

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2019-0413
Application: Changes to Technical Grade Active Ingredient Product Chemistry
 – New source (site) same registrant
Product: Nufarm Cloquintocet-Mexyl Technical
Registration Number: 31732
Active ingredient (a.i.): Cloquintocet-Mexyl
PMRA Document Number: 3016550

Purpose of Application

The purpose of this application was to register a new manufacturing site for the technical grade active ingredient product Nufarm Cloquintocet-Mexyl Technical.

Chemistry Assessment

Common Name: Cloquintocet-mexyl
 IUPAC* Chemical Name: (RS)-1-methylhexyl (5-chloroquinolin-8-yloxy)acetate
 CAS† Chemical Name: 1-methylhexyl 2-[(5-chloro-8-quinolinyl)oxy]acetate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Nufarm Cloquintocet-Mexyl Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98%
Odour	Characteristic
Density	1.0348 g/mL
Vapour pressure	0.00624mPa at 25°C
pH	4.15
Solubility in water	0.522 mg/L
n-Octanol/water partition coefficient	4.92

The required chemistry data for Nufarm Cloquintocet-Mexyl 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 submitted data and has found it sufficient to register a new manufacturing site for Cloquintocet-Mexyl Technical.

References

PMRA Document Number	References
2956649	2017, Cloquintocet-mexyl Technical Synthesis Process, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4 CBI
2956650	2017, Validation of Analytical Method for Cloquintocet-mexyl, DACO: 2.13,2.13.1 CBI
2956651	2016, Preliminary Analysis of Five Representative Production Batches of Cloquintocet Mexyl Technical Grade Active Ingredient (TGAI) to Determine Percent Cloquintocet Mexyl and to Quantify its Associated Impurities, DACO: 2.13.2,2.13.3 CBI
2956652	2017, Determination of Colour of Cloquintocet-mexyl 97% TC, DACO: 2.14.1 CBI
2956653	2017, Determination of Physical State of Cloquintocet-mexyl 97% TC, DACO: 2.14.2 CBI
2956654	2017, Determination of Odour of Cloquintocet-mexyl 97% TC, DACO: 2.14.3 CBI
2956656	2017, Determination of Melting Point/Melting Range of Cloquintocet-mexyl 97% TC, DACO: 2.14.4 CBI
2956657	2017, Determination of Density and Specific Gravity of Cloquintocet-mexyl 97% TC, DACO: 2.14.6 CBI
2956658	2017, Determination of Solubility of Cloquintocet-mexyl 97% TC in Water, DACO: 2.14.7 CBI
2956659	2017, Determination of Solubility of Cloquintocet-mexyl 97% TC in Organic Solvents (acetone & methanol), DACO: 2.14.8 CBI
2956660	2017, Determination of Vapour Pressure of Cloquintocet-mexyl 97% TC, DACO: 2.14.9 CBI
2956661	2017, Determination of Dissociation Constant of Cloquintocet-mexyl 97% TC, DACO: 2.14.10 CBI
2956662	2017, Determination of Partition Coefficient of Cloquintocet-mexyl 97% TC, DACO: 2.14.11 CBI
2956663	2017, Determination of UV-Visible Spectrum of Cloquintocet-mexyl 97% TC, DACO: 2.14.12 CBI
2956664	2017, Determination of Accelerated Storage Stability of Cloquintocet-mexyl 97% TC with Packaging Material, DACO: 2.14.13,2.14.14 CBI

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