

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 require the generation of new data. A consequence of which can be that many of these chemicals 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 farm chemicals 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 prohibiting the use in the exporting country to ensure compliance, as breaches of MRLs would adversely affect market access.

The effects of the above are greater pressure placed on the availability and use of individual chemicals 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 cherries 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	Comment
	Стоир	INSECT AND OTHