

Bulb fennel Agrichemical Regulatory Risk Assessment

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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

Fennel bulb regulatory risk assessment

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			
<i>B thuringiensis</i>	11A	Armyworm Helicoverpa Loopers	EU: Under review for renewal
Chlorpyrifos	1B	Spotted vegetable weevil Cutworms Field crickets Mole crickets Vegetable weevil	APVMA: Proposed deletion of uses Codex: MRLs deleted Canada: Cancellation of all uses. EU/UK: No authorisation in place USA: EPA decision to cancel use on food crops
Cyantranilprole	28	Onion (cotton seedling) thrips	
Cyromazine		Leaf miner(PER81867)	EU/UK: No authorisation
Diazinon	1B	Caterpillars	APVMA: Proposed deletion of uses EU/UK: No authorisation in place Codex: MRLs deleted
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/UK: No authorisation

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Active Constituents	Chemical Group	Problem	Comments
Methomyl	1A	Fall armyworm(PER89293)	APVMA: nominated for review Canada: Re-evaluation completed. Majority of uses removed EU/UK: 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)	
Propargite	12C	Spider mites	APVMA: nominated for review EU/UK: No authorisations
Spinetoram	5	Caterpillars	
		Helicoverpa	
		Leaf miner(PER91155)	
Spinosad	5	Helicoverpa	
		Fall armyworm(PER89870)	
		Leaf miner(PER90928)	
Trichlorfon	1B	Cabbage moth	APVMA: nominated for review
		Green vegetable bug	Codex: No MRLs
		Rutherglen bug	EU/UK: No authorisations USA: No MRLs

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Active Constituents	Chemical Group	Problem	Comments
DISEASES			
Chlorothalonil	M5	Downy mildew(PER82895)	APVMA: nominated for review
		Purple blotch(PER82895)	Canada: Cancellation of uses proposed EU/UK: 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 EU/UK: No authorisation
Oxathiapiprolin	49	Downy mildew	
Phosphorous acid	33	Downy mildew(PER13698)	

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Active Constituents	Chemical Group	Comment
WEEDS		
Clopyralid (PER90232 Tas)	4	
Diquat	22	APVMA: Currently under review EU/UK: No authorisation in place
Fluroxypyr (PER90232 Tas)	4	
Glyphosate	9	Ongoing issues internationally EU: Under review
Oxyfluorfen (PER90232 Tas)	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

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