

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2020-1056

Application: Submission subject to the *Protection of Proprietary Interests*

in Pesticide Data (PPIP) policy

Product: Hongze Clethodim Technical

Registration Number: 34537 **Active ingredient (a.i.):** Clethodim **PMRA Document Number:** 3165935

Purpose of Application

The purpose of this application was to register Hongze Clethodim Technical, a new source of the technical grade active ingredient clethodim, based on a registered precedent.

Chemistry Assessment

Common Name: Clethodim

IUPAC* Chemical Name: (5RS)-2- $\{(1EZ)$ -1- $\{(2E)$ -3-chloroallyloxyimino $\}$ propyl $\}$ -5- $\{(2RS)$ -

2-(ethylthio)propyl]-3-hydroxycyclohex-2-en-1-one

CAS† Chemical Name: 2-[1-[[(2E)-3-chloro-2-propen-1-yl]oxy]imino]propyl]-5-[2-

(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one

Hongze Clethodim Technical has the following properties:

Property	Result
Colour and physical state	Amber liquid
Nominal concentration	96.6 %
Odour	Garlic-like odour
Density	1.151 g/mL at 20°C
Vapour pressure	0.024 mPa at 20.0°C
pН	4.26
Solubility in water	79.2 mg/L (pH 4.1, 20°C)



^{*} International Union of Pure and Applied Chemistry

[†] Chemical Abstracts Service

Property	Result
n-Octanol/water partition coefficient	$\log K_{ow} = 2.91 \text{ (pH 6.15)}$

The required chemistry data for Hongze Clethodim 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 support the registration of Hongze Clethodim Technical.

References

PMRA Document	Reference
Number	
3104391	2020, Manufacturing process of Hongze Clethodim technical, DACO:
	2.11 CBI
3104410	2018, Five batch data of Hongze Clethodim technical, DACO: 2.13 CBI
3104411	2018, Validation of Hongze Clethodim technical, DACO: 2.13.1
3104412	2018, Chemical and physical properties of Hongze Clethodim technical,
	DACO: 2.14
3161823	2020, Updated manufacturing process [CBI Removed] for Hongze
	Clethodim technical, DACO: 2.11.3 CBI
3161824	2020, Declaration of five batches from Hongze Clethodim technical,
	DACO: 2.13.3
3161625	2020, GLP report of [CBI Removed] test for Hongze Clethodim
	technical, DACO: 2.13.4 CBI

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