

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4, 3.11, 3.12 Application

Application Number: 2020-3712
Application: New End-Use Product (Product Chemistry) – Guarantee, Identity and Proportion of Formulants; New Product Labels – New Pests, Site or Host
Product: 1777 RV-BOSS HOLDING TANK TREATMENT
Registration Number: 34287
Active ingredient (a.i.): Copper (present as copper sulfate pentahydrate)
PMRA Document Number: 3274481

Purpose of Application

The purpose of this application was to register a new end-use product, 1777 RV-BOSS HOLDING TANK TREATMENT, for use as a bacteriocide in recreational vehicle (RV) holding tanks.

Chemistry Assessment

1777 RV- BOSS HOLDING TANK TREATMENT is formulated as a solution containing copper present as copper sulphate pentahydrate at a concentration of 0.75%. This end-use product has a density of 1.03 g/mL and pH of 2.58. The required chemistry data for 1777 RV-BOSS HOLDING TANK TREATMENT have been provided, reviewed and found to be acceptable.

Health Assessments

1777 RV- BOSS HOLDING TANK TREATMENT is considered slightly acutely toxic by the oral, dermal and inhalation routes of exposure, is corrosive to eyes and skin, and based on the corrosivity, is not classified for sensitization.

Residential exposure to individuals handling 1777 RV- BOSS HOLDING TANK TREATMENT and bystanders is not expected to result in health risks of concern when the product is used according to label directions.

Dietary exposure assessment was not required for this application.

Environmental Assessment

The environmental risks associated with the use of 1777 RV-BOSS HOLDING TANK TREATMENT are acceptable when the product is used according to the label directions.

Value Assessment

Efficacy data demonstrating the inhibitory effects of copper on bacteria and its ability to suppress odour were submitted in support of the registration of 1777 RV-BOSS HOLDING TANK TREATMENT. In addition, several currently registered products use similar copper concentrations as 1777 RV-BOSS HOLDING TANK TREATMENT to control odour causing bacteria in liquid sewage and animal manure pits.

Collectively, this information was sufficient to demonstrate that the product has acceptable value.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the registration of 1777 RV-BOSS HOLDING TANK TREATMENT.

References

PMRA Document Number	Reference
3110309	2020, Formulation Process, DACO: 3.2.1, 3.2.2 CBI
3110310	2020, Application for Registration of Boss 1779 Septic Tank - Weeping Field Physical and Chemical Characteristics, DACO: 3.5.1, 3.5.11, 3.5.12, 3.5.13, 3.5.15, 3.5.16, 3.5.2, 3.5.6, 3.5.7, 3.5.8, 3.5.9, 8.2.1 CBI
3110311	2020, Two Week Accelerated Storage Stability & Corrosion Characteristics of Boss Septic Tank - Weeping Field 1779, DACO: 3.5.10, 3.5.14 CBI
3110312	2020, Formulation Type and Packaging Material, DACO: 3.5.4, 3.5.5 CBI
3110305	2020, Request for waiver, Acute toxicity (DACOs 4.6.1 - 4.6.6)
3145866	2020, Use Description / Exposure Scenarios for 1779 RV-BOSS, DACO 5.2
3110330	2020, Value Summary for 1779, RV-Boss, DACO: 10.1
3110335	1979, Inhibitory Effects of Copper on Bacteria Related to the Free Ion Concentration, DACO: 10.1
3110337	2016, Bacterial Inhibition in Waste-Water/Fracking Water Using Copper Ion Solution, DACO: 10.1
3110338	1997, Agricultural Utilization Research Institute Year: 1997 Title: Evaluation of Commercial Manure Additives, DACO: 10.1
3110339	2020, Boss Technology Inc., DACO: 10.1
3110327	2020, Theory of Mechanism, DACO: 10.2.1
3110340	2020, Use History, DACO: 10.2.4

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