

Leek

Agrichemical Regulatory Risk Assessment

June 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 leek in Australia as well as assisting with any current initiatives aimed at identifying and addressing pest management deficiencies.

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

Blue text = new APVMA approved uses

INSECTICIDES/MITICIDES/NEMATOCIDES - Insect and other Pests Control

Active Constituent	MoA Group	Pest	Risks and Comments
ALPHA-CYPERMETHRIN	3A	Permit PER14457 for the control of Redlegged earth mite and Onion thrips	Australia: APVMA nominated for reconsideration after 2029 Permit PER14457 Expiry date: 31/03/2029 Codex MRL: 0.05 mg/Kg EU: Not approved Canada: No current review
<i>Bacillus thuringiensis</i>	11A	Light brown apple moth	Australia: No current concerns. USA: Review upcoming
CHLOROPICRIN 1,3-DICHLOROPROPENE	8B + 8A	Plant parasitic nematodes	CHLOROPICRIN Australia: APVMA: no current concerns. EU: Not approved Canada: No current review 1,3-DICHLOROPROPENE Australia: APVMA: no current concerns. EU: Pending Canada: No current review USA: Review upcoming
CHLORPYRIFOS	1B	Cutworm, vegetable weevil, wingless grasshopper	Australia: The APVMA issued a Final Decision in September 2024. Stalk and stem vegetables uses were cancelled. Products with previously approved labels must not be possessed or used after September 30, 2025. Codex: All MRLs deleted EU: Not approved Canada: All uses cancelled 2023 USA: Upcoming review

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Active Constituent	MoA Group	Pest	Risks and Comments
CYANTRANILIPROLE	28	Onion thrips (<i>Thrips tabaci</i>)	Australia: No current concerns. EU: Approved UK: Approved Canada: No current review
CYANTRANILIPROLE	28	Onion thrips Permit PER93849 for the control of Liriomyza leafminers	Australia: No current concerns. Permit PER93849 Expiry date: 31/12/2026 EU: Approved UK: Approved Canada: No current review
DIAZINON	1B	Permit PER82551 for the control of Onion fly	Australia: Australia: APVMA made a Final Decision on 10 September 2024 . Agricultural uses were not supported during the review. Approved use on all vegetables ceases 10 September 2025. Codex MRL: All MRLs deleted Permit PER82551 Expiry date: 30/11/2025 (Consider the APVMA Final decision) EU: Not approved Canada: No current review USA: Review upcoming
FLONICAMID	29	Suppression only of: Onion Thrips and Western Flower Thrips.	Australia: No current concerns. Permit PER89185 Expiry date: 31/05/2027 EU: Approved Canada: No current review
ISOCYCLOSERAM	30	Suppression of: Onion thrips and Plague thrips. Permit PER94854 for the control of Serpentine leaf miner.	Australia: No current concerns. Permit PER94854 Expiry date: 31/08/2025 Canada: No current review
MALATHION	1B	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 EU: Approved UK: Withdrawn. Expiry date: 30/04/2025 Canada: In review USA: Review upcoming Codex: No MRLs

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Active Constituent	MoA Group	Pest	Risks and Comments
PETROLEUM OIL	UN	Permit PER1221 for the control of Aphids, Green mirid, Green vegetable bug, Grey cluster bug, Leafhoppers Mites, Rutherglen bug and 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. UK: Approved Canada: No current review USA: No registrations
POTASSIUM SALTS OF FATTY ACIDS	UNE	Aphids Thrips	Australia: No current concerns. Canada: In review
PROPARGITE	12C	Two-spotted mite	Australia: APVMA reconsideration. APVMA reconsideration. Prioritised to be commenced by 2029. EU: Not approved Canada: No current review USA: Review upcoming
SPINETORAM	5	Western flower thrips	Australia: No current concerns. Codex MRL: 0.05 mg/Kg EU: Not approved UK: Withdrawn. Expiry date: 30/09/2024 Canada: In review
SPIROTETRAMAT	23	Onion thrips Plague thrips Western flower thrips	Australia: No current concerns. EU: Not approved UK: Approved Canada: In review
TRICHLORFON	1B	Green vegetable bug Rutherglen bug	Australia: APVMA nominated for reconsideration after 2029 EU: Not approved Canada: No current review USA: Review upcoming

FUNGICIDES – Disease Control

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Active Constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN	11	Downy mildew White rot	Australia: No current concerns. Codex MRL: 10 mg/Kg EU: Approved UK: Approved Canada: In review
AZOXYSTROBIN OXATHIPIPROLIN	11 + 49	Downy mildew White rot	<p>AZOXYSTROBIN</p> <p>Australia: No current concerns. Codex MRL: 10 mg/Kg EU: Approved UK: Approved Canada: In review</p> <p>OXATHIPIPROLIN</p> <p>Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Approved UK: Approved Canada: No current review</p>
CHLOROTHALONIL	M5	Purple blotch	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. Codex MRL: 40 mg/Kg EU: Not approved Canada: In review USA: Review upcoming
COPPER	M1	Downy mildew Purple blotch	Australia: No current concerns. EU: Approved, candidate for substitution. Canada: No current review

