

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2023-1898
Application: Submission Subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) Policy - Equivalency/Data Compensation Assessment
Applicant: Shandong Hailir Chemical Co., Ltd.
Product: Hailir Pinoxaden Technical
Registration Number: 35186
Active ingredient (a.i.): Pinoxaden
PMRA Document Number: 3558100

Purpose of Application

The purpose of this application was to register a new source of pinoxaden, Hailir Pinoxaden Technical, based on a registered precedent product.

Chemistry Assessment

Common Name: Pinoxaden
IUPAC* Chemical Name: 8-(2,6-diethyl-4-methylphenyl)-7-oxo-1,2,4,5-tetrahydro-7H-pyrazolo[1,2-*d*][1,4,5]oxadiazepin-9-yl 2,2-dimethylpropanoate
CAS† Chemical Name: 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-*d*][1,4,5]oxadiazepin-9-yl 2,2-dimethylpropanoate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Hailir Pinoxaden Technical has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	98.12 %
Odour	Aromatic odour
Density	1.1641 g/mL at 20 °C
Vapour pressure	0.0002005 mPa at 20 °C 0.0002201 mPa at 40 °C
pH	4.83, 1% solution

Property	Result
Solubility in water	0.2058 g/L at 20 °C, pH = 6.98
n-Octanol/water partition coefficient	log K _{ow} = 3.206 at 25 °C

The required chemistry data for Hailir Pinoxaden 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 Hailir Pinoxaden Technical.

References

PMRA Document Number	Reference
3464020	2023, Determination of Active Content and Impurity Profile of Pinoxaden, DACO: 2.13,2.13.1,2.13.2,2.13.3 CBI
3464021	2023, Determination of [CBI removed] and [CBI removed] in Pinoxaden, DACO: 2.13.4 CBI
3464022	2023, 2.13.4 Pinoxaden letter_SOL 5-05-2023, DACO: 2.13.4 CBI
3464023	2023, Determination of Physical State, Colour and Odour of Pinoxaden Technical, DACO: 2.14,2.14.1,2.14.2,2.14.3 CBI
3464024	2023, Determination of Dissociation Constant of Pinoxaden Technical, DACO: 2.14.10 CBI
3464025	2023, Determination of Partition Co-efficient of Pinoxaden Technical, DACO: 2.14.11 CBI
3464026	2023, UV-VIS Absorption Spectra of Pinoxaden Technical, DACO: 2.14.12 CBI
3464027	2023, Accelerated Storage Stability of Pinoxaden Technical, DACO: 2.14.13 CBI
3464028	2023, Stability Study of Pinoxaden Technical to Temperature, Metals and Metal Ions, DACO: 2.14.14 CBI
3464029	2023, Determination of Melting Point of Pinoxaden Technical, DACO: 2.14.4 CBI
3464030	2023, Determination of Density of Pinoxaden Technical, DACO: 2.14.6 CBI
3464031	2023, Determination of Solubility of Pinoxaden Technical in Water, DACO: 2.14.7 CBI
3464032	2023, Determination of Solubility of Pinoxaden Technical in Organic Solvents (2 Solvents), DACO: 2.14.8 CBI
3464033	2023, Determination of Vapour Pressure of Pinoxaden Technical, DACO: 2.14.9 CBI
3464034	2023, The Synthesis and Impurities Description of Pinoxaden Technical, DACO: 2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3560920	2024, Reply of comment-Pinoxaden technical-20240228, DACO: 2.11.3 CBI
3560921	2024, 9556 2021 Final Report_pH__Pinoxaden TC, DACO: 2.14.15,830.7000 CBI

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