

#### November 2025

Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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.

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 and Spinach crops** 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
R2	Medium-term: Maintaining access of significant concern <2-5 years
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years
DΛ	No current risk/concerns

#### **INSECTICIDES/MITICIDES/NEMATICIDES** - 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: APVMA nominated for reconsideration and spray drift assessment.  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: APVMA nominated for reconsideration after 2029. Codex MRL: 0.7 mg/Kg EU: Not approved
Bacillus thuringiensis	11A	Helicoverpa Armyworm Cotton bollworm Native budworm Cabbage moth Cabbage white butterfly Loopers Lightbrown apple moth Vine moth	Australia: No current concerns. USA: Under Registration Review (scheduled)

R0	Use no longer approved		
R1 Short-term: Critical concern over retaining access < 1 year			
R2 Medium-term: Maintaining access of significant concern <2-5 years  R3 Long-term: Potential issues associated with use – Monitoring required < 5			
		R4	No current risk/concerns

Active Constituent	MoA Group	Pest	Risks and Comments
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 I THIAMETHOXAM	28 + 1B	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	CHLORANTRANILIPROLE Australia: No current concerns. Permit PER87631 Expiry date: 31/03/2029 Codex MRL: 20 mg/Kg Canada: In re-evaluation  THIAMETHOXAM APVMA: Currently under review. Proposed regulatory decisions expected between December 2025 to October 2026. EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)
CHLORPYRIFOS	1B		Australia: The chemical review was completed in September 2024. 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  USA: Agricultural uses cancelled. Very few registrations as Restricted Use Pesticide.
CYROMAZINE	17	Permit PER81867 for the control of Leaf miner	Australia: No current concerns. Permit PER81867 Expiry date: 30/09/2026 EU: Not approved

R0	Use no longer approved		
R1	Short-term: Critical concern over retaining access < 1 year		
R2	Medium-term: Maintaining access of significant concern <2-5 years		
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years		
R4	No current risk/concerns		

Active Constituent	MoA Group	Pest	Risks and Comments
DIAZINON	1B		Australia: APVMA made a Final Decision on 2024. After 10 September 2025, crop uses are no longer approved. Codex: All MRLs deleted EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)
DIMPROPYRIDAZ	36	Cabbage aphid Green peach aphid	Australia: No current concerns. EU: Pending
EMAMECTIN	6	Cabbage white butterfly Cluster caterpillar Diamondback (Cabbage) moth Helicoverpa Looper caterpillars	Australia: APVMA Nominated for targeted spray drift reconsideration Codex MRL: 0.05 mg/Kg EU: Approved, candidate for substitution. UK: Withdrawn (2024).
FLUBENDIAMIDE	28	Helicoverpa	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024).
HELICOVERPA ARMIGERA NPV	31	Helicoverpa	Australia: No current concerns.
IMIDACLOPRID	4A	Permit PER10918 for the control of Greenhouse whitefly and aphids	Australia: APVMA: Currently under review. Proposed regulatory decisions expected between December2025 to October2026. Permit PER10918 Expiry date: 31/10/2026 EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment. USA: Under Registration Review (scheduled)
INDOXACARB	22A	Helicoverpa	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024).
ISOCYCLOSERAM	30	Permit PER94854 for the control of Serpentine leaf miner	Australia: No current concerns. Permit PER94854 Expiry date: 30/09/2028

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R3	Long-term: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk/concerns

Active Constituent	MoA Group	Pest	Risks and Comments
METHOMYL	1A	Permit PER82428 for the control of: Helicoverpa Cucumber moth Cluster caterpillar Loopers Webworm Rutherglen bug Thrips including WFT	Australia: APVMA reconsideration. Prioritised to be commenced by 2026.  Permit PER82428 Expiry date: 31/01/2029  EU: Not approved  Canada: In re-evaluation  USA: Under Registration Review (scheduled)
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: APVMA nominated for reconsideration and spray drift assessment.  EU: Not approved Canada: Cancelled

