

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2021-5019

Application: New Technical Grade Active Ingredient (Product Chemistry) –

New Source (Site) New Registrant

Product: Imazamox TC Technical Herbicide

Registration Number: 34835 **Active ingredient (a.i.):** Imazamox **PMRA Document Number:** 3435977

Purpose of Application

The purpose of this application was to register Imazamox TC Technical Herbicide, a new source of the active ingredient imazamox.

Chemistry Assessment

Common Name: Imazamox

IUPAC* Chemical Name: 2-[(4RS)-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

Imazamox TC Technical Herbicide has the following properties:

Property	Result		
Colour and physical state	Off-white solid		
Nominal concentration	98.39%		
Odour	Odourless		
Density	1.39 g/mL at 20°C		
Vapour pressure	$< 1.3 \times 10^{-2} \text{ mPa at } 25^{\circ}\text{C}$		
рН	2.35		
Solubility in water	pH Solubility (g/L) at 25°C 5 116 7 > 626 9 > 628 Deionized 4.160 (20°C) water		



^{*} International Union of Pure and Applied Chemistry

[†] Chemical Abstracts Service

Property	Result	
n-Octanol/water partition coefficient	<u>pH</u>	$log K_{ow}$
	5	-1.03
	7	-2.4

The required chemistry data for Imazamox TC Technical Herbicide 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 Imazamox TC Technical Herbicide.

Additional Information Being Requested

Since this technical product is manufactured only at pilot scale before registration, five-batch data representing commercial-scale production at the approved manufacturing site will be required as post-market information after registration.

References

PMRA Document Number	Reference
3269413	2019, Imazamox TGAI 5BA, [Privacy Info Removed] Amendment to Final Report, DACO: 2.13.1,2.13.2,2.13.3,2.13.4
3269414	2018, Imazamox TGAI 5BA, [Privacy Info Removed] Final Report, DACO: 2.13.1,2.13.2,2.13.3,2.13.4
3308042	2019, Qualitative and Quantitative Profile of the Test Item Imazamox (Five Batch Analysis), Amendment 2, DACO: 2.13.4 CBI
3308043	2020, Qualitative and Quantitative Profile of the Test Item Imazamox (Five Batch Analysis), Amendment 3, DACO: 2.13.4 CBI
3430773	2023, Manufacturing Method of Imazamox TGAI [Privacy Info Removed] Revised, DACO: 2.11

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