

Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2022-1240
Application: Changes to TGAI Product Chemistry-Specifications
Product: Fine 1-MCP Technical
Registration Number: 33888
Active ingredient (a.i.): 1-Methylcyclopropene
PMRA Document Number: 3455648

Purpose of Application

The purpose of this application was to update the specifications of the registered product Fine 1-MCP Technical based on new five-batch data available.

Chemistry Assessment

Common Name: 1-methylcyclopropene
IUPAC* Chemical Name: 1-methylcyclopropene
CAS† Chemical Name: 1-methylcyclopropene

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Fine 1-MCP Technical has the following properties:

Property	Result
Colour and physical state	Colourless gas
Nominal concentration	98.93%
Odour	Faint sweet odour
Density	0.634 g/mL at 25°C
Vapour pressure	2×10^8 mPa, highly volatile
pH	Not applicable, the product is a reactive and unstable gas.
Solubility in water	132 mg/L
n-Octanol/water partition coefficient	$\log K_{ow} = 2.4$ (pH 7, 20 °C)

The required chemistry data for Fine 1-MCP Technical have been provided, reviewed, and found to be acceptable.

Health, Environment and Value Assessments

Health, environment 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 update the specifications of Fine 1-MCP Technical.

References

PMRA

Document

Number

Reference

3334174

2019, Analysis of 5 batches of 1-MCP Technical Material to Determine the Content of Active Ingredient and specified impurities, in Compliance with Good Agriculture Practice, DACO: 2.0 CBI

3334175

2022, 1-MCP Tech 2.11.1 to 2.11.4, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI

© His Majesty the King in Right of Canada, as represented by the Minister of Health Canada, 2023

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.