

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2019-0512
Application: Changes TGAI Prod Chemistry-New Source(site), same registrant
Product: ADAMA Fluroxypyr Technical
Registration Number: 30507
Active ingredients (a.i.): Fluroxypyr (present as 1-methylheptyl ester)
PMRA Document Number: 3036925

Purpose of Application

The purpose of this application was to add a new source of the active ingredient fluroxypyr to the registered Technical grade active ingredient for ADAMA Fluroxypyr Technical.

Chemistry Assessment

Common Name: Fluroxypyr-meptyl
IUPAC* Chemical Name: (RS)-1-methylheptyl 4-amino-3,5-dichloro-6-fluoro-2-pyridyloxyacetate
CAS† Chemical Name: 1-methylheptyl 2-[(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy]acetate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

ADAMA Fluroxypyr Technical has the following properties:

Property	Result
Colour and physical state	White
Nominal concentration	68.0 % Fluroxypyr, present as 1-methylheptyl ester
Odour	Organic like and weak sweetish odour
Density @ 20°C	1.3251 g/cm ³
Vapour pressure @ 20°C	1.3 × 10 ⁻⁶ Pa
pH	5.5-6.5

Property	Result
Solubility in water	pH
	5 Solubility (mg/L)
	7 0.0813
	9 0.109
n-Octanol/water partition coefficient	hydrolysis
	Log K _{ow} = 4.5 Log K _{ow} = 5.61 (pH 7.4)

The required chemistry data for fluroxypyr-meptyl 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 is able to support the new source of active ingredient for ADAMA Fluroxypyr Technical.

References

Studies/Information Provided by Applicant/Registrant

PMRA Document Number	Reference
2959939	2019, Product Identity and Composition, Description of the Materials Used, Description of the Production Process, Discussion of the Formation of Impurities, Certified Limits, and Enforcement Analytical Method for Fluroxypyr-meptyl Technical, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1 CBI.
2959940	2015, Qualitative and Quantitative Profile of the Test Substance Fluroxypyr-meptyl 98% technical (Five Batch Analysis), DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI.
2959941	2017, [CBI Removed] Analysis in Fluroxypyr-meptyl TGAI, DACO: 2.13.4 CBI.

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