

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2022-1059
Application: Submissions subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment
Product: FBN Bromoxynil Heptanoate Technical
Registration Number: 35234
Active ingredient (a.i.): Bromoxynil (present as heptanoate ester)
PMRA Document Number : 3453718

Purpose of Application

The purpose of this application was to register FBN Bromoxynil Heptanoate Technical, a new source of the active ingredient bromoxynil, based on a registered precedent product.

Chemistry Assessment

Common Name: Bromoxynil Heptanoate
IUPAC* Chemical Name: 2,6-dibromo-4-cyanophenyl heptanoate
CAS† Chemical Name: 2,6-dibromo-4-cyanophenyl heptanoate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

FBN Bromoxynil Heptanoate Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	68.6% (bromoxynil, present as heptanoate ester)
Odour	No characteristic odour
Density	1.61 g/mL at 20°C
Vapour pressure	1.45 mPa at 20°C 2.72 mPa at 25°C
pH	6.82, 1% solution
Solubility in water	0.11 g/mL at 20°C
n-Octanol/water partition coefficient	log K _{ow} = 5.4

The required chemistry data for FBN Bromoxynil Heptanoate 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 registration of FBN Bromoxynil Heptanoate Technical.

References

PMRA Document Number	Reference
3329497	2022, Analysis of Active Ingredient and Impurities in Five Batches Bromoxynil Heptanoate TC, DACO: 2.13.1,2.13.2,2.13.3
3329498	2022, Analysis of Active Ingredient and Impurities in Five Batches Bromoxynil Heptanoate TC - Confidential Attachment, DACO: 2.13.1,2.13.2,2.13.3 CBI
3329499	2022, Analysis for Physico-chemical Properties of 95% Bromoxynil Heptanoate TC, DACO: 2.14.13,2.14.4
3329500	2022, Analysis for Physico-chemical Properties of 95% Bromoxynil Heptanoate TC, DACO:2.14.1,2.14.10,2.14.11,2.14.12,2.14.14,2.14.15,2.14.2,2.14.3,2.14.6, 2.14.7,2.14.8,2.14.9,830.7000
3446796	2023, Manufacturing Process of Bromoxynil Heptanoate Technical - Modified 2023-03-14, DACO: 2.11.3 CBI
3446797	2023, Discussion of Impurities of Bromoxynil Heptanoate Technical [CBI REMOVED] - Modified 2023-03-20, DACO: 2.11.4 CBI
3446798	2023, CoA of [CBI REMOVED] and [CBI REMOVED] Standards - 2023-03-20, DACO: 2.13.1 CBI
3446799	2023, Statement Letter Plus 5BA CoA - 2023-03-09, DACO: 2.13.3 CBI

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