



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2016-8029
Application: B.1.1 - New source Same Registrant
Product: Halobrom Technical Microbicide
Registration Number: 23638
Active ingredients (a.i.): Available Chlorine and Available Bromine
PMRA Document Number : 2763142

Purpose of Application

The purpose of this application was to register a new source for Halobrom Technical Microbicide.

Chemistry Assessment

Common Name: 1-bromo-3-chloro-5,5-dimethylhydantoin
IUPAC* Chemical Name: 1-bromo-3-chloro-5,5-dimethylimidazolidine-2,4-dione
CAS† Chemical Name: 2,4-imidazolidinedione, 1-bromo-3-chloro-5,5-dimethyl-

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Halobrom Technical Microbicide has the following properties:

Property	Result
Colour and physical state	White / off-white solid
Nominal concentration	Available chlorine 28.95% Available bromine 65% both present as 1-bromo-3-chloro-5,5-dimethylhydantoin and related hydantoins
Odour	Halogen
Relative density	1.8 – 2.0
Vapour pressure	Negligible – product is a solid
pH	3.2 – 3.8 (1% solution)
Solubility in water	0.2 g / 100 g (25°C)
n-Octanol/water partition coefficient	Log K _{ow} = 0.35

The required chemistry data for Halobrom Technical Microbicide have been provided, reviewed, and found to be acceptable.

Health, Environmental and Value Assessment

Health, environmental and value assessments were not required for this application.

Conclusion

The PMRA has reviewed the information provided to support a new source for Halobrom Technical Microbicide. Based on the results of this review, the new source is acceptable for registration.

References

- 2709805 2016, BCDMH [CBI REMOVED] Calculation, DACO: 0.8
- 2709809 2013, Analytical Profile of Batches – [PRIVACY INFO REMOVED] - Study 09-124, DACO: 2.13 CBI

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