



Evaluation Report for Category B, Subcategory B.2.6 Application

Application Number: 2009-3260
Application: Product chemistry – new combination of TGAIs
Product: Woodlife 111 Water Repellent Wood Preservative
Registration Number: 30584
Active ingredients (a.i.): 3-iodo-2-propynyl n-butylcarbamate (IPB), propiconazole (PON), tebuconazole (TEU)
PMRA Document Number : 2121862

Purpose of Application

The purpose of this application was to register a new commercial class end-use product for the treatment of joinery and millwork wood which is used above-ground (USC 23-wood). This is a new combination of active ingredients for this type of wood joinery/millwork treatment.

Chemistry Assessment

Woodlife 111 Water Repellent Wood Preservative is formulated as a solution containing 3-iodo-2-propynyl n-butylcarbamate, propiconazole and tebuconazole each at 0.21%. This end-use product has a specific gravity of 0.762-0.804 and pH of 7.2. The chemistry requirements for Woodlife 111 Water Repellent Wood Preservative have been fulfilled.

Health Assessments

Woodlife 111 Water Repellent Wood Preservative is of low toxicity to rats via the oral ($LD_{50} > 5000$ mg/kg bw), dermal ($LD_{50} > 5000$ mg/kg bw), and inhalation ($LC_{50} > 2.03$ mg/L) routes of exposure. It is minimally irritating to the eye and moderately irritating to the skin of rabbits. It is not a dermal sensitizer in guinea pigs.

A risk assessment was performed for sawmill workers that may be exposed to Woodlife 111 Water Repellent Wood Preservative during the treatment process. It was concluded that exposure to the active ingredients, 3-iodo-2-propynyl n-butylcarbamate, propiconazole and tebuconazole, is not expected result in unacceptable risk when workers follow the label directions and wear the personal protective equipment presented on the Woodlife 111 Water Repellent Wood Preservative label.

Environmental Assessment

A number of outstanding environmental data requirements for the technical active ingredients, 3-iodo-2-propynyl n-butylcarbamate, propiconazole and tebuconazole were fulfilled. There were no further outstanding environmental data required to support the full registration of the technical active ingredients, 3-iodo-2-propynyl n-butylcarbamate, propiconazole and tebuconazole and the associated end use product Woodlife 111 Water Repellent Wood

Preservative for use as a commercial wood preservative. The conclusions from the review of the submitted studies did not identify any new risks to the environment or to non-target organisms.

Value Assessment

Laboratory and field studies were provided to demonstrate the ability of Woodlife 111 Water Repellent Wood Preservative to protect wood samples from decay in joinery and millwork. The studies included a number of different wood species, some of which were relevant to the Canadian industry (e.g. Ponderosa pine), and tested against standard decay fungi. Nine years of data were provided from L-joint field studies conducted in Hilo, Hawaii, a site with a far greater decay hazard than found in Canada. The data demonstrated that Woodlife 111 Water Repellent Wood Preservative, at target retention of 0.55 kg of total active ingredients/m³, is effective at protecting millwork and joinery from decay in above-ground uses.

Conclusion

The PMRA has conducted a review of the available information and has concluded that full registration can be supported for Woodlife 111 Water Repellent Wood Preservative, a new commercial class end-use product for the treatment of joinery and millwork wood which is used above-ground.

References

PMRA # Reference

- 1934473 pH Measurement, DACO: 3.5.7
- 2109778 Data Package AWWA Approval of Woodlife 111, DACO: 3.4.1
- 2109779 Woodlife 111 Stability Report, DACO: 3.5.10
- 2109780 Final Corr WLF 111-SUB Report, DACO: 3.5.14
- 2157147 Woodlife 111 Combined Analytical Reports 2 Feb 2012, DACO: 3.5.10
- 2157152 1 Feb 2012 technical response, DACO: 3.5.10
- 2160452 HPLC analysis storage stability 2012, DACO: 3.5.10
- 1795479 1999, Primary Skin Irritation Study in Rabbits, DACO: 4.2.5,4.6.5,870.2500,M4.5.2
- 1795481 1999, Dermal Sensitization Study in Guinea Pigs (Buehler Method), DACO:
4.2.6,4.6.6,870.2600
- 1795483 1999, Acute Oral Toxicity Study in Rats - Limit Test, DACO: 4.2.1,4.6.1,870.1100
- 1795484 1999, Primary Eye Irritation Study in Rabbits, DACO: 4.2.4,4.6.4,870.2400
- 1795486 1999, Acute Inhalation Toxicity Study in Rats - Limit Test, DACO:
4.2.3,4.6.3,870.1300
- 1795487 1999, Acute Dermal Toxicity Study in Rats - Limit Test, DACO:
4.2.2,4.6.2,870.1200
- 1795477 2003, Other studies (laboratory and field studies for a data package for a new
millwork product), DACO: 10.1, 10.2.3.1, 10.2.3.2, 10.6
- US EPA Reregistration Eligibility Decision (RED): 3-Iodo-2-propynyl butylcarbamate (IPBC).
March 1997. EPA 783-R-97-003

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