



Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2024-4599
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PPIP) Policy – Equivalency/Data Compensation Assessment
Applicant: Tide International Canada, Inc.
Product: Tide Prothioconazole Technical Fungicide
Registration Number: 35611
Active ingredient (a.i.): Prothioconazole
PMRA Document Number : 3736513

Purpose of Application

The purpose of this application was to register Tide Prothioconazole Technical Fungicide, 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

Tide Prothioconazole Technical Fungicide has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98.7%
Odour	Characteristic odour
Density	0.422–0.495 g/cm ³ (20 °C)
Vapour pressure	7.4×10^{-7} mPa (20 °C)
pH	5.0–8.0
Solubility in water	0.24 g/L (pH 7, 20 °C)
n-Octanol/water partition coefficient	log K _{ow} = 4.319 (25 °C)

The required chemistry data for Tide Prothioconazole Technical Fungicide 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 Tide Prothioconazole Technical Fungicide.

References

PMRA Document Number	Reference
3631952	2017, The Manufacturing Process of Prothioconazole Technical, DACO: 2.11.1, 2.11.2, 2.11.3 CBI
3631960	2024, Theoretical Discussion on Impurities in Prothioconazole, DACO: 2.11.4 CBI
3631961	2017, Qualitative and Quantitative Profile of the test substance Prothioconazole (Five Batch Analysis), DACO: 2.13 CBI
3631962	2017, Physical State, Appearance, Color, and Odor of Prothioconazole, DACO: 2.14.1, 2.14.2, 2.14.3 CBI
3631963	2017, Melting point and range of Prothioconazole, DACO: 2.14.4 CBI
3631964	2017, Determination of the bulk density of Prothioconazole, DACO: 2.14.6 CBI
3631965	2017, Solubility in water and organic solvents (acetone and n-hexane) of Prothioconazole, DACO: 2.14.7, 2.14.8 CBI
3631966	2017, Vapor pressure of Prothioconazole, DACO: 2.14.9 CBI
3631967	2017, Dissociation constant in water of Prothioconazole, DACO: 2.14.10 CBI
3631968	2017, Partition coefficient (n-octanol / water) Prothioconazole, DACO: 2.14.11 CBI
3631969	2017, UV-VIS Absorption Spectra of Prothioconazole, DACO: 2.14.12 CBI
3631970	2017, Stability of Prothioconazole to Normal and Elevated Temperature, Metals and Metals Ions, DACO: 2.14.13 CBI
3660796	2024, Partial Response to Deficiency issued November 18, 2024, DACO: 2.13.4 CBI
3705615	2025, Batch data Tide Prothioconazole Technical Fungicide, DACO: 2.13.3 CBI
3705616	2025, Determination of [CBI REMOVED] Content in five batches of Prothioconazole, DACO: 2.13.3 CBI

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