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R3	Long-term: Potential issues associated with use – Monitoring required < 5 years		
R4	No current risk/concerns		

Active Constituent	MoA Group	Pest	Risks and Comments
PYRETHRINS	3A	Ants Caterpillars Diamondback (Cabbage) moth Earwig Flies Leafhoppers Rutherglen bug Thrips Two-spotted (Red spider) mite Whitefly	Australia: No current concerns.
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 UK: Withdrawn (2024). Canada: In re-evaluation
SPINOSAD	5	Helicoverpa Looper caterpillars Western flower thrips  Permit PER89870 for the control of Fall Armyworm  Permit PER94331 for the control of Dipteran leaf miners	Australia: No current concerns. Permit PER94331 Expiry date: 30/04/2026 Permit PER89870 Expiry date: 31/10/2030 Codex MRL: 10 mg/kg Canada: In re-evaluation

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R1	Short-term: Critical concern over retaining access < 1 year		
R2	Medium-term: Maintaining access of significant concern <2-5 years		
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years		
R4	No current risk/concerns		

Active Constituent	MoA Group	Pest	Risks and Comments
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
SULFOXAFLOR	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: APVMA nominated for reconsideration after 2029.  EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)

#### **FUNGICIDES** – Disease Control

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

R0	Use no longer approved
R1	Short-term: Critical concern over retaining access < 1 year
R2	Medium-term: Maintaining access of significant concern <2-5 years
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk/concerns

Active Constituent	MoA Group	Pest	Risks and Comments
DIMETHOMORPH	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
DIMETHOMORPH   AMETOCTRADIN	40 + 45	Downy mildew	DIMETHOMORPH Australia: No current concerns. Permit PER14958 Expiry date: 31/10/2027 Codex MRL: 30 mg/Kg EU: Not approved Canada: In re-evaluation  AMETOCTRADIN Australia: APVMA nominated for reconsideration and spray drift assessment. Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025)
FAMOXADONE   OXATHIAPIPROLIN	11 + 49	Downy mildew	FAMOXADONE Australia: No current concerns. EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation  OXATHIAPIPROLIN Australia: No current concerns. Codex MRL: 15 mg/Kg

R0	Use no longer approved
R1	Short-term: Critical concern over retaining access < 1 year
R2	Medium-term: Maintaining access of significant concern <2-5 years
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk/concerns

Active Constituent	MoA Group	Pest	Risks and Comments
FLUDIOXONIL   CYPRODINIL	12 + 9	Sclerotinia rot	FLUDIOXONIL Australia: No current concerns. Codex MRL: 30 mg/Kg EU: Approved, candidate for substitution.  CYPRODINIL Australia: No current concerns. Codex MRL: 50 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation
FLUDIOXONIL   METALAXYL-M	12 + 4	Damping off: Rhizoctonia/Phytophthora	FLUDIOXONIL Australia: No current concerns. Codex MRL: 30 mg/Kg EU: Approved, candidate for substitution.  METALAXYL-M Australia: No current concerns.
IPRODIONE	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)
MANCOZEB	M3	Cercospora leaf spot Downy mildew  Permit PER14958 for the control of Downy mildew	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER14958 Expiry date: 31/10/2027 EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)

R0	Use no longer approved
R1	Short-term: Critical concern over retaining access < 1 year
R2	Medium-term: Maintaining access of significant concern <2-5 years
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk/concerns

Active Constituent	MoA Group	Pest	Risks and Comments
MANCOZEB I METALAXYL-M	M3 + 4	Permit PER13673 for the control of Downy mildew	MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. Permit PER13673 Expiry date: 31/07/2026 EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)  METALAXYL-M Australia: No current concerns.
MANDIPROPAMID	40	Downy mildew	Australia: No current concerns. Codex MRL: 25 mg/Kg Canada: In re-evaluation
OXATHIAPIPROLIN	49	Downy mildew	Australia: No current concerns. Codex MRL: 15 mg/Kg
PENTHIOPYRAD	7	Botrytis grey mould Powdery mildew Sclerotinia rot	Australia: No current concerns. Codex MRL: 30 mg/Kg
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Permit PER11951 for the control of Downy mildew	Australia: No current concerns. Permit PER11951 Expiry date: 28/02/2030
POTASSIUM BICARBONATE	M2	Permit PER13695 for the control of Powdery mildew	Australia: No current concerns. Permit PER13695 Expiry date: 30/06/2030 Canada: In re-evaluation

