

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2023-6330
Application: Changes to Technical Grade Active Ingredient Product Chemistry - New Source (Site) Same Registrant
Applicant: ADAMA Agricultural Solutions Canada Ltd.
Product: ADAMA FLUROXYPYR TECHNICAL
Registration Number: 30507
Active ingredient (a.i.): Fluroxypyr (present as 1-methylheptyl ester)
PMRA Document Number: 3672322

Purpose of Application

The purpose of this application was to add an alternate source of fluroxypyr (present as 1-methylheptyl ester) for ADAMA FLUROXYPYR TECHNICAL.

Chemistry Assessment

Common Name: Fluroxypyr-meptyl
 IUPAC* Chemical Name: (RS)-1-methylheptyl [(4-amino-3,5-dichloro-6-fluoro-2-pyridyl)oxy]acetate
 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 solid
Nominal concentration	68.0 % Fluroxypyr, present as 1-methylheptyl ester
Odour	Organic like and weak sweetish odour
Density	1.3251 g/cm ³ (20 °C)
Vapour pressure	1.3 x 10 ⁻⁶ Pa (20 °C)
pH	5.5 – 6.5

Property	Result
Solubility in water	pH <u>Solubility (mg/L)</u> 5 0.0813 7 0.109 9 hydrolysis
n-Octanol/water partition coefficient	$\log K_{ow} = 4.5$ $\log K_{ow} = 5.61$ (pH 7.4)

The required chemistry data for ADAMA FLUROXYPYR 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 addition of the alternate source of fluroxypyr (present as 1-methylheptyl ester) for ADAMA FLUROXYPYR TECHNICAL.

References

PMRA Document Number	Reference
1969080	2009, Physical State, Colour and Odour of Fluroxypyr Meptyl Technical, DACO: 2.14.1, 2.14.2, 2.14.3
1969086	2009, Relative Density of Fluroxypyr Meptyl Technical, DACO: 2.14.6
1969089	2009, Solubility of Fluroxypyr Meptyl in Organic Solvents, DACO: 2.14.8
1969091	Anonymous, 1999, EC-Review report for the active substance fluroxypyr, DACO: 2.14.10, 2.14.11, 2.14.4, 2.14.5, 2.14.7, 2.14.8, 2.14.9
3522005	2023, 30507_Fluroxypyr_TGAI_[CBI removed] DACO_2_16Oct2023, DACO: 2.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.13.3, 2.2, 2.3, 2.3.1, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
3522006	2021, Qualitative and Quantitative Profile of Fluroxypyr-meptyl Technical (Five Batch Analysis), DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3522007	2021, Amendment no 01 to the Final Report 18710.030.030.20 - Qualitative and Quantitative Profile of Fluroxypyr-meptyl Technical (Five Batch Analysis), DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3522008	2021, Quantification of Impurities in Fluroxypyr-meptyl Technical, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3522009	2022, Determination of Content and Validation of Analytical Methodology for Dioxins and Furans in five batches of Fluroxypyr-meptyl Technical, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI

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