

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 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: No authorisations
		Cotton aphid	
		Currant and lettuce aphid	
		Green peach aphid	
		Silverleaf (Poinsettia) whitefly	
Alpha-cypermethrin	3A	Mediterranean fruit fly(PER80099)	EU: No authorisations
		Queensland fruit fly(PER80099)	UK: No authorisations
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
	Group		
Chlorantraniliprole + thiamethoxam	28 + 4A	Tomato thrips	Thiamethoxam APVMA: Under review
		Cluster caterpillar	Canada: Some field uses cancelled or amended
		Green peach aphid	EU: Not authorised USA: Re-registration with new risk mitigation measures
		Greenhouse whitefly	OSA. Ne-registration with new risk mitigation measures
		Helicoverpa	
		Potato moth	
		Silverleaf (Poinsettia) whitefly	
		Western flower thrips	
Clothianidin	4A	Mediterranean fruit fly (PER80100)	APVMA: Under review
		Queensland fruit fly(PER80100)	Canada: Field uses cancelled or amended EU: Not authorised
			USA: Re-registration with new risk mitigation measures
Cyantraniliprole	28	Green peach aphid	
		Helicoverpa	
		Potato moth	
		Silverleaf (Poinsettia) whitefly	
		Tomato thrips	
		Western flower thrips	
		Tomato/ potato psyllid(PER84805)	
		Vegetable leafminer (PER90387)	

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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
		Helicoverpa (PER82428)	EU: No authorisations in place USA: Under review
		Loopers (PER82428)	os a chider review
		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	
		Red imported fire ants (PER85163 Qld only)	

Active Constituents	Chemical Group	Problem	Comments
Spinetoram	5 S	Helicoverpa	
•		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: No authorisation in place USA: Under review	
Hydrogen peroxide + peroxyacetic acid	M	Bactericide (Post-harvest)		
lodine	M	Bactericide (Post-harvest)		
Mancozeb	М3	Alternaria (PER14593) Anthracnose (PER14593) Downy mildew (PER14593)	APVMA: nominated for review Canada: Many uses cancelled Codex: To be reviewed 2024/25 EU: Authorisation not renewed	
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: No authorisation in place		
Paraquat	22	APVMA: Currently under review		
		EU: No authorisation in place		
		Rotterdam Convention: nomination		
Plant growth regulators				
Paclobutrazol (PER85896		EU: Candidate for substitution		
seedlings/nursery)				

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