

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2021-0388
Application: Submission Subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) policy – Equivalency/Data Compensation Assessment
Product: Saflufenacil Technical Herbicide
Registration Number: 34583
Active ingredient (a.i.): Saflufenacil
PMRA Document Number : 3327466

Purpose of Application

The purpose of this application was to register Saflufenacil Technical Herbicide, a new source of the technical grade active ingredient saflufenacil, based on a registered precedent.

Chemistry Assessment

Common Name: Saflufenacil
IUPAC* Chemical Name: 2-chloro-4-fluoro-*N*-[isopropyl(methyl)sulfamoyl]-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-3,6-dihydropyrimidin-1(2*H*)-yl]benzamide
CAS† Chemical Name: 2-chloro-5-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2*H*)-pyrimidinyl]-4-fluoro-*N*-[[methyl(1-methylethyl)amino]sulfonyl]benzamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Saflufenacil Technical Herbicide has the following properties:

Property	Result
Colour and physical state	White cream powder
Nominal concentration	94.6%
Odour	No chemical characteristic odour
Density	1.595 g/cm ³ at 20°C
Vapour pressure	< 1 mPa at 20°C
pH	4.426 at 25°C

Property	Result
Solubility in water	<u>pH</u>
	<u>Solubility (g/L)</u>
	4 0.014
	5 0.025
	7 2.1
9 N/A – product degrades	
n-Octanol/water partition coefficient	log K _{ow} = 2.6

The required chemistry data for Saflufenacil 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 support the registration of Saflufenacil Technical Herbicide.

References

PMRA Document Number	Reference
3195236	2021, Manufacturing Process of Saflufenacil Technical And Saflufenacil 160 SL, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
3195237	2020, Saflufencal Technical - Assay and Impurity Methods and Five Batch Analysis, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3195238	2020, Physical and Chemical Properties of One Batch Saflufencal TC, DACO: 2.14.1, 2.14.13, 2.14.2, 2.14.3, 2.14.4, 2.14.9 CBI
3309912	2022, DACO 2.13 Analysis of [CBI Removed] TGAI, DACO: 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI

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