R0	Use no longer approved
R1	Short-term: Critical concern over retaining access < 1 year
R2	Medium-term: Maintaining access of significant concern <2-5 years
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk/concerns

Active Constituent	MoA Group	Pest	Risks and Comments
PROPAMOCARB HYDROCHLORIDE   FLUOPICOLIDE	28 + 43	Downy mildew	PROPAMOCARB HYDROCHLORIDE Australia: No current concerns. Codex MRL: 40 mg/Kg  FLUOPICOLIDE Australia: No current concerns Codex MRL: 30 mg/Kg EU: Approved, candidate for substitution.
PROPICONAZOLE	3	Permit PER14479 for the control of leaf spot	Australia: APVMA nominated for reconsideration and spray drift assessment. 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	PYDIFLUMETOFEN Australia: No current concerns. EU: Pending Canada: In re-evaluation  FLUDIOXONIL 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

R0	Use no longer approved
R1	Short-term: Critical concern over retaining access < 1 year
R2	Medium-term: Maintaining access of significant concern <2-5 years
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk/concerns

Active Constituent	MoA Group	Pest	Risks and Comments
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)
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. Prioritised to be commenced by 2027. Permit PER14839 Expiry date: 31/07/2029 EU: Not approved Canada: Cancelled

#### **HERBICIDES** – Weed Control

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: <u>Currently under review.</u> Publication of the final regulatory decision <b>is now expected in Mid 2026</b> . 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

R0	Use no longer approved		
R1	Short-term: Critical concern over retaining access < 1 year		
R2	Medium-term: Maintaining access of significant concern <2-5 years		
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years		
R4	No current risk/concerns		

Active Constituent	MoA Group	Risks and Comments	
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: APVMA Nominated for targeted spray drift reconsideration Permit PER81244 Expiry date: 30/04/2027 Canada: Cancelled	
METOLACHLOR	15	Australia: No current concerns. EU: Not approved Canada: Cancelled	
PARAQUAT	22	Australia: APVMA: <u>Currently under review</u> . Publication of the final regulatory decision <b>is now expected in Mid 2026</b> . Candidate chemical recommended to be listed to Rotterdam Convention.  EU: Not approved  Canada: Cancelled  USA: Restricted use	
		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		Permit PER12008 Expiry date: 31/08/2028	
S-METOLACHLOR	15	Australia: No current concerns. EU: Not approved	

R0	Use no longer approved
R1	Short-term: Critical concern over retaining access < 1 year
R2	Medium-term: Maintaining access of significant concern <2-5 years
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk/concerns

#### **FUMIGANTS** – Mixed Function

Active Constituent	Use	Risks and Comments
CHLOROPICRIN + 1,3- DICHLOROPROPENE	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	CHLOROPICRIN Australia: No current concerns. EU: Not approved USA: Restricted use  1,3-DICHLOROPROPENE Australia: No current concerns. EU: Pending Canada: Cancelled
DAZOMET	Control of bacterial spot ( <i>Xanthomonas</i> spp.) (suppression only). Soil insects and nematodes	Australia: No current concerns. USA: Under Registration Review (scheduled)
ETHANEDINITRILE	Soil borne pathogens, nematodes and weeds	Australia: No current concerns.
METHAM PRESENT AS SODIUM SALT	Germinating weeds and soil-borne fungus diseases	Australia: No current concerns.

R0	Use no longer approved
R1	Short-term: Critical concern over retaining access < 1 year
R2	Medium-term: Maintaining access of significant concern <2-5 years
R3	Long-term: Potential issues associated with use – Monitoring required < 5 years
R4	No current risk/concerns

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