Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2022-2265
Application: Submissions subject to Protection of Proprietary Interests in Pesticide Data policy-Equivalency/Data Compensation Assessment
Product: Trifloxystrobin Technical
Registration Number: 34899
Active ingredient (a.i.): Trifloxystrobin
PMRA Document Number: 3465579

Purpose of Application

The purpose of this application was to register a new source of technical grade trifloxystrobin based on a registered precedent.

Chemistry Assessment

Common Name: Trifloxystrobin
IUPAC* Chemical Name: methyl (2E)-(methoxyimino)(2-{[({(1E)-1-[3-(trifluoromethyl)phenyl]ethylidene}amino)oxy]methyl}phenyl)acetate
CAS† Chemical Name: methyl (α*E*)-α-(methoxyimino)-2-[[[[(1*E*)-1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]benzeneacetate

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

Trifloxystrobin Technical has the following properties:

Property	Result
Colour and physical state	White
Nominal concentration	98.3%
Odour	Odourless
Density	1.3386 g/cm^3
Vapour pressure	4.61 x 10^{-7} Pa
pH	6.16
Solubility in water	0.83 mg/L

Property	Result
n-Octanol/water partition coefficient	log K_{ow} = 4.32

The required chemistry data for Trifloxystrobin 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 Trifloxystrobin Technical.

References

PMRA Document Number	Reference
3360640	2017, Five-Batch Analysis of Trifloxystrobin TGAI - Validation of Analytical Methodology for the Assay of Active Ingredient and Impurities in Trifloxystrobin TGAI and Subsequent 5-Batch Analysis of the Test Item, DACO: 2.13.1, 2.13.2, 2.13.3 CBI
3360641	2020, Five Batch Analysis of Trifloxystrobin TGAI (Amendment), DACO: 2.13.1,2.13.2,2.13.3 CBI
3360642	2017, Physical and Chemical Characterization of Trifloxystrobin TGAI - Color, Physical State, Odor, Stability to Elevated Temperature, Metals and Metal Ions, Storage Stability, Corrosive Characteristics, Density, pH, UV/Vis Absorption, Explodability, Flammability, Oxidation/Reduction, Dissociation Constant and Surface Tension, DACO: 2.14.11,2.14.4,2.14.7,2.14.8,2.14.9
3360644	2021, Physical and Chemical Characterization of Trifloxystrobin TGAI - Color, Physical State, Odor, Stability to Elevated Temperature, Metals and Metal Ions, Storage Stability, Corrosive Characteristics, Density, pH, UV/Vis Absorption, Explodability, Flammability, Oxidation/Reduction, Dissociation Constant and Surface Tension (Amendment No. 2), DACO: 2.14.1, 2.14.10, 2.14.12, 2.14.13, 2.14.15,2.14.2,2.14.3,2.14.6,830.7000
3360645	2022, Validation of Analytical Methodology for the Assay of Active Ingredient and Impurities in Trifloxystrobin TGAI and Subsequent 5-Batch Analysis of the Test Item (Amendment No. 4), DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3360646	2021, Justification of Impurities for Trifloxystrobin, DACO: 2.11.4 CBI
3360647	2020, Manufacturing Process of Trifloxystrobin 98% TGAI, DACO: 2.11.1,2.11.2,2.11.3 CBI
3443245	2023, Declaration of trifloxystrobin, DACO: 2.13.3 CBI