

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2022-0779
Application: Submissions subject to Protection of Proprietary Interests in Pesticide Data Policy – Equivalency/Data Compensation Assessment
Product: Sharda Pyroxsulam Technical
Registration Number: 34882
Active ingredient (a.i.): Pyroxsulam
PMRA Document Number: 3435088

Purpose of Application

The purpose of this application was to register Sharda Pyroxsulam Technical, a new source of the technical grade active ingredient pyroxsulam, based on a registered precedent product.

Chemistry Assessment

Common Name: Pyroxsulam
IUPAC* Chemical Name: *N*-(5,7-dimethoxy[1,2,4]triazolo[1,5-*a*]pyrimidin-2-yl)-2-methoxy-4-(trifluoromethyl)pyridine-3-sulfonamide
CAS† Chemical Name: *N*-(5,7-dimethoxy[1,2,4]triazolo[1,5-*a*]pyrimidin-2-yl)-2-methoxy-4-(trifluoromethyl)-3-pyridinesulfonamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Sharda Pyroxsulam Technical has the following properties:

Property	Result
Colour and physical state	Light yellow, solid powder
Nominal concentration	97.89%
Odour	Odourless
Density	1.62 – 1.63 g/mL at 20°C
Vapour pressure	1.346×10 ⁻⁴ mPa at 20°C (extrapolated) 3.121×10 ⁻⁴ mPa at 25°C (extrapolated)
pH	7.46 (1% solution)
Solubility in water	<p><u>pH</u> <u>Solubility (mg/L)</u></p> Double distilled water 50.2 4 20.7 7 3,243 9 16,311

Property	Result
n-Octanol/water partition coefficient	<p>pH <u>log K_{ow}</u></p> <p>Double distilled water 0.61</p> <p>4 1.08</p> <p>7 1.14</p> <p>9 -2.00</p>

The required chemistry data for Sharda Pyroxsulam 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 Sharda Pyroxsulam Technical.

References

PMRA Document Number	Reference
3322572	2022, Pyroxsulam Manufacture Process, DACO: 2.11.3 CBI
3322573	2021, Five Batch Analysis of Pyroxsulam Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3322574	2021, Physicochemical Properties of Pyroxsulam 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 CBI
3322577	2021, Determination of Partition Coefficient (n-Octanol/Water) of Pyroxsulam Technical, DACO: 2.14.11
3322578	2021, Stability to Normal, Elevated Temperatures, Metals, Metal Ions and Corrosion Characteristics of Pyroxsulam Technical, DACO: 2.14.1,2.14.13,2.14.14,2.14.15,2.14.2,2.14.3
3322579	2021, Solubility of Pyroxsulam Technical, DACO: 2.14.7,2.14.8
3322580	2021, Determination of Vapour Pressure of Pyroxsulam Technical, DACO: 2.14.9
3370047	2022, Declaration Letter of Commercial Production of 5 Batches, DACO: 2.13.3 CBI
3370048	2022, Letter of Confirmation of Source of Supply, DACO: 2.13.3 CBI
3370049	2022, Pyroxsulam Manufacture Process – Revised, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3370050	2022, Five Batch Analysis of Pyroxsulam Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI

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