

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2023-0779
Application: Application Subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) Policy - Equivalency/Data Compensation Assessment
Product: JiuYi Prothioconazole Technical
Registration Number: 35208
Active ingredient (a.i.): Prothioconazole
PMRA Document Number: 3590419

Purpose of Application

The purpose of this application was to register a new source of prothioconazole, JiuYi Prothioconazole Technical, 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

JiuYi Prothioconazole Technical has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	98.5%
Odour	Mild characteristic odour
Density	1.3441 – 1.3479 g/mL at 20°C
Vapour pressure	3×10^{-4} mPa at 20 °C
pH	5.74
Solubility in water	6.87 mg/L (pH 5)

Property	Result
n-Octanol/water partition coefficient	$\log K_{ow} = 3.21$

The required chemistry data for JiuYi 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 JiuYi Prothioconazole Technical.

References

PMRA

Document

Number	Reference
3440176	2023, Manufacturing process and discussion, DACO: 2.11.1,2.11.3,2.11.4 CBI
3440178	2018, Five batch data, DACO: 2.13.2,2.13.3 CBI
3440179	2020, Impurity [CBI REMOVED], DACO: 2.13.4
3440180	2020, Impurity [CBI REMOVED], DACO: 2.13.4
3440181	2018, Color, physical state and odor, DACO: 2.14.1,2.14.2,2.14.3
3440182	2018, Dissociation constant, DACO: 2.14.10
3440183	2018, Partition coefficient, DACO: 2.14.11
3440184	2018, UV/visible absorption spectra, DACO: 2.14.12
3440185	2018, Stability, DACO: 2.14.13
3440186	2018, Storage stability, DACO: 2.14.14
3440187	2018, pH, DACO: 2.14.15,830.7000
3440188	2018, Melting point, DACO: 2.14.4
3440189	2018, Density, DACO: 2.14.6
3440190	2018, Water solubility, DACO: 2.14.7
3440191	2018, Solvent solubility, DACO: 2.14.8
3440192	2018, Vapour pressure, DACO: 2.14.9
3493048	2023, Updated manufacturing process step 7 and step 8, DACO: 2.11.3 CBI
3493049	2023, [CBI REMOVED] test of Jiuyi Prothioconazole TC, DACO: 2.13.4

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