

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2023-0121
Application: Application Subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) Policy - Equivalency/Data Compensation Assessment
Product: Yichem MCPA Technical
Registration Number: 35085
Active ingredient (a.i.): MCPA (present as acid)
PMRA Document Number: 3517141

Purpose of Application

The purpose of this application was to register a new source of MCPA (present as acid), Yichem MCPA Technical, based on a registered precedent product.

Chemistry Assessment

Common Name: MCPA
IUPAC* Chemical Name: (4-chloro-2-methylphenoxy)acetic acid
CAS† Chemical Name: 2-(4-chloro-2-methylphenoxy)acetic acid

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Yichem MCPA Technical has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	96.34%
Odour	Pungent odour
Density	1.2579–1.262 g/mL, 20 °C
Vapour pressure	4.22 × 10 ⁻² Pa, 20 °C (extrapolated) 6.57 × 10 ⁻² Pa, 25 °C (extrapolated)
pH	2.675 (1% w/v), 25 °C
Solubility in water	471.87 mg/L at pH 6.78, 20 °C

Property	Result	
n-Octanol/water partition coefficient	<u>pH</u>	<u>log K_{ow}</u>
	1	2.75
	5	0.59
	7	-0.71

The required chemistry data for Yichem MCPA 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 registration of Yichem MCPA Technical.

References

PMRA

Document

Number	Reference
3424471	2022, Manufacturing process, DACO: 2.11.1,2.11.3,2.11.4 CBI
3424472	2022, Five-batch Analysis of MCPA Technical, DACO: 2.13.1,2.13.3
3424473	2022, Five-batch Analysis of MCPA Technical, DACO: 2.13.1,2.13.2,2.13.3
3424474	2020, Impurities of toxicological concern, DACO: 2.13.4
3424475	2020, Impurities of toxicological concern, DACO: 2.13.4
3424476	2020, Impurities of toxicological concern, DACO: 2.13.4
3424477	2020, Impurities of toxicological concern, DACO: 2.13.4
3424478	2020, Impurities of toxicological concern, DACO: 2.13.4
3424479	2022, Physical and Chemical Characterization of MCPA Technical, DACO: 2.14.1,2.14.10,2.14.11,2.14.12,2.14.13,2.14.14,2.14.15,2.14.2,2.14.3,2.14.4, 2.14.6,2.14.7,2.14.8,2.14.9,830.7000
3513480	2023, Updated manufacturing process and impurities discussion, DACO: 2.11.3,2.11.4 CBI

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