

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-5296
Application: Application subject to the Protection of Proprietary Interests in Pesticide Data Policy
Product: FBN Bromoxynil Octanoate Technical
Registration Number: 35228
Active ingredient (a.i.): Bromoxynil (present as octanoate ester)
PMRA Document Number : 3425944

Purpose of Application

The purpose of this application was to register a new source of FBN bromoxynil octanoate technical, based on a registered precedent product.

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

FBN Bromoxynil Octanoate Technical has the following properties:

Property	Result
Colour and physical state	light yellow solid
Nominal concentration	67.2%
Odour	odourless
Density	1.3762 g/cm ³ at 20°C
Vapour pressure	2.40 x 10 ⁻⁶ Pa at 25°C
pH	4.35
Solubility in water	0.065 mg/L
n-Octanol/water partition coefficient	log K _{ow} = 6.24

The required chemistry data for FBN Bromoxynil Octanoate 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 register FBN Bromoxynil Octanoate Technical.

References

PMRA Document Number	Reference
3273986	2021, Bromoxynil Octanoate Technical Manufacturing Process, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
3273997	2019, Analysis of five batches of Bromoxynil Octanoate technical material to include the determination of relevant manufacturing process impurities and validation., DACO: 2.13.1, 2.13.2, 2.13.3 CBI
3360558	2021, Analysis of [CBI Removed] in 5 batches of Bromoxynil octanoate TC, DACO: 2.11, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3273969	2021, Appearance Test of Bromoxynil Octanoate Technical (OPPTS 830.6302/6303/6304), DACO: 2.14.1, 2.14.2, 2.14.3
3273970	2021, Melting Point Test of Bromoxynil Octanoate Technical, DACO: 2.14.4
3273971	2021, Density Test of Bromoxynil Octanoate Technical (OECD 109), DACO: 2.14.6
3273972	2021, Water Solubility Test of Bromoxynil Octanoate Technical (OECD105), DACO: 2.14.7
3273974	2021, Solubility in Organic Solvents Test of Bromoxynil Octanoate Technical (CIPAC MT 181), DACO: 2.14.8
3273975	2021, Vapour Pressure Test of Bromoxynil octanoate Technical (OECD 104), DACO: 2.14.9
3273976	2021, Dissociation Constants in Water Test of Bromoxynil Octanoate Technical (OECD 112), DACO: 2.14.10
3273977	2021, Partition Coefficient (n-octanol/water) Test of Bromoxynil Octanoate Technical (OECD 117), DACO: 2.14.11
3273978	2021, UV-Vis Absorption Spectra Test of Bromoxynil Octanoate Technical (OECD 101), DACO: 2.14.12
3273979	2021, pH Value Test of Bromoxynil Octanoate Technical (CIPAC MT 75.3) OPPTS 830.7000), DACO: 2.14.15,830.7000
3273980	2021, Stability to Metals and Metal Ions Test of Bromoxynil Octanoate Technical (EPA OPPTS 830.6313), DACO: 2.14.13

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