

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number:	2022-0953
Application:	New Technical Grade Active Ingredient (Product Chemistry) –
	New Source (Site), Same Registrant
Product:	Pursuit Technical Herbicide AC 263,499
Registration Number:	21536
Active ingredient (a.i.):	Imazethapyr
PMRA Document Number: 3436081	

Purpose of Application

The purpose of this application was to register a new manufacturing site for Pursuit Technical Herbicide AC 263,499.

Chemistry Assessment

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

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	97.3%
Odour	Moderate pungent odour
Density	0.396 g/mL (untapped), 0.459 g/mL (tapped)
Vapour pressure	0.0133 mPa at 60°C
pН	2.85
Solubility in water	<u>pH</u> <u>Solubility (g/L)</u> distilled water 1.3
	4 2.4
	7 5.0
	9 7.1

Pursuit Technical Herbicide AC 263,499 has the following properties:



Property	Result
n-Octanol/water partition coefficient	pH log K _{ow} distilled water (3.9) 0.81 5 (4.8) -0.03 -0.03 7 (6.8) -1.75 9 (8.7) -2.27

The required chemistry data for Pursuit Technical Herbicide AC 263,499 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 a new manufacturing site for Pursuit Technical Herbicide AC 263,499.

References

PMRA Document Number	Reference
3326564	2021, Determination of Reg.No.194030 in BAS 685 H by High Performance Liquid Chromatography (HPLC), DACO: 2.13.1 CBI
3326565	2021, Determination of Minor Components in Technical Grade Active Ingredient Imazethapyr by High Performance Liquid Chromatography (HPLC), DACO: 2.13.1 CBI
3326566	2021, Determination of [CBI Removed] in Technical Product BAS 685 H by Gas Chromatography with Headspace, DACO: 2.13.1 CBI
3326568	2021, Quali-quantitative Analysis of Five Batches of Technical Imazethapyr (BAS 685 H, TGAI) Manufactured by [Private Information Removed], Including Method Verification for Impurities and Method Validation for Solvents, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3326570	2022, Product Identity and Composition of Imazethapyr for [Private Information Removed] (for CA), DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1 CBI

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