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DIMETHOMORPH & MANCOZEB	40 + M3	Permit PER14473 for the control of Downy Mildew, Purple Blotch & Botrytis rots	<p>Permit PER14473 Expiry date: 29/02/2028</p> <p>DIMETHOMORPH Australia: No current concerns. Codex MRL: 0.8 mg/Kg EU: Not approved UK: Approved Canada: No current review</p> <p>MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn. Expiry date: 31/05/2024 Canada: Most of uses cancelled USA: Review upcoming</p>
DIMETHOMORPH AMETOCTRADIN	40 + 45	Downy mildew	<p>DIMETHOMORPH Australia: No current concerns. Codex MRL: 0.8 mg/Kg EU: Not approved UK: Approved Canada: No current review</p> <p>AMETOCTRADIN Australia: No current concerns. EU: Approved UK: Approved Canada: No current review</p>

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Active Constituent	MoA Group	Pest	Risks and Comments
FLUOPYRAM TEBUCONAZOLE	3 + 7	White rot - Suppression only	<p>FLUOPYRAM</p> <p>Australia: No current concerns. Codex MRL: 0.15 mg/Kg EU: Approved UK: Approved Canada: No current review</p> <p>TEBUCONAZOLE</p> <p>Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 0.7 mg/Kg EU: Approved, candidate for substitution. UK: Approved Canada: Phase-Out USA: Review upcoming</p>
HYDROGEN PEROXIDE AND PEROXYACETIC ACID	M	Neck & Bulb Rot Downy Mildew	<p>Australia: No current concerns. EU: Approved</p>
MANCOZEB OXATHIPIPROLIN	#N/A	Downy mildew	<p>MANCOZEB</p> <p>Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn. Expiry date: 31/05/2024 Canada: Most of uses cancelled USA: Review upcoming</p> <p>OXATHIPIPROLIN</p> <p>Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Approved UK: Approved Canada: No current review</p>

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Active Constituent	MoA Group	Pest	Risks and Comments
OXATHIPIPROLIN	49	Downy mildew	Australia: No current concerns. Codex MRL: 2 mg/Kg EU: Approved UK: Approved Canada: No current review
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Permit PER13698 for the suppression only of Downy mildew.	Australia: No current concerns. Permit PER13698 Expiry date: 30/09/2025
PROPAMOCARB HYDROCHLORIDE FLUOPICOLIDE	28 + 43	Downy mildew	PROPAMOCARB Australia: No current concerns. Codex MRL: 30 mg/Kg EU: Approved UK: Approved FLUOPICOLIDE Australia: No current concerns. EU: Approved, candidate for substitution. UK: Approved Canada: No current review
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: No current review

HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
CYANAZINE	5	Australia: APVMA nominated for reconsideration after 2029 Permit PER81271 Expiry date: 31/05/2030 EU: Not approved Canada: No current review

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Active Constituent	MoA Group	Risks and Comments
CLETHODIM	1	Australia: No current concerns. Permit PER82459 Expiry date: 30/09/2026 EU: Approved UK: Approved Canada: No current review
DIQUAT (Bulb Vegetables)	22	<u>APVMA proposed decisions</u> published July 2024. Only uses up to 283gai/ha to be kept. Publication of the final regulatory decision is expected in <u>December 2025</u> . Codex: No MRLs. EU: Not approved (withdrawn in 2018). UK: Not approved. USA: Registered (under review).
ETHOFUMESATE	15	Australia: No current concerns. Permit PER81271 Expiry date: 31/05/2030 EU: Approved UK: Approved Canada: In review
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: APVMA nominated for reconsideration and for targeted spray drift reconsideration Permit PER82556 Expiry date: 30/11/2027 EU: Approved Canada: No current review
IOXYNIL	5	Australia: No current concerns. EU: Not approved
LINURON	5	Australia: No current concerns. EU: Not approved Canada: Special review decision. Cancellation of many uses.
METHABENZTHIAZURON	5	Australia: No current concerns. Permit PER14742 Expiry date: 28/02/2029 EU: Not approved

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Active Constituent	MoA Group	Risks and Comments
OXYFLUORFEN	14	Australia: No current concerns. Permit PER81271 Expiry date: 31/05/2030 EU: Approved, candidate for substitution. UK: Withdrawn. Expiry date: 31/12/2024 Canada: In review USA: Review upcoming
PARAQUAT (Bulb Vegetables)	22	<u>APVMA proposed decisions</u> July 2024. Only uses up to 231gai/ha to be kept. Publication of the final regulatory decision is expected in <u>December 2025</u> . Codex: No MRLs Canada: Not approved. EU and UK: Not approved (2007). USA: Restricted use (under review).
PENDIMETHALIN	3	Australia: No current concerns. Codex MRL: 0.3 mg/Kg EU: Approved, candidate for substitution. UK: Approved Canada: In review USA: Review upcoming
PROPACHLOR	15	Australia: No current concerns. Permit PER81271 Expiry date: 31/05/2030 EU: Not approved
SIMAZINE	5	Australia: <u>APVMA nominated for reconsideration after 2029</u> Permit PER81271 Expiry date: 31/05/2030 EU: Not approved

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Communications Manager

Hort Innovation

Level 7, 141 Walker Street

North Sydney NSW 2060

Australia

Email: communications@horticulture.com.au

Phone: 02 8295 2300