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Re-evaluation Decision

RVD2022-18

Methyl Nonyl Ketone and Its Associated End- use Products

Final Decision

(publié aussi en français)

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Re-evaluation decision for methyl nonyl ketone 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 safety 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 current risk management approaches and policies.

Methyl nonyl ketone is registered in Canada for use as an animal repellent against cats and dogs in a wide range of indoor and outdoor domestic settings such as on furniture, carpets, flowerbeds, lawns, patios, and garbage cans. It can be applied as a spray (indoor and outdoor), or by spreading the granular product by hand or with a fertilizer spreader (outdoor). It acts by confusing the animal's sense of smell and discouraging it from visiting the treated area.

Currently registered products containing Methyl nonyl ketone can be found in the [Pesticide Product Information Database](#) and in Appendix I. The Proposed Re-evaluation Decision PRVD2022-08 *Methyl Nonyl Ketone and Its Associated End-use Products*¹ containing the evaluation of methyl nonyl ketone underwent a 90-day consultation period ending on 28 July 2022. PRVD2022-08 proposed continued registration of methyl nonyl ketone products in Canada, with the proposed updates to label directions.

No comments were received during the consultation period. Therefore, this decision is consistent with the proposed re-evaluation decision stated in PRVD2022-08, 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 methyl nonyl ketone, including the required label updates required to bring labels to current standards. All products containing methyl nonyl ketone that are registered in Canada are subject to this re-evaluation decision.

Re-evaluation decision for methyl nonyl ketone

Health Canada has completed the re-evaluation of methyl nonyl ketone. Under the authority of the *Pest Control Products Act*, Health Canada has determined that continued registration of products containing methyl nonyl ketone is acceptable. Following a scientific review of the available information, Health Canada has determined that the health and environmental risks and the value of methyl nonyl ketone continue to be acceptable provided that the required mitigation

¹ "Consultation statement" as required by subsection 28(2) of the *Pest Control Products Act*.

² "Decision statement" as required by subsection 28(5) of the *Pest Control Products Act*.

measures are implemented. Label amendments, as summarized below and listed in Appendix II, are required. No additional data are required at this time.

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 methyl nonyl ketone, are summarized below. Refer to Appendix II for details.

Human health

- Update to standard label statements (wording related to personal protective equipment and health precautions).

Environment

- Updates to standard label statements (environmental precautions, directions for use).
- Re-treatment intervals must include a statement that application of the product should not continue once the undesirable habits of your pet or stray animals has changed.

Next steps

To comply with this decision, the required amendments (mitigation measures and label updates) 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 methyl nonyl ketone 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](#).

³ As per subsection 35(1) of the *Pest Control Products Act*.

The relevant confidential test data on which the decision is based (as referenced in PRVD2022-08) 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.

Appendix I Registered products containing methyl nonyl ketone in Canada¹

Table 1 Products containing methyl nonyl ketone requiring (label) amendments

Registration number	Marketing class	Registrant	Product name	Formulation type	Active ingredient (% , g/L)
10403	D	Rolf C. Hagen Inc.	Hagen Aerosol Indoor Cat Repellent	Pressurized Product	1.9%
12857	D	Premier Tech Ltd.	Wilson Granular Repell Dog & Cat Repellent	Granular	1.9%
20362	D	PLZ Corp.	K-G Dog And Cat Repellent Pressurized Spray	Pressurized Product	1.9%
21733	D	King Home & Garden Inc.	Get Off My Garden Dog & Cat Repellent	Liquid	1.9%
21791	D	King Home & Garden Inc.	Get Off My Garden Dog & Cat Repellent Spray	Emulsifiable Concentrate or Emulsion	2.1%
22094	D	Rolf C. Hagen Inc.	Hagen Indoor Repellent For Cats	Solution	1.9%
22095	D	Rolf C. Hagen Inc.	Hagen Outdoor Repellent For Dogs & Cats	Solution	1.9%
22246	D	Rolf C. Hagen Inc.	Hagen Indoor Repellent For Dogs	Solution	1.9%
22780	D	PLZ Corp.	Spray-Pak Repellent For Dogs & Cats	Pressurized Product	1.9%
22781	D	Les Accessoires Hunter Brand Inc.	Hunter's Repellent For Dogs & Cats	Pressurized Product	1.9%

