

Leek

Agrichemical Regulatory Risk Assessment

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 leek 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
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Leek - Agrichemical Regulatory Risk Assessment

INSECTICIDES/MITICIDES/NEMATOCIDES - Insect and other pests

Blue text = new APVMA approved uses

Active Constituent	MoA Group	Pest	Risks and Comments
ABAMECTIN	6	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)
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
<i>Bacillus thuringiensis</i>	11A	Light brown apple moth Armyworm Cotton bollworm Native budworm Cabbage moth Cabbage white butterfly Loopers Vine moth	Australia: No current concerns. USA: Under Registration Review (scheduled)
CYANTRANILIPROLE	28	Onion thrips Permit PER93849 for the control of Liriomyza leafminers	Australia: No current concerns. Permit PER93849 Expiry date: 31/12/2026
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)

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Leek - Agrichemical Regulatory Risk Assessment

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FLONICAMID	29	Suppression only of: Onion Thrips Western Flower	Australia: No current concerns. Permit PER89185 Expiry date: 31/05/2027
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: 30/09/2028
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 UK: Withdrawn (2025). 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 PER1221 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
POTASSIUM SALTS OF FATTY ACIDS	--	Aphids Thrips	Australia: No current concerns. Canada: In re-evaluation

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Leek - Agrichemical Regulatory Risk Assessment

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PROPARGITE	12C	Two-spotted mite	Australia: APVMA reconsideration. Prioritised to be commenced by 2029. EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)
SPINETORAM	5	Western flower thrips	Australia: No current concerns. Codex MRL: 0.05 mg/Kg EU: Not approved UK: Withdrawn (2024). Canada: In re-evaluation
SPIROTETRAMAT	23	Onion thrips Plague thrips Western flower thrips	Australia: No current concerns. EU: Not approved Canada: In re-evaluation
TRICHLORFON	1B	Green vegetable bug Rutherglen bug	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled USA: Under Registration Review (scheduled)

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Leek - Agrichemical Regulatory Risk Assessment

FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
AZOXYSTROBIN	11	Downy mildew White rot	Australia: No current concerns. Codex MRL: 10 mg/Kg Canada: In re-evaluation
AZOXYSTROBIN OXATHIPIPROLIN	11 + 49	Downy mildew White rot	AZOXYSTROBIN Australia: No current concerns. Codex MRL: 10 mg/Kg Canada: In re-evaluation OXATHIPIPROLIN Australia: No current concerns. Codex MRL: 2 mg/Kg
CHLOROTHALONIL	M5	Purple blotch	Australia: APVMA reconsideration. Prioritised to be commenced by 2028. Codex MRL: 40 mg/Kg EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)
COPPER	M1	Downy mildew Purple blotch	Australia: No current concerns.

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Leek - Agrichemical Regulatory Risk Assessment

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DIMETHOMORPH & MANCOZEB	40 + M3	Permit PER14473 for the control of Downy Mildew, Purple Blotch & Botrytis rots	<p>DIMETHOMORPH Australia: No current concerns. Codex MRL: 0.8 mg/Kg EU: Not approved Canada: In re-evaluation</p> <p>MANCOZEB Australia: APVMA reconsideration. Prioritised to be commenced by 2027. EU: Not approved UK: Withdrawn (2024). USA: Under Registration Review (scheduled)</p>
DIMETHOMORPH AMETOCTRADIN	40 + 45	Downy mildew	<p>DIMETHOMORPH Australia: No current concerns. Codex MRL: 0.8 mg/Kg EU: Not approved Canada: In re-evaluation</p> <p>AMETOCTRADIN Australia: No current concerns</p>
FLUOPYRAM TEBUCONAZOLE	3 + 7	White rot - Suppression only	<p>FLUOPYRAM Australia: No current concerns. Codex MRL: 0.15 mg/Kg</p> <p>TEBUCONAZOLE Australia: APVMA: Removed from nomination list - maintain watching brief Codex MRL: 0.7 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)</p>
HYDROGEN PEROXIDE PEROXYACETIC ACID	M	Neck & Bulb Rot Downy Mildew	Australia: No current concerns.

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MANCOZEB OXATHIPIPROLIN	M3 + 49	Downy mildew	<p>MANCOZEB</p> <p>Australia: APVMA reconsideration. Prioritised to be commenced by 2027.</p> <p>EU: Not approved</p> <p>UK: Withdrawn (2024).</p> <p>USA: Under Registration Review (scheduled)</p> <p>OXATHIPIPROLIN</p> <p>Australia: No current concerns.</p> <p>Codex MRL: 2 mg/Kg</p>
ORANGE OIL	--	Downy mildew (<i>Peronospora destructor</i>) Suppression only	Australia: No current concerns.
OXATHIPIPROLIN	49	Downy mildew	<p>Australia: No current concerns.</p> <p>Codex MRL: 2 mg/Kg</p>
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Permit PER13698 for the suppression only of Downy mildew	<p>Australia: No current concerns.</p> <p>Permit PER13698 Expiry date: 31/07/2030</p>
PROPAMOCARB HYDROCHLORIDE FLUOPICOLIDE	28 + 43	Downy mildew	<p>PROPAMOCARB</p> <p>Australia: No current concerns.</p> <p>Codex MRL: 30 mg/Kg</p> <p>FLUOPICOLIDE</p> <p>Australia: No current concerns</p> <p>EU: Approved, candidate for substitution.</p>
TRIADIMENOL	3	Permit PER14906 for the control of White Rot (Sclerotium)	<p>Australia: APVMA nominated for reconsideration after 2029.</p> <p>Permit PER14906 Expiry date: 31/07/2029</p> <p>EU: Not approved</p> <p>Canada: Cancelled</p>

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HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
CYANAZINE	5	Australia: APVMA nominated for reconsideration after 2029. EU: Not approved Canada: Cancelled
CLETHODIM	1	Australia: No current concerns. Permit PER82459 Expiry date: 30/09/2026
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.
ETHOFUMESATE	15	Australia: No current concerns. Canada: In re-evaluation
FLUAZIFOP-P PRESENT AS THE BUTYL ESTER	1	Australia: APVMA Nominated for targeted spray drift reconsideration Canada: Cancelled
IOXYNIL	5	Australia: No current concerns. EU: Not approved
LINURON	5	Australia: No current concerns. EU: Not approved
METHABENZTHIAZURON	5	Australia: No current concerns. EU: Not approved
OXYFLUORFEN	14	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Withdrawn (2024). Canada: In re-evaluation USA: Under Registration Review (scheduled)

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Active Constituent	MoA Group	Risks and Comments
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: 0.3 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
PROPACHLOR	15	Australia: No current concerns. EU: Not approved
SIMAZINE	5	Australia: APVMA nominated for reconsideration after 2029 . EU: Not approved

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Leek - Agrichemical Regulatory Risk Assessment

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 (Xanthomonas 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.

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Leek - Agrichemical Regulatory Risk Assessment

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