

#### 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 the growing of okra, 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
Abamectin	6	Potato moth	APVMA: Nominated for spray drift label review
		Tomato Red spider mite	Canada: Some uses amended
		Tomato russet mite	EU: Use restricted to permanent greenhouses
		Tomato/ potato psyllid	
		Two-spotted (Red spider) mite	
		Vegetable leafminer(PER81876)	
Afidopyropen	9D	Cabbage aphid	EU/UK: No authorisations in place
		Cotton aphid	
		Currant and lettuce aphid	
		Green peach aphid	
		Silverleaf (Poinsettia) whitefly	
Alpha-cypermethrin	3A	Mediterranean fruit fly(PER80099)	EU/UK: No authorisations in place
		Queensland fruit fly(PER80099)	
Bifenazate	20D	Bryobia mite	Canada: Review initiated
		Two-spotted (Red spider) mite	EU: Use restricted to non-edible crops in permanent greenhouses.
Chlorantraniliprole	28	Eggfruit caterpillar	
		Helicoverpa	
		Potato moth	

Active Constituents	Chemical	Problem	Comments
Chlorantraniliprole +	Group 28 + 4A	Tomato thrips	Thiamethoxam
thiamethoxam		Cluster caterpillar	APVMA: Under review Canada: Some field uses cancelled or amended EU/UK: No authorisations in place
		Green peach aphid	USA: Re-registration with new risk mitigation measures
		Greenhouse whitefly	
		Helicoverpa Potato moth	_
		Silverleaf (Poinsettia) whitefly	4
		Western flower thrips	-
Chlorpyrifos	1B	Cutworm	-APVMA: Proposed deletion of uses.
	10	Crickets (field and mole)	Codex: MRLs revoked
		Vegetable weevil	Canada: Cancellation of all uses.
		Wingless grasshopper	EU/UK: No authorisation in place <sup>i</sup> USA: EPA decision to cancel use on food crops
Cyantraniliprole	28	Green peach aphid	
		Helicoverpa	
		Potato moth	
		Silverleaf (Poinsettia) whitefly	
		Tomato thrips	
		Western flower thrips	
		Tomato/ potato psyllid(PER84805)	

Active Constituents	Chemical	Problem	Comments
	Group		
Cyantraniliprole +	28 + 12A	Cluster caterpillar	Diafenthiuron
diafenthiuron			Codex: No MRLs
		Green peach aphid	EU/UK: No authorisations in place
		Helicoverpa	
		Potato moth	
		Silverleaf (Poinsettia) whitefly	
		Tomato thrips	
		Two-spotted (Red spider) mite	
		Western flower thrips	
Cyromazine	17	Vegetable leafminer(PER81867)	EU/UK: No authorisations in place
Emamectin benzoate	6	Cluster caterpillar	EU: Candidate for substitution
		Helicoverpa	
Fluazaindolizine	N-UN	Root-knot nematodes	EU: Pending
Flubendiamide	28	Helicoverpa	EU: Authorisation expires August 2024
		Potato moth	
Fluensulfone	-	Root-knot nematodes	EU/UK: No authorisations in place
Helicoverpa NPV	31	Helicoverpa	
Imidacloprid	4A	Silverleaf (Poinsettia) whitefly(PER12351)	APVMA: Under review
			Canada: Field uses cancelled or amended
			EU/UK: No authorisations in place
			USA: Re-registration with new risk mitigation measures

Active Constituents	Chemical Group	Problem	Comments
Malathion/Maldison	1B	Aphids	APVMA: Under review
		Loopers	Codex: Re-evaluation scheduled for 2025/26 EU: Restricted use to permanent greenhouses
Methomyl	1A	Cluster caterpillar	APVMA: nominated for review
		Cucumber moth (PER82428)	Canada: Re-evaluation completed. Majority of uses removed EU/UK: No authorisations in place
		Helicoverpa (PER82428)	USA: Under review
		Loopers (PER82428)	
		Rutherglen bug (PER82428)	
		Thrips (PER82428)	
		Webworms (PER82428)	
		Western flower thrips (PER82428)	
Methoxyfenozide	18	Cluster caterpillar	EU: Proposed restricted authorisation & Candidate for substitution
		Helicoverpa	
		Tomato grub	
Methyl bromide	8A	Post-harvest disinfestation (PER80718)	
Petroleum oil	UNM	Greenhouse whitefly(PER12221)	
		Silverleaf (Poinsettia) whitefly(PER12221)	
Pirimicarb	1A	Aphids	Codex: JMPR re-evaluation scheduled EU: Candidate for substitution
Pyriproxyfen	7C	Greenhouse whitefly	
		Silverleaf (Poinsettia) whitefly	

Active Constituents	Chemical	Problem	Comments
	Group		
Spinetoram	5	Helicoverpa	EU: Authorisation expires June 2024
		Potato moth	
		Tomato grub	
		Western flower thrips	
		Tomato/ potato psyllid (PER84757)	
		Vegetable leafminer(PER91155)	
Spinosad	5	Helicoverpa	
		Potato moth	
		Western flower thrips	
		Fall armyworm(PER89870)	
		Vegetable leafminer (PER90928)	
Spodoptera frugiperda NPV	31	Fall armyworm(PER90820)	
Sulfoxaflor	4C	Green peach aphid	USA: Pollinator concerns
		Greenhouse whitefly	EU: Restricted to permanent glasshouses only
		Tomato/ potato psyllid	
Sulphur	M2	Tomato russet mite	
		Two-spotted (Red spider) mite	

Active Constituents	Chemical Group	Problem	Comments
		DISEASES	
Chlorothalonil	M5	Leaf diseases/spots	APVMA: nominated for review Canada: Cancellation of uses proposed EU: EU/UK: No authorisations in place USA: Under review
Hydrogen peroxide + peroxyacetic acid	м	Bactericide (Post-harvest)	
Iodine	М	Bactericide (Post-harvest)	
Mancozeb	M3	Alternaria (PER14593) Anthracnose (PER14593) Downy mildew (PER14593)	APVMA: nominated for review Canada: Many uses cancelled Codex: To be reviewed EU/UK: No authorisations in place
Penthiopyrad	7	Grey mould Powdery mildew Target leafspot	
Streptomyces lydicus	BM02	Powdery mildew	
Sulfur	M2	Powdery mildew	

Active Constituents	Chemical	Comment		
	Group			
	WEEDS			
Diquat	22	APVMA: Currently under review		
		EU/UK: No authorisations in place		
Paraquat	22	APVMA: Currently under review		
		EU/UK: No authorisations in place		
		Rotterdam Convention: nomination		
Plant growth regulators				
Paclobutrazol (PER85896		EU: Candidate for substitution		
seedlings/nursery)				

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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