



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2021-6442
Application: Changes to TGAI Product Chemistry – New Source (site) Same Registrant
Product: ADAMA IMAZAMOX TECHNICAL HERBICIDE
Registration Number: 32750
Active ingredient (a.i.): Imazamox
PMRA Document Number: 3436201

Purpose of Application

The purpose of this submission is to add a new manufacturing site to ADAMA IMAZAMOX TECHNICAL HERBICIDE.

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

ADAMA IMAZAMOX TECHNICAL HERBICIDE has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	97.41%
Odour	Odourless
Density	1.39 g/mL at 20°C
Vapour pressure	<0.013 mPa (at 25°C)
pH	2 - 3
Solubility in water	4.16 g/L (deionized), 116 g/L (pH 5), >626 g/L (pH 7), >628 g/L (pH 9)

Property	Result
n-Octanol/water partition coefficient	Log K _{ow} = 0.73

The required chemistry data for ADAMA IMAZAMOX 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 it acceptable to support the addition of the manufacturing site to ADAMA IMAZAMOX TECHNICAL HERBICIDE.

References

PMRA Document Number	References
2624737	2015, Storage Stability and Corrosion Characteristics of Imazamox Technical Stored at 54C Temperature for 14 Days, DACO: 2.14.1,2.14.13,2.14.14,2.14.15,2.14.2,2.14.3,830.7000 CBI
2624738	2001, General Information for Imazamox, DACO: 2.14.4,2.14.5,2.14.9
2624739	2005, PUBCHEM Open Chemistry Datadase-Imazamox, DACO: 2.14.10,2.14.11,2.14.12,2.14.15,2.14.6,2.14.7,2.14.8,830.7000
3297837	2021, Analysis of Five Representative Production Batches of Imazamox Technical Grade Active Ingredient (TGAI) to Identify and Quantify Imazamox and its Associate Impurities, DACO: 2.13.1,2.13.2,2.13.3 CBI
3297838	2021, Determination of Solvent Impurities in Five Representative Production Batches of Imazamox Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3297839	2021, Preliminary Analysis and Enforcement Analytical Method of One Impurity in Imazamox Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3297840	2021, Imazamox - Document JCA - Confidential Information, 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
3297841	2021, KCA 1.11_04 Declaration letter for the batch size of Imazamox TC, DACO: 2.11.1 CBI
3411812	2021, JNWM-Report 3437 Determination of Imp 7 in 5 batches of Imazamox Tech, DACO: 2.13.4 CBI

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