Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-2709
Application: Submissions Subject to Protection of Proprietary Interests in Pesticide Data Policy/ Data Compensation Assessment
Product: Rotam Metsulfuron Technical
Registration Number: 34471
Active ingredient (a.i.): Metsulfuron-methyl
PMRA Document Number: 3330576

Purpose of Application

The purpose of this application was to register a new source of metsulfuron-methyl, Rotam Metsulfuron Technical, based on a precedent.

Chemistry Assessment

Common Name: Metsulfuron-methyl
IUPAC* Chemical Name: methyl 2-{[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)carbamoyl]sulfamoyl}benzoate
CAS† Chemical Name: methyl 2-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate

* International Union of Pure and Applied Chemistry
† Chemical Abstracts Service

Rotam Metsulfuron Technical has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	98.89%
Odour	Ester-like
Density	1.46081 – 1.48398 g/mL at 20.2°C
Vapour pressure	3.88 x 10^{-9} Pa at 20°C
pH	3.95 (1% solution)

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Property	Result
Solubility in water	pH Solubility (g/L) 5.0 0.60 6.33(unbuffered) 0.20 7.0 11.87 9.0 37.10
n-Octanol/water partition coefficient	pH log K_{ow} 5.0 -0.127 6.33 (unbuffered) 0.407 7.0 -1.356 9.0 -1.954

The required chemistry data for Rotam Metsulfuron 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 provide and has found it sufficient to support the registration of Rotam Metsulfuron Technical.

References

PMRA Document Number	References
3238654	2021, Manufacturing Process of Metsulfuron-Methyl Technical, DACO: 2.11.1,2.11.2,2.11.3,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3238656	2020, Analysis of Five Representative Production Batches of Metsulfuron-Methyl Technical Grade Active Ingredient (TGAI) To Identify And Quantify Metsulfuron-Methyl And Its Associate Impurities, DACO: 2.12.1,2.13.1,2.13.2,2.13.3,2.13.4,2.2 CBI
3238657	2013, Certificate of Analysis for Metsulfuron-Methyl Technical, DACO: 2.12.1,2.13.1,2.14.1,2.14.2,2.14.3,2.14.6
3238658	2003, Determination of Physical and Chemical Properties of Metsulfuron Methyl Technical Dissociation Constant, DACO: 2.14.10
3238659	2003, Determination of Physical and Chemical Properties of Metsulfuron Methyl Technical UV/Visible Spectroscopy, DACO: 2.14.12
3238660	2021, Study on the Stability Of Metsulfuron Methyl Technical in Presence of Metals And Metal Ions, DACO: 2.14.13
3238661	2009, Ambient Temperature Shelf life of Metsulfuron Methyl Technical, DACO: 2.14.14
3238662	2003, Determination of Physical and Chemical Properties of Metsulfuron Methyl Technical pH of a Dilution, DACO: 2.14.15
3238663	2013, Study on the Physico-Chemical Properties of Metsulfuron-Methyl Technical, DACO: 2.13.1,2.14.11,2.14.4,2.14.7,2.14.9
3238664	2003, Determination of Physical and Chemical Properties of Metsulfuron Methyl Technical Solubility in Organic Solvents, DACO: 2.14.8
3238665	2003, Determination of Physical and Chemical Properties of Metsulfuron Methyl Technical Stability in Air, DACO: 2.16
3324649	2022, Amendment No. 01 to Final Report Study No : 2693 Analysis of Five Representative Production Batches Of Metsulfuron-Methyl Technical Grade Active Ingredient (TGAI) to Identify and Quantify Metsulfuron-Methyl and its Associate Impurities, DACO: 2.13.3 CBI

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