

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number:	2023-0164
Application:	Application Subject to Protection of Proprietary Interests in
	Pesticide Data (PPIP) Policy – Equivalency/Data Compensation
	Assessment
Product:	Prothioconazole Technical
Registration Number:	35197
Active ingredient (a.i.):	Prothioconazole
PMRA Document Number	r: 3555674

Purpose of Application

The purpose of this application was to register Prothioconazole Technical, a new source of the active ingredient prothioconazole, based on a registered precedent product.

Chemistry Assessment

Common Name: P	rothioconazole
IUPAC* Chemical Nam	ne: (<i>RS</i>)-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-3 <i>H</i> -1,2,4-triazole-3-thione

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

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
рН	5.70
Solubility in water	14.1 mg/L (pH 6.26)
n-Octanol/water partition coefficient	$\log K_{ow} = 4.015 \text{ (pH 3.32)}$



The required chemistry data for 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 Prothioconazole Technical.

References

PMRA Document	Reference
Number	
3426266	2020, 2.13.3 Batch Analysis, DACO: 2.13,2.13.2,2.13.3 CBI
3426268	2020, 2.14 Flammability, DACO: 2.14 CBI
3426269	2020, 2.14.1 to 2.14.3 Physical State, Odour and Colour,
	DACO: 2.14.1,2.14.2,2.14.3 CBI
3426270	2022, 2.14.10 Dissociation Constant, DACO: 2.14.10 CBI
3426271	2020, 2.14.11 OctanolWater Partition Coefficient, DACO: 2.14.11 CBI
3426272	2022, 2.14.13 Stability Data, DACO: 2.14.13,2.14.14 CBI
3426273	2020, 2.14.15 pH, DACO: 2.14.15,830.7000 CBI
3426274	2020, 2.14.12 UV-Visible Adsorption Spectra, DACO: 2.14.12 CBI
3426275	2020, 2.14.4 Melting Point or Range, DACO: 2.14.4 CBI
3426277	2020, 2.14.6 Relative Density, DACO: 2.14.6 CBI
3426278	2020, 2.14.7 & 2.14.8 Water & Solvent Solubility, DACO: 2.14.7, 2.14.8 CBI
3426279	2020, 2.14.9 Vapour Pressure, DACO: 2.14.9 CBI
3426280	2020, 2.16 Corrosiveness, DACO: 2.16 CBI
3426283	2023, 2.3 to 2.11.4 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
3486712	2023, RF.17976.003.094.23 - ENG, DACO: 2.13.4 CBI

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