Health Canada Santé Canada

Evaluation Report for Category B, Subcategory B.2.1, 2.3, 2.4, 3.4, 3.11, 3.12 Application

Application Number:	2020-1343
Application:	New End-Use Product (Product Chemistry) – Guarantee, Identity and Proportion of Formulants; New Product Labels – Application Method, New Pests, Site or Host
Product:	1741 BOSS SEPTIC TANK – WEEPING FIELD
Registration Number:	34285
Active ingredient (a.i.):	Copper (present as copper sulfate pentahydrate)
PMRA Document Number:	**3274642**

Purpose of Application

The purpose of this application was to register the new end-use product, 1741 BOSS SEPTIC TANK – WEEPING FIELD, for use as a bacteriocide in septic tanks and weeping fields.

Chemistry Assessment

1741 BOSS SEPTIC TANK-WEEPING FIELD is formulated as a solution containing copper (present as copper sulphate pentahydrate) at a concentration of 2.772 %. This end-use product has a density of 1.1203 g/mL and pH of 2.08. The required chemistry data for 1741 BOSS SEPTIC TANK-WEEPING FIELD have been provided, reviewed and found to be acceptable.

Health Assessments

1741 BOSS SEPTIC TANK-WEEPING FIELD 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 1741 BOSS SEPTIC TANK-WEEPING FIELD 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 1741 BOSS SEPTIC TANK-WEEPING FIELD are acceptable when the product is used according to the label directions

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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 1741 BOSS SEPTIC TANK WEEPING FIELD. In addition, several currently registered products use the same concentration of copper as 1741 BOSS SEPTIC TANK WEEPING FIELD 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 1741 BOSS SEPTIC TANK WEEPING FIELD.

References

PMRA Document Number	Reference
3110712	2020, Starting Materials and Formulation Process, DACO: 3.2.1, 3.2.2 CBI
3110713	2020, Application for Registration of RV Boss Concentrate 1771 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
3110714	2020, 2 Week Accelerated Storage Stability & Corrosion Characteristics of RV Boss Concentrate 1771, DACO: 3.5.10, 3.5.14 CBI
3110715	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)
3110736	2020, Use Description / Exposure Scenarios for 1741 RV-BOSS, DACO 5.2
3138222	2020. Human Exposure (Methylene Blue), DACO 5.1
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