Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2023-5335
Application: Application Subject to Protection of Proprietary Interests in Pesticide Data (PPIP) Policy – Equivalency/Data Compensation Assessment
Applicant: Northern Cropscience Inc.
Product: NCS Pyraclostrobin Technical
Registration Number: 35396
Active ingredient (a.i.): Pyraclostrobin
PMRA Document Number : 3654088

Purpose of Application

The purpose of this application was to register NCS Pyraclostrobin Technical, a new source of the active ingredient pyraclostrobin, based on a registered precedent product.

Chemistry Assessment

Common Name: Pyraclostrobin
IUPAC* Chemical Name: methyl 2-({[1-(4-chlorophenyl)-1*H*-pyrazol-3-yl]oxy}methyl)-*N*-methoxycarbanilate
CAS† Chemical Name: methyl *N*-[2-[[[1-(4-chlorophenyl)-1*H*-pyrazol-3-yl]oxy]methyl]phenyl]-*N*-methoxycarbamate

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

NCS Pyraclostrobin Technical has the following properties:

Property	Result
Colour and physical state	Beige powder
Nominal concentration	98.5%
Odour	Characteristic
Density	1.4041 g/mL at 20 °C
Vapour pressure	2.27 x 10^{-4} mPa at 20 °C
pH	6.11, 1% dilution
Solubility in water	1.94 mg/L at 20 °C, pH = 6.61
n-Octanol/water partition coefficient	log K_{ow} = 3.886

The required chemistry data for NCS Pyraclostrobin Technical have been provided, reviewed, and found to be acceptable.

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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 NCS Pyraclostrobin Technical.

References

PMRA Document Number	Reference
3508404	2023, Physical State, Appearance, Color, and Odor of Pyraclostrobin Technical, DACO: 2.14.1,2.14.2,2.14.3
3508407	2023, UV-VIS Absorption Spectra of Pyraclostrobin Technical, DACO: 2.14.12
3508408	2023, Determination of the Relative Density of Pyraclostrobin Technical, DACO: 2.14.6
3508409	2023, Vapor Pressure of Pyraclostrobin Technical, DACO: 2.14.9
3508410	2023, Melting Point or Range of Pyraclostrobin Technical, DACO: 2.14.4
3508411	2023, Determination of the pH Value of an Aqueous Solution of Pyraclostrobin Technical, DACO: 2.14.15,830.7000
3508412	2023, Partition Coefficient (N-Octanol/Water) of Pyraclostrobin Technical, DACO: 2.14.11
3508413	2023, Stability of Pyraclostrobin Technical to Normal and Elevated Temperatures, Metals and Metal ions, DACO: 2.14.13,2.14.14
3508414	2023, Solubility in Water and Organic Solvents (Acetone and n-Heptane) of Pyraclostrobin Technical, DACO: 2.14.7,2.14.8
3508415	2023, Dissociation Constant in Water of Pyraclostrobin Technical, DACO: 2.14.10
3508416	2022, Qualitative and Quantitative Profile of Pyraclostrobin Technical (Five Batch Analysis), DACO: 2.13.1,2.13.2,2.13.3,2.13.4
3559082	2024, Purity of Pyraclostrobin Technical and Analytical Method Validation for Active Ingredient Content Pyraclostrobin, DACO: 2.13.1,2.13.2,2.13.3 CBI
3559083	2023, Analytical Method Validation and Content of [CBI Removed] in Pyraclostrobin Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3643126	2024, Manufacturing Process of Pyraclostrobin TC, DACO: 2.11.1,2.11.2, 2.11.3,2.11.4 CBI