



Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2025-1056
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PPIP) Policy – Equivalency/Data Compensation Assessment
Applicant: Cultiva Magna LLC.
Product: Cultiva Magna Prothioconazole Technical
Registration Number: 35937
Active ingredient (a.i.): Prothioconazole
PMRA Document Number: 3818345

Purpose of Application

The purpose of this application was to register Cultiva Magna 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

Cultiva Magna Prothioconazole Technical has the following properties:

Property	Result
Colour and physical state	Off-white Solid
Nominal concentration	98.6%
Odour	Odourless
Density	1.3624 g/mL at 20°C
Vapour pressure	4.72×10^{-10} kPa
pH	6.38 (1% solution)
Solubility in water	0.01840g/L
n-Octanol/water partition coefficient	$\log K_{ow} = 3.664$



The required chemistry data for Culti Magna 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 Culti Magna Prothioconazole Technical.

References

PMRA Document Number	Reference
3692589	2024, UV-VIS Absorption Spectra of Prothioconazole TC, DACO: 2.14.12
3692590	2024, Determination of Dissociation Constant of Prothioconazole TC, DACO: 2.14.10
3692591	2024, Stability Study of Prothioconazole TC to Temperature, Metals and Metal Ions, DACO: 2.14.13
3692592	2020, Five-Batch Analysis of Prothioconazole TC, DACO: 2.13.1,2.13.2, 2.13.3 CBI
3692593	2020, Physical and Chemical Properties Analysis of Prothioconazole TC: Melting Point, Solubility in Water and Two Organic Solvents, Vapour Pressure and Partition Coefficient, DACO: 2.14.11,2.14.4,2.14.7,2.14.8, 2.14.9
3692594	2025, Determination of Active Ingredient Content and Solvent Impurities in Five Batches of Prothioconazole TC, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3692596	2023, Determination of Physical State, Color and Odor of Prothioconazole TC, DACO: 2.14.1,2.14.2,2.14.3
3692597	2023, Determination of pH of Prothioconazole TC, DACO: 2.14.15,830.7000
3692598	2023, Determination of Density of Prothioconazole TC, DACO: 2.14.6
3692599	2025, Manufacturing Process, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3805522	2026, Declaration, DACO: 2.13.3 CBI

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