

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2020-1730
Application: Submission subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) policy – Equivalency / Data Compensation Assessment
Product: Preventol P 100
Registration Number: 34195
Active ingredient (a.i.): Bronopol
PMRA Document Number: 3216805

Purpose of Application

The purpose of this application was to register Preventol P 100, a new source of the technical grade active ingredient bronopol, based on a registered precedent.

Chemistry Assessment

Common Name: Bronopol
IUPAC* Chemical Name: 2-bromo-2-nitropropane-1,3-diol
CAS† Chemical Name: 2-bromo-2-nitro-1,3-propanediol

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Preventol P 100 has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	99.7%
Odour	Odourless
Density	1.067-1.089 g/mL
Vapour pressure	0.41 mPa at 20°C 1.3 mPa at 25°C 2.1 mPa at 50°C
pH	4.80 - 5.16 (1% solution)
Solubility in water	304 - 306.83 g/L

Property	Result
n-Octanol/water partition coefficient	Log Pow: 0.18 ± 0.2

The required chemistry data for Preventol P 100 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 information provided, and has found the information sufficient to support the registration of Preventol P 100.

References

PMRA Document Number	Reference
3117564	2020, Preventol P 100 Solvent Solubility, DACO: 2.14.8
3117571	2019, Method Validation for Analysis of Product Ingredients in Bronopol, DACO: 2.13.1, 2.13.2, 2.14.12 CBI
3117573	2020, Analysis of Product Ingredients in Batches of Technical Bronopol (Preventol P 100) [CBI Removed], DACO: 2.13.2, 2.13.3, 2.13.4 CBI
3117574	2020, Analysis of Product Ingredients in Batches of Technical Bronopol (Preventol P 100) [CBI Removed], DACO: 2.13.2, 2.13.3, 2.13.4 CBI
3117575	2007, Physical and Chemical Characteristics: Color, Physical State, Odor, Stability To Normal and Elevated Temperature, pH, Melting Point, Density/Bulk Density, Dissociation Constant, Partition Coefficient, and Water Solubility, DACO: 2.14.1, 2.14.10, 2.14.11, 2.14.13, 2.14.2, 2.14.3, 2.14.4, 2.14.6, 2.14.7
3117576	2007, Preventol P-100 Vapour Pressure, DACO: 2.14.9
3117578	2020, Preventol P 100 Product Chemistry Supplement 2 of 3 to Support PMRA Registration Source: [CBI Removed] DACO: 2.1, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
3117579	2020, Preventol P 100 Product Chemistry Supplement 3 of 3 to Support PMRA Registration Source: [CBI Removed] DACO: 2.1, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
3117580	2008, Storage Stability and Corrosion Characteristics, DACO: 2.14.14, 2.16
3209799	2021, Production Process Updates Preventol P 100 [CBI Removed] to address DACO deficiencies: 2.11.3 & 2.13.3, DACO: 2.11.3, 2.13.3 CBI

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