

Chestnuts Agrichemical Regulatory Risk Assessment

March 2024

Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 with changed data requirements. A consequence of which can be that many agrichemicals are not meeting contemporary risk assessment standards as the necessary data is unavailable, or where data is available, the refined 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 so as to ensure compliance, as a 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. As a consequence it is possible that 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 as well as current initiatives aimed at addressing identified pest management deficiencies.

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R1	Short-term: Critical concern over retaining access
R2	Medium-term: Maintaining access of significant concern
R3	Long-term: Potential issues associated with use - Monitoring required

Active Constituents	Chemical group	Problem	Comment
INSECT AND OTHER PESTS			
Chlorpyrifos	1B	Australian plague locust(PER13642)	APVMA: Proposed deletion of uses Codex: All MRLs revoked Canada: Cancellation of all uses. EU/UK: No authorisation in place USA: EPA decision to cancel use on food crops
Indoxacarb	22A	Red imported fire ant Tropical fire ant	Canada: No authorisation EU/UK: No authorisation
Maldison	1B	Australian plague locust(PER13642)	APVMA: Under review Codex: Re-evaluation scheduled for 2025 EU: Restricted use to permanent greenhouses
Potassium salts of fatty acids	UN	Aphids & mealy bugs Thrips Two-spotted mites Whitefly	
Pyriproxyfen	7C	Invasive and nuisance ants Red imported fire ant(PER87728 Qld only)	
S-methoprene	7A	Red imported fire ant(PER90213) Yellow crazy ant(PER86559 NSW only)	EU/UK: No authorisations in place
Sulfoxaflor	4C	Aphids Black peach aphid Green peach aphid	USA: Pollinator concerns EU: Restricted to permanent glasshouses only
Sulfuryl fluoride	8C	Storage pests	

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Active Constituents	Chemical group	Problem	Comment
DISEASES			
Chlorine/Sodium hypochlorite	M	Surface moulds(PER13640)	
Copper	M1	Leaf curl	EU: Candidates for substitution
		Phytophthora stem canker	
Fludioxonil	12	Fungal rots	EU: Under review, & candidate for substitution
		Surface moulds	
Hydrogen peroxide +peroxyacetic acid	M	Surface moulds (PER91058)	
Iprodione	2	Fungal rots(PER83636)	Canada: Majority of food crop uses deleted Codex: Review scheduled EU/UK: No authorisation in place USA: Proposed deletion or restriction of uses
		Surface moulds (PER83636)	
Metalaxyl-M	4	Root and collar rot(PER90388)	EU: Restricted use approval
Penthiopyrad	7	Brown rot (Blossom blight)	
Phosphorous acid	33	Phomopsis nut rot(PER15259)	
		Phytophthora Trunk and root canker	

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Active Constituents	Chemical Group	Comments
WEEDS		
Carfentrazone-ethyl	14	
Flumioxazin	14	EU: Candidate for substitution
Glufosinate-ammonium	9	Canada: Review proposed EU/UK: No authorisation in place
Glyphosate	10	Ongoing issues internationally
Haloxyfop-P	1	EU/UK: Not authorised
Isoxaben	29	
Oryzalin	3	EU: No authorisation in place
Oxyfluorfen	14	EU: Candidate for substitution USA: Interim review decision Label amendments proposed
Paraquat	22	APVMA: Currently under review Canada: Review initiated EU/UK: No authorisation in place Rotterdam Convention - nomination
Pendimethalin	3	EU: Candidate for substitution

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