

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 spring onion 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
R4	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	Two spotted mite PER96481 for the control of LEAF MINER	Australia: APVMA nominated for reconsideration and spray drift assessment. Permit PER96481 Expiry date: 31/07/2028 Codex MRL: 0.005 mg/Kg Canada: Re-evaluation finalised. Label amendments to mitigate risks to human health and environment (July, 2025)
AFIDOPYROPEN	9D	Green peach aphid Cabbage aphid Currant lettuce aphid Cotton aphid/Melon aphid Corn aphid	Australia: No current concerns. EU: Not approved
ALPHA-CYPERMETHRIN	3A	Permit PER14457 for the control of onion thrips and red-legged earth mite	Australia: APVMA nominated for reconsideration after 2029. Permit PER14457 Expiry date: 31/03/2029 Codex MRL: *0.05 mg/Kg EU: Not approved
Bacillus thuringiensis	11A	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)

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Active Constituent	MoA Group	Pest	Risks and Comments
CANOLA OIL PYRETHRINS	+ 3A	Aphids Thrips Caterpillars Butterfly and cabbage moth Whitefly Ants Leafhopper Two-spotted mite Scale Mealybug	CANOLA OIL Australia: No current concerns. PYRETHRINS Australia: No current concerns.
CHLORANTRANILIPROLE I THIAMETHOXAM	28 + 4A	Onion Thrips	CHLORANTRANILIPROLE Australia: No current concerns. Canada: In re-evaluation THIAMETHOXAM Australia: APVMA: Currently under review. Proposed regulatory decisions expected between December 2025 to October 2026. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CYANTRANILIPROLE	28	Onion Thrips PER93849 for the control of Liriomyza leafminers	Australia: No current concerns. Permit PER93849 Expiry date: 31/12/2026 Codex MRL: 8 mg/Kg
DIAZINON	1B		Australia: 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)
DIMETHOATE	1В	Aphids, Jassids, Mites, Leaf Hoppers, Green Vegetable Bug, Thrips, Wingless Grasshoppers	Australia:APVMA reconsideration. Prioritised to be commenced by 2029. Canada: In re-evaluation USA: Under Registration Review (scheduled)

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EMULSIFIABLE BOTANICAL OIL		Greenhouse whitefly	Australia: No current concerns.
FLONICAMID	29	Permit PER89185 for the control of onion thrips and western flower thrips	Australia: No current concerns. Permit PER89185 Expiry date: 31/05/2027
GARLIC EXTRACT		Parasitic nematodes living freely in the soil	Australia: No current concerns.
GARLIC EXTRACT GARLIC OIL		APHID, CABBAGE WHITE BUTTERFLY, CATERPILLAR, COMMON SLUG, THRIP	GARLIC EXTRACT Australia: No current concerns. GARLIC OIL Australia: No current concerns.
ISOCYCLOSERAM	30	Onion Thrips Plague Thrips Permit PER94854 for the control of Serpentine leaf miner	Australia: No current concerns. Permit PER94854 Expiry date: 30/09/2028
LAMBDA-CYHALOTHRIN	3A	PER14471 for the control of: Redlegged Earth Mite Loopers Rutherglen bug Onion Maggot Onion Thrips Plague Thrips	Australia: No current concerns. Permit PER14471 Expiry date: 31/03/2029 EU: Approved, candidate for substitution.

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MALATHION	18	Onion Thrip Permit PER13653 for the control of onion 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 PER13653 Expiry date: 30/09/2029 Codex MRL: 5 mg/Kg UK: Withdrawn (2025). Canada: In re-evaluation USA: Under Registration Review (scheduled)
METHOMYL	1A	PER14890 for the control of Western Flower Thrips PER82428 for the control of: Helicoverpa spp. Cucumber moth Cluster caterpillar Loopers Webworm Rutherglen bug Thrips including WFT	Australia: APVMA reconsideration. Prioritised to be commenced by 2026. Permit PER14890 Expiry date: 31/07/2029 Permit PER82428 Expiry date: 31/01/2029 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
ORANGE OIL		Suppression: Onion thrips (<i>Thrips tabaci</i>)	Australia: No current concerns.
PETROLEUM OIL	UN	Permit PER12221 for the control of: Aphids Green mirid Green vegetable bug Leafhoppers Mites Rutherglen bugs and Thrips	Australia: No current concerns. Permit PER12221 Expiry date: 30/09/2027 EU: Not approved

