Health Canada Santé Canada

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-0871
Application: Submissions subject to Protection of Proprietary Interests in Pesticide Data policy-Equivalency/Data Compensation Assessment
Product: Fluazinam Technical Fungicide
Registration Number: 34704
Active ingredient (a.i.): Fluazinam
PMRA Document Number: 3401265

Purpose of Application

The purpose of this application was to register a new technical-grade fluazinam product, 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

Fluazinam Technical Fungicide has the following properties:

Property	Result
Colour and physical state	Yellow Crystalline solid
Nominal concentration	98.9 %
Odour	No discernible odour
Density	1.7405 g/cm^3 at 20°C
Vapour pressure	7.1 x 10^{-6} Pa at 20°C 1.7 x 10^{-5} Pa at 25°C 9.8 x 10^{-4} Pa at 50°C

Property	Result	
pH	4 - 5	
Solubility in water	pH	Solubility (mg/L)
	4	0.116
	7	0.157
	9	4.629
n-Octanol/water partition coefficient	log K_{ow} = 4.95 at pH 4	
	log K_{ow} = 4.87 at pH 7	
	log K_{ow} = 3.91 at pH 9	

The required chemistry data for Fluazinam Technical Fungicide 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 it sufficient to support the registration of Fluazinam Technical Fungicide.

References

PMRA Document Number	Reference
3206003	2020, Fluazinam Technical: Product Identity and Composition, Description of the Materials Used, Description of the Production Process, Discussion of the Formation of Impurities, and Certified Limits, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1 CBI
3206004	2020, Product identity and composition, Description of materials used to produce the product, Description of production process, Discussion of formation of impurities, Preliminary analysis, Certified Limits and Submittal of Samples for Fluazinam 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
3206005	2016, Preliminary Analysis of Fluazinam TGAI, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3206006	2014, Amended Final Report to Preliminary Analysis of Fluazinam TGAI, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3206007	2019, Five Batch Analysis Of Fluazinam Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3206008	2019, Amendment No 1 To Final Report - Five Batch Analysis Of Fluazinam Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3206009	2015, Determination of Fluazinam Technical and its Impurities in Five Batches of MCW 465 Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3206010	2018, 2nd amendment Determination of Fluazinam Technical and its Impurities in Five Batches of MCW 465 Technical, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3206011	2009, Appearance (Color, Odor and Physical State) of MCW 465 (Fluazinam) Pure, DACO: 2.14.1,2.14.2,2.14.3
3206012	2009, MCW 465 Technical (Fluazinam) Dissociation Constants in Water, DACO: 2.14.10
3206013	2007, MCW 465 Pure Partition Coefficient (Octanol water), DACO: 2.14.11
3206014	2006, MCW 465 Pure UV VIS Absorption Spectra, DACO: 2.14.12
3206015	2007, MCW 465 Technical (Fluazinam) Determination of pH Value, DACO: 2.14.15,830.7000
3206016	2006, MCW 465 Pure Melting Point/Melting Range, DACO: 2.14.4
3206017	2006, MCW 465 Pure Determination of the Density, DACO: 2.14.6
3206018	2006, MCW 465 Pure Water Solubility, DACO: 2.14.7
3206019	2007, MCW 465 Technical Solubility in Organic Solvents, DACO: 2.14.8
3206020	2006, MCW 465 Pure Vapor Pressure, DACO: 2.14.9
3324993	2021, Determination of [CBI Removed] in Fluazinam Technical, DACO: 2.13.4 CBI
3324994	2022, Preliminary (5-Batch) Analysis Testing of Fluazinam Technical, DACO: 2.13.4 CBI