

Bulb fennel Agrichemical Regulatory Risk Assessment

September 2023

Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 requiring 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 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 Bulb fennel as well as current initiatives aimed at addressing identified pest management deficiencies

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	Comments		
INSECT AND OTHER PESTS					
B thuringiensis	11A	Armyworm	EU: Under review for renewal		
		Helicoverpa			
		Loopers			
		Fungus gnats(PER14694)			
Chlorpyrifos	1B	Spotted vegetable weevil	APVMA: Under review.		
		Cutworms	Codex: MRLs deleted		
		Field crickets	Canada: Cancellation of all uses.		
		Mole crickets	EU: No authorisation in place		
		Vegetable weevil	USA: EPA decision to cancel use on food crops		
Cyantraniliprole	28	Onion (cotton seedling) thrips			
Cyromazine		Leaf miner(PER81867)	EU: No authorisation		
Diazinon	1B	Caterpillars	APVMA: Under review		
			EU: No authorisation in place		
			Codex: JMPR recommended withdrawal of Codex MRLs.		
Flonicamid	29	Thrips (Suppression – PER89185)			
Flubendiamide	28	Helicoverpa			
Helicoverpa NPV	31	Helicoverpa			
Malathion/Maldison	1B	Loopers	APVMA: Under review		
			Codex: Re-evaluation scheduled for 2025/26		
			EU: Restricted use to permanent greenhouses		
Metaldehyde	-	Slugs/Snails			
Methiocarb	1A	Slugs/Snails	Canada: No authorisation		
			EU: No authorisation		

Active Constituents	Chemical Group	Problem	Comments
Methomyl	1A	Fall armyworm(PER89293)	APVMA: nominated for review Canada: Re-evaluation completed. Majority of uses removed EU: No authorisations in place USA: Under review
Petroleum oil	-	Aphids(PER12221) Green mirids(PER12221) Green vegetable bug(PER12221) Grey cluster bug(PER12221) Leafhoppers(PER12221) Mites(PER12221) Rutherglen bug(PER12221) Thrips(PER12221)	USA. Under review
Propargite	12C	Spider mites	APVMA: nominated for review EU: No authorisations
Spinetoram	5	Caterpillars Helicoverpa Leaf miner(PER91155)	
Spinosad	5	Helicoverpa Fall armyworm(PER89870) Leaf miner(PER90928)	
Trichlorfon	1B	Cabbage moth Green vegetable bug Rutherglen bug	APVMA: nominated for review Codex: No MRLs EU: No authorisations USA: No MRLs

Active Constituents	Chemical	Problem	Comments		
	Group				
DISEASES					
Chlorothalonil	M5	Downy mildew(PER82895)	APVMA: nominated for review		
		Purple blotch(PER82895)	Canada: Cancellation of uses proposed		
			EU: No authorisation in place		
			USA: Under review		
Copper	M1	Leaf diseases	EU: Candidates for substitution		
Mancozeb	M3	Leaf blight	APVMA: nominated for review		
			Canada: Many uses cancelled		
			Codex: To be reviewed 2024/25		
			EU: Authorisation not renewed		
Oxathiapiprolin	49	Downy mildew			
Phosphorous acid	33	Downy mildew(PER13698)			

Active Constituents	Chemical	Comment				
	Group					
WEEDS						
Clopyralid (PER90232 Tas)	4					
Diquat	22	APVMA: Currently under review				
		EU: No authorisation in place				
Fluroxypyr (PER90232 Tas)	4					
Glyphosate	9	Ongoing issues internationally				
		EU: Under review				
Oxyfluorfen (PER90232	14	EU: Candidate for substitution				
Tas)		USA: Interim review decision Label amendments proposed				
Paraquat	22	APVMA: Currently under review				
		Canada: Review initiated				
		EU: No authorisation in place				
		Rotterdam Convention: nomination				

Funding statement: MT20007 - 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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