Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2016-6086
Application: Technical Grade Active Ingredient - New Source, New Registrant
Product: Keda BCDMH Technical
Registration Number: #####
Active ingredients (a.i.): Available Chlorine and Available Bromine present as 1-bromo-3-chloro-5,5-dimethylhydantoin
PMRA Document Number: 2720322

Purpose of Application

The purpose of this application was to register a new source of this active ingredient by a new registrant.

Chemistry Assessment

Common Name: 1-bromo-3-chloro-5,5-dimethylhydantoin or BCDMH
IUPAC* Chemical Name: 1-bromo-3-chloro-5,5-dimethylpyrrolidine-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

Keda BCDMH TGAI has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	68.4% available bromine and 28.2% available chlorine, both present as 1-bromo-3-chloro-5,5-dimethylhydantoin and related hydantoins
Odour	Slight halogen
Density	1.8 – 2.0 g/cm^3
Vapour pressure	Negligible
pH	3.97 for 0.1% solution
Solubility in water	0.15 g / 100 g (20˚C)
n-Octanol/water partition coefficient	Log K_{ow} = 0.35

The required chemistry data for Keda BCDMH TGAI have been provided, reviewed, and found to be acceptable.

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Health Environmental and Value Assessments

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

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 Keda BCDMH Technical.

References

PMRA #	Reference
2686121	2016, Applicant and Manufacturer Information, DACO: 2.1,2.2,2.3,2.3.1 CBI
2686122	2012, Chemistry, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
2686123	2016, Starting Materials and Suppliers, DACO: 2.11.2 CBI
2686124	2016, Data and methods of [CBI REMOVED] in 1-bromo-3-chloro-5,5-dimethylhydantoin, DACO: 2.12 CBI
2686125	2016, Determination of Oxidizing Power in Halobrom, DACO: 2.13.1 CBI
2686126	2016, Methods of [CBI REMOVED] in 1-bromo-3-chloro-5,5-dimethylhydantoin, DACO: 2.13.1 CBI
2686127	2015, Updated Certificate of Analysis, DACO: 2.13.3 CBI
2686128	2015, Analysis, DACO: 2.13.3 CBI
2686129	2016, COA of BCDMH, DACO: 2.13.3 CBI
2686130	2016, Data, DACO: 2.13.3 CBI
2686131	2016, Chem-Phys, DACO: 2.14.10,2.14.11,2.14.12,2.14.13,2.14.4,2.14.7,2.14.8,2.14.9 CBI
2686132	2016, Stability and corrosion test - Test reports and data Bavic Tablet Dissolving Tablet for Pool & Spa, DACO: 2.14.14 CBI

ISSN: 1911-8082