

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2022-5498
Application: Submission subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) policy - Equivalency/Data Compensation Assessment
Product: Wynca Prothioconazole Technical
Registration Number: 35002
Active ingredient (a.i.): Prothioconazole
PMRA Document Number: 3481832

Purpose of Application

The purpose of this application was to register Wynca Prothioconazole Technical, a new source of the technical grade 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

Wynca Prothioconazole Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98.7%
Odour	Characteristic
Density	1.4225 g/mL (20 °C)
Vapour pressure	4.2051×10^{-6} mPa (20 °C)
pH	6.25 (1% w/v, 20 °C)
Solubility in water	16.7 mg/L (pH 6.19, 20–25 °C)

Property	Result
n-Octanol/water partition coefficient	$K_{ow} = 2.0$ (pH 7, 20 –25 °C)

The required chemistry data for Wynca 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 Wynca Prothioconazole Technical.

References

PMRA

Document

Number	Reference
3397631	2022, Manufacturing process of Wynca Prothioconazole Technical, DACO: 2.11.3 CBI
3397633	2020, Five batch data of Wynca Prothioconazole technical, DACO: 2.13.3 CBI
3397634	2020, Five batch data of Wynca Prothioconazole Technical, DACO: 2.13.3 CBI
3397635	2020, Color, physical state and odour, DACO: 2.14.1,2.14.2,2.14.3
3397636	2020, Melting point, DACO: 2.14.4
3397637	2020, Density, DACO: 2.14.6
3397638	2020, Water solubility, DACO: 2.14.7
3397640	2020, Vapor pressure, DACO: 2.14.9
3397641	2020, Dissociation constant, DACO: 2.14.10
3397642	2020, Partition coefficient, DACO: 2.14.11
3397643	2020, UV visible absorption spectra, DACO: 2.14.12
3397644	2020, Stability, DACO: 2.14.13
3397646	2020, pH, DACO: 2.14.15,830.7000
3479477	2023, Explanation of removal two impurities, DACO: 2.13.4

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