

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-5876
Application: Submissions Subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment
Product: FBN Propiconazole Technical
Registration Number: 34920
Active ingredient (a.i.): Propiconazole
PMRA Document Number: 3447739

Purpose of Application

The purpose of this application was to register FBN Propiconazole Technical, a new source of the active ingredient propiconazole, based on registered precedent products.

Chemistry Assessment

Common Name: Propiconazole
IUPAC* Chemical Name: (2*RS*,4*RS*;2*RS*,4*SR*)-1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1*H*-1,2,4-triazole
CAS† Chemical Name: 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1*H*-1,2,4-triazole

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

FBN Propiconazole Technical has the following properties:

Property	Result
Colour and physical state	Yellow viscous liquid
Nominal concentration	97.9%
Odour	Mild faint aromatic odour
Density	1.2-1.3 g/mL
Vapour pressure	0.053 mPa at 25.2°C and 0.054 mPa at 30.1°C
pH	5.5-7
Solubility in water	150.2 mg/L
n-Octanol/water partition coefficient	log K _{ow} = 3.72 (pH 6.6)

The required chemistry data for FBN Propiconazole 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 FBN Propiconazole Technical.

References

PMRA Document Number	Reference
3284496	2021, Stability Study of Propiconazole Technical to Temperatures, Metal and Metal Ions, DACO: 2.14.13,2.14.15
3284602	2020, Determination of Solubility of Propiconazole Technical in Water - [Privacy Removed], DACO: 2.14.7
3284603	2019, Determination of Solubility of Propiconazole Technical in Organic Solvents - [Privacy Removed], DACO: 2.14.8
3284604	2020, Determination of Vapour Pressure of Propiconazole Technical - [Privacy Removed], DACO: 2.14.9
3284607	2017, Supplemental Report to MRID 48657701: Product Identity and Composition, Description of the Materials Used, Description of the Production Process, Discussion of the Formation of Impurities and Certified Limited for Willowood Propiconazole Technical II - [Privacy Removed], DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3284608	2011, Propiconazole Technical: Aspect (Physical State, Color and Odor) - [Privacy Removed], DACO: 2.14.1,2.14.2,2.14.3
3284609	2013, NMR Spectrum for [CBI Removed] - [Privacy Removed], DACO: 2.13.2 CBI
3284610	2011, Propiconazole Technical: Boiling Point - [Privacy Removed], DACO:
3284611	2013, NMR Spectrum for [CBI Removed] - [Privacy Removed], DACO: 2.13.2 CBI
3284616	2011, Propiconazole Technical: Density - [Privacy Removed], DACO: 2.14.6
3284619	2021, Determination of Dissociation Constant of Propiconazole Technical - [Privacy Removed], DACO: 2.14.10
3284620	2014, Preliminary Analysis Testing and Determination of the Ultraviolet-Visible Absorption Spectrum of Propiconazole TGAI - [CBI Removed], DACO: 2.13.1,2.13.2,2.13.3 CBI
3284633	2021, Determination of Partition Coefficient (n-Octanol/Water) of Propiconazole Technical - [Privacy Removed], DACO: 2.14.11
3284634	2011, Propiconazole Technical Manufacturing Process - [Privacy Removed], DACO: 2.11.1,2.11.3 CBI
3284635	2013, Certificate of Analysis for [CBI Removed] - [Privacy Removed], DACO: 2.13.2 CBI
3284636	2013, Certificate of Analysis for [CBI Removed] - [Privacy Removed], DACO: 2.13.2 CBI
3284638	2021, Five Batches Analysis of [CBI Removed] in Propiconazole Technical - [Privacy Removed], DACO: 2.13.3,2.13.4 CBI
3311315	2022, [CBI Removed] Analysis in Five Batches of Propiconazole Technical - [Privacy Removed] Signed, DACO: 2.13.3,2.13.4 CBI
3311316	2022, GLP-381 [CBI Removed] Final Report - [Privacy Removed] Signed, DACO: 2.13.3,2.13.4 CBI

- 3362926 2022, Five Batch Analysis of Propiconazole Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
- 3362927 2022, Formation of Impurities in the Technical Grade Active Ingredient Propiconazole, DACO: 2.11.4 CBI
- 3362928 2022, Technical Grade Active Ingredient Propiconazole Five Batch Scale Declaration, DACO: 2.13.3 CBI
- 3442416 2023, Manufacturing Process for FBN Propiconazole Technical (F2V1), DACO: 2.11.3 CBI
- 3442417 2021, Determination of Polychlorinated Dibenzop-Dioxins (PCDDs) and Polychlorinated Dibenzofuranes (PCDFs) by [CBI Removed] in Propiconazole Technical, DACO: 2.13.3 CBI
- 3445537 2023, Technical Grade Active Ingredient Propiconazole Five Batch Scale Declaration, DACO: 2.13.3 CBI

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