

Re-evaluation Decision

RVD2023-13

(Z)-9-Tricosene and Its Associated End-use Products

Final Decision

(publié aussi en français)

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Re-evaluation decision for (Z)-9-Tricosene and associated end-use products

Under the authority of the *Pest Control Products Act*, all registered pesticides must be regularly re-evaluated by Health Canada's Pest Management Regulatory Agency (PMRA) to ensure that they continue to meet health and environmental standards and continue to have value. The re-evaluation considers information from various sources such as data and information from pesticide manufacturers and other regulatory agencies, as well as comments received during public consultations. Health Canada applies internationally accepted risk assessment methods as well as risk management approaches and policies.

(Z)-9-tricosene, also known as muscalure, is used for the control of flies and acts as a fly attractant. It is a semiochemical that is produced by the female house fly, *Musca domestica*. (Z)-9-tricosene commercial end-use products are registered for use in and around animal/livestock housing or in residential/commercial structures and inside transport vehicles. The commercial class end-use products are co-formulated with conventional insecticides and are available as bait stations, sprays or brushable paint. The domestic class end-use product is not co-formulated with any other insecticide and is registered for outdoor use around residential and farm buildings to reduce fly populations using physical traps. Currently registered products containing (Z)-9-tricosene can be found in the Pesticide Product Information Database and in Appendix I.

The Proposed Re-evaluation Decision PRVD2022-07, (*Z*)-9-Tricosene and its Associated Enduse Products¹ containing the evaluation of (*Z*)-9-tricosene underwent a 90-day consultation period ending on 25 July 2022. PRVD2022-07 proposed continued registration of (*Z*)-9-tricosene products for sale and use in Canada, with label updates to meet current labelling standards (Appendix II).

No comments were received during the consultation period. Therefore, this decision is consistent with the proposed re-evaluation decision stated in PRVD2022-07, which lists all information used as the basis for the re-evaluation decision.

This document presents the final re-evaluation decision² for the re-evaluation of (Z)-9-tricosene, including the label updates required to bring labels to current standards and improve clarity. All products containing (Z)-9-tricosene that are registered in Canada are subject to this re-evaluation decision.

Re-evaluation decision for (Z)-9-Tricosene

Health Canada has completed the re-evaluation of (Z)-9-tricosene. Under the authority of the *Pest Control Products Act*, Health Canada has determined that continued registration of products containing (Z)-9-tricosene is acceptable. An evaluation of available scientific information found

[&]quot;Consultation statement" as required by subsection 28(2) of the *Pest Control Products Act*.

[&]quot;Decision statement" as required by subsection 28(5) of the *Pest Control Products Act*.

that the use of (Z)-9-tricosene products meet current standards for protection of human health and the environment and have acceptable value when used according to revised conditions of registration which includes label updates.

Risk mitigation measures

Registered pesticide product labels include specific directions for use. Directions include risk mitigation measures to protect human health and the environment and must be followed by law. The required updated label statements, as a result of the re-evaluation of (Z)-9-tricosene, are summarized below. Refer to Appendix II for details.

Label improvements to meet current standards:

Human health

• Update to standard label statements (wording related to health precautions).

Environment

Updates to standard label statements (directions for use).

Next steps

To comply with this decision, the required label amendments must be implemented on all product labels no later than 24 months after the publication date of this decision document. Accordingly, both registrants and retailers will have up to 24 months from the date of this decision document to transition to selling the product with the newly amended labels. Similarly, users will also have the same 24-month period from the date of this decision document to transition to using the newly amended labels, which will be available on the Public Registry.

Refer to Appendix I for details on specific products impacted by this decision.

Other information

Any person may file a notice of objection³ regarding this decision on (Z)-9-tricosene and its associated end-use products within 60 days from the date of publication of this Re-evaluation Decision. For more information regarding the basis for objecting (which must be based on scientific grounds), please refer to the Pesticides section of the Canada.ca website (Request a Reconsideration of Decision) or contact Health Canada's Pest Management Information Service.

The relevant confidential test data on which the decision is based (as referenced in PRVD2022-07) are available for public inspection, upon application, in Health Canada's Reading Room. For more information, please contact Health Canada's Pest Management Information Service.

As per subsection 35(1) of the Pest Control Products Act.

Appendix I Registered products containing (Z)-9-Tricosene in Canada

Table 1 Products containing (Z)-9-Tricosene requiring (label) amendments¹

Registration number	Marketing class*	Registrant	Product name	Formulation type	Active ingredient (%)
15176	С	Wellmark International	Starbar Premium Fly Bait	Granular	Muscalure 0.049%; Methomyl 1.000%
28297	С	Elanco Canada Limited	Agita™ Fly Bait	Granular	Muscalure 0.10%; Thiamethoxam 1.0%
29428	С	Engage Animal Health Corporation	Fatal Attraction Fly Bait	Granular	Muscalure 0.025%; Methomyl 1.000%
30336	С	Elanco Canada Limited	Agita 10 WG	Wettable Granules	Muscalure 0.05%; Thiamethoxam 10%
32234	С	2022 Environmental Science CA Inc.	QuickBayt Granular Fly Bait	Granular	Muscalure 0.09%; Imidacloprid 0.5%
32493	С	2022 Environmental Science CA Inc.	Maxforce Fly Spot Bait	Granular	Muscalure 0.1%; Imidacloprid 10%
33305	С	2022 Environmental Science CA Inc.	QuickBayt Spot Spray	Wettable Granules	Muscalure 0.1%; Imidacloprid 10%
33562	С	Sharda Cropchem Limited	SoFast Granular Fly Bait	Granular	Muscalure 0.1% Imidacloprid 0.5%
32124	D	Wellmark International	Starbar Fly Trap Attractant	Wettable Granules	Muscalure 1.0%

¹ as of 30 May 2023, excluding discontinued products or products with a submission for discontinuation

Table 2 Products containing (Z)-9-Tricosene that do not require (label) amendments¹

Registration number	Marketing class*	Registrant	Product name	Formulation type	Active ingredient (%)
24957	Т	Bedoukian Research, Inc.	Bedoukian Z-9- Tricosene Technical Pheromone	Liquid	93.48%
25312	T	Denka International B.V.	Technical Muscalure	Liquid	86.0%

¹ as of 30 May 2023, excluding discontinued products or products with a submission for discontinuation

^{*} T = Technical; D = Domestic; C = Commercial

^{*} T = Technical; D = Domestic; C = Commercial

Appendix II Label amendments for products containing (Z)-9-Tricosene

Information on labels of currently registered products should not be removed unless it contradicts the label statements provided below:

General

For commercial and domestic end-use products:

• Labels with structural uses must be amended to reflect the revised definitions for application types outlined in the 2020 publication PMRA Guidance Document, Structural Pest Control Products: Label Updates.

Human health

For commercial and domestic end-use products:

 Labels with structural uses and surface or space application must be amended to reflect the standard human health precautionary statements outlined in the 2020 PMRA publication PMRA Guidance Document, Structural Pest Control Products: Label Updates.

Environment

For PCP No. 28297 (commercial end-use product with granular formulation), addition of the following under "Directions for Use":

I. "When used in areas accessible to birds, bait must be placed in a tamper-resistant bait station that prevents birds from consuming the bait."