

## **Chestnuts**

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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

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### INSECTICIDES/MITICIDES/NEMATOCIDES - Insect and other pests

Blue text = new APVMA approved uses

Active constituent	MoA Group	Pest	Risks and Comments
(S)-METHOPRENE	7A	PER90213 for the control of Red Imported Fire Ant	Australia: No current concerns. Permit PER90213 Expiry date: 30/06/2027
CHLORPYRIFOS	1B	-	Australia: <a href="#">The chemical review was completed in September 2024</a> . 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.
INDOXACARB	22A	Red imported fire ant	Australia: No current concerns. Codex MRL: 0.07 mg/Kg EU: Not approved UK: Withdrawn (2024).
LAMBDA-CYHALOTHRIN	3A	PER12961 for the control of Mediterranean Fruit Fly & Queensland Fruit Fly	Australia: No current concerns. Permit PER12961 Expiry date: 31/03/2030 EU: Approved, candidate for substitution.
MALATHION	1B	PER13642 for the control of Australian plague locust	Australia: The final regulatory decision was published in an <a href="#">APVMA Special Gazette on 2 May 2024</a> . Labels have been varied. Products bearing previously approved labels must not be supplied after 1 May 2026. Permit PER13642 Expiry date: 30/04/2030 UK: Withdrawn (2025). Canada: In re-evaluation USA: Under Registration Review (scheduled)
POTASSIUM SALTS OF FATTY ACIDS	--	Aphids	Australia: No current concerns. Canada: In re-evaluation

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Active constituent	MoA Group	Pest	Risks and Comments
PYRIPROXYFEN	7C	Invasive and nuisance ants including Red Imported Fire Ant, Tropical Fire Ant,	Australia: No current concerns.
SULFOXAFLOX	4C	Aphids (including black peach aphid and green peach aphid)	Australia: No current concerns. Codex MRL: 0.03 mg/Kg
SULFURYL FLUORIDE	8C	Stored product pests	Australia: No current concerns. Codex MRL: 3 mg/Kg Canada: In re-evaluation

### FUNGICIDES – Disease Control

Active Constituent	MoA Group	Pest	Risks and Comments
COPPER	M1	Shot hole, Leaf curl, Brown rot, Freckle	Australia: No current concerns.
FLUDIOXONIL	12	Suppression of surface moulds and fungal rots (post-harvest diseases).	Australia: No current concerns. Codex MRL: 0.3 mg/Kg EU: Approved, candidate for substitution.
METALAXYL-M	4	PER90388 for root and collar rot.	Australia: No current concerns. Permit PER90388 Expiry date: 31/01/2029
PENTHIOPYRAD	7	Brown rot (Blossom blight)	Australia: No current concerns. Codex MRL: 0.05 mg/Kg
PHOSPHOROUS (PHOSPHONIC) ACID	P07 (33)	Phytophthora trunk (suppression only)  PER15259 for the control of Suppression Phytophthora, Phomopsis	Australia: No current concerns. Permit PER15259 Expiry date: 31/01/2030

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### HERBICIDES – Weed Control

Active Constituent	MoA Group	Risks and Comments
CARFENTRAZONE-ETHYL	14	Australia: No current concerns. Canada: In re-evaluation
DIQUAT	22	Australia: APVMA: <a href="#">Currently under review</a> . Publication of the final regulatory decision is now expected in Mid 2026. EU: Not approved USA: No agricultural uses allowed. Aquatic herbicide.
FLUMIOXAZIN	14	Australia: No current concerns. Codex MRL: 0.02 mg/Kg Canada: In re-evaluation
GLUFOSINATE-AMMONIUM	10	Australia: <a href="#">APVMA Nominated for targeted spray drift reconsideration</a> Codex MRL: 0.1 mg/Kg EU: Not approved Canada: In re-evaluation
GLYPHOSATE	9	Australia: <a href="#">APVMA Nominated for targeted spray drift reconsideration</a> USA: Under Registration Review (scheduled)
HALOXYFOP	1	Australia: No current concerns. EU: Not approved
ISOXABEN	29	Australia: No current concerns.
ORYZALIN	3	Australia: No current concerns. EU: Not approved UK: Withdrawn (2024).

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Active Constituent	MoA Group	Risks and Comments
OXYFLUORFEN	14	Australia: No current concerns. EU: Approved, candidate for substitution. UK: Withdrawn (2024). Canada: In re-evaluation USA: Under Registration Review (scheduled)
Paraquat	22	Australia: APVMA: <a href="#">Currently under review</a> . Publication of the final regulatory decision is now expected in Mid 2026. Candidate chemical recommended to be listed to Rotterdam Convention. Codex MRL: 0.05 mg/Kg EU: Not approved Canada: Cancelled USA: Restricted use
Pendimethalin	3	Australia: No current concerns. Codex MRL: 0.05 mg/Kg EU: Approved, candidate for substitution. Canada: In re-evaluation USA: Under Registration Review (scheduled)
Trifluralin	3	Australia: No current concerns. EU: Not approved Canada: In re-evaluation USA: Under Registration Review (scheduled)

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### FUMIGANTS – Mixed Function

Active Constituent	Use	Risks and Comments
CHLOROPICRIN + 1,3-DICHLOROPROPENE	Control of soil borne diseases, plant parasitic Nematodes, Symphylans and Wireworms	<p>CHLOROPICRIN Australia: No current concerns. EU: Not approved USA: Restricted use</p> <p>1,3-DICHLOROPROPENE Australia: No current concerns. EU: Pending Canada: Cancelled</p>
DAZOMET	Control of bacterial spot (Xanthomonas spp.) (suppression only). Soil insects and nematodes	<p>Australia: No current concerns. USA: Under Registration Review (scheduled)</p>
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 REGULATORS AND OTHERS** – Plant regulators, post-harvest treatments, rodenticides and others.

Active Constituent	Use	Risks and Comments
IPRODIONE	PER83636 for the control of surface moulds and fungal rots	Australia: No current concerns. Permit PER83636 Expiry date: 31/03/2027 EU: Not approved USA: Under Registration Review (scheduled)
PEROXYACETIC ACID	PER91058 for the control of Surface moulds	Australia: No current concerns. Permit PER91058 Expiry date: 30/06/2026
Sodium Hypochlorite	PER13640 for the control of Surface Moulds	Australia: No current concerns. Permit PER13640 Expiry date: 31/05/2028 EU: Not approved Canada: Cancelled

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