

Leafy lettuce

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 Leafy lettuce 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
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	Two-spotted (Red spider) mite Western flower thrips	Australia: APVMA nominated for reconsideration and spray drift assessment . Permit PER10918 Expiry date: 31/10/2026 + Permit PER12351 Expiry date: 30/04/2026 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 whiteflies	Australia: No current concerns. EU: Not approved
ALPHA-CYPERMETHRIN	3A	Helicoverpa Permit PER13301 for the control of Redlegged earth mite and Vegetable weevil.	Australia: APVMA nominated for reconsideration after 2029 . EU: Not approved
BACILLUS THURINGIENSIS	11A	Helicoverpa Armyworm Diamondback (Cabbage) moth Loopers Soybean looper Permit PER14694 for the control of Fungus Gnats (Sciaridae spp.)	Australia: No current concerns.
BIFENAZATE	20D	Permit PER14210 for the control of Two-Spotted Mite	Australia: No current concerns. Permit PER14694 Expiry date: 31/03/2029 UK: Withdrawn (2029). Canada: In re-evaluation
BUPROFEZIN	16	Permit PER82467 for the control of Jassids, leafhoppers, Greenhouse whitefly	Australia: No current concerns. Permit PER14210 Expiry date: 31/10/2026
CANOLA OIL	--	Aphid, cabbage moth, cabbage white butterfly, caterpillar, earwig, fly, leafhopper, mealy bug, scale, sooty mould, thrip, two spotted mite, whitefly	Australia: No current concerns. Permit per82467 Expiry date: 31/03/2030

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CANOLA OIL PYRETHRINS	3A	Aphids, thrips, caterpillars, whitefly, ants, flies, earwigs, leafhopper, two-spotted mite, scale, mealybug, sooty mould	<p>CANOLA OIL Australia: No current concerns. Permit per82467 Expiry date: 31/03/2030</p> <p>PYRETHRINS Australia: No current concerns. Permit PER89870 Expiry date: 31/10/2030</p>
CARBARYL	1A	Vegetable weevil	<p>Australia: Codex - being considered for periodic review EU: Not approved Canada: In re-evaluation</p>
CHLORANTRANILIPROLE	28	Helicoverpa spp.	<p>Australia: No current concerns. Codex MRL: 20 mg/Kg Canada: In re-evaluation</p>
CHLORANTRANILIPROLE THIAMETHOXAM	28 + 4A	Brown sowthistle aphid Cluster caterpillar Currant lettuce aphid Green peach aphid Helicoverpa Loopers Lucerne leafroller Silverleaf whiteflies Vegetable leafhopper Western flower thrips. Permit PER94452 for the control of Leaf miners	<p>CHLORANTRANILIPROLE Australia: No current concerns. Codex MRL: 20 mg/Kg Canada: In re-evaluation</p> <p>THIAMETHOXAM Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Permit per82467 Expiry date: 31/03/2030 Codex MRL: 3 mg/Kg EU: Not approved Canada: In re-evaluation</p>
CHLORPYRIFOS	1B	Blue oat mite Redlegged earth mite Vegetable weevil	<p>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</p>
CYROMAZINE	17	PER81867 for the control of leaf miner	<p>Australia: No current concerns. Codex MRL: 4 mg/Kg EU: Not approved</p>
DIAZINON	1B	Cutworms	<p>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</p>
EMAMECTIN	6	Cluster caterpillar Cucumber moth Helicoverpa	<p>Australia: Nominated for targeted spray drift reconsideration EU: Approved, candidate for substitution</p>

