

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2022-3073
Application: New Technical Grade Active Ingredient (Product Chemistry) –
 New Source (Site) Same Registrant
Product: NewAgco Prothioconazole Technical II Fungicide
Registration Number: 34951
Active ingredient (a.i.): Prothioconazole
PMRA Document Number: 3497254

Purpose of Application

The purpose of this application was to register NewAgco Prothioconazole Technical II Fungicide as a new source of prothioconazole by the same registrant.

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

NewAgco Prothioconazole Technical II Fungicide has the following properties:

Property	Result
Colour and physical state	White to light beige solid
Nominal concentration	98.6%
Odour	Odourless
Density	1.37 g/mL at 20 °C
Vapour pressure	7.89×10^{-5} mPa at 25 °C
pH	5.82 at 26 °C (1% emulsion)
Solubility in water	23.3 mg/L at pH 6.4, 20 °C
n-Octanol/water partition coefficient	$\log K_{ow} = 3.93$ at pH 7.5, 22 °C

The required chemistry data for NewAgco Prothioconazole Technical II 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 NewAgco Prothioconazole Technical II Fungicide.

References

PMRA Document Number	Reference
3369412	2017, Determination of Active Content and Impurity Profile of Prothioconazole [CBI Removed], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3369413	2018, Determination of Physical-chemical Properties of Prothioconazole, DACO: 2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.15,2.14.2,2.14.3,2.14.4, 2.14.6,2.14.7,2.14.8,2.14.9,830.7000
3369414	2022, Manufacture Process and Synthesis Pathway [CBI Removed], DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3369434	2022, Manufacture Process and Synthesis Pathway Prothioconazole Technical [CBI Removed], DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3369437	2020, Quantitative and Qualitative Profile of Prothioconazole Technical [Privacy Info Removed] (Five Batch Analysis), Pages 1-211 [CBI Removed], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3369438	2020, Quantitative and Qualitative Profile of Prothioconazole Technical [Privacy Info Removed] (Five Batch Analysis), Pages 212-364 [CBI Removed], DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3405609	2022, Batch Statement, DACO: 2.13.3 CBI
3405610	2022, COA of Prothioconazole, DACO: 2.13.3 CBI
3405611	2022, Qualitative Analysis of [CBI Removed] in Prothioconazole Tech, DACO: 2.13.4 CBI
3405612	2022, Qualitative Analysis of [CBI Removed] in Prothioconazole Tech - Amendment No.: 1, DACO: 2.13.4 CBI
3484555	2019, Batch Statement, DACO: 2.13.3 CBI

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