Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2017-3381
Application: Changes to the Technical Grade Active Ingredient Product Chemistry-New Source (site) same registrant
Product: AQUCAR DB 100 MB Water Treatment Microbiocide
Registration Number: 13769
Active ingredient (a.i.): 2,2-dibromo-3-nitrilopropionamide
PMRA Document Number: 2902176

Purpose of Application

The purpose of this application was to register a new manufacturing site for the technical grade active ingredient AQUCAR DB 100 MB Water Treatment Microbiocide.

Chemistry Assessment

Common Name: 2,2-dibromo-3-nitrilopropionamide
IUPAC* Chemical Name: 2,2-dibromo-2-cyanoacetamide
CAS† Chemical Name: 2,2-dibromo-2-cyanoacetamide

* International Union of Pure and Applied Chemistry
† Chemical Abstracts Service

AQUCAR DB 100 MUP Water Treatment Microbiocide has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	97.6%
Odour	Medicinal scent
Density	1.2 - 1.4 g/cm^3
Vapour pressure	1.2 x 10^{-7} mPa (at 25˚C)
pH	6-8
Solubility in water	1.5 g/100 mL (20˚C)

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Property	Result	
n-Octanol/water partition coefficient (23 ∀ 2°C)	pH	K_{ow}
	5.0	6.24
	7.0	6.31
	9.0	6.61

The required chemistry data for AQUCAR DB 100 MUP Water Treatment Microbiocide have been provided, reviewed, and found to be acceptable.

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 available information and has found it sufficient to register a new manufacturing site for the technical grade active ingredient AQUCAR DB 100 MB Water Treatment Microbiocide.

References

PMRA Document Number	References
2781120	2017, Manufacturing Summary, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1 CBI
2781121	2007, Manufacturing Summary, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1 CBI
2781122	2017, DACO 2.13.3 Batch Data summary, DACO: 2.13.3
2781123	2016, BATCH DATA, DACO: 2.13.3 CBI
2791661	2017, DACO 2.1 Applicants Name and Office Address, DACO: 2.1
2791662	2017, DACO 2.2 Manufacturers Name and Address, DACO: 2.2
2791663	2017, DACO 2.13.1 Summary, DACO: 2.13.1
2791664	1990, Methodology/Validation, DACO: 2.13.1 CBI
2791665	2017, DACO 2.13.2 Summary, DACO: 2.13.2
2791666	1990, Confirmation of Identity, DACO: 2.13.2 CBI
2862382	2018, Detailed Production Process Description, DACO: 2.11.3 CBI
2862383	2015, Methodology/Validation, DACO: 2.13.1 CBI
2862384	2015, Methodology/Validation, DACO: 2.13.1 CBI
2879161	2015, [CBI Removed] HPLC Analysis of DBNPA (2,2-dibromo-3-nitrilopropionamide) Technical for Impurities, DACO: 2.13.1
2879162	2015, [CBI Removed] HPLC Analysis of DBNPA (2,2-dibromo-3-nitrilopropionamide) Technical for Active Ingredient , DACO: 2.13.1
2879163	2014, [CBI Removed] HPLC Analysis of DBNPA (2,2-dibromo-3-nitrilopropionamide) Technical for Impurities, DACO: 2.13.1
2889732	2018, DACO 2.13.3 Batch Data, DACO: 2.13.3
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ISSN: 1911-8082