

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2024-1726
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment
Applicant: Liaoning Zhonghui Biotechnology Co., Ltd.
Product: Liaoning Zhonghui Prothioconazole Technical
Registration Number: 35456
Active ingredient (a.i.): Prothioconazole
PMRA Document Number: 3623077

Purpose of Application

The purpose of this application was to register Liaoning Zhonghui 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

Liaoning Zhonghui Prothioconazole Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98.68%
Odour	Characteristic odour
Density	1.4098 g/cm ³ at 20.0°C
Vapour pressure	1.99 × 10 ⁻⁶ mPa at 20 °C
pH	5.70
Solubility in water	14.1 mg/L (pH 6.26)
n-Octanol/water partition coefficient	log K _{ow} = 4.015 (pH 3.32)

The required chemistry data for Liaoning Zhonghui 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 Liaoning Zhonghui Prothioconazole Technical.

References

PMRA Document Number	Reference
3582855	2020, Batch Analysis, DACO: 2.13,2.13.2,2.13.3 CBI
3582856	2020, Batch Analysis- Amendment, DACO: 2.13,2.13.2,2.13.3 CBI
3582857	2020, Flammability, DACO: 2.14 CBI
3582858	2020, Physical State, Odour and Colour, DACO: 2.14.1,2.14.2,2.14.3 CBI
3582859	2022, Dissociation Constant, DACO: 2.14.10 CBI
3582860	2020, Octanol/Water Partition Coefficient, DACO: 2.14.11 CBI
3582861	2022, Stability Data, DACO: 2.14.13,2.14.14 CBI
3582862	2020, pH, DACO: 2.14.15,830.7000 CBI
3582863	2020, UV-Visible Adsorption Spectra, DACO: 2.14.12 CBI
3582864	2020, Melting Point Range, DACO: 2.14.4 CBI
3582866	2020, Relative Density, DACO: 2.14.6 CBI
3582867	2020, Water & Solvent Solubility, DACO: 2.14.7,2.14.8 CBI
3582868	2020, Vapour Pressure, DACO: 2.14.9 CBI
3582869	2020, Corrosiveness, DACO: 2.16 CBI
3582872	2023, Chemical Composition, Manufacturing Summary, Starting Materials and Impurities, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3582874	2024, RF.17976.003.094.23 - ENG, DACO: 2.13.4 CBI

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