

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2023-5881
Application: Submissions subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment
Applicant: Farmer’s Business Network Canada, Inc.
Product: Sulfentrazone Technical
Registration Number: 35355
Active ingredient (a.i.): Sulfentrazone
PMRA Document Number: 3616824

Purpose of Application

The purpose of this application was to register Sulfentrazone Technical, a new source of the active ingredient sulfentrazone, based on a registered precedent product.

Chemistry Assessment

Common Name: Sulfentrazone
 IUPAC* Chemical Name: 2',4'-dichloro-5'-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]methanesulfonanilide
 CAS† Chemical Name: N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]methanesulfonamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Sulfentrazone Technical has the following properties:

Property	Result
Colour and physical state	Tan solid
Nominal concentration	95.9%
Odour	Mild sulphur like
Density	1.6497 g/mL
Vapour pressure	2.0606×10^{-3} mPa at 20°C
pH	6.58
Solubility in water	841.6 mg/L at pH 7

Property	Result
n-Octanol/water partition coefficient	log K _{ow} = 1.18 at pH 7

The required chemistry data for Sulfentrazone 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 Sulfentrazone Technical.

References

PMRA

Document Number

Reference

3514846	2020, Five Batch Analysis of Sulfentrazone Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3514847	2022, Five Batch Analysis of Sulfentrazone Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3516041	2020, Five Batch Analysis of Sulfentrazone Technical, DACO: 2.13.1,2.13.2,2.13.3
3516042	2023, Five Batch Analysis of Sulfentrazone Technical (Amendment 2), DACO: 2.13.1,2.13.2,2.13.3
3516043	2021, Five Batch Analysis of Sulfentrazone Technical (Amendment 1), DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3516044	2023, Five Batch Analysis of Sulfentrazone Technical (Amendment 2), DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3516045	2021, Determination of Appearance (Color, Odor and Physical State) of Sulfentrazone Technical, DACO: 2.14.1,2.14.2,2.14.3
3516046	2021, Determination of Dissociation Constant(s) of Sulfentrazone Technical, DACO: 2.14.10
3516047	2021, Determination of Partition Coefficient (n-Octanol/Water) of Sulfentrazone Technical, DACO: 2.14.11
3516048	2021, UV-VIS Absorption Spectra of Sulfentrazone Technical, DACO: 2.14.12
3516049	2021, Accelerated Storage Stability Test and Corrosion Characteristics of Sulfentrazone Technical, DACO: 2.14.13
3516050	2021, Stability to Metals and Metal Ions of Sulfentrazone Technical, DACO: 2.14.13
3516051	2021, Determination of pH of 1% (w/v) Aqueous Suspension/Solution of Sulfentrazone Technical, DACO: 2.14.15
3516052	2021, Determination of Melting Range and Melting Point of Sulfentrazone Technical, DACO: 2.14.4
3516053	2021, Determination of Density, Relative Density and Specific Gravity of Sulfentrazone Technical, DACO: 2.14.6
3516054	2021, Determination of Water Solubility of Sulfentrazone Technical, DACO: 2.14.7
3516055	2021, Determination of Solubility of Sulfentrazone Technical in Organic Solvents, DACO: 2.14.8
3516056	2021, Determination of Vapour Pressure and Henrys Law Constant of Sulfentrazone Technical, DACO: 2.14.9
3521778	2023, Manufacturing Process - revised, DACO: 2.11 CBI

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