



Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2022-1531
Application: Submissions subject to Protection of Proprietary Interests in Pesticide Data Policy – Equivalency/Data Compensation Assessment
Product: Albaugh Nicosulfuron Technical
Registration Number: 34824
Active ingredient (a.i.): Nicosulfuron
PMRA Document Number: 3435002

Purpose of Application

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

Chemistry Assessment

Common Name: Nicosulfuron
IUPAC* Chemical Name: 2-{{[(4,6-dimethoxypyrimidin-2-yl)carbamoyl]sulfamoyl}}-*N,N*-dimethylpyridine-3-carboxamide
CAS† Chemical Name: 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino] sulfonyl]-*N,N*-dimethyl-3-pyridinecarboxamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Albaugh Nicosulfuron Technical has the following properties:

Property	Result	
Colour and physical state	white powder	
Nominal concentration	98%	
Odour	mild characteristic odour	
Density	1.35-1.36 g/mL at 20.0°C	
Vapour pressure	1.94×10^{-8} Pa at 20°C	
pH	4.09 (1% solution)	
Solubility in water	<u>pH</u>	<u>Solubility (g/L)</u>
	5.0	0.171
	7.0	7.54
	9.0	23.6

Property	Result
n-Octanol/water partition coefficient	<u>pH</u> <u>log K_{ow}</u>
	distilled water (5.72) 0.150
	5.0 -0.239
	7.0 -1.765
	9.0 -1.996

The required chemistry data for Albaugh Nicosulfuron 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 Albaugh Nicosulfuron Technical.

References

PMRA Document Number	Reference
3342398	2017, Analysis of Five Representative Production Batches of Nicosulfuron Technical Grade Active Ingredient (TGAI) to Identify and Quantify Nicosulfuron and Its Associate Impurities, DACO: 2.12.1,2.13.1,2.13.2,2.13.3,2.13.4,2.2.2,2.5,2.6,2.7,2.8,2.9 CBI
3342400	2017, Nicosulfuron Technical - Product Identity and Composition, Description of Materials, Manufacturing Process, Formation of Impurities, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3342401	2006, Determination of Physical and Chemical Properties of Nicosulfuron Technical, DACO: 2.14.10
3342402	2018, Study on the Accelerated Storage Stability of Nicosulfuron Technical at 54°C for 14 Days, DACO: 2.14.13,2.14.14
3342404	2013, Study on the Physico-Chemical Properties of Nicosulfuron Technical, DACO: 2.14.11,2.14.4,2.14.7,2.14.9
3342405	2018, Study on the Physico-Chemical Properties of Nicosulfuron Technical, DACO: 2.14.1,2.14.15,2.14.2,2.14.3, 2.14.4,2.14.6,2.14.7,2.14.8
3342406	2006, Determination of Physical and Chemical Properties of Nicosulfuron Technical - UV - Visible Spectroscopy, DACO: 2.14.12

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