



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2017-3278
Application: Changes to Technical Grade Active Ingredient product Chemistry –
New Source (site) same registrant
Product: Bromotril Technical
Registration Number: 27675
Active ingredients (a.i.): Bromoxynil
PMRA Document Number: 2857141

Purpose of Application

The purpose of this application was to replace a previously registered source of Bromotril Technical with a new source.

Chemistry Assessment

Common Name: Bromoxynil octanoate
IUPAC* Chemical Name: 2,6-Dibromo-4-cyanophenyl octanoate
CAS† Chemical Name: 2,6-Dibromo-4-cyanophenyl octanoate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Bromotril Technical has the following properties:

Property	Result
Colour and physical state	Brown solid
Nominal concentration	66.1% bromoxynil (present as octanoate ester)
Odour	Faint odour (fatty acid)
Density	1.4823 g/mL (at 24 °C)
Vapour pressure	8.6×10^{-4} Pa (at 25 °C)
pH	2.91
Solubility in water	0.022 mg/L (at 20–25 °C)
n-Octanol/water partition coefficient	Log K_{ow} = 5.43 ± 0.07 (pH 6.1)

The required chemistry data for Bromotril 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 available information and is able to support the replacement of a previously registered source of Bromotril Technical with a new source.

References

PMRA Document Number	References
2778943	2013, Bromoxynil Octanoate Technical Five Lots Analysis and Method Validation, DACO: 2.13.3 CBI
2778944	2013, Determination of [CBI REMOVED] in Five Batches of Bromoxynil Octanoate, DACO: 2.13.3 CBI

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