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EMULSIFIABLE BOTANICAL OILS	--	Permit PER14077 for the control of Silverleaf whitefly	Australia: No current concerns.
FENITROTHION	1B	Australian plague locust Migratory locust Small plague locust Spur-throated locust Wingless grasshopper	Australia: On 15 August 2025, the APVMA made its final decision cancelling field uses in horticultural crops (Gazette No. 13) . A deemed one-year permit allows possession, supply, and use of products with previously approved labels Permit PER14077 Expiry date: 31/07/2028 EU: Not approved Canada: Cancelled
FIPRONIL	2B	Permit PER83203 for the control of Western flower thrips, Onion thrips	Australia: APVMA: Proposed Regulatory decision was expected by April 2026. APVMA is now advising the by end of 2026 at the earliest. Permit PER83203 Expiry date: 30/09/2026 Codex MRL: 0.01 mg/Kg EU: Not approved
FLUBENDIAMIDE	28	Helicoverpa	Australia: No current concerns.
HELICOVERPA ARMIGERA NPV	31	Helicoverpa	Australia: No current concerns
IMIDACLOPRID	4A	Currant lettuce aphid; PER10918 for the control of Greenhouse whitefly and aphids + PER12351 for the control of Silverleaf Whitefly Permit PER10918 for the control of Greenhouse whitefly and aphids. Permit PER12351 for the control of Silverleaf Whitefly.	Australia: APVMA: Neonicotinoids chemical review has been delayed. The proposed regulatory decision unlikely before 2027. Permit PER12351 Expiry date: 29/02/2028 EU: Not approved Canada: Very few uses allowed in greenhouses and seed treatment.
INDOXACARB	22A	Helicoverpa	Australia: No current concerns. Codex MRL: 3 mg/Kg EU: Not approved
IRON EDTA COMPLEX	--	Common brown(brown) snail White snail Vine snail	Australia: No current concerns Permit PER81867 Expiry date: 30/09/2026
ISOCYCLOSERAM	30	Permit PER94552 and permit PER94854 for the control of Serpentine leafminer	Australia: No current concerns.
MALATHION	1B	28-spotted potato ladybird Aphids Australian plague locust Diamondback (Cabbage) moth Green vegetable bug Redlegged earth mite Rutherglen bug Thrips	Australia: The final regulatory decision was published in an APVMA Special Gazette on 2 May 2024 . Labels have been varied. Products bearing previously approved labels must not be supplied after 1 May 2026. Permit PER12221 Expiry date: 30/09/2027 Canada: In re-evaluation
METALDEHYDE	--	For the control of snails and slugs	Australia: No current concerns Canada: In re-evaluation

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METHOMYL	1A	Cluster caterpillar Helicoverpa	Australia: APVMA reconsideration. Was to start 2026. APVMA to publish a new Chemical Review priority list by mid 2026. Codex MRL: 0.2 mg/Kg EU: Not approved Canada: In re-evaluation
PERMETHRIN	3A	Cluster caterpillar	Australia: APVMA nominated for reconsideration after 2029. Permit PER13920 Expiry date: 31/12/2027 EU: Not approved
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. EU: Not approved
PIRIMICARB	1A	Aphids	Australia: No current concerns. Permit PER12221 Expiry date: 30/09/2027 Codex MRL: 5 mg/Kg EU: Approved, candidate for substitution Canada: Cancelled
POTASSIUM SALTS OF FATTY ACIDS	--	Permit PER13920 for the control of Glasshouse whitefly and Silverleaf whitefly	Australia: No current concerns. Canada: In re-evaluation
PYMETROZINE	9B	Brown sowthistle aphid Cotton aphid Currant lettuce aphid Green peach aphid Potato aphid Silverleaf whiteflies	Australia: APVMA nominated for reconsideration and spray drift assessment. Permit PER13920 Expiry date: 31/12/2027 EU: Not approved Canada: Cancelled

