

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2020-0644
Application: Submissions subject to PPIP policy-Equivalency/Data Compensation Assessment
Product: Nufarm Imazamox Technical
Registration Number: #####
Active ingredient (a.i.): Imazamox
PMRA Document Number: 3189389

Purpose of Application

The purpose of this application was to register a new technical grade product containing imazamox based on a registered precedent.

Chemistry Assessment

Common Name: Imazamox
IUPAC* Chemical Name: 2-[(4*RS*)-4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl]-5-(methoxymethyl)pyridine-3-carboxylic acid
CAS† Chemical Name: 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Nufarm Imazamox Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98.6%
Odour	No specific odour
Density	1.33 g/mL at 20 °C
Vapour pressure	6.3 × 10 ⁻⁸ mPa at 20 °C 2.1 × 10 ⁻⁷ mPa at 25 °C
pH	2.85 (1% w/v in water)
Solubility in water	4160 mg/L (deionized) 1.16 × 10 ⁵ mg/L at pH 5 >6.26 × 10 ⁵ mg/L at pH 7 >6.28 × 10 ⁵ mg/L at pH 9

Property	Result
n-Octanol/water partition coefficient	log K _{ow} = -2.9 at pH 7 log K _{ow} = -0.3 at pH 4

The required chemistry data for Nufarm Imazamox 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 it sufficient to support the registration of Nufarm Imazamox Technical.

References

PMRA

Document

Number	Reference
3092267	2018, Manufacturing Process of Imazamox, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.2, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
3092268	2015, Five Batches Analysis of Imazamox Technical, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4, 2.14.12 CBI
3092269	2015, Color, Physical State, Odor, pH and Density Test of Imazamox TC, DACO: 2.14.1, 2.14.2, 2.14.3, 2.14.6
3092270	2015, Melting Point Test of Imazamox TC, DACO: 2.14.4 CBI
3174932	2020, 2020-0644_Clarification Response_26NOV2020, DACO: 2.11, 2.11.2, 2.11.3, 2.13.3 CBI

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