

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2022-4787
Application: Changes to TGAI Product Chemistry – New Source (site) Same Registrant
Product: NewAgco Metribuzin Technical
Registration Number: 33853
Active ingredient (a.i.): Metribuzin
PMRA Document Number: 3523429

Purpose of Application

The purpose of this application was to register a new manufacturing site for NewAgco Metribuzin Technical.

Chemistry Assessment

Common Name: metribuzin
IUPAC* Chemical Name: 4-amino-6-tert-butyl-3-(methylthio)-1,2,4-triazin-5(4H)-one
CAS† Chemical Name: 4-amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

NewAgco Metribuzin Technical has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	98.9%
Odour	Mild sulfurous odour
Density	1.15–1.25 g/mL
Vapour pressure	4.0879 × 10 ⁻⁵ Pa (20 °C, extrapolated) 5.4941 × 10 ⁻⁵ Pa (25 °C, extrapolated)
pH	6.41 (1% w/v, 25.5 °C)
Solubility in water	1.10769 g/L (pH 6, 20 °C)

Property	Result
n-Octanol/water partition coefficient	$\log P_{ow} = 1.59$ (20 °C)

The required chemistry data for NewAgco Metribuzin 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 acceptable to support the addition of a new manufacturing site for NewAgco Metribuzin Technical.

References

PMRA

Document

Number

Reference

3390212	2021, Five Batch Analysis Metribuzin Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3390214	2022, Manufacturing Process, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3390220	2020, Determination of Appearance (Color, Odor and Physical State) of Metribuzin Technical, DACO: 2.14.1,2.14.2,2.14.3
3390223	2021, Stability to Metals, Metal Ions of Metribuzin Technical, DACO: 2.14.13
3390225	2020, Determination of pH of 1% (w/v) Aqueous Suspension of Metribuzin Technical, DACO: 2.14.15,830.7000
3390228	2020, Determination of Melting Range and Melting Point of Metribuzin Technical, DACO: 2.14.4
3390229	2021, Determination of Boiling Point and/or Decomposition Point of Metribuzin Technical, DACO: 2.14.5
3390230	2021, Determination of Dissociation Constant(s) of Metribuzin Technical, DACO: 2.14.10
3390231	2020, Determination of Density, Relative Density and Specific Gravity of Metribuzin Technical, DACO: 2.14.6
3390232	2021, Determination of Partition Coefficient (n-Octanol/Water) of Metribuzin Technical, DACO: 2.14.11
3390233	2021, Determination of Water Solubility of Metribuzin Technical, DACO: 2.14.7
3390234	2021, Determination of Solubility of Metribuzin Technical in Organic Solvents, DACO: 2.14.8
3390235	2021, Determination of Vapour Pressure and Henrys Law Constant of Metribuzin Technical, DACO: 2.14.9
3390236	2020, UV-VIS Absorption Spectra of Metribuzin Technical, DACO: 2.14.12
3498505	2023, Clarification Response for 2022-4787 NewAgco Metribuzin Technical, DACO: 2.13.3 CBI

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