.4% and DDAC at 45.5% and is used to control sapstain, mold and decay in freshly cut lumber, logs and timbers. After reviewing the data provided, this use was determined to be acceptable.

Conclusion

The PMRA has completed the assessment of all submitted data and rationales and has concluded that the registration of Mycostat PQ Wood Preservative Treatment is acceptable.

References

- PMRA 1631640 2006, Physical and chemical characteristics, DACO: 3.5.1,3.5.11,3.5.2,3.5.3, 3.5.6,3.5.7,3.5.8,3.5.9 CBI
- PMRA 1631644 2008, Waiver Request for Certain Data Requirements for Mycostat PQ, DACO: 3.5.12,3.5.13,3.5.15 CBI
- PMRA 1631643 2008, Storage stability and Corrosion characteristics, DACO: 3.5.10,3.5.14 CBI
- PMRA 1631639 2008, Formulation Process and Product Analysis for Mycostat PQ, DACO: 3.2.1,3.2.2,3.4.1 CBI
- PMRA 1631637 A Discussion on the Value Data Requirements for Mycostat PQ. DACO: 10.1, 10.2.3.1, 10.2.3.3
- PMRA 1631638 Determination of the Deposition Rates for a Mycostat PQ Formulation. DACO: 10.2.3.3

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