

Evaluation Report for Category B, Subcategory B.2.3, 2.4, 3.1, 3.12 Application

Application Number: 2008-1551
Application: New end use product
Product: Fungitrol 720 Fungicide
Registration Number: 29897
Active ingredients (a.i.): 3-Iodo-2-propynyl butyl carbamate (IPB)
PMRA Document Number: 1989702

Purpose of Application

The purpose of this application was to register a new end use product, Fungitrol 720 Fungicide, that contains the active ingredient 3-iodo-2-propynyl butyl carbamate (iodocarb). Fungitrol 720 Fungicide is for use as a preservative in exterior paint films, plastics, and adhesives.

Chemistry Assessment

Fungitrol 720 Fungicide is formulated as a solution containing 3-iodo-2-propynyl butyl carbamate at a nominal concentration of 20% w/w. This end-use product has a density of 1.19 g/mL and a pH of 7.0. The chemistry requirements for Fungitrol 720 Fungicide are complete.

Health Assessments

Fungitrol 720 Fungicide is considered to be of low acute toxicity via the oral and dermal routes, and of slight acute toxicity via the inhalation route. Fungitrol 720 Fungicide is moderately irritating to the eyes and skin and is considered to be a potential dermal sensitizer.

A risk assessment was not performed for Fungitrol 720 Fungicide as the use pattern fits within the existing use profile for the active ingredient, 3-iodo-2-propynyl butyl carbamate (iodocarb). The potential exposure to mixers, loaders, applicator and the post-applicators is not expected to exceed that of registered uses. Label amendments outlining supplementary personal protective equipment (PPE), required due to toxicology signal words and hazard statements, were provided.

Environmental Assessment

The active ingredient, 3-iodo-2-propynyl butyl carbamate, is toxic to aquatic organisms. Environmental exposure to these products through manufacturing processes can be mitigated through label statements.

Due to the use pattern as a preservative to be applied to exterior dry-film paints, adhesives and plastics, direct environmental exposure to Fungitrol 720 Fungicide is considered to be negligible if used according to the label.

Value Assessment

A standardized four-week laboratory test method was established and used to evaluate nine different paint samples, six different plastic samples, and two samples each of different cements

and adhesives. Long term field studies, ranging from six months to two years, were carried out in New Jersey, a climate similar to much of Canada, for exterior paint dry-film and wood-plastic composite material. As a whole, the submitted data showed that 1000-2000 ppm of iodocarb was a reasonable range for the protection of exterior paint films from mildew. Wood-plastic composite material required 1000-3000 ppm of 3-iodo-2-propynyl butyl carbamate (iodocarb), while plastics and adhesives required less 3-iodo-2-propynyl butyl carbamate (iodocarb) (250-1000 and 200-500 ppm a.i., respectively) to protect them from fungal degradation.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support for the product, Fungitrol 720 Fungicide, and has found the information sufficient to support its full registration.

References

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