

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2023-5012
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment
Applicant: UPL AgroSolutions Canada Inc.
Product: UPL Prothioconazole Technical
Registration Number: 35265
Active ingredient (a.i.): Prothioconazole
PMRA Document Number: 3602743

Purpose of Application

The purpose of this application was to register UPL Prothioconazole Technical, a new source of the active ingredient prothioconazole, based on a registered precedent product.

Chemistry Assessment

Common Name: prothioconazole
 IUPAC* Chemical Name: (RS)-2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-2,4-dihydro-1,2,4-triazole-3-thione
 CAS† Chemical Name: 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

UPL Prothioconazole Technical has the following properties:

Property	Result
Colour and physical state	Light beige solid
Nominal concentration	98.86%
Odour	Odourless
Density	1.379 – 1.389 g/mL at 20°C
Vapour pressure	3.31×10^{-4} mPa at 20°C
pH	5.92 ± 0.02
Solubility in water	23 mg/L (pH 5), 68 mg/L (pH 7), 2005 mg/L (pH 9)

Property	Result
n-Octanol/water partition coefficient	$\log K_{ow} = 4.06$

The required chemistry data for UPL Prothioconazole Technical 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 acceptable to support the registration of UPL Prothioconazole Technical.

References

PMRA

Document

Number	Reference
3501796	2017, 5-Batch analysis of Prothioconazole Technical [PRIVACY REMOVED], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3501798	2015, Accelerated Storage Stability & corrosion Characteristics of Prothioconazole Technical, DACO: 2.14.14
3501799	2017, Appearance of Prothioconazole Technical, DACO: 2.14.1,2.14.2,2.14.3
3501803	2015, Dissociation constant for Prothioconazole Technical, DACO: 2.14.10
3501806	2023, Manufacturing process for Prothioconazole technical [PRIVACY REMOVED], DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1 CBI
3501807	2022, Manufacturing Process of Prothioconazole Technical, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1 CBI
3501808	2015, Melting point for Prothioconazole Technical, DACO: 2.14.4
3501842	2016, One Year storage stability & corrosion characteristics study of Prothioconazole Technical, DACO: 2.14.14
3501843	2015, Partition coefficient of Prothioconazole Technical, DACO: 2.14.11
3501844	2015, pH of Prothioconazole Technical, DACO: 2.14.15,830.7000
3501847	2015, Solubility of Prothioconazole Technical in organic solvents, DACO: 2.14.8
3501848	2015, Specific gravity of Prothioconazole Technical, DACO: 2.14.6
3501849	2015, Spectral Analysis of Prothioconazole Technical, DACO: 2.14.12
3501852	2015, Stability of Prothioconazole Technical with and without metals and metal ions, DACO: 2.14.13
3501853	2022, Validation of analytical method for determination of [CBI REMOVED], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3501854	2023, Validation of analytical method of Prothioconazole Technical_[PRIVACY REMOVED], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3501855	2023, Validation of analytical method of Prothioconazole Technical_[PRIVACY REMOVED], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3501856	2015, Vapour Pressure of Prothioconazole Technical, DACO: 2.14.9
3501857	2015, Water Solubility of Prothioconazole Technical, DACO: 2.14.7
3532580	2022, Method validation for UPL Prothioconazole Technical, DACO: 2.13.1

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