

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2019-7082
Application: New TGAI Product Chemistry-New Source
Product: Flumetsulam Technical Herbicide
Registration Number: 24449
Active ingredient (a.i.): Flumetsulam
PMRA Document Number: 3206798

Purpose of Application

The purpose of this application was to add a new source of flumetsulam to Flumetsulam Technical Herbicide.

Chemistry Assessment

Common Name: Flumetsulam
IUPAC* Chemical Name: 2',6'-difluoro-5-methyl[1, 2,4]triazolo[1,5-*a*]pyrimidine-2-sulfonanilide
CAS† Chemical Name: *N*-(2,6-difluorophenyl)-5-methyl[1, 2,4]triazolo[1,5-*a*]pyrimidine-2-sulfonamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Flumetsulam Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Light tan powder
Nominal concentration	98.0% nominal
Odour	Sweet musty odour
Density	1.77 g/cm ³ (21 °C)
Vapour pressure	3.7 × 10 ⁻⁷ mPa (25 °C)
pH	3.44 (10% suspension)

Property	Result
Solubility in water	<p>pH <u>g/L at 25 °C</u></p> <p>2.5 0.0491</p> <p>7.0 5.65</p>
n-Octanol/water partition coefficient	log K _{ow} = -0.68 (25 °C)

The required chemistry data for Flumetsulam Technical Herbicide 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 amend the registration of Flumetsulam Technical Herbicide to include a new source of flumetsulam.

Additional Information Being Requested

Since this technical product is manufactured only at pilot scale before registration, five-batch data representing commercial-scale production are required as post-market information after registration.

References

PMRA

Document

Number	Reference
3071428	2019, Daco 2.11-2.11.4, DACO: 2.11, 2.11.1, 2.11, 2, 2.11.3, 2.11.4
3071429	2010, Analytical method and validation for the determination of active ingredients and impurities in Flumetsulam by liquid chromatography, DACO: 2.13.1, 2.13, 2 CBI
3071430	2019, Batch analysis study for flumetsulam, DACO: 2.13.3 CBI
3082849	2019, Manufacturing Process, DACO: 2.11, 2.11.1, 2.11.3 CBI
3119434	2015, Group A-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 Enforcement Analytical Method for Flumetsulam 98% Milled Concentrate, DACO: 2.11, 2.11.1, 2.11, 2, 2.11.3, 2.11.4, 2.12, 2.12.1, 2.13, 2.13.1, 2.13, 2, 2.13.4 CBI

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