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Re-evaluation Decision

RVD2021-02

Fenhexamid and Its Associated End-use Products

Final Decision

(publié aussi en français)

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Re-evaluation decision for fenhexamid and associated end-use products

Under the authority of the *Pest Control Products Act*, all registered pesticides must be re-evaluated by Health Canada's Pest Management Regulatory Agency (PMRA) to ensure that they continue to meet current health and environmental standards and continue to have value. The re-evaluation considers data and information from pesticide manufacturers, published scientific reports 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.

Fenhexamid is a foliar fungicide registered for use on greenhouse vegetables and ornamentals, as well as outdoor fruit trees, berries, ginseng, grapes, stone fruits and ornamentals. Currently registered products containing fenhexamid can be found in the Pesticide [Label Search](#) and in Appendix I.

The Proposed Re-evaluation Decision PRVD2020-01, *Fenhexamid and Its Associated End-use Products*,¹ containing the evaluation of fenhexamid and the proposed decision underwent a 90 day consultation period ending on 6 April 2020. PRVD2020-01 proposed that products containing fenhexamid are acceptable for continued registration in Canada, provided that the additional proposed risk mitigation measures are in place. The proposed risk mitigation measures included: additional personal protective equipment (PPE), increased restricted-entry intervals (REIs), reduction in number of applications for some crops, environmental hazard statements including terrestrial spray buffer zones, and standard runoff statements.

Health Canada received comments relating to the value and occupational assessments. Commenters are listed in Appendix II. The comments are summarized in Appendix III along with the responses by Health Canada. The comments did not result in revisions to the risk assessments, and did not result in changes to the proposed re-evaluation decision as described in PRVD2020-01.

This document presents the final regulatory decision² for the re-evaluation of fenhexamid, including the required amendments (risk mitigation measures) to protect human health and the environment, as well as the label amendments required to bring labels to current standards. All products containing fenhexamid that are registered in Canada are subject to this re-evaluation decision.

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*.

Re-evaluation decision for fenhexamid

Health Canada has completed the re-evaluation of fenhexamid. Under the authority of the *Pest Control Products Act*, Health Canada has determined that continued registration of products containing fenhexamid is acceptable. An evaluation of available scientific information found that the use of fenhexamid products meet current standards for protection of human health and the environment when used according to revised conditions of registration, which includes new mitigation measures.

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 amendments, including any revised label statements and mitigation measures, as a result of the re-evaluation of fenhexamid, are summarized below. Refer to Appendix IV for details.

Human health

To protect human health, the following risk-reduction measures are required for continued registration of fenhexamid in Canada:

- For mixers/loaders and applicators:
 - Wear long-sleeved shirt, long pants and chemical-resistant gloves.
 - When applying using handheld airblast/mistblower equipment, wear chemical resistant coveralls with a chemical resistant hood over long-sleeved shirt, long pants, and chemical-resistant gloves, and a respirator.
- For postapplication workers:
 - Increase the current label REI of 4 hours to 12 hours. Longer REIs are also required for some specific crops and activities (Appendix IV).
 - Decrease the number of applications for ornamentals grown for cut flowers from 6 applications/year or crop cycle to 1 per crop cycle (greenhouse) and 4 per year (outdoor).

Environment

To protect the environment, the following risk-reduction measures are required for continued registration of fenhexamid in Canada:

- Standard hazard statements are required to inform users of the potential for toxic effects to mammals, fish and amphibians.
- To reduce the potential for runoff of fenhexamid to adjacent aquatic habitats, precautionary statements are required for sites with characteristics that may be conducive to runoff and when heavy rain is forecasted.
- To mitigate the potential impact of spray drift on non-target organisms, spray buffer

- zones of 1–20 m are required to protect sensitive aquatic habitats.
- A label statement directing users not to discharge fenhexamid-contaminated effluent from greenhouses into aquatic environments is also required.