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Active Constituent	MoA Group	Pest	Risks and Comments
PHORATE	18	PER8930 for the control of Aphids, jassids, mites, thrips and onion maggot	Australia: APVMA reconsideration. Prioritised to be commenced by 2026. Permit PER8930 Expiry date: 31/08/2029 EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
PIPERONYL BUTOXIDE GARLIC EXTRACT PYRETHRINS		Thrip	PIPERONYL BUTOXIDE Australia: No current concerns. USA: Under Registration Review (scheduled) GARLIC EXTRACT Australia: No current concerns. PYRETHRINS Australia: No current concerns.
PIPERONYL BUTOXIDE PYRETHRINS	+3A	Thrip	PIPERONYL BUTOXIDE Australia: No current concerns. USA: Under Registration Review (scheduled) PYRETHRINS Australia: No current concerns.
PIRIMICARB	1A	Aphids	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: Cancelled
POTASSIUM SALTS OF FATTY ACIDS		Aphids Thrips Mealybug Two-spotted mite Spider mite Whitefly	Australia: No current concerns. Canada: In re-evaluation
PYRIPROXYFEN	7C	Ant species	Australia: No current concerns.

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Active Constituent	MoA Group	Pest	Risks and Comments
SPINETORAM	5	Western flower thrips Onion thrips	Australia: No current concerns. Codex MRL: 0.8 mg/Kg EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
SPIROTETRAMAT	23	Western flower thrips Onion thrips	Australia: No current concerns. EU: Not approved Canada: In re-evaluation
TRICHLORFON	18	Cabbage White Butterfly Cabbage Moth Green Vegetable Bug	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)

RO	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

FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN	11	White rot	Australia: No current concerns. Codex MRL: 10 mg/Kg Canada: In re-evaluation
AZOXYSTROBIN OXATHIAPIPROLIN	11 + 49	Downy mildew	AZOXYSTROBIN Australia: No current concerns. Codex MRL: 10 mg/Kg Canada: In re-evaluation OXATHIAPIPROLIN Australia: No current concerns. Codex MRL: 2 mg/Kg
BOSCALID	7	Neck rot	Australia: No current concerns. Codex MRL: 5 mg/Kg Canada: In re-evaluation
CHLOROTHALONIL	M5	Downy mildew Permit PER82895 for the control of downy mildew and grey mould	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. Permit PER82895 Expiry date: 31/05/2030 Codex MRL: 10 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER	M1	Permit PER14842 for the control of Downy mildew	Australia: No current concerns. Permit PER14842 Expiry date: 31/05/2029
DIMETHOMORPH	40	Downy mildew	Australia: No current concerns. Codex MRL: 9 mg/Kg EU: Not approved Canada: In re-evaluation

	R0	Use no longer approved
R1 Short-term: Critical concern over retaining access < 1 year		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 AMETOCTRADIN	40 + 45	Downy mildew	DIMETHOMORPH Australia: No current concerns. Codex MRL: 9 mg/Kg EU: Not approved Canada: In re-evaluation AMETOCTRADIN Australia: No current concerns.
DIMETHOMORPH I MANCOZEB	40 + M3	Permit PER14473 for the control of Downy mildew & Purple blotch	DIMETHOMORPH Australia: No current concerns. Codex MRL: 9 mg/Kg EU: Not approved Canada: In re-evaluation MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled) Permit PER14473 Expiry date: 29/02/2028
FLUDIOXONIL CYPRODINIL	12 + 9	Suppression only: Black mould Grey mould	FLUDIOXONIL Australia: No current concerns. Codex MRL: 0.5 mg/Kg EU: Approved, candidate for substitution. CYPRODINIL Australia: No current concerns. EU: Approved, candidate for substitution. Canada: In re-evaluation

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R4	No current risk/concerns

Active Constituent	MoA Group	Pest	Risks and Comments
FLUOPYRAM TEBUCONAZOLE	7+3	Suppression only: White rot	FLUOPYRAM Australia: No current concerns. Codex MRL: 15 mg/Kg TEBUCONAZOLE Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
HYDROGEN PEROXIDE PEROXYACETIC ACID	M	Neck & Bulb Rot Downy Mildew	HYDROGEN PEROXIDE Australia: No current concerns. PEROXYACETIC ACID Australia: No current concerns.
IODINE	М	Fungi	Australia: No current concerns. Canada: Cancelled
MANCOZEB OXATHIAPIPROLIN	M3 + 49	Downy mildew	MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled) OXATHIAPIPROLIN Australia: No current concerns. Codex MRL: 2 mg/Kg
ORANGE OIL		Downy mildew (<i>Peronospora destructor</i>) Suppression only	Australia: No current concerns.
OXATHIAPIPROLIN	49	Downy mildew	Australia: No current concerns. Codex MRL: 2 mg/Kg

