



Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-0915
Application: Submissions subject to Protection of Proprietary Interests in Pesticide Data policy-Equivalency/Data Compensation Assessment
Product: Hailir Prothioconazole TC
Registration Number: 34396
Active ingredient (a.i.): prothioconazole
PMRA Document Number: 3300345

Purpose of Application

The purpose of this application is to register a new source of technical prothioconazole, Hailir Prothioconazole TC, based on a registered precedent.

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-3I-1,2,4-triazole-3-thione

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Hailir Prothioconazole TC has the following properties:

Property	Result								
Colour and physical state	White solid								
Nominal concentration	98.4%								
Odour	Odourless								
Density	1.3156 g/mL (20 °C)								
Vapour pressure	7.4 × 10 ⁻⁷ mPa (20 °C) 1.8 × 10 ⁻⁶ mPa (25 °C)								
pH	8.61 (1% aqueous suspension) at 24.4 °C								
Solubility in water	<table><thead><tr><th>pH</th><th>Solubility (mg/L)</th></tr></thead><tbody><tr><td>4</td><td>22.0</td></tr><tr><td>7</td><td>22.5</td></tr><tr><td>9</td><td>1240.0</td></tr></tbody></table>	pH	Solubility (mg/L)	4	22.0	7	22.5	9	1240.0
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4	22.0								
7	22.5								
9	1240.0								

Property	Result
n-Octanol/water partition coefficient	log K _{ow} = 3.8

The required chemistry data for Hailir Prothioconazole TC 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 it sufficient to support the registration of Hailir Prothioconazole TC.

References

PMRA

Document

Number	Reference
3206557	2020, Manufacturing process of Hailir Prothioconazole TC, DACO: 2.11.1, 2.11.3, 2.11.4 CBI
3206576	2017, Preliminary Analysis and enforcement analytical method of prothioconazole TGAI, DACO: 2.13.1 CBI
3206577	2017, Confidential attachment of 5 batch, DACO: 2.13.2,2.13.3,2.13.4 CBI
3206578	2020, Colour, odour and physical state, DACO: 2.14.1,2.14.2,2.14.3
3206579	2017, Melting point, solubility, vapour pressure and partition coefficient, DACO: 2.14.11,2.14.4,2.14.7,2.14.8,2.14.9
3206580	2020, Density, DACO: 2.14.6
3206581	2020, Dissociation constant, DACO: 2.14.10
3206582	2020, UV visible absorption spectra, DACO: 2.14.12
3206583	2020, Stability, DACO: 2.14.13
3206584	2020, Storage stability, DACO: 2.14.14
3206585	2020, pH of Hailir Prothioconazole TC, DACO: 2.14.15, 830.7000

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