Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2024-4808
Application: Changes to Technical Product Chemistry- New Source
Applicant: (*only if application was received on or after April 1st 2023)*
Product: ACEQUINOCYL TECHNICAL
Registration Number: 28639
Active ingredient (a.i.): Acequinocyl
PMRA Document Number: 3842669

Purpose of Application

The purpose of this application was to amend the registration of ACEQUINOCYL TECHNICAL (registration number 28639) to add a new source of technical grade active ingredient.

Chemistry Assessment

Common Name: Acequinocyl
IUPAC* Chemical Name: 3-dodecyl-1,4-dioxo-1,4-dihydro-2-naphthyl acetate
CAS† Chemical Name: 2-(acetyloxy)-3-dodecyl-1,4-naphthalenedione

* International Union of Pure and Applied Chemistry
† Chemical Abstracts Service

ACEQUINOCYL TECHNICAL has the following properties:

Property	Result
Colour and physical state	Munsell 2.5Y 6.9/6.0 (Light brown) Solid flakes
Nominal concentration	98.5 %
Odour	Faint earthy odour
Density	1.13 g/cm^3 at 20°C
Vapour pressure	1.69 x 10^{-6} Pa
pH	6.9 (1% solution)
Solubility in water	6.69 µg /L
n-Octanol/water partition coefficient	log K_{ow} > 6.2

The required chemistry data for ACEQUINOCYL 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

Health Canada has completed an assessment of the information provided, and has found the information acceptable to amend the registration of ACEQUINOCYL TECHNICAL.

References

PMRA Document Number	Reference
3635458	2024, 2.11 MF_Acequinocyl Technical_240523, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4 CBI
3635460	2024, 2.13 MRID 51997802_Preliminary Analysis_830.1700, DACO: 2.13,2.13.1,2.13.2,2.13.3 CBI
3688143	2025, Impurity Explanation Acequinocyl _Aug 24.pdf, DACO: 2.13.4 CBI
3707344	2025, KCA 1.11-04 Bacher_2016_P3811G_Validation_FiveBatch, DACO: 2.13.1 CBI
3647859	KCA 2.3-02_xx_1999b_AGK 061-992367_PhysChem_Props_Black, dACO 2.14., 2.14.15 CBI

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