



Evaluation Report for Category B, Subcategory 2.3, 2.4 Application

Application Number: 2011-4212
Application: Changes EP or MA Product Chemistry – Identify of Formulants;
Proportion of Formulants
Product: Amercoat ABC#4 Antifouling Paint
Registration Number: 26589
Active ingredients (a.i.): Copper (present as cuprous oxide)
PMRA Document Number: 2475856

Purpose of Application

The purpose of this application was to amend the registration of Amercoat ABC#4 Antifouling Paint to add alternate formulations containing different colour pigments (black and blue).

Chemistry Assessment

Amercoat ABC#4 Antifouling Paint is formulated as a suspension containing copper present as cuprous oxide and related copper compounds at a nominal concentration of 27.1%. This end-use product has a density of 1.79-1.83 g/mL. The chemistry requirements for Amercoat ABC#4 Antifouling Paint are complete.

Health Assessments

The changes have no impact on the acute toxicity profile of the product.

Environmental Assessment

The new colour series of Amercoat ABC#4 Antifouling Paint has been reviewed. Copper leaching studies were submitted for each new colour, black and blue. The results of the leaching studies show that the daily mean copper leach rates for the black and blue formulations are below the Pest Management Regulatory Agency's (PMRA) maximum daily mean leach rate of 40 Cu⁺/cm²/day for days 21-45. Therefore, the PMRA considers that the black and blue colour paint formulations are acceptable for registration.

Value Assessment

Data on the copper release rate was provided for each of the new antifouling paint formulations. The studies were scientifically valid and followed the ASTM Standard Test Method D 6442-06, *Standard Test Method for Determination of Copper Release Rate from Antifouling Coatings in Substitute Ocean Water*. Both new formulations had average copper release rates greater than the 10 µg/cm²/day that has been established in the public literature to be effective at preventing the attachment of fouling organisms.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information submitted in support of Amercoat ABC#4 Antifouling Paint and has found the information sufficient to register the new colour formulations for black and blue.

References

PMRA Document Number	References
2469877	2014, Viscosity, DACO: 3.5.9 CBI
2359389	2013, Leach Rate Determination of ABC 4 Marine Antifouling Paint Blue, DACO: 10.2.3.3(A), 8.2.4.6
2359390	2013, Leach Rate Determination of ABC 4 Marine Antifouling Paint Red, DACO: 10.2.3.3(A), 8.2.4.6
2359391	2013, Leach Rate Determination of ABC 4 Marine Antifouling Paint Black, DACO: 10.2.3.3(A), 8.2.4.6

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