

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2016-0139
Application: New Technical Grade Active Ingredient Product Chemistry – New Source (Site) New Registrant
Product: NEWAGCO IMAZAMOX Technical
Registration Number: 32994
Active ingredients (a.i.): Imazamox
PMRA Document Number: 2721757

Purpose of Application

The purpose of this application was to register NEWAGCO IMAZAMOX Technical, a new source of the active ingredient imazamox, by a new registrant.

Chemistry Assessment

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

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

NEWAGCO IMAZAMOX Technical has the following properties:

Property	Result
Colour and physical state	Off white powder
Nominal concentration	98.5%
Odour	No obvious pungent smell
Density	1.2338 g/cm ³
Vapour pressure	6.09 × 10 ⁻³ mPa (at 23°C) 2.36 × 10 ⁻² mPa (at 30°C)
pH	2.81
Solubility in water	4.26 g/L

Property	Result
n-Octanol/water partition coefficient	Log K _{ow} = 0.34

The required chemistry data for NEWAGCO 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 available information and is able to support the full registration of NEWAGCO IMAZAMOX Technical.

References

PMRA Document Number	References
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2598050	2015, DACO 2 Chemistry Requirements for the Registration of a Technical Grade of Active Ingredients (TGAI) for NewAgco Imazamox Technical, DACO: 2.1,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
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2598052	2015, DACO 2.12.1 Establishing Certified Limits, DACO: 2.12.1 CBI
2598053	2015, DACO_2.14.5_Boiling Point, DACO: 2.14.5
2598066	2015, Manufacturing Process of Imazamox Technical Grade, DACO: 2.11.2,2.11.3,2.11.4 CBI
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2598074	2015, Accelerated Storage Stability Test of Imazamox Technical, DACO: 2.14.13,2.14.14 CBI
2598075	2015, Appearance Test of Imazamox Technical, DACO: 2.14.1,2.14.2,2.14.3 CBI
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2598078	2015, Water Solubility Test of Imazamox Technical, DACO: 2.14.7 CBI
2598079	2015, Solubility in Organic Solvents Test of Imazamox Technical, DACO: 2.14.8 CBI
2598081	2015, 2.16-3_Flammability Test of Imazamox Technical, DACO: 2.16 CBI
2598082	2015, 2.16-4_Hydrolysis Test of Imazamox Technical, DACO: 2.16 CBI
2598083	2015, 2.16-5_Oxidizing Properties Test of Imazamox Technical, DACO: 2.16 CBI
2598084	2015, 2.16-6_pH Test of Imazamox Technical, DACO: 2.16 CBI
2598086	2015, 2.16-2_Corrosiveness of Imazamox TC, DACO: 2.14.13,2.16 CBI
2649334	2016, Justification of impurities for Imazamox technical, DACO: 2.11.4
2687421	2016, Discussion of formation of impurities, DACO: 2.11.4
2687422	2016, Study for residual [CBI removed] analysis of Imazamox Technical batches, DACO: 2.13.4
2694948	2016, Discussion of Formation of Impurities, DACO: 2.11.4 CBI
2694953	2016, Study for Residual [CBI removed] Analysis of Imazamox Technical Batches, DACO: 2.13.4 CBI

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