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 fenhexamid 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 the PMRA's Pest Management Information Service by phone (1-800-267-6315) or by e-mail (hc.pmra.info-arla.sc@canada.ca).

The relevant test data on which the decision is based (as referenced in PRVD2020-01) are available for public inspection, upon application, in the PMRA's Reading Room (located in Ottawa). For more information, please contact the PMRA's Pest Management Information Service.

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

List of abbreviations

m	metre(s)
PMRA	Pest Management Regulatory Agency
PPE	personal protective equipment
PRVD	Proposed Re-evaluation Decision
REI	restricted-entry interval
RVD	Re-evaluation Decision

Appendix I Registered fenhexamid products in Canada

Table 1 Registered fenhexamid products in Canada requiring label amendments¹

Registration Number	Marketing Class	Registrant	Product Name	Formulation Type	Guarantee
25899	Technical Grade Active Ingredient	ARYSTA LIFESCIENCE NORTH AMERICA LLC	FENHEXAMID TECHNICAL	Solid	98.6%
25900	Commercial	ARYSTA LIFESCIENCE NORTH AMERICA LLC	ELEVATE 50 WDG FUNGICIDE	Wettable granules	50.0%
26132		ARYSTA LIFESCIENCE NORTH AMERICA LLC	DECREE 50 WDG FUNGICIDE	Wettable granules	50.0%

¹ As of 5 May 2020, excluding discontinued products or products with a submission for discontinuation.

Appendix II List of commenters to PRVD2020-01**List of commenters' affiliations for comments submitted in response to PRVD2020-01**

Category	Commenter
Non-profit national association	Canadian Horticulture Council

Appendix III Comments and responses

In response to the consultation for the proposed fenhexamid re-evaluation decision, written comments were received. These comments were considered during the final decision phase of this re-evaluation. Health Canada's responses to the comments are provided below.

1.0 Comments related to the value assessment

Comment:

A letter of support was received from the Canadian Horticultural Council for the proposed label amendments as indicated in PRVD2020-01. Also, they provided a description of the importance of fenhexamid to greenhouse vegetable growers for both controlling and managing grey mould (*Botrytis cinerea*) and as a rotational tool in resistance management.

Health Canada response:

The PMRA recognizes the importance of fenhexamid in managing *Botrytis cinerea* in greenhouse vegetables and its importance as a rotational tool in resistance management. As the registration for this use is maintained, greenhouse vegetable growers will continue to have access to fenhexamid for disease control and resistance management.

2.0 Comments related to the health assessment

Comment:

The Canadian Horticulture Council noted that for the occupational postapplication risk assessment, the dissipation rate of 0% per day was used to estimate dislodgeable foliar residues for greenhouse vegetables. This value was recently updated from 0% to 2.3% based on information submitted to the PMRA.

Health Canada response:

Health Canada acknowledges that the dissipation rates for greenhouse vegetables and greenhouse ornamentals were recently updated to 2% per day. The previous values of 0% dissipation for greenhouse vegetables and 2.3% dissipation for greenhouse ornamentals were used in the fenhexamid risk assessment as it was conducted prior to the finalization of the updated approach. As risks for postapplication workers were shown to be acceptable on day 0 in the PRVD for greenhouse vegetables and greenhouse ornamentals, the updated dissipation rates have no impact on the risk assessment outcome or the required mitigation. Therefore, it was not necessary to update the risk assessment for the RVD.

Appendix IV Label amendments for products containing fenhexamid

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

Label amendments for technical class products

- a) On the principle display panel, replace “GUARANTEE” with “ACTIVE INGREDIENT”
- b) The following statements are to be added to the “Environmental Hazards/Precautions” section of the fenhexamid technical labels:
 - TOXIC to aquatic organisms.
 - DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.
- c) The following statements are required under the “Disposal” Section of the label for technical grade fenhexamid:
 - Canadian manufacturers should dispose of unwanted active ingredients and containers in accordance with municipal or provincial regulations. For additional details and cleanup of spills, contact the manufacturer or the provincial regulatory agency.

Label amendments for Elevate 50WDG Fungicide – Reg. No. 25900

1. Label amendments relating to the health risk assessment

- a) On the principle display panel:
 - **Replace:**
“Not for Residential Use”
With:
“**DO NOT** use in residential areas. Residential areas are defined as sites where bystanders including children may be potentially exposed during or after spraying. This includes around homes, school, parks, playgrounds, playing fields, public buildings or any other areas where the general public including children could be exposed.”
- b) Move the “**PRECAUTIONS**” section up to before “**DIRECTIONS FOR USE**”. “**FIRST AID**” and “**TOXICOLOGICAL INFORMATION**” should be moved from within the “**PRECAUTIONS**” section to a separate section before “**PRECAUTIONS**”. The order of these sections should be the same as on the label for product with registration number 26132.

c) Under “**PRECAUTIONS**”, the product label must be amended as follows:

- **Replace:**

“DO NOT reenter treated area within 4 hours”

With:

“**DO NOT** enter or allow worker entry into treated areas during the restricted entry intervals (REIs) specified in the following table:”

Crop	Activity	REI and/or PHI
Bushberries (blueberry, currant, elderberry, gooseberry, and huckleberry), raspberries (red and black), loganberries and blackberries, strawberries	Harvesting (hand, mechanical)	1 day
	All other activities	12 hours
Ginseng	All activities	12 hours
Cherries and peaches/nectarines	Thinning fruit by hand	3 days
	Harvesting (hand, mechanical)	1 day
	All other activities	12 hours
Grapes	Girdling, turning	40 days
	Harvesting (hand, mechanical)	7 days
	Leaf pulling by hand, tying/training (full foliage)	5 days
	All other activities	12 hours

REI = restricted-entry interval; PHI = pre-harvest interval

- **Replace:**

“Avoid spray drift”

With:

“Avoid spray drift. Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.”

- **Replace:**

“Wear long sleeved shirt and long pants during all activities. In addition, wear chemical resistant gloves during mixing, loading, cleanup and repair activities.”

With:

“For application using handheld air blast/mistblower, wear chemical-resistant coveralls with a chemical-resistant hood over long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides.”

“For all other application equipment, and during mixing, loading, clean-up, and repair, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during application within a closed cab.”

- **Remove:**
“For application to cherries, peaches and nectarines, wear a hat during activities. Also, use either a respirator with a NIOSH/MSHA/BHSE approved organic-vapour-removing cartridge and a prefilter approved for pesticides OR a NIOSH/MSHA/BHSE canister approved for pesticides.”

d) Under **“DIRECTIONS FOR USE”**, the product label must be amended as follows:

- **Add the statement:**
“**DO NOT** apply in greenhouses.”

2. Label amendments relating to the environmental risk assessment

a) The following statements are to be added to the **“ENVIRONMENTAL PRECAUTIONS”** section:

- Toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.
- Toxic to small wild mammals.

b) The following statements are required under the **“DIRECTIONS FOR USE”** section on all product labels:

- To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.
- Avoid application of this product when heavy rain is forecast.
- Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.
- DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
- As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.
- **Field sprayer application: DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

- **Air blast application: DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.
- **DO NOT** apply by air.
- **Buffer zones:**
 - Spot treatments using handheld equipment **DO NOT** require a buffer zone.
 - The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:	
			Freshwater Habitat of Depths:	
			Less than 1 m	Greater than 1 m
Field sprayer	Blueberry, currant, elderberry, gooseberry, huckleberry, raspberry, loganberry, blackberry, strawberry, ginseng		1	1
	Grapes		1	0
Air blast	Blueberry, currant, elderberry, gooseberry, huckleberry, cherry, peach, nectarine, raspberry, loganberry, blackberry, strawberry, ginseng	Early growth stage	20	1
		Late growth stage	10	1
	Grapes (for control of <i>Botrytis cinera</i>)	Early growth stage	10	0
		Late growth stage	5	0
	Grapes (for control of powdery mildew)	Early growth stage	3	0
		Late growth stage	2	0

- For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.
- The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

c) The following statement is required under the “**STORAGE**” heading

- To prevent contamination, store this product away from food and feed

d) The following statements are required under the “**DISPOSAL**” heading, inclusion of these statements is dependant on the end-use product.

- The following statements should be used for commercial and restricted class products other than agriculture and non-crop land, where non-recyclable, non-returnable or non-refillable containers are used:
 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
 2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
 3. Make the empty container unsuitable for further use.
 4. Dispose of the container in accordance with provincial requirements.
 5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

- **For recyclable containers**

The following statement would apply to plastic or metal containers that contain agricultural and non-crop land uses (for example, forestry) pesticide products, and that are designed to contain 23 L or less of product.

Disposal of Container:

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

-
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

- **For returnable containers**

Disposal of Container:

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

- **For containers that can be refilled for the user by the distributor/dealer**

Disposal of Container:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

- **Disposal of unused, unwanted product**

A revised standard label statement providing directions for the disposal of unused, unwanted product will be added to labels of agricultural and non-crop land control products:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

3. Label Amendments Relating to the Value Assessment

- a) On the principle display panel:

Replace:

“GUARANTEE”

With:

“ACTIVE INGREDIENT”

- b) Page 2 of 8, under the “**RESISTANCE MANAGEMENT RECOMMENDATIONS**” section: As per Regulatory Directive DIR2013-04, Pesticide Resistance Management Labelling Based on Target Site/Mode of Action, verify the resistance management statement is updated to reflect current wording as follows:

“To delay fungicide resistance:

- Where possible, rotate the use of ELEVATE 50 WDG or other Group 17 fungicides with different groups that control the same pathogens. Avoid application of more than 2 consecutive sprays of ELEVATE 50 WDG or other Group 17 fungicides in the same season.
- Use tank mixtures with fungicides from a different group when such use is permitted.
- Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for resistance development.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management as per Dir 99-06 and/or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact ARYSTA LIFESCIENCE NORTH AMERICA LLC at 1-866-761-9397.”

c) Page 3 of 8, under the “**APPLICATION**” section, last sentence:

Replace:

“Do not use overhead...”

With:

“**DO NOT** use overhead...”

d) Page 3 of 8, under the “**BUSHBERRIES...**” section, 1st sentence:

Replace:

“...minimum interval...”

With:

“... minimum re-application interval ...”

e) Page 3 of 8, under the “**BUSHBERRIES...**” section, immediately following “Ground applications only”, insert the following sentence:

“A spray volume of 500-1500 L/ha is recommended.”

f) Page 4 of 8, under the “**CHERRIES AND PEACHES/NECTARINES**” section, 1st paragraph, immediately following “...four applications per season for control of all diseases.”, insert the following sentence:

“A spray volume of 500-1500 L/ha is recommended.”

- g) Page 4 of 8, under the “**CHERRIES AND PEACHES/NECTARINES**” section, 1st paragraph:
Replace:
 “Minimum interval of seven days.”
With:
 “Minimum re-application interval of seven days must be observed.”
- h) Page 4 of 8, under the “**CHERRIES AND PEACHES/NECTARINES**” section, 3rd paragraph:
Replace:
 Both instances of “3000 litres of water”
With:
 “1500 litres of water”
- i) Page 4 of 8, under the “**GINSENG**” section, 1st paragraph: immediately following “...at 10-14 days intervals.”, insert the following sentence:
 “A spray volume of 500-1500 L/ha is recommended.”
- j) Page 5 of 8, under the “**GRAPES**” section, 1st paragraph, **replace** the entire paragraph **with** the following text:

“GRAPES

A maximum of 3 applications per year are permitted on grapes.

For the control of *Botrytis* bunch rot (gray mold) on grapes, apply 1.12 kg product per hectare (0.56 kg ai/ha) tank mixed with Agral 90 at 0.02% v/v. A spray volume of 500-1500 L/ha is recommended. Apply preventatively prior to disease establishment, when conditions favour disease development. Applications can be made at early bloom, bunch preclosure, veraison (beginning of fruit ripening) to two weeks after veraison, or up to 7 days before harvest (PHI = 7 days). Make only one application per year when targeting *Botrytis*.

For control of powdery mildew, and blackrot, ELEVATE 50 WDG may be tankmixed with NOVA[®] FUNGICIDE when conditions favour disease development. Consult the NOVA FUNGICIDE label for the appropriate application rates. DO NOT make more than 3 applications per season when targeting powdery mildew or blackrot. DO NOT apply more than 3.4 kg of product per hectare per year (1.7 kg ai/ha/yr).”

- k) Page 5 of 8, under the “**RASPBERRIES...**” section, **replace** the entire paragraph **with** the following text:

“RASPBERRIES (red and black), LOGANBERRIES AND BLACKBERRIES

For the control of *Botrytis cinerea* (Gray Mold) on red and black raspberries, loganberries and blackberries, apply 1.7 kg product per hectare (0.85 kg ai/ha) as a foliar spray. A spray volume of 500-1500 L/ha is recommended. Begin application at 10% bloom and continue up to 1 day prior to harvest (PHI = 1 day). Minimum re-application interval of 7 days must be observed. DO NOT make more than 4 applications per year. Ground applications only. DO NOT apply more than 6.8 kg product per hectare per year (3.4 kg ai/ha/yr).”

- l) Page 5 of 8, under the “**STRAWBERRIES...**” section, 7th line:

Replace:

“DO NOT make more than 4 applications per season”

With:

DO NOT make more than 4 application of ELEVATE 50 WDG per season.”

Label amendments for Decree 50WDG Fungicide – Reg. No. 26132

1. Label amendments relating to the health risk assessment

- a) On the principle display panel:

- **Replace:**

“Not for Residential Use”

With:

“**DO NOT** use in residential areas. Residential areas are defined as sites where bystanders including children may be potentially exposed during or after spraying. This includes around homes, school, parks, playgrounds, playing fields, public buildings or any other areas where the general public including children could be exposed.”

- b) Under “**PRECAUTIONS**”, the product label must be amended as follows:

- **Replace:**

“DO NOT reenter treated area within 4 hours”

With:

“**DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.”

- **Replace:**

“Avoid spray drift”

With:

“Avoid spray drift. Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.”

- **Replace:**

“Wear long sleeved shirt and long pants during all activities. In addition, wear chemical resistant gloves during mixing, loading, cleanup and repair activities.”

- **With:**

“For application using handheld air blast/mistblower, wear chemical-resistant coveralls with a chemical-resistant hood over long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides.”

“For all other application equipment, and during mixing, loading, clean-up, and repair, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during application within a closed cab.”

c) Under “**DIRECTIONS FOR USE**”, the product label must be amended as follows:

- **Remove:**

“Do not apply this product using fogging equipment (handheld or automated), or using handheld mist blowers/air blast equipment.”

d) Under “**DIRECTIONS FOR USE**” “**ORNAMENTALS – OUTDOOR-GROWN AND GREENHOUSE-GROWN**”, last paragraph, **replace** the entire paragraph **with** the following text:

- For outdoor ornamentals not grown for cut flowers, DO NOT apply more than 6.8 kilograms product per hectare per year (3.4 kg ai/ha/year). DO NOT apply more than 6 times per year.
- For outdoor ornamentals grown for cut flowers, DO NOT apply more than 4.48 kilograms product per hectare per year (2.24 kg ai/ha/year). DO NOT apply more than 4 times per year.
- For greenhouse ornamentals not grown for cut flowers, DO NOT apply more than 6.8 kilograms product per hectare per crop (3.4 kg ai/ha/crop cycle). DO NOT apply more than 6 times per crop cycle.
- For greenhouse ornamentals grown for cut-flowers, DO NOT apply more than 1.12 kg product per hectare per crop (560 g ai/ha/crop cycle). DO NOT make more than 1 application per crop cycle.”

