



Health
Canada

Santé
Canada

Your health and
safety... our priority.

Votre santé et votre
sécurité... notre priorité.

Special Review Decision

SRD2021-02

Special Review Decision: Linuron and Its Associated End-use Products

Final Decision Document

(publié aussi en français)

29 March 2021

This document is published by the Health Canada Pest Management Regulatory Agency. For further information, please contact:

Publications
Pest Management Regulatory Agency
Health Canada
2720 Riverside Drive
A.L. 6607 D
Ottawa, Ontario K1A 0K9

Internet: canada.ca/pesticides
hc.pmra.publications-arla.sc@canada.ca
Facsimile: 613-736-3758
Information Service:
1-800-267-6315 or 613-736-3799
hc.pmra.info-arla.sc@canada.ca

Canada 

ISSN: 2561-6269 (online)

Catalogue number: H113-17/2021-2E (print version)
H113-17/2021-2E-PDF (PDF version)

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Health Canada, 2021

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.

Special review decision

Pursuant to subsection 17(2) of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) initiated a special review of all registered pest control products containing linuron. This special review was based on the decision taken by Norway in 2007 to prohibit the use of linuron due to human health and environmental concerns, and the decision taken by the European Union (EU) in 2017 to prohibit the use of linuron due to human health and environmental concerns.

Health Canada evaluated the aspects of concern that prompted the special review in accordance with subsection 18(4) of the *Pest Control Products Act*. The proposed special review decision was published for consultation¹ in the Proposed Special Review Decision PSRD2020-05, *Special Review for Linuron and Its Associated End-use Products*. No comments were received during the consultation period.

Linuron is an herbicide registered for commercial use in Canada. Re-evaluation of linuron was completed in 2020 (Re-evaluation Decision RVD2020-10, *Linuron and its associated end-use products*), and continued registration is granted for uses on carrots, parsnip, potato, asparagus, and shelterbelts with additional risk mitigation measures. Currently registered pest control products containing linuron are listed in Appendix I.

Following an evaluation of the aspects of concern, Health Canada has determined that continued registration of products containing linuron is considered to be acceptable with the risk mitigation measures and label amendments outlined in RVD2020-10. A summary of the label amendments that are relevant for the special review are included for information in Appendix II. Therefore, Health Canada, under the authority of the *Pest Control Products Act*, is confirming the current registration of pest control products containing linuron in Canada, with revised label directions as outlined in RVD2020-10. No additional risk mitigation measures are required.

All pest control products containing linuron that are registered in Canada are subject to this special review decision.

This document presents the final regulatory decision² for the special review of linuron. A reference list of information used as the basis for the proposed special review decision is included in PSRD2020-05. Therefore, the complete reference list of all information used in this final special review decision includes the information set out in PSRD2020-05.

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*.

Other information

Any person may file a notice of objection³ regarding this decision on linuron within 60 days from the date of publication of this special review 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 the PMRA's Pest Management Information Service.

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

Appendix I Registered products containing Linuron**Table 1 Registered products containing linuron as of 26 January 2021**

Registration number	Marketing class	Registrant	Product Name	Formulation type	Guarantee
19696	Technical	Tessenderlo Kerley, Inc.	Linuron Flake Technical	Wettable Granules	96.9%
27852	Technical	Tessenderlo Kerley, Inc.	Linurex Technical	Dust or Powder	96.8%
16279	Commercial	Tessenderlo Kerley, Inc.	Lorox L Herbicide	Suspension	480 g/L
16363	Commercial	Adama Agricultural Solutions Canada Ltd.	Afolan F Herbicide	Suspension	450 g /L

Appendix II Summary of risk mitigation measures related to the aspects of concern

Uses not supported by manufacturers for re-evaluation and will be removed from all product labels:

- Field corn (post-emergence).
- Aerial and handheld applications.

Cancelled uses to be removed from all product labels:

- Tree fruit (apple, peach, pear, plum/prune, cherry), corn (field and sweet), wheat, barley, oats, soybean, celery, Saskatoon berries, chokecherries, dill, coriander, caraway, sweet white lupins, and pre-emergent combined with postharvest application to asparagus.
- Airblast and right-of way application equipment.

Human health

Risk mitigation:

To protect human health from exposure, the following risk-reduction measures are required for uses with continued registration (carrots, parsnip, potato, asparagus and shelterbelts):

- Revised maximum application rates
 - Limit pre-emergent and postemergent applications to carrots to a maximum annual application rate of 1.68 kg a.i./ha.
 - Limit pre-emergent and postemergent applications to parsnips to a maximum annual rate of 1.50 kg a.i./ha.
 - Limit pre-emergent application to potatoes to a maximum annual rate of 1.78 kg a.i./ha.
 - Limit pre-emergent or postemergent application to asparagus to a maximum annual application rate of 1.63 kg a.i./ha.
 - Limit dormant stage application to shelterbelts to a maximum annual application rate of 2.16 kg a.i./ha.
- To protect consumers, increase the plant back interval restriction from 4 months to 12 months for carrots, potato, and parsnip.
- To protect mixers/loaders and applicators: increased personal protective equipment (PPE), addition of engineering controls (closed mixing loading and closed cab application), and restrictions on some types of application equipment.
- To protect postapplication workers: increased restricted-entry intervals (REIs) for all activities.
- To protect bystanders from spray drift: require a statement to promote best management practices to minimize human exposure from spray drift or spray residues resulting from drift.

Environment

Label improvements to meet current standards:

- Updated discharge of effluent statements.
- Updated storage statements.

Risk mitigation:

To protect the environment, the following risk-reduction measures are required for uses with continued registration (carrots, parsnip, potato, asparagus and shelterbelts):

- Standard label statements are required to minimize potential risks resulting from runoff.
- Standard hazard statements to inform users of the potential toxic effects to sensitive biota.
- Aerial application is prohibited.
- Buffer zones are required to mitigate risks from spray drift.

For details on label amendments, please refer to RVD2020-10.