

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2021-2227
Application: Changes to TGAI (Product Chemistry) – New Source (site), same registrant
Product: ADAMA THIFENSULFURON-METHYL TECHNICAL HERBICIDE
Registration Number: 33751
Active ingredient (a.i.): Thifensulfuron-methyl
PMRA Document Number: 3389956

Purpose of Application

The purpose of this application was to register another source of ADAMA THIFENSULFURON-METHYL TECHNICAL HERBICIDE.

Chemistry Assessment

Common Name: Thifensulfuron-methyl
IUPAC* Chemical Name: Methyl 3-{[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)carbamoyl]sulfamoyl}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

ADAMA THIFENSULFURON-METHYL TECHNICAL HERBICIDE has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	98.0 %
Odour	Practically odourless
Density	0.473 g/mL
Vapour pressure	7.5 x 10 ⁻⁹ Pa at 20 °C 1.7 x 10 ⁻⁸ Pa at 25 °C
pH	4.06, 1 % w/v solution

Property	Result
Solubility in water	2.24 g/L at pH 7
n-Octanol/water partition coefficient	Log K _{ow} = 1.7 at pH 7

The required chemistry data for ADAMA THIFENSULFURON-METHYL TECHNICAL HERBICIDE have been provided, reviewed, and found to be acceptable.

Health Assessments

ADAMA THIFENSULFURON-METHYL TECHNICAL HERBICIDE is considered toxicologically equivalent to the precedent product. No new toxicology data were requested or required.

Dietary and occupational exposure assessments were not required for this application.

Environmental and Value Assessments

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 register another source of ADAMA THIFENSULFURON-METHYL TECHNICAL HERBICIDE.

References

PMRA

Document

Number	Reference
3234689	2018, Thifensulfuron-methyl Technical - Product Identity and Composition, Description of Materials, Manufacturing Process, Formation and Toxicity of Impurities, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.2,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3234690	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: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3234691	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 (Appendices), DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3379038	2022, Thifensulfuron-methyl MP FOI June 2022_revised, DACO: 2.11.3 CBI
3379040	2022, Explanation of Thifensulfuron methyl MP on [CBI Removed] 04 August 2022, DACO: 2.13.4

© His Majesty the King in Right of Canada, as represented by the Minister of Health Canada, 2022

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of Health Canada, Ottawa, Ontario K1A 0K9.