

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-0184
Application: Submission Subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) policy – Equivalency/Data Compensation Assessment
Product: Aceto Bentazon Technical
Registration Number: 34510
Active ingredient (a.i.): Bentazone
PMRA Document Number : 3318270

Purpose of Application

The purpose of this application was to register Aceto Bentazon Technical, a new source of the technical grade active ingredient benzatone, based on a registered precedent.

Chemistry Assessment

Common Name: Bentazone
IUPAC* Chemical Name: 3-isopropyl-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide
CAS† Chemical Name: 3-(1-methylethyl)-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Aceto Bentazon Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	97.89 %
Odour	Odourless
Density	1.39-1.45 g/mL at 20°C
Vapour pressure	3.16×10^{-3} Pa (20°C)
pH	2.93 (1% solution) at 25°C
Solubility in water	0.56 g/L (pH 2.90)
n-Octanol/water partition coefficient	log Kow = -0.55 (pH 9), -0.46 (pH 7), 0.77 (pH 5)

The required chemistry data for Aceto Bentazon 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 Aceto Bentazon Technical.

References

PMRA Document Number	Reference
3190693	2020, Aceto Bentazon Technical, Product Chemistry, Group A: Product Identity and Composition, DACO: 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.13.2 CBI
3190694	2018, Five Batches Analysis of Bentazone Technical, DACO: 2.11.4, 2.13.1, 2.13.2, 2.13.3, 2.14.12, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
3190695	2019, Physico-chemical properties of Bentazone Technical, DACO: 2.14.1, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.4, 2.14.6, 2.14.7, 2.14.8, 830.7000 CBI
3190696	2019, Vapour Pressure, Explosive Property and Thermal Stability of Bentazone Technical, DACO: 2.14.9
3310677	2022, Five Batches Analysis of [CBI Removed] and [CBI Removed] in Bentazone Technical, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4
3310678	2022, Five Batches Analysis of [CBI Removed] and [CBI Removed] in Bentazone Technical, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3310681	2022, Detailed Production Process Description for Aceto Bentazon Technical, DACO: 2.11.3 CBI

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