Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2019-6939
Application: Submission Subject to Protection of Proprietary Interests in Pesticide Data Policy – Equivalency/Data Compensation Assessment
Product: Sharda Prothioconazole Technical
Registration Number: #####
Active ingredient (a.i.): Prothioconazole
PMRA Document Number : 3215974

Purpose of Application

The purpose of this application was to register a new source of prothioconazole, by a new 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

Sharda Prothioconazole Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	99.18%
Odour	Odourless
Bulk density	0.51 g/mL (20 °C)
Vapour pressure	3.47×10^{-5} mPa (20 °C)
pH	7.26 (1% w/v dispersion, 25.8 °C)

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Property	Result
Solubility in water	pH Solubility (mg/L) 3.81 6.37 7.05 36.5 8.26 355.7
n-Octanol/water partition coefficient	pH $\log K_{ow}$ 3.84 4.12 7.04 3.50 8.43 2.23

The required chemistry data for Sharda 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 sufficient to support the registration of Sharda Prothioconazole Technical.

References

PMRA Document Number	References
3066877	2016, Determination of Active Content and Impurity Profile of Prothioconazole, DACO: 2.13.1,2.13.2,2.13.3,2.13.4,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3066878	2016, Determination of Active Content and Impurity Profile of Prothioconazole, DACO: 2.13.1,2.13.2,2.13.4 CBI
3066879	2017, The Justification of Impurities of Prothioconazole Technical, DACO: 2.11.4,2.13.4 CBI
3066880	2017, Determination of Physical-Chemical Properties of Prothioconazole, DACO: 2.13.3,2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.14,2.14.15,2.14.2,2.14.3, 2.14.4,2.14.6,2.14.7,2.14.8,2.14.9,830.7000 CBI
3066881	2017, Determination of Physical-Chemical Properties of Prothioconazole, DACO: 2.13.3,2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.14,2.14.15,2.14.2,2.14.3, 2.14.4,2.14.6,2.14.7,2.14.8,2.14.9,830.7000 CBI
3174514	2020, Prothioconazole technical. Determination of [CBI REMOVED] in 5 batch of the substance, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI