

# **Silverbeet Spinach**

## **Agrichemical Regulatory Risk Assessment**

**May 2026**

Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use. For older agrichemicals, these pressures are often the result of reconsiderations involving new or refined risk assessment methodologies that require the generation of new data. A consequence of which can be that many of these agrichemicals are not meeting contemporary risk assessment standards as the necessary data is unavailable, or where data is available, the risk posed is considered unacceptable.

The use of agrichemicals can also be impacted through differences in standards between trading partners. The lack of an appropriate pesticide maximum residue limit (MRL) in an importing country can, for practical purposes, effectively prohibit use in the exporting country to ensure compliance, as MRL breach would adversely affect market access. This report provides details of CODEX MRLs as a means of highlighting risks for countries that rely on CODEX, however does not include every instance of where an importing country specific MRL is less than the relevant Australian MRL. The Australian Department of Agriculture Fisheries and Forestry provides information directly to grower bodies when MRLs change in other countries.

The effects of the above are greater regulatory pressure placed on the use of individual agrichemicals or chemical groups. Consequently, the number of approved agrichemical options could be adversely impacted.

To assist strategic planning, with respect to future pest management options, the following tables have been developed to highlight the regulatory threats to agrichemicals currently approved for the management of the pests and diseases in Silverbeet Spinach in Australia, as well as assisting with any current initiatives aimed at identifying and addressing pest management deficiencies.

R0	Use no longer approved
R1	Short-term: Critical concern over retaining access < 1 year
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R4	No current risk/concerns

## INSECTICIDES/MITICIDES/NEMATOCIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
ABAMECTIN	6	Western flower thrips. PER96481 for the control of leaf miner.	Australia: <a href="#">APVMA nominated for reconsideration and spray drift assessment.</a> Permit PER96481 Expiry date: 31/07/2028 Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025)
AFIDOPYROPEN	9D	Cabbage aphid Cotton aphid Currant lettuce aphid Green peach aphid Silverleaf (Poinsettia) whitefly	Australia: No current concerns. EU: Not approved
ALPHA-CYPERMETHRIN	3A	Plague thrips Redlegged earth mite Vegetable weevil	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> EU: Not approved
BACILLUS THURINGIENSIS	11A	Helicoverpa	Australia: No current concerns.
CHLORANTRANILIPROLE	28	Helicoverpa Lucerne leafroller Cluster caterpillar Looper caterpillars Permit PER87631 for the control of Cabbage leaf miner	Australia: No current concerns. Permit PER87631 Expiry date: 31/03/2029 Codex MRL: 20 mg/Kg Canada: In re-evaluation
CHLORANTRANILIPROLE   THIAMETHOXAM	28 + 4A	Helicoverpa Cluster Caterpillar Looper Lettuce Aphid Green Peach Aphid Brown Sowthistle Aphid Silverleaf Whitefly Western Flower Thrips Vegetable Leafhopper Lucerne Leafroller Permit PER94452 for the control of Leaf miners	<b>CHLORANTRANILIPROLE</b> Australia: No current concerns. Permit PER87631 Expiry date: 31/03/2029 Codex MRL: 20 mg/Kg Canada: In re-evaluation  <b>THIAMETHOXAM</b> Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Codex MRL: 3 mg/Kg EU: Not approved Canada: In re-evaluation

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CHLOROPICRIN   1,3-DICHLOROPROPENE	8B + 8A	Soil born diseases	<p><b>CHLOROPICRIN</b> Australia: No current concerns. EU: Not approved</p> <p><b>1,3-DICHLOROPROPENE</b> Australia: No current concerns. EU: Pending Canada: Cancelled</p>
CHLORPYRIFOS	1B	--	<p>Australia: <a href="#">The chemical review was completed in September 2024</a>. Most uses in horticultural crops were removed. After 30 September 2025, products with previously approved labels must not be supplied. The only remaining approved use is in Brassica crops as specified on current labels. EU: Not approved Canada: Cancelled</p>
CYROMAZINE	17	Permit PER81867 for the control of Leaf miner	<p>Australia: No current concerns. EU: Not approved</p>
DIAZINON	1B	--	<p>Australia: <a href="#">APVMA made a Final Decision on 2024</a>. After 10 September 2025, crop uses are no longer approved. . Codex: All MRLs deleted EU: Not approved Canada: Cancelled</p>
DIMPROPYRIDAZ	36	Cabbage aphid Green peach aphid	<p>Australia: No current concerns. EU: Pending</p>
EMAMECTIN	6	Cabbage white butterfly Cluster caterpillar Diamondback (Cabbage) moth Helicoverpa Looper caterpillars	<p>Australia: <a href="#">Nominated for targeted spray drift reconsideration</a> EU: Approved, candidate for substitution</p>
FIPRONIL	2B	European Wasp	<p>Australia: APVMA: Proposed Regulatory decision was expected by April 2026. APVMA is now advising the by end of 2026 at the earliest. Permit PER89402 Expiry date: 30/04/2027</p>
FLUBENDIAMIDE	28	Helicoverpa	<p>Australia: No current concerns. EU: Not approved</p>
IMIDACLOPRID	4A	Permit PER10918 for the control of Greenhouse whitefly and aphids	<p>Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Permit PER10918 Expiry date: 31/10/2026 EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment.</p>
INDOXACARB	22A	Helicoverpa	<p>Australia: No current concerns. EU: Not approved</p>
IRON EDTA COMPLEX	--	Snails and slugs	<p>Australia: No current concerns</p>

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ISOCYCLOSERAM	30	Permit PER94854 for the control of Serpentine leaf miner	Australia: No current concerns. Permit PER94854 Expiry date: 30/09/2028 Permit PER94552 Expiry date: 30/11/2027
METALDEHYDE	--	Snails and slugs	Australia: No current concerns
METHOMYL	1A	Permit PER82428 for the control of Helicoverpa spp. Cucumber moth Cluster caterpillar Loopers Webworm Rutherglen bug Thrips including Western Flower Thrip	Australia: APVMA reconsideration. Was to start 2026. APVMA to publish a new Chemical Review priority list by mid 2026. Permit PER82428 Expiry date: 31/01/2029 EU: Not approved Canada: In re-evaluation
NUCLEAR POLYHEDROSIS VIRUS OF HELICOVERPA ARMIGERA	--	Helicoverpa	Australia: No current concerns.
NUCLEAR POLYHEDROSIS VIRUS OF HELICOVERPA ZEA	--	Helicoverpa	Australia: No current concerns.
PETROLEUM OIL	UN	Permit PER12221 for the control of Aphids Green mirid Green vegetable bug Grey cluster bug Leafhoppers Mites Rutherglen bug Thrips	Australia: No current concerns. Permit PER12221 Expiry date: 30/09/2027 EU: Not approved
PIRIMICARB	1A	Aphids	Australia: No current concerns. EU: Approved, candidate for substitution Canada: Cancelled
PYMETROZINE	9B	Cotton aphid Green peach aphid: continued Potato aphid	Australia: <a href="#">APVMA nominated for reconsideration and spray drift assessment.</a> EU: Not approved Canada: Cancelled
PYRETHRINS	3A	Ants Caterpillars Diamondback (Cabbage) moth Earwig Flies Leafhoppers Rutherglen bug Thrips Two-spotted (Red spider) mite Whitefly	Australia: No current concerns.

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SPINETORAM	5	Cabbage white butterfly Caterpillars Helicoverpa Looper caterpillars Western flower thrips Permit PER13322 for the control of Potato Moth Permit PER94451 for the control of Leaf miners	Australia: No current concerns. Permit PER94451 Expiry date: 31/07/2027 Permit PER13322 Expiry date: 31/03/2027 Codex MRL: 8 mg/Kg EU: Not approved Canada: In re-evaluation
SPINOSAD	5	Helicoverpa Looper caterpillars Western flower thrips	Australia: No current concerns. Permit PER89870 Expiry date: 31/10/2030 Permit PER96806 Expiry date: 30/05/2031 Codex MRL: 10 mg/Kg Canada: In re-evaluation
SPIROTETRAMAT	23	Green peach aphid	Australia: No current concerns. Codex MRL: 7 mg/Kg EU: Not approved Canada: In re-evaluation
SPODOPTERA FRUGIPERDA NPV	--	Permit PER90820 for the control of Fall Armyworm	Australia: No current concerns Permit PER90820 Expiry date: 31/03/2027
SULFOXAFLOX	4C	Brown sowthistle aphid Green peach aphid Greenhouse whitefly	Australia: No current concerns. Codex MRL: 6 mg/Kg
TRICHLORFON	1B	Cabbage White Butterfly Cabbage Moth Green Vegetable Bug Rutherglen Bug	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> EU: Not approved Canada: Cancelled

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## FUNGICIDES – Disease Control

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
<b>AZOXYSTROBIN   OXATHIPIPROLIN</b>	11 + 49	Alternaria leaf spots Downy mildew Sclerotinia rot	<b>AZOXYSTROBIN</b> Australia: No current concerns. UK: Withdrawn (2029). Canada: In re-evaluation  <b>OXATHIPIPROLIN</b> Australia: No current concerns. Codex MRL: 15 mg/Kg
<b>BOSCALID</b>	7	Sclerotinia rot	Australia: No current concerns. Codex MRL: 40 mg/Kg Canada: In re-evaluation
<b>CHLOROTHALONIL</b>	M5	Permit PER82895 for the control of: Downy mildew Alternaria Leaf Blight Grey Mould	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2028.</a> Permit PER82895 Expiry date: 31/05/2030 Codex MRL: 50 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
<b>COPPER</b>	M1	Downy mildew Leaf diseases/spot Powdery mildew Rust Target spot (Early blight)	Australia: No current concerns.
<b>CYAZOFAMID</b>	21	Damping off: Pythium	Australia: No current concerns. Codex MRL: 10 mg/Kg Canada: In re-evaluation
<b>DIFENOCONAZOLE</b>	3	Permit PER87973 for the control of Powdery mildew	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Permit PER87973 Expiry date: 30/06/2030 EU: Approved, candidate for substitution Canada: In re-evaluation

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<b>DIMETHOMORPH</b>	40	Permit PER14958 for the control of Downy mildew	Australia: No current concerns. Permit PER14958 Expiry date: 31/10/2027 Codex MRL: 30 mg/Kg EU: Not approved Canada: In re-evaluation
<b>DIMETHOMORPH   AMETOCTRADIN</b>	40 + 45	Downy mildew	<b>DIMETHOMORPH</b> Australia: No current concerns. Permit PER14958 Expiry date: 31/10/2027 Codex MRL: 30 mg/Kg EU: Not approved Canada: In re-evaluation  <b>AMETOCTRADIN</b> Australia: No current concerns Codex MRL: 50 mg/Kg UK: Withdrawn (2031).
<b>FAMOXADONE   OXATHIPIPROLIN</b>	49	Downy mildew	<b>FAMOXADONE</b> Australia: No current concerns.  <b>OXATHIPIPROLIN</b> Australia: No current concerns. Codex MRL: 15 mg/Kg
<b>FLUDIOXONIL   CYPRODINIL</b>	12 + 9	Sclerotinia rot	<b>FLUDIOXONIL</b> Australia: No current concerns. Codex MRL: 30 mg/Kg EU: Approved, candidate for substitution  <b>CYPRODINIL</b> Australia: No current concerns. Codex MRL: 50 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation
<b>FLUDIOXONIL   METALAXYL-M</b>	12 + 4	Damping off: Rhizoctonia/Phytophthora	<b>FLUDIOXONIL</b> Australia: No current concerns. Codex MRL: 30 mg/Kg EU: Approved, candidate for substitution  <b>METALAXYL-M</b> Australia: No current concerns.

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<b>IPRODIONE</b>	2	Permit PER84955 for the control of Sclerotinia and Grey mould	Australia: No current concerns. Permit PER84955 Expiry date: 30/11/2027 EU: Not approved USA: Under Registration Review (scheduled)
<b>MANCOZEB</b>	M3	Cercospora leaf spot Downy mildew Permit PER14958 for the control of Downy mildew	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> Permit PER14958 Expiry date: 31/10/2027 EU: Not approved USA: Under Registration Review (scheduled)
<b>MANCOZEB   METALAXYL-M</b>	M3 + 4	Permit PER13673 for the control of Downy mildew	<b>MANCOZEB</b> Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER14958 Expiry date: 31/10/2027 EU: Not approved USA: Under Registration Review (scheduled)  <b>METALAXYL-M</b> Australia: No current concerns.
<b>MANDIPROPAMID</b>	40	Downy mildew	Australia: No current concerns. Codex MRL: 25 mg/Kg Canada: In re-evaluation
<b>OXATHIPIPROLIN</b>	49	Downy mildew	Australia: No current concerns. Codex MRL: 15 mg/Kg
<b>PENTHIOPYRAD</b>	7	Botrytis grey mould Powdery mildew Sclerotinia rot	Australia: No current concerns. Codex MRL: 30 mg/Kg EU: Not approved
<b>PHOSPHOROUS (PHOSPHONIC) ACID</b>	P07 (33)	Permit PER11951 for the control of Downy mildew	Australia: No current concerns. Permit PER11951 Expiry date: 28/02/2030
<b>POTASSIUM BICARBONATE</b>	M2	Permit PER13695 for the control of Powdery mildew	Australia: No current concerns. Permit PER13695 Expiry date: 30/06/2030 Canada: In re-evaluation
<b>PROPAMOCARB HYDROCHLORIDE   FLUOPICOLIDE</b>	43	Downy mildew	<b>PROPAMOCARB HYDROCHLORIDE</b> Australia: No current concerns.  <b>FLUOPICOLIDE</b> Australia: No current concerns Codex MRL: 30 mg/Kg EU: Approved, candidate for substitution

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PROPICONAZOLE	3	Permit PER14479 for the control of Leaf spot	Australia: <a href="#">APVMA nominated for reconsideration and spray drift assessment.</a> Permit PER14479 Expiry date: 31/08/2029 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
PYDIFLUMETOFEN   FLUDIOXONIL	7 + 12	Botrytis Sclerotinia	<b>PYDIFLUMETOFEN</b> Australia: No current concerns. EU: Pending Canada: In re-evaluation <b>FLUDIOXONIL</b> Australia: No current concerns. Codex MRL: 30 mg/Kg EU: Approved, candidate for substitution
QUINOXYFEN	13	Powdery mildew	Australia: No current concerns. EU: Not approved Canada: Cancelled
SULPHUR	M2	Downy mildew Leaf diseases/spot Rust Powdery mildew	Australia: No current concerns. Canada: In re-evaluation
TEBUCONAZOLE	3	Sclerotinia rot	Australia: APVMA: Removed from nomination list - maintain watching brief EU: Approved, candidate for substitution Canada: In re-evaluation USA: Under Registration Review (scheduled)
THIRAM	M3	Pythium spp, Rhizoctonia solani, Fusarium spp., Sclerotium rolfsi	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> Permit PER97200 Expiry date: 31/03/2027
TRIFLOXYSTROBIN	11	Permit PER14494 for the control of Powdery mildew	Australia: No current concerns. Permit PER14494 Expiry date: 31/08/2027 Codex MRL: 20 mg/Kg Canada: In re-evaluation
ZINEB	M3	Permit PER14839 for the control of Anthracnose	Australia: APVMA reconsideration. <a href="#">Prioritised to be commenced by 2027.</a> Permit PER14839 Expiry date: 31/07/2029 EU: Not approved Canada: Cancelled

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## HERBICIDES – Weed Control

*Blue text = new APVMA approved uses*

Active Constituent	MoA Group	Risks and Comments
CHLORIDAZON	5	Australia: No current concerns. Permit PER92508 Expiry date: 30/06/2026
CLETHODIM	1	Australia: No current concerns. Permit PER82459 Expiry date: 30/09/2026
DIQUAT	22	Australia: APVMA: <a href="#">Currently under review</a> . Publication of the final regulatory decision is now expected in Mid 2026. EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.
ETHOFUMESATE	15	Australia: No current concerns. Permit PER14703 Expiry date: 31/05/2029 Canada: In re-evaluation
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: <a href="#">Nominated for targeted spray drift reconsideration</a> Permit PER81244 Expiry date: 30/04/2027 Canada: Cancelled
METOLACHLOR	15	Australia: No current concerns. EU: Not approved Canada: Cancelled
PARAQUAT	22	Australia: APVMA: <a href="#">Currently under review</a> . Publication of the final regulatory decision is now expected in Mid 2026. Candidate chemical recommended to be listed to Rotterdam Convention. EU: Not approved Canada: Cancelled USA: Restricted use
PHENMEDIPHAM	5	Australia: No current concerns. Permit PER81241 Expiry date: 31/03/2028
PROPACHLOR	15	Australia: No current concerns. Permit PER12008 Expiry date: 31/08/2028 EU: Not approved
S-METOLACHLOR	15	Australia: No current concerns. EU: Not approved

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**FUMIGANTS**

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Active Constituent	Use	Risks and Comments
<b>1,3-DICHLOROPROPENE</b>	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	Australia: No current concerns. EU: Pending Canada: Cancelled
<b>CHLOROPICRIN</b>	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	Australia: No current concerns. EU: Not approved USA: Restricted use
<b>CHLOROPICRIN + 1,3-DICHLOROPROPENE</b>	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	<b>CHLOROPICRIN</b> Australia: No current concerns. EU: Not approved USA: Restricted use <b>1,3-DICHLOROPROPENE</b> Australia: No current concerns. EU: Pending Canada: Cancelled
<b>ETHANEDINITRILE</b>	Soil borne pathogens, nematodes and weeds	Australia: No current concerns.
<b>METHAM PRESENT AS SODIUM SALT</b>	Germinating weeds and soil-borne fungus diseases	Australia: No current concerns.
<b>METHYL BROMIDE</b>	Fumigation of various fruits and vegetables	Australia: <a href="#">APVMA nominated for reconsideration after 2029.</a> Permit PER96144 Expiry date: 31/01/2031 EU: Not approved Canada: Remaining pre-plant soil fumigation uses were cancelled (June 2025) USA: Restricted use

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