

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2022-3872
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment
Product: Sharda Saflufenacil Technical
Registration Number: 35150
Active ingredient (a.i.): Saflufenacil
PMRA Document Number: 3560556

Purpose of Application

The purpose of this application was to register the technical product, Sharda Saflufenacil Technical, based on a registered precedent product.

Chemistry Assessment

Common Name: Saflufenacil
IUPAC* Chemical Name: 2-chloro-4-fluoro-*N*-[isopropyl(methyl)sulfamoyl]-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-3,6-dihydropyrimidin-1(2*H*)-yl]benzamide
CAS† Chemical Name: 2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2*H*)-pyrimidinyl]-4-fluoro-*N*-[[methyl(1-methylethyl)amino]sulfonyl]benzamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Sharda Saflufenacil Technical has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	98.26%
Odour	Odourless
Density	1.52–1.62 g/mL at 20°C
Vapour pressure	4.5×10^{-12} mPa at 20°C
pH	6.84 (1% w/v) at 20°C

Property	Result
Solubility in water	<p><u>pH</u> <u>Solubility (g/L)</u></p> <p>4 (buffer) 0.0167</p> <p>7 (buffer) 1.1015</p> <p>double distilled 0.0275</p>
n-Octanol/water partition coefficient	<p><u>pH</u> <u>log K_{ow}</u></p> <p>4.0 (buffer) 2.26</p> <p>7.0 (buffer) 1.61</p> <p>double distilled 1.67</p>

The required chemistry data for Sharda Saflufenacil 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 register Sharda Saflufenacil Technical.

References

PMRA Document Number	Reference
3378248	2019, Five Batch Analysis of Saflufenacil Technical (TC), DACO: 2.13.1,2.13.2,2.13.3,2.13.4
3378249	2019, Five Batch Analysis of Saflufenacil TC-[CBI Removed] Test, DACO: 2.13.1,2.13.2,2.13.3,2.13.4
3378251	2022, Determination of Physicochemical Properties of Saflufenacil Technical, DACO: 2.14.1,2.14.10,2.14.12,2.14.15,2.14.2,2.14.3,2.14.4,2.14.6,830.7000
3378252	2021, Stability to Normal and Elevated Temperatures, Metals and Metal Ions and Corrosion Characteristics of Saflufenacil Technical, DACO: 2.14.13,2.14.14
3378254	2021, Stability to Normal and Elevated Temperatures, Metals and Metal Ions and Corrosion Characteristics of Saflufenacil Technical (Amendment No. 1 to Final Report), DACO: 2.14.13,2.14.14
3378256	2021, Stability to Normal and Elevated Temperatures, Metals and Metal Ions and Corrosion Characteristics of Saflufenacil Technical (Study Plan Amendment No. 1), DACO: 2.14.13,2.14.14
3378257	2022, Solubility in Water and Organic Solvents of Saflufenacil Technical, DACO: 2.14.7,2.14.8
3378258	2022, Five Batch Analysis of Saflufenacil Technical, DACO: 2.13.3,2.4
3378537	2022, Determination of Partition Coefficient (n-octanol/water) of Saflufenacil Technical, DACO: 2.14.11
3378538	2022, Determination of Vapour Pressure and Henrys Law Constant of Saflufenacil Technical, DACO: 2.14.9
3495365	2023, Synthesis and Impurity Formation of Saflufenacil Technical Grade, DACO: 2.11,2.11.4,2.13.3,2.13.4 CBI
3546989	2024, Determination of [CBI Removed] in Saflufenacil Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3556451	2024, Response to Clarifications for Sub. No. 2022-3872, Sharda Saflufenacil Technical, DACO: 2.13.3 CBI

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