2. Label amendments relating to the environmental risk assessment

- a) The following statements are to be added to the “**ENVIRONMENTAL PRECAUTIONS**” section:
- Toxic to aquatic organisms. Observe buffer zones specified under **DIRECTIONS FOR USE**.
 - Toxic to small wild mammals.
- b) The following statements are required under the “**DIRECTIONS FOR USE**” Section on all product labels:
- To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.
 - Avoid application of this product when heavy rain is forecast.
 - Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.
 - **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
 - As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.
 - **Field sprayer application: DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.
 - **Air blast application: DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.
 - **DO NOT** apply by air.

- **Buffer zones:**

- Spot treatments using handheld equipment **DO NOT** require a buffer zone.
- The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:	
			Freshwater Habitat of Depths:	
			Less than 1 m	Greater than 1 m
Field sprayer	Outdoor ornamentals		2	1
Air blast	Outdoor ornamentals	Early growth stage	20	1
		Late growth stage	10	1

- For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.
 - The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.
- c) The following statement is required for greenhouse uses
- DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters
- d) The following statement is required under the STORAGE heading
- To prevent contamination, store this product away from food and feed
- e) The following statements are required under the DISPOSAL heading, inclusion of these statements is dependant on the end-use product.
- The following statements should be used for commercial and restricted class products other than agriculture and non-crop land, where non-recyclable, non-returnable or non-refillable containers are used:
 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

- **For recyclable containers**

The following statement would apply to plastic or metal containers that contain agricultural and non-crop land uses (for example, forestry) pesticide products, and that are designed to contain 23 L or less of product.

Disposal of Container:

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

- **For returnable containers**

Disposal of Container:

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

- **For containers that can be refilled for the user by the distributor/dealer**

Disposal of Container:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

- **Disposal of unused, unwanted product**

A revised standard label statement providing directions for the disposal of unused, unwanted product will be added to labels of agricultural and non-crop land control products:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

3. Label amendments relating to the value assessment

- On page 4, under the **“RESISTANCE MANAGEMENT RECOMMENDATIONS”** section, 1st bullet:
Replace:
 “Avoid application of more than 2 consecutive sprays of DECREE 50 WDG Fungicide or other fungicides in the same group in a season.”
With:
 “Avoid application of more than 2 consecutive sprays of DECREE 50 WDG Fungicide or other Group 17 fungicides in a season.”
- On page 5, under the **“APPLICATION”** section, last paragraph, **replace** the entire paragraph **with** the following:

“Avoid making more than two (2) consecutive applications of this product. After the second application, alternate with a non-Group 17 Fungicide for two consecutive applications before reapplying the active ingredient in this product. Consult your local Horticultural Advisor for the most appropriate alternative products.
- Page 5, under the **“FIELD TOMATO TRANSPLANTS...”** section, **replace** the entire paragraph **with** the following text:

“FIELD TOMATO TRANSPLANTS GROWN IN GREENHOUSE

Begin applications when greenhouse conditions favour disease development. For the control of *Botrytis cinerea* (Gray mold) on field tomato transplants grown in greenhouse, apply 1.5 kg product per hectare (0.75 kg ai/ha) as a foliar spray. Make a second application 7-10 days later if conditions continue to favour disease development.

Do not make more than 2 applications per crop cycle. Do not exceed a total 3.0 kg/ha per crop cycle. Applications can be made up to transplanting, but not less than sixty days prior to harvest (PHI = 60 days)."

