

Evaluation Report for Category B, Subcategory 1.2, 3.13 Application

Application Number: 2012-0777

Application: B.1.2 – New Source (site) with New Registrant

B.3.13 – New Label Precautions

Product: BCDMH Technical

Registration Number: 30863

Active ingredients (a.i.): Available bromine present as 1-bromo-3-chloro-5,5-

dimethylhydantoin and related hydantoins. Available chlorine present as 1-bromo-3-chloro-5,5dimethylhydantoin and related hydantoins.

PMRA Document Number: 2291701

Purpose of Application

The purpose of this application was to register a new source (site) of manufacture for BCDMH Technical by a new registrant.

Chemistry Assessment

Common Name: 1-bromo-3-chloro-5,5-dimethylhydantoin and related hydantoins.

IUPAC Chemical Name: 1-bromo-3-chloro-5,5-dimethylpyrrolidine-2,4-dione 2,4-imidazolidinedione, 1-bromo-3-chloro-5,5-dimethyl-

BCDHM Technical has the following properties:

Property	Result
Colour and physical state	White granular solid
Nominal guarantee	Available bromine present as 1-bromo-3-chloro-5,5-
	dimethylhydantoin and related hydantoins at 65%
	AND
	Available chlorine present as 1-bromo-3-chloro-5,5-
	dimethylhydantoin and related hydantoins at 28.6%
Odour	Chlorine/bromine odour
Density	0.9 g/mL
Vapour pressure at 25°C	0.881 mPa (estimated)
Solubility in water	1.5 g/L
n-Octanol/water partition	Log Kow = -0.94 (estimated)
coefficient	

The chemistry requirements for BCDHM Technical have been completed.



Health Assessments

The new source of technical grade active ingredient is considered to be toxicologically equivalent to the currently registered source.

Environmental and Value Assessments

Environmental and value assessments were not required for this application.

Conclusion

PMRA has reviewed the information provided and has determined the new source (site) of manufacture of BCDHM Technical is acceptable.

References

PMRA # 2163857	2012, Chemistry Requirements, DACO: 2.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9
	CBI
PMRA # 2163858	2012, Manufacturing Methods for the TGAI, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
PMRA # 2163859	Certified Limits, DACO: 2.12.1 CBI
PMRA # 2163861	1995, Analytical method - BROMOCHLORO-5,5-DIMETHYLHYDANTOIN, DACO:
	2.13.1 CBI
PMRA # 2163864	2010, Determination of the Content of BCDMH and [CBI REMOVED] in Five Batches
	of BCDMH Granules, DACO: 2.13.2, 2.13.3 CBI
PMRA # 2163865	Discussion of formation of Impurities, DACO: 2.13.4 CBI
PMRA # 2163866	Chemical and Physical Properties, DACO: 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.13,
	2.14.2, 2.14.3, 2.14.4, 2.14.5, 2.14.6, 2.14.7, 2.14.8, 2.14.9 CBI
PMRA # 2163867	1991, BCDMH Formulated End-Use Product Registration, DACO: 2.14.14 CBI
PMRA # 2225772	Batch Data, DACO: 2.13.3 CBI

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