



Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2025-0135
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PPIP) Policy – Equivalency/Data Compensation Assessment
Applicant: Rainbow Crop Sciences Inc.
Product: Rainbow Rimsulfuron Technical
Registration Number: 35869
Active ingredient (a.i.): Rimsulfuron
PMRA Document Number: 3772568

Purpose of Application

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

Chemistry Assessment

Common Name: Rimsulfuron
IUPAC* Chemical Name: *N*-[(4,6-dimethoxypyrimidin-2-yl)carbamoyl]-3-(ethylsulfonyl)pyridine-2-sulfonamide
CAS† Chemical Name: *N*-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(ethylsulfonyl)-2-pyridinesulfonamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Rainbow Rimsulfuron Technical has the following properties:

Property	Result
Colour and physical state	White solid (powder)
Nominal concentration	99.3%
Odour	Characteristic odour
Density	1.4321 g/mL at 20 °C
Vapour pressure	3.02×10^{-2} Pa (2.26×10^{-4} mmHg) at 20 °C
pH	4.3 (1 % aqueous solution)



Property	Result	
Solubility in water at 20 °C	<u>pH</u>	<u>Solubility</u>
	3.3	0.039 mg/L
	4	0.045 mg/L
	7	3.93 g/L
	9	5.09 g/L
n-Octanol/water partition coefficient	log K _{ow} = 0.98, pH = 4.74 log K _{ow} = 3.34, pH = 4 log K _{ow} = -1.39, pH = 7 log K _{ow} = -2.67, pH = 9	

The required chemistry data for Rainbow Rimsulfuron 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 Rainbow Rimsulfuron Technical.

References

PMRA Document Number	Reference
3675583	2024, Manufacture Process of Rainbow Rimsulfuron Technical, DACO: 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
3675584	2024, Impurity Justification of Rimsulfuron Technical, DACO: 2.11.4 CBI
3675586	2022, Rimsulfuron Technical: Validation of the Analytical Method for the Determination of Active Ingredient Content, DACO: 2.13, 2.13.1 CBI
3675587	2022, Rimsulfuron Technical: Validation of the Analytical Method for the Determination of the Significant Impurities Content, DACO: 2.13, 2.13.1 CBI
3675588	2022, Rimsulfuron Technical: Spectroscopic Characterization of Five Batch Samples, DACO: 2.13, 2.13.2 CBI
3675589	2022, Rimsulfuron Technical: Complete Analysis of Five Batch Samples, DACO: 2.13, 2.13.2, 2.13.3
3675590	2022, Rimsulfuron Technical: Complete Analysis of Five Batch Samples-confidential attachment, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3675591	2022, Rimsulfuron Technical: Validation of the Analytical Method for the Determination of [CBI removed] as residual solvent Content, DACO: 2.13, 2.13.1, 2.13.4 CBI
3675593	2024, Rimsulfuron Technical: Determination of the Physico-chemical Properties, DACO: 2.14, 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.15, 2.14.2, 2.14.3, 2.14.4, 2.14.5, 2.14.6, 2.14.7, 2.14.8, 2.14.9 CBI
3675594	2024, Rimsulfuron Technical: Determination of the Accelerated Storage Stability at normal and elevated temperature with metals and metal ions, DACO: 2.14.13 CBI
3675595	2024, Rimsulfuron Technical: Determination of the Accelerated Storage Stability and Corrosion Characteristics, DACO: 2.14.14 CBI

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