

## Evaluation Report for Category B, Subcategory 2.3, 2.4, 7.0 Application

**Application Number:** 2013-2772  
**Application:** New / Changes EP or MA Product Chemistry-Identity of Formulants  
New / Changes EP or MA Product Chemistry-Proportion of Formulants  
Reinstatement of Registered Product  
**Product:** Atlantic Antifouling Paint Copper Bottom Red  
**Registration Number:** 23511  
**Active ingredients (a.i.):** Copper (present as cuprous oxide)  
**PMRA Document Number :** 2504569

### Purpose of Application

The purpose of this application was to re-instate the end-use product Atlantic Antifouling Paint Copper Bottom Red, an antifouling paint that was discontinued in 2013 and to change the formulation to comply with the requirements on the lead concentration in a surface coating material.

### Chemistry Assessment

Atlantic Antifouling Paint Copper Bottom Red is formulated as a suspension containing copper as elemental present as cuprous oxide at a nominal concentration of 8.78%. This end-use product has a density of 1.38 g/mL. With the exception of the storage stability study, the required chemistry data for this product have been provided, reviewed, and found to be acceptable.

### Health Assessments

The changes in the formulation are not expected to change the toxicity of the product.

### Environmental Assessment

Atlantic Antifouling Paint Copper Bottom Red is an end use product with 8.78% copper (present as cuprous oxide) and intended for use on boats and row boats constructed with wood, metal and fibreglass. The copper content, application rate and method of application for the new formulation are the same as those for the previously registered product. The changes to the product formulation are not expected to pose environmental concerns.

### Value Assessment

A study was provided to determine the release rate of copper from the new

formulation of Atlantic Antifouling Paint Copper Bottom Red and the results showed that the antifouling paint reported an average copper release rate of 9.29  $\mu\text{g}/\text{cm}^2/\text{day}$ . The published literature acknowledges that some paints may be effective with release rates that occasionally fall below 10  $\mu\text{g}/\text{cm}^2/\text{day}$ . In addition, the applicant provided use-history information regarding the use of this product in Canada which was deemed acceptable and supports the value of this product.

## Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the reinstatement of the end-use product Atlantic Antifouling Paint Copper Bottom Red.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
2395872	2014, Rapport leaching data, DACO: 8.2.3.6 CBI
2503001	2015, Use history templates, DACO: 10.2.3.4
2503002	2015, Use history templates, DACO: 10.2.3.4
2503003	2015, Use history templates, DACO: 10.2.3.4
2503004	2015, Use history templates, DACO: 10.2.3.4
2503005	2015, Use history templates, DACO: 10.2.3.4
2503006	2015, Use history templates, DACO: 10.2.3.4
2503007	2015, Use history templates, DACO: 10.2.3.4
2503008	2015, Use history templates, DACO: 10.2.3.4
2503009	2015, Use history templates, DACO: 10.2.3.4
2503010	2015, Use history templates, DACO: 10.2.3.4
2318293	2013, Part 3., DACO: 3.0 CBI
2355263	2013, Procede de formulation du 23511, DACO: 3.2.2 CBI
2381086	2014, CODO 3.2.Procde de formulation corrige, DACO: 3.2 CBI
2381087	2014, Etude de corrosion CODO.3.5.14, DACO: 3.5.14 CBI
2383454	2014, Etude sur la stabilite codo3.5.10, DACO: 3.5.10 CBI
2388000	2014, RAP04-Etude de la stabilite codo 3.5.10, DACO: 3.5.10 CBI

## Additional Information

<b>PMRA Document Number</b>	<b>Reference</b>
2504474	Ketchum, B.H. et al. 1945. Evaluation of Antifouling Paints by Leaching Rate Determinations. Ind. Eng. Chem. May, 1945. pp. 456-460. DACO 10.6

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