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Active Constituent	MoA Group	Pest	Risks and Comments
PENTHIOPYRAD	7	Botrytis blight and Neck rot Purple blotch	Australia: No current concerns. Codex MRL: 4 mg/Kg
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Permit PER13698 for the control of Downy mildew	Australia: No current concerns. Permit PER13698 Expiry date: 31/07/2030
PROPAMOCARB FLUOPICOLIDE	28 + 43	Downy mildew	PROPAMOCARB Australia: No current concerns. FLUOPICOLIDE Australia: No current concerns EU: Approved, candidate for substitution.
SULPHUR	M2	Two spotted mite Tomato mite Powdery mildew Rust Black Spot	Australia: No current concerns. Canada: In re-evaluation
TEBUCONAZOLE	3	White root rot	Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 2 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
TRIADIMENOL	3	Permit PER14906 for the control of White rot	Australia: APVMA nominated for reconsideration after 2029. Permit PER14906 Expiry date: 31/07/2029 EU: Not approved Canada: Cancelled

HERBICIDES – Weed Control

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
2,4-D	4	Australia: No current concerns. Canada: In re-evaluation USA: Under Registration Review (scheduled)
AMITROLE	34	Australia: APVMA nominated for reconsideration after 2029. Canada: Cancelled
AMMONIUM THIOCYANATE		Australia: No current concerns
AMMONIUM THIOCYANATE AMITROLE	+ 34	AMMONIUM THIOCYANATE Australia: No current concerns AMITROLE Australia: APVMA nominated for reconsideration after 2029. Canada: Cancelled
ATRAZINE	5	Australia: APVMA Nominated for targeted spray drift reconsideration EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
CHLORTHAL DIMETHYL	3	Australia: APVMA cancelled all products containing chlorthal dimethyl in October 2024. The use ofchlorthaldimethyl as an agricultural chemical product is now illegal. EU: Not approved Canada: Cancelled USA: US EPA cancelled all products (Oct. 2024)
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 is expected in Mid 2026. EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.

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	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 PER82556 Expiry date: 30/11/2027 Canada: Cancelled
GLYPHOSATE	9	Australia: APVMA Nominated for targeted spray drift reconsideration Permit PER86434 Expiry date: 31/05/2028 USA: Under Registration Review (scheduled)
IOXYNIL	5	Australia: No current concerns. EU: Not approved
LINURON	5	Australia: No current concerns. EU: Not approved
METHABENZTHIAZURON	5	Australia: No current concerns. Permit PER14742 Expiry date: 28/02/2029 EU: Not approved
METOLACHLOR	15	Australia: No current concerns. EU: Not approved Canada: Cancelled
PARAQUAT	22	Australia:APVMA: Currently under review. Publication of the final regulatory decision is 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: 0.4 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation 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	Risks and Comments
PROPACHLOR	15	Australia: No current concerns. Permit PER12008 Expiry date: 31/08/2028 EU: Not approved
PROPYZAMIDE	3	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: In re-evaluation
QUIZALOFOP-P-ETHYL	1	Australia: No current concerns.
SETHOXYDIM	1	Australia: No current concerns. EU: Not approved Canada: Phase-Out
SIMAZINE	5	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved
S-METOLACHLOR	15	Australia: No current concerns. EU: Not approved
SULFOMETURON	2	Australia: No current concerns.

FUMIGANTS – Mixed Function

Active Constituent	Use	Risks and Comments
CHLOROPICRIN + 1,3-	Control of soil borne diseases, plant parasitic	CHLOROPICRIN
DICHLOROPROPENE	Nematodes, Symphylans and Wireworms	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 (Xanthomonas spp.)	Australia: No current concerns.
	(suppression only).	USA: Under Registration Review (scheduled)
	Soil insects and nematodes	
ETHANEDINITRILE	Soil borne pathogens, nematodes and weeds	Australia: No current concerns.
METHAM PRESENT AS SODIUM	Germinating weeds and soil-borne fungus	Australia: No current concerns.
SALT	diseases	

PLANT REGULATORS AND OTHERS – Plant regulators, post-harvest treatments, rodenticides and others.

Active Constituent	Use	Risks and Comments
IRON EDTA COMPLEX	Common garden snail	Australia: No current concerns.
METALDEHYDE	Snails, slugs	Australia: No current concerns. Canada: In re-evaluation

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Funding statement: MT24008 – Regulatory Support & Response Co-ordination. This *multi-industry* project has been funded by Hort Innovation, using *industry research and development levies* and contributions from the Australian Government. Hort Innovation is the grower-owned, not-for-profit research and development corporation for Australian horticulture.

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