

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-3455
Application: Submissions Subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation
Product: FBN Imazamox Technical
Registration Number: 34602
Active ingredient (a.i.): Imazamox
PMRA Document Number: 3361748

Purpose of Application

The purpose of this application was to register a new source of imazamox, FBN Imazamox Technical, based on 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
French IUPAC Name: acide (rs)-2-(4-isopropyl-4-méthyl-5-oxo-imidazolin-2-yl)-5-méthoxyméthylnicotinique
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

FBN 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 | 1.14 x 10 ⁻⁵ mPa at 25°C |
| pH | 2.85 |

| Property | Result |
|---------------------------------------|--|
| Solubility in water | 8.0 g/L (pH 5), 6.5 g/L (pH 7), 21.8 g/L (pH 9) |
| n-Octanol/water partition coefficient | log K _{ow} = -0.57 (pH 5), -2.59 (pH 7), -2.86 (pH 9) |

The required chemistry data for FBN 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 the information sufficient to support the registration of FBN Imazamox Technical.

References

| PMRA Document Number | References |
|----------------------|--|
| 3254353 | 2021, Manufacturing process of Imazamox TC, DACO: 2.11.1,2.11.2,2.11.3, 2.11.4 CBI |
| 3254363 | 2021, Color, Physical State, Odor, pH and Density Test of Imazamox TC, DACO: 2.14.1,2.14.15,2.14.2,2.14.3,2.14.6 |
| 3254364 | 2015, Melting Point Test of Imazamox TC, DACO: 2.14.4 |
| 3254365 | 2015, Storage Stability and Corrosion Characteristics, Oxidation-Reduction Chemical Incompatibility Test of Imazamox TC, DACO: 2.14.13,2.14.14 |
| 3254366 | 2015, UV/VIS Absorption Spectrum test of Imazamox TC, DACO: 2.14.12 |
| 3254367 | 2021, Five Batches Analysis of Imazamox Technical, DACO: 2.13.1,2.13.2, 2.13.3,2.13.4 CBI |
| 3254368 | 2021, Physico-chemical Properties of Imazamox Technical, DACO: 2.14.10, 2.14.11,2.14.7,2.14.8,2.14.9 |

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