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PYRETHRINS	3A	Ants Cabbage aphid Diamondback (Cabbage) moth Earwig Greenhouse whitefly Helicoverpa Jassids/Leafhoppers Plague thrips Rose aphid Rutherglen bug Thrips Two-spotted (Red spider) mite Whitefly	Australia: No current concerns. Permit PER89870 Expiry date: 31/10/2030
PYRIPROXYFEN	7C	Silverleaf whiteflies	Australia: No current concerns. Permit PER88640 Expiry date: 28/02/2026
SPINETORAM	5	Helicoverpa Loopers Western flower thrips	Australia: No current concerns. Codex MRL: 10 mg/Kg EU: Not approved Canada: In re-evaluation
SPINOSAD	5	Helicoverpa Loopers Western flower thrips Permit PER96806 for the control of Fall Armyworm	Australia: No current concerns. Codex MRL: 10 mg/Kg Canada: In re-evaluation
SPIROTETRAMAT	23	Brown sowthistle aphid Currant lettuce aphid Green peach aphid Silverleaf whiteflies Permit PER88640 for the control of Liriomyza leafminers	Australia: No current concerns. Codex MRL: 7 mg/Kg EU: Not approved Canada: In re-evaluation
SPODOPTERA FRUGIPERDA NPV	--	PER90820 for the control of Fall Armyworm	Australia: No current concerns Permit PER88640 Expiry date: 28/02/2026
SULFOXAFLOX	4C	Brown sowthistle aphid Green peach aphid Greenhouse whitefly PER82467 for the control of Jassids, leafhoppers, Greenhouse whitefly	Australia: No current concerns. Permit PER94452 Expiry date: 30/06/2026 + Permit PER94552 Expiry date: 30/11/2027 Codex MRL: 6 mg/Kg
TRICHLORFON	1B	Cutworms Green vegetable bug Rutherglen bug	Australia: APVMA nominated for reconsideration after 2029. Permit PER90820 Expiry date: 31/03/2027 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
AZOXYSTROBIN	11	Anthracoze Sclerotinia rot Base rot/Bottom rot	Australia: No current concerns. Codex MRL: 3 mg/Kg UK: Withdrawn (2029). Canada: In re-evaluation
AZOXYSTROBIN OXATHIPIPROLIN	11 + 49	Alternaria leaf spot Downy mildew Sclerotinia rot	AZOXYSTROBIN Australia: No current concerns. Codex MRL: 3 mg/Kg UK: Withdrawn (2029). Canada: In re-evaluation OXATHIPIPROLIN Australia: No current concerns. Codex MRL: 5 mg/Kg
Bacillus amyloliquefaciens strain QST 713	BM02	Permit PER87630 for the control of Bacterial spot / Blight	Australia: No current concerns. Permit per87630 Expiry date: 31/03/2027
BOSCALID	7	Sclerotinia rot	Australia: No current concerns. Codex MRL: 40 mg/Kg Canada: In re-evaluation
CAPTAN	M4	PER14326 for the control of Grey Mould (Leafy lettuce)	Australia: No current concerns. Permit PER14326 Expiry date: 31/03/2027
CHLOROTHALONIL	M5	Permit PER14964 for the control of Anthracnose (shot hole)	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. Permit PER14964 Expiry date: 31/07/2026 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER	M1	Anthracoze Bacterial spot Downy mildew Dry leaf spot	Australia: No current concerns.
DIMETHOMORPH	40	Anthracoze Downy mildew Septoria leaf spot	Australia: No current concerns. Codex MRL: 9 mg/Kg EU: Not approved Canada: In re-evaluation

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DIMETHOMORPH AMETOCTRADIN	40 + 45	Downy mildew	<p>DIMETHOMORPH Australia: No current concerns. Codex MRL: 9 mg/Kg EU: Not approved Canada: In re-evaluation</p> <p>AMETOCTRADIN Australia: No current concerns Codex MRL: 50 mg/Kg UK: Withdrawn (2031).</p>
FENHEXAMID	17	Botrytis/Grey mould	Australia: No current concerns. Codex MRL: 30 mg/Kg
FLORYLPICOXAMID	21	Sclerotinia rot	Australia: No current concerns. EU: Pending
FLUDIOXONIL CYPRODINIL	12 + 9	Anthraxnose Sclerotinia rot	<p>FLUDIOXONIL Australia: No current concerns. Codex MRL: 40 mg/Kg EU: Approved, candidate for substitution</p> <p>CYPRODINIL Australia: No current concerns. Codex MRL: 50 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation</p>
FLUOPYRAM TRIFLOXYSTROBIN	7 + 11	Sclerotinia rot	<p>FLUOPYRAM Australia: No current concerns. Codex MRL: 15 mg/Kg</p> <p>TRIFLOXYSTROBIN Australia: No current concerns. Codex MRL: 15 mg/Kg Canada: In re-evaluation</p>
IPRODIONE	2	Botrytis/Grey mould Sclerotinia rot	Australia: No current concerns. EU: Not approved USA: Under Registration Review (scheduled)
ISOFETAMID	7	Lettuce drop / Sclerotinia	Australia: No current concerns. Codex MRL: 7 mg/Kg
MANCOZEB	M3	Downy mildew Septoria leaf spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled)

