



Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-1183
Application: Submissions Subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation
Product: Bentazon Technical Herbicide
Registration Number: 34411
Active ingredient (a.i.): Bentazon
PMRA Document Number: 3311521

Purpose of Application

The purpose of this application was to register two new sources of bentazon, Bentazon Technical Herbicide, based on a precedent.

Chemistry Assessment

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

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Bentazon Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Oyster White Solid
Nominal concentration	97.7 %
Odour	Odourless
Density	1.412 g/mL
Vapour pressure	1.79×10 ⁻⁸ Pa (at 20°C) 5.44 ×10 ⁻⁸ Pa (at 25°C)
pH	2-3 at 25°C
Solubility in water	532.0 mg/L (at 20°C)

Property	Result
n-Octanol/water partition coefficient	Log K _{ow} = 0.45

The required chemistry data for Bentazon Technical Herbicide 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 Bentazon Technical Herbicide.

References

PMRA Document Number	References
3212065	2021, Chemistry-2.1-2.2, 2.3, 2.3.1, 2.12.1, 2.14.5-Bentazon TGAI-05jan2021, DACO: 2.1, 2.12.1, 2.14.5, 2.2, 2.3, 2.3.1
3212067	2016, Manufacturing Process of Bentazone Technical Grade Active Substance, DACO: 2.11.1, 2.11.2, 2.11.3 CBI
3212068	2015, Preliminary Analysis and 5 Batch Study of Bentazone TGAI, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3212069	2015, Preliminary Analysis and 5 Batch Study of Bentazone TGAI Cross Reference # 1, DACO: 2.11.4, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3212070	2017, Five-Batch Analysis of Bentazone Technical Grade Active Ingredient, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3225966	2021, Chemistry-2.1-2.2, 2.3, 2.3.1, 2.12.1, 2.14.5-Bentazon TGAI-30april2021-revised, DACO: 2.1, 2.12.1, 2.14.5, 2.2, 2.3, 2.3.1
3235823	2017, Five - Batch Analysis of Bentazone Technical Grade Active Ingredient: Solvent Residue, DACO: 2.13.3, 2.13.4 CBI

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