

## **Evaluation Report for Category B, Subcategory 1.1, 1.3 Application**

**Application Number:** 2023-1882

**Application:** Changes to Technical Grade Active Ingredient (TGAI) Product

Chemistry; New source (site) and Specifications

Applicant:Corteva AgriScience Canada CompanyProduct:Methoxyfenozide Technical Insecticide

**Registration Number:** 27785

**Active ingredient (a.i.):** Methoxyfenozide

PMRA Document Number: 3601383

## **Purpose of Application**

The purpose of this application was to register a new source of methoxyfenozide for Methoxyfenozide Technical Insecticide.

### **Chemistry Assessment**

Common Name: Methoxyfenozide

IUPAC\* Chemical Name: N'-tert-butyl-N'-(3,5-dimethylbenzoyl)-3-methoxy-2-

methylbenzohydrazide

CAS† Chemical Name: 3-methoxy-2-methylbenzoic acid 2-(3,5-dimethylbenzoyl)

-2-(1,1-dimethylethyl)hydrazide

Methoxyfenozide Technical Insecticide has the following properties:

Property	Result
Colour and physical state	White powder
Nominal concentration	98.2%
Odour	Faint odour
Density	1.618 g/cm <sup>3</sup> at 20°C
Vapour pressure	< 1.33 x 10 <sup>-5</sup> Pa at 25°C
pН	4.06 (1% aq soln.)
Solubility in water	3.3 mg/L



<sup>\*</sup> International Union of Pure and Applied Chemistry

<sup>†</sup> Chemical Abstracts Service

Property	Result
n-Octanol/water partition coefficient	$\log K_{\rm ow} = 3.72$ at $25^{\circ} \rm C$

The required chemistry data for Methoxyfenozide Technical Insecticide have been provided, reviewed, and found to be acceptable.

#### **Health Assessments**

The toxicological profile of the new source of Methoxyfenozide Technical Insecticide is considered to be equivalent to that of the currently registered source.

Exposure and residue 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 acceptable to support the registration of a new source of methoxyfenozide for Methoxyfenozide Technical Insecticide.

#### References

PMRA Document

**Number** Reference

3463358 2023, 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 Methoxyfenzozide, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4, 2.12.1, 2.13.1,

2.13.2, 2.13.3.

# © His Majesty the King in Right of Canada, as represented by the Minister of Health Canada, 2024

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.