Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2022-6560
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PPIP) Policy – Equivalency/Data Compensation Assessment
Product: UPL Pinoxaden Technical
Registration Number: 35187
Active ingredient (a.i.): pinoxaden
PMRA Document Number: 3562756

Purpose of Application

The purpose of this application was to register UPL Pinoxaden Technical, a new source of the active ingredient ipconazole, 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-7*H*-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-7*H*-pyrazolo[1,2-*d*][1,4,5]oxadiazepin-9-yl 2,2-dimethylpropanoate

* International Union of Pure and Applied Chemistry
† Chemical Abstracts Service

UPL 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

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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 UPL 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 UPL Pinoxaden Technical.

References

PMRA Document Number	Reference
3419307	2021, Determination of Physical state, Colour and Odour of Pinoxaden Technical, DACO: 2.14.1,2.14.2,2.14.3
3419308	2021, Determination of Flammability of Pinoxaden Technical, DACO: 2.16
3419309	2021, Determination of Density of Pinoxaden Technical, DACO: 2.14.6
3419310	2021, Determination of pH of Pinoxaden Technical, DACO: 2.14.15,830.7000
3419311	2021, Determination of Partition Co-efficient of Pinoxaden Technical, DACO: 2.14.11
3419312	2021, Determination of Vapour pressure of Pinoxaden Technical, DACO: 2.14.9
3419313	2022, Determination of Dissociation Constant of Pinoxaden Technical, DACO: 2.14.10
3419314	2021, Determination of Solubility of PinoxadenTechnical in Water, DACO: 2.14.7
3419315	2022, Determination of Solubility of Pinoxaden Technical in Organic Solvents (2 Solvents), DACO: 2.14.8
3419316	2021, UV-VIS Absorption Spectra of Pinoxaden Technical, DACO: 2.14.12
3419317	2021, Determination of Melting Point of Pinoxaden Technical, DACO: 2.14.4
3419318	2021, Determination of Chemical Incompatibility (Oxidation/ Reduction) of Pinoxaden Technical, DACO: 2.16
3419321	2022, Stability study of Pinoxaden Technical to Temperature, Metals and Metal Ions, DACO: 2.14.13
3419322	2022, Accelerated Storage Stability of Pinoxaden Technical, DACO: 2.14.14
3419326	2022, Determination of Active Content and Impurity Profile of Pinoxaden, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3419327	2020, Qualitative and Quantitative Profile of Pinoxaden TGAI (Five Batch Analysis), DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3419329	2022, The Synthesis and Impurities Description of Pinoxaden Technical, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3419330	2022, Method of manufacture of Pinoxaden, DACO: 2.11.2,2.11.3,2.11.4,2.12.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3419332	2020, UV-VIS Absorption Spectra of Pinoxaden TGAI, DACO: 2.14.12
3419333	2019, Vapor pressure of Pinoxaden TGAI, DACO: 2.14.9
3419334	2020, Solubility in water and organic solvents (Acetone and n-Hexane) of Pinoxaden TGAI, DACO: 2.14.7,2.14.8
3419335	2019, Partition coefficient (N-Octanol/water) of Pinoxaden TGAI, DACO: 2.14.11
3419336	2019, Accelerated Storage Stability and Corrosion Characteristics of Pinoxaden TGAI, DACO: 2.14.13,2.14.14
3419337	2019, Determination of the Relative Density of Pinoxaden TGAI, DACO: 2.14.6
3419339	2019, Dissociation constant in water of Pinoxaden TGAI, DACO: 2.14.10
3419340	2019, Physical State, Appearance, Color, and Odor of Pinoxaden TGAI, DACO: 2.14.1,2.14.2,2.14.3
3419341	2019, Melting point or range of Pinoxaden TGAI, DACO: 2.14.4
3419342	2019, Determination of the pH value of an aqueous solution of Pinoxaden TGAI, DACO: 2.14.15,830.7000
3457548	2023, UPL Pinoxaden - Batch Data from Commercial Production, DACO: 2.13.3

3457549 2023, UPL Pinoxaden - Letter of Declaration, DACO: 2.11.2
3457550 2023, UPL Pinoxaden - Declaration of Production Scale, DACO: 2.13.3
3457552 2023, Determination off [CBI Removed] and [CBI Removed] in Pinoxaden, DACO: 2.13.4