

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-5053
Application: Application subject to the Protection of Proprietary Interests in Pesticide Data Policy
Product: FBN Carfentrazone-Ethyl Technical
Registration Number: 34815
Active ingredient (a.i.): Carfentrazone-ethyl
PMRA Document Number: 3419805

Purpose of Application

The purpose of this application was to register a new source of carfentrazone-ethyl technical based on a registered precedent product.

Chemistry Assessment

Common Name: carfentrazone-ethyl
 IUPAC* Chemical Name: ethyl (RS)-2-chloro-3-{2-chloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorophenyl}propionate
 CAS† Chemical Name: ethyl α ,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

FBN Carfentrazone-Ethyl Technical has the following properties:

Property	Result
Colour and physical state	amber viscous liquid
Nominal concentration	96.7 %
Odour	weak pungent odour
Density	1.4484 g/cm ³ at 20°C
Vapour pressure	0.305 mPa (20°C), 0.533 mPa (25°C)
pH	6.1 (1% w/v)
Solubility in water	20.57 mg/L (pH 6.78)

Property	Result
n-Octanol/water partition coefficient	log K _{ow} = 3.76 (25°C)

The required chemistry data for FBN Carfentrazone-Ethyl 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 Carfentrazone-Ethyl Technical.

References

PMRA

Document

Number	Reference
3269767	2020, Technology dossier Production of technical carfentrazone-ethyl, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.13.4, 2.4, 2.5 CBI
3269768	2020, Five-Batch Analysis of Carfentrazone-ethyl Technical - Validation of Analytical Methodology for the Assay of Active Ingredient and Impurities in Carfentrazone-ethyl Technical and Subsequent 5-Batch Analysis of the Test Item, DACO: 2.13.1, 2.13.2, 2.13.3 CBI
3269769	2020, Physical and Chemical Characterization of Carfentrazone-ethyl Technical, DACO: 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.13, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.5, 2.14.6, 2.14.7, 2.14.8, 2.14.9, 830.7000
3336069	2022, CONFIDENTIAL ATTACHMENT TO FINAL REPORT - Five Batches Analysis of [CBI REMOVED] in Carfentrazone-ethyl TC, DACO: 2.13.1, 2.13.3, 2.13.4 CBI
3336070	2022, CONFIDENTIAL ATTACHMENT TO FINAL REPORT-Five Batches Analysis of [CBI REMOVED] in Carfentrazone-ethyl TC, DACO: 2.13.1, 2.13.3, 2.13.4 CBI
3336072	2022, Five Batches Analysis of [CBI REMOVED] in Carfentrazone-ethyl TC, DACO: 2.13.1, 2.13.3, 2.13.4
3336073	2022, Five Batches Analysis of [CBI REMOVED] in Carfentrazone-ethyl TC, DACO: 2.13.1, 2.13.3, 2.13.4
3336074	2020, Five-Batch Analysis of Carfentrazone-ethyl Technical - Validation of Analytical Methodology for the Assay of Active Ingredient and Impurities in Carfentrazone-ethyl Technical and Subsequent 5-Batch Analysis of the Test Item, DACO: 2.13.1, 2.13.2, 2.13.3
3336075	2021, Physical and Chemical Characterization of Carfentrazone-ethyl Technical, DACO: 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.13, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.5, 2.14.6, 2.14.7, 2.14.8, 2.14.9, 830.7000

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