Registration number	Marketing class	Registrant	Product name	Formulation type	Active ingredient (% , g/L)
25194	D	Rolf C. Hagen Inc.	Sergeant's Shoo! Dog & Cat Repellent & Training Aid	Pressurized Product	1.9%
29043	D	753146 AB Ltd. O/A Ultrasol Industries	Doktor Doom Indoor And Outdoor Dog And Cat Repellent	Pressurized Product	1.9%
30414	D	Business Helpers' Depot Inc.	Sure Guard M-7	Pressurized Product	1.9%
30982	D	Novella Brands Inc.	Blaze Pro Animal Repellent	Pressurized Product	1.9%
31931	D	Woodstream Canada Corporation	Chemfree Cat & Dog Repellent	Pressurized Product	1.9%

¹as of 17 August 2022, excluding discontinued products or products with a submission for discontinuation

Table 2 Products containing methyl nonyl ketone that do not require (label) amendments

Registration number	Marketing class	Registrant	Product name	Formulation type	Active ingredient (% , g/L)
21574	T	McLaughlin Gormley King Company	MGK Dog & Cat Repellent	Solution	99.7%
21575	M	McLaughlin Gormley King Company	MGK Dog & Cat Repellent Emulsifiable F-1770	Emulsifiable Concentrate or Emulsion	66.67%

¹as of 17 August 2022, excluding discontinued products or products with a submission for discontinuation

T = Technical, M = Manufacturing Concentrate, D = Domestic

Appendix II Label amendments for end-use products containing methyl nonyl ketone

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

To meet current standards, the following label amendments are required:

- I. Replace “GUARANTEE” with “ACTIVE INGREDIENT” for all applicable products.
- II. The following statement under the PRECAUTIONS section:

Replace “gloves” with “*waterproof gloves*”
- III. The following statements are required to be included under PRECAUTIONS section:

“Do not treat pets with this product.”

Do not apply in wildlife habitat areas (e.g., Parklands, forested lands).”
- IV. The principal display panel must reflect all the use locations stated in the DIRECTIONS FOR USE in the secondary panel of the label. For example, “Cat and Dog Repellent for use outdoors on shrubs and trees adjacent to buildings and on outdoor garbage cans”.
- V. The primary and secondary panel must clearly identify whether the product is “FOR INDOOR USE ONLY”, “FOR OUTDOOR USE ONLY” and “FOR INDOOR OR OUTDOOR USE”. Label instructions must be consistent with where the product is to be used throughout the label (for example, no references to outdoor uses if product is used indoors only).
- VI. Locations of use must clearly be identified on a label and reflect the registered use-site category. Vague statements must be deleted or amended. This includes but is not limited to: “...forbidden areas of your home”. General terms may be used in a statement that clearly identifies specific locations. For example, “Cat and Dog repellent for use on indoor building surfaces and furniture”.
- VII. Directions for use must be clear for each site/pest combination and contain all information regarding the use of the product. For example, claims, location of use, timing and frequency of application and any limitations on its use.
- VIII. Re-treatment intervals must include a statement that application of the product should not continue once the undesirable habits of your pet or stray animals has changed. For example, “Discontinue use once the behaviour of getting on the structure or furniture has stopped.”

- IX. Remove references to “retreat as necessary” or equivalent. A specific retreatment interval (for example, daily) must be stated.
- X. For products applied outdoors, add: “DO NOT apply in areas where plants are grown for food or feed (e.g., vegetables, fruit, and herbs).”
- XI. Where there is a potential of damage, non-safety adverse effects statements should be added such as “Users should test (treat) a small, inconspicuous area first to ensure there are no adverse effects such as staining or discolouration.”, “Before spraying large areas, test the potential damage of the repellent by first treating a small inconspicuous area” and “It is advisable to treat a small portion of plants or lawns to determine if damage will occur.”
- XII. Refer to the following PMRA regulatory policies and guidelines listed below for more details on the required labelling elements for pesticide products:

[Checklist of Labelling Requirements for Pest Control Products.](#)

[LPS2011-02, Guidance to Improve Statements on Labels of Domestic Class Products](#)