

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2011-2123
Application: New Source of Technical Grade Active by a New Registrant
Product: Aceto Imazethapyr Technical
Registration Number: 34430
Active ingredients (a.i.): Imazethapyr
PMRA Document Number : 3326416

Purpose of Application

The purpose of this application was to register a new source of Imazethapyr, Aceto Imazethapyr Technical, by a new registrant.

Chemistry Assessment

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

Aceto Imazethapyr Technical has the following properties:

| Property | Result |
|---------------------------------------|------------------------------------|
| Colour and physical state | Colorless crystals |
| Nominal concentration | 99.5% |
| Odour | Odourless |
| Density at 21°C | 1.10-1.12 g/cm ³ |
| Vapour pressure at 25°C | 1.33 × 10 ⁻² mPa |
| pH | 3.4-3.6 (limits 3.0-5.0) |
| Solubility in water | 1.4 g/L |
| n-Octanol/water partition coefficient | Log K _{ow} = 1.49 at pH 7 |

The chemistry requirements for Aceto Imazethapyr Technical have been completed.

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 Aceto Imazethapyr Technical.

References

| PMRA Document Number | References |
|-----------------------------|--|
| 2054277 | 2010, DACO 2 Chemistry Requirements for the Registration of a Technical Grade of Active Ingredients (TGAI) for Aceto Imazethapyr Technical, DACO: 2.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI |
| 2054279 | 2010, Raw Material Specifications for Imazethapyr Technical, DACO: 2.11.2 CBI |
| 2054280 | 2010, Raw Material Specifications for Imazethapyr Technical, DACO: 2.11.2 CBI |
| 2054281 | 2010, Raw Material Specifications for Imazethapyr Technical, DACO: 2.11.2 CBI |
| 2054282 | 2010, Detailed Manufacturing Method of Imazethapyr, DACO: 2.11.2,2.11.3 CBI |
| 2054284 | 2010, Preliminary Analysis of Imazethapyr TGAI, DACO: 2.12.1, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI |
| 2054285 | 2010, Pre-study for Imazethapyr TGAI, DACO: 2.13.1, 2.13.2, 2.14.1, 2.14.13, 2.14.14, 2.14.2, 2.14.3, 2.14.4, 2.14.6, 2.14.7, 2.14.8, 2.14.9 CBI |
| 2054286 | N/A, 2010, imazethapyr (Ref: AC 252925), DACO: 2.14.10, 2.14.11, 2.14.12, 2.14.13, 2.14.2, 2.14.4, 2.14.5, 2.14.6, 2.14.7, 2.14.8, 2.14.9 |
| 2054287 | 2010, DACO 2.15 Sample(S) of Analytical Standards and Roc for Aceto Imazethapyr Technical, DACO: 2.15 CBI |
| 2100384 | 2010, Detailed Manufacturing Method of Imazethapyr, DACO: 2.11.2,2.11.3 CBI |
| 2100385 | 2011, Imazethapyr impurity profile, DACO: 2.11.4 CBI |

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