

Evaluation Report for Category B, Subcategories 1.1, 1.3 Application

Application Number: 2023-1111
Application: Changes to Technical Grade Active Ingredient Product Chemistry – New Source (Site) Same Registrant, and Specifications
Product: Trinexapac-Ethyl Technical
Registration Number: 26988
Active ingredient (a.i.): Trinexapac-ethyl
PMRA Document Number: 3658547

Purpose of Application

The purpose of this application was to add an alternate manufacturing site for the technical grade active ingredient, Trinexapac-Ethyl Technical.

Chemistry Assessment

Common Name: trinexapac-ethyl
IUPAC* Chemical Name: ethyl (1*RS*,4*EZ*)-4-[cyclopropyl(hydroxy)methylene]-3,5-dioxocyclohexanecarboxylate
CAS† Chemical Name: ethyl 4-(cyclopropylhydroxymethylene)-3,5-dioxocyclohexanecarboxylate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Trinexapac-Ethyl Technical has the following properties:

Property	Result
Colour and physical state	Yellow to red-brown liquid or crystals
Nominal concentration	97%
Odour	Slightly sweet odour
Density	1.215 g/mL at 20°C
Vapour pressure	2.16 mPa at 25°C
pH	2 – 4 (1% in water)
Solubility in water	1.1 g/L at pH 3.5, 2.8 g/L at pH 4.9, 10.2 g/L at pH 5.5, 21.1 g/L at pH 8.2

Property	Result
n-Octanol/water partition coefficient	log K _{ow} = 1.60 (pH 5.3)

The required chemistry data for Trinexapac-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 acceptable to support the addition of the new manufacturing site for Trinexapac-Ethyl Technical.

References

PMRA

Document

Number

Reference

3447037	2023, Trinexapac-ethyl Technical (CGA163935) - Manufacturing Process Description and Supporting Data EPA Registration Number: 100-727 PMRA Registration Number: 26988, DACO: 2.1,2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.12,2.12.1,2.13,2.13.1,2.13.2,2.13.3,2.13.4,2.2,2.3,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3546014	2024, Confidential Business Information Trinexapac-Ethyl Reg. No. 26988, DACO: 2.13.4 CBI
3657631	2024, PC-NA PMRA Response (DACO 2.11.3, 2.12) Trinexapac-ethyl Technical [PRIVACY INFO REMOVED] 26988 SPSF Spec, DACO 2.11.3,2.12 CBI

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