Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-6038
Application: Application subject to the Protection of Proprietary Interests in Pesticide Data Policy
Product: Nufarm Fluazinam Technical
Registration Number: 34648
Active ingredient (a.i.): Fluazinam
PMRA Document Number: 3383717

Purpose of Application

The purpose of this application was to register a new source of fluazinam, based on a precedent product.

Chemistry Assessment

Common Name: fluazinam
IUPAC* Chemical Name: 3-chloro-*N*-[3-chloro-2,6-dinitro-4-(trifluoromethyl) phenyl]-5-(trifluoromethyl)pyridin-2-amine
CAS† Chemical Name: 3-chloro-*N*-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2-pyridinamine

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

Nufarm Fluazinam Technical has the following properties:

Property	Result
Colour and physical state	Yellow solid
Nominal concentration	98.9%
Odour	Characteristic odour
Density	Pour density: 0.907 g/mL, Tap density: 1.026 g/mL
Vapour pressure	0.4 mPa at 25°C
pH	8.31
Solubility in water	<1.52 mg/L (pH ~6.8)

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Property	Result
n-Octanol/water partition coefficient	log K_{ow} = 4.9

The required chemistry data for Nufarm Fluazinam 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 sufficient to register Nufarm Fluazinam Technical.

References

PMRA Document Number	Reference
3289136	2016, Production chemistry of fluazinam technical, DACO: 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.2, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
3289137	2016, Preliminary analysis of fluazinam TGAI, DACO: 2.12.1, 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
3289138	2016, Preliminary analysis of fluazinam TGAI - Confidential Attachment, DACO: 2.12.1, 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
3289139	2018, Preliminary analysis of fluazinam TGAI - Amendment, DACO: 2.12.1, 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
3289140	2015, Chemical and physical characterization of fluazinam TGAI: melting point, partition coefficient, solubility and vapour pressure, DACO: 2.14.11, 2.14.4, 2.14.7, 2.14.8, 2.14.9
3289141	2017, The determination of colour, odour, physical state and pH values for Fluazinam TC, DACO: 2.14.1, 2.14.15, 2.14.2, 2.14.3,830.7000
3289142	2017, The determination of bulk density of Fluazinam TC, DACO: 2.14.6
3289143	2011, Fluazinam Technical storage stability at 54C for 14 days, DACO: 2.14.13, 2.14.14
3289144	2021, Supplementary technical grade active ingredient chemistry information and selected physical and chemical properties Nufarm Fluazinam Technical, DACO: 2.1, 2.14.10, 2.14.12, 2.3, 2.3.1