- d) Page 5, under the **"GREENHOUSE CUCUMBER"** section, **replace** the entire paragraph **with** the following text:

"GREENHOUSE CUCUMBER

For the control of *Botrytis cinerea* (Gray mold) on greenhouse cucumber, apply 1.5 kg product per hectare (0.75 kg ai/ha) as a foliar spray. Apply in a spray volume of approximately 500 L (small plants) to 1500L (large/mature plants) per hectare. Begin application when greenhouse conditions favour disease development. Repeat after 7 days if conditions continue to favour disease. Do not make more than 2 applications per crop cycle (Maximum of 3.0 kg of DECREE per ha/crop cycle). Applications can be made up to 1 day prior to harvest (PHI = 1 day). The application rate should be based on 1.5 kg product per hectare applied in the appropriate volume of carrier to achieve thorough coverage of all plant surfaces. For example, if you apply 1000 litres of water per hectare, thoroughly mix 1.5 kg of product in 1000 litres of water and apply for coverage of all above-ground plant surfaces. Use care in mixing and application to avoid exceeding rates of 1.5 kg product per hectare regardless of the selected spray volume."

- e) Pages 5-6, under the **"GREENHOUSE LETTUCE"** section, **replace** the entire paragraph **with** the following text:

"GREENHOUSE LETTUCE

For the control of *Botrytis cinerea* (Gray mold) on greenhouse lettuce, apply 1.5 kg product per hectare (0.75 kg ai/ha) as a foliar spray in a recommended spray volume of 500-1500 L/ha. Begin application when greenhouse conditions favour disease development.

Repeat after 7 days if conditions continue to favour disease. Do not make more than 2 applications per crop cycle (Maximum of 3.0 kg of DECREE per ha/crop cycle). Applications can be made up to three days prior to harvest (PHI = 3 days)."

- f) Page 6, under the **"GREENHOUSE TOMATOES"** section, **replace** the entire paragraph **with** the following text:

"GREENHOUSE TOMATOES

Begin applications when greenhouse conditions favour disease development. For the control of *Botrytis cinerea* (Gray Mold) on greenhouse tomatoes, apply 1.5 kg product per hectare (0.75 kg ai/ha) as a foliar spray in a recommended spray volume of 500-1500 L/ha. Make a second application 7-10 days later if conditions continue to favour disease. Do not make more than 2 applications per crop cycle. (Maximum of 3.0 kg of DECREE per ha/crop cycle). Applications can be made up to one day prior to harvest (PHI= 1 day). **TREATED GREENHOUSE TOMATOES CANNOT BE USED FOR PROCESSING."**

- g) Page 6, under the **"GREENHOUSE PEPPERS"** section, **replace** the entire paragraph **with** the following text:

“GREENHOUSE PEPPERS

Begin applications when greenhouse conditions favour disease development. For the control of *Botrytis cinerea* (Gray Mold) on greenhouse peppers, apply 1.5 kg product per hectare (0.75 kg ai/ha) as a foliar spray in a recommended spray volume of 500-1500 L/ha. Make a second application 7-10 days later if conditions continue to favour disease. Do not make more than 2 applications per crop cycle. (Maximum of 3.0 kg of DECREE per ha/crop cycle). Applications can be made up to one day prior to harvest (PHI= 1 day).”

- h) Page 6, under the **“GREENHOUSE EGGPLANT”** section, add the following text:

“GREENHOUSE EGGPLANT

Begin applications when greenhouse conditions favour disease development.”

- i) Page 7, under the **“ORNAMENTALS - OUTDOOR-GROWN AND GREENHOUSE-GROWN”** section, second paragraph, **replace** the entire paragraph **with** the following text:

“For control of *Botrytis cinerea* (Gray mold) on ornamentals, apply 1.12 kg product per hectare (0.56 kg ai/hectare). Begin applications when conditions favour disease development but prior to the establishment of disease. Excluding greenhouse grown ornamentals for cut flowers, applications should be made on a 7 to 14-day interval when new terminal growth is present using equipment capable of achieving thorough coverage. When conditions favour severe disease development, apply on a 7-day interval.”