

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2019-0202
Application: New/Change TGAI Product Chemistry-New Source (site): Same Registrant
Product: Rotam Thifensulfuron-Methyl Technical
Registration Number: 31905
Active ingredient (a.i.): Thifensulfuron-Methyl
PMRA Document Number: 3068818

Purpose of Application

The purpose of this application was to add a new source of Rotam Thifensulfuron-Methyl Technical.

Chemistry Assessment

Common Name: Thifensulfuron-methyl
IUPAC* Chemical Name: methyl 3-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl)thiophene-2-carboxylate
CAS† Chemical Name: methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Rotam Thifensulfuron-Methyl Technical has the following properties:

Property	Result
Colour and physical state	Light yellow solid
Nominal concentration	97.0 %
Odour	No characteristic odour
Specific gravity	1.51
Vapour pressure	$< 1.0 \times 10^{-5}$ Pa
pH	3.60
Solubility in water	0.03 g/L at pH 5.7 (in deionized water); 0.38 g/L at pH 5; 7.29 g/L at pH 7; and 7.99 g/L at pH 9

Property	Result
n-Octanol/water partition coefficient	$\log K_{ow} = 0.58$, $K_{ow} = 3.86$ in purified water at 25°C and pH 5.3 to 5.6

The required chemistry data for Rotam Thifensulfuron-Methyl 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 sufficient to add a new source to the registration of Rotam Thifensulfuron-Methyl Technical.

References

PMRA

Document

Number	Reference
2952644	2018, Manufacturing Process and Discussion of Formulation of Impurities in Thifensulfuron-Methyl Technical, DACO: 2.1, 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.2, 2.3 CBI
2958931	2018, Analysis of Five Representative Production Batches of Thifensulfuron-Methyl Technical Grade Active Ingredient (TGAI) To Identify and Quantify Thifensulfuron-Methyl and Its Associate Impurities, DACO: 2.12.1, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI

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