



Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2021-1929
Application: New TGAI Product Chemistry-New Source (site) same registrant
Product: ALBAUGH CLETHODIM TGAI
Registration Number: 32261
Active ingredient (a.i.): Clethodim
PMRA Document Number : 3340991

Purpose of Application

The purpose of this application was to add two new sources to ALBAUGH CLETHODIM TGAI.

Chemistry Assessment

Common Name: Clethodim
IUPAC* Chemical Name: (5*RS*)-2-{(1*EZ*)-1-[(2*E*)-3-chloroallyloxyimino]propyl}-5-[(2*RS*)-2-(ethylthio)propyl]-3-hydroxycyclohex-2-en-1-one
CAS† Chemical Name: 2-[1-[[[(2*E*)-3-chloro-2-propen-1-yl]oxy]imino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

ALBAUGH CLETHODIM TGAI has the following properties:

Property	Result
Colour and physical state	Amber liquid
Nominal concentration	96.5%
Odour	Pungent odour
Density	1.15 g/mL
Vapour pressure	0.00492 mPa at 25°C
pH	4.52 for a 1% w/v dilution
Solubility in water	28.97 mg/L
n-Octanol/water partition coefficient	log K_{ow} = 4.81

The required chemistry data for ALBAUGH CLETHODIM TGAI 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 support the addition of two new sources to ALBAUGH CLETHODIM TGAI.

References

PMRA Document Number	Reference
3227787	2018, Declaration of Manufacturer, DACO: 2.11.1,2.11.3 CBI
3227788	2020, Clethodim manufacturing process and impurities formation description, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
3227789	2018, Justification of Impurities, DACO: 2.11.4 CBI
3227792	2018, [Private Information removed] - Analysis of Five Representative Production Batches of Clethodim Technical Grade Active Ingredient (TGAI) to Identify and Quantify Clethodim and Its Associate Impurities, DACO: 2.12.1,2.13.1,2.13.2,2.13.3 CBI
3227793	2017, [Private Information removed] - 5 Batch Analysis of Clethodim and Main Impurities in Clethodim TC, DACO: 2.12.1,2.13.1,2.13.2,2.13.3 CBI
3227794	2018, [Private Information removed] - Amend 1 - 5 Batch Analysis of Clethodim and Main Impurities in Clethodim TC, DACO: 2.12.1,2.13.1,2.13.2,2.13.3 CBI
3227795	2018, [Private Information removed] - Amend 2 - 5 Batch Analysis of Clethodim and Main Impurities in Clethodim TC, DACO: 2.12.1,2.13.1,2.13.2,2.13.3 CBI

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