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MANCOZEB DIMETHOMORPH	M3 + 40	PER14958 for the control of Downy mildew, White Blister and Alternaria Leaf Spot	<p>MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled)</p> <p>DIMETHOMORPH Australia: No current concerns. Codex MRL: 9 mg/Kg EU: Not approved Canada: In re-evaluation</p>
MANCOZEB METALAXYL	M3 + 4	Downy Mildew, Septoria Leaf Spot, Anthracnose	<p>MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved USA: Under Registration Review (scheduled)</p> <p>METALAXYL Australia: No current concerns. Permit PER14318 Expiry date: 31/07/2027 Codex MRL: 1.5 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation</p>
MANDESTROBIN	11	Sclerotinia rot	Australia: No current concerns.
MANDIPROPAMID	40	Downy mildew	Australia: No current concerns. Codex MRL: 25 mg/Kg Canada: In re-evaluation
METALAXYL	4	Permit PER14318 for the control of Damping off	Australia: No current concerns. Permit PER14318 Expiry date: 31/07/2027 Codex MRL: 1.5 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation
METIRAM	M3	Downy mildew Septoria leaf spot	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for foliar applications in potato crops.
OXATHIAPROLIN	49	Downy mildew	Australia: No current concerns. Codex MRL: 5 mg/Kg
PENTHIOPYRAD	7	Powdery mildew Sclerotinia rot	Australia: No current concerns. Codex MRL: 30 mg/Kg EU: Not approved

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PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	PER13698 for the control of Downy Mildew and Damping Off	Australia: No current concerns. Permit PER13698 Expiry date: 31/07/2030
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
PROCHLORAZ	3	PER81131 for the control of Anthracnose (Leafy or open head lettuce) Anthracnose (Leafy or open head lettuce)	Australia: No current concerns. Permit PER81131 Expiry date: 31/12/2028 EU: Not approved
PROPAMOCARB HYDROCHLORIDE FLUOPICOLIDE	43	Downy mildew	PROPAMOCARB HYDROCHLORIDE Australia: No current concerns. FLUOPICOLIDE Australia: No current concerns Codex MRL: 30 mg/Kg EU: Approved, candidate for substitution
PROPINEB	M3	Downy mildew	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved
PROPINEB OXADIXYL	M3 + 4	Downy mildew	PROPINEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved OXADIXYL Australia: No current concerns. EU: Not approved
PYDIFLUMETOFEN FLUDIOXONIL	7 + 12	Grey mould (Botrytis cinerea) White mould	PYDIFLUMETOFEN Australia: No current concerns. EU: Pending Canada: In re-evaluation FLUDIOXONIL Australia: No current concerns. Codex MRL: 40 mg/Kg EU: Approved, candidate for substitution
PYRIMETHANIL	9	Permit PER12565 for the control of Grey Mould	Australia: No current concerns. Permit PER12565 Expiry date: 30/04/2030 Canada: In re-evaluation
QUINTOZENE	14	Bottom Rot (Rhizoctonia)	Australia: No current concerns. EU: Not approved

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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	Botrytis/Grey mould Septoria leaf spot Anthracnose	Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved Canada: Only approved for seed treatment.
TOLCLOFOS-METHYL	14	Bottom rot (Rhizoctonia solani)	Australia: No current concerns.

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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.
CLETHODIM	1	Australia: No current concerns.
DIQUAT	22	Australia: APVMA: Currently under review . Publication of the final regulatory decision is now expected in Mid 2026. EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: Nominated for targeted spray drift reconsideration Canada: Cancelled
PARAQUAT	22	Australia: APVMA: Currently under review . 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
PENDIMETHALIN	3	Australia: No current concerns. Codex MRL: 4 mg/Kg EU: Approved, candidate for substitution Canada: In re-evaluation USA: Under Registration Review (scheduled)
PHENMEDIPHAM	5	Australia: No current concerns. Permit PER81241 Expiry date: 31/03/2028
PROPYZAMIDE	3	Australia: No current concerns. EU: Approved, candidate for substitution Canada: In re-evaluation
SETHOXYDIM	1	Australia: No current concerns. EU: Not approved Canada: Phase-Out
TRIFLURALIN	3	Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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FUMIGANTS

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Active Constituent	Use	Risks and Comments
1,3-DICHLOROPROPENE	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	Australia: No current concerns. EU: Pending Canada: Cancelled
CHLOROPICRIN	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	Australia: No current concerns. EU: Not approved USA: Restricted use
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
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.

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PLANT GROWTH REGULATORS AND OTHERS

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Active Constituent	Use	Risks and Comments
1-METHYLCYCLOPROPENE		Australia: No current concerns UK: Withdrawn (2034).
INDOLE BUTYRIC ACID = IBA		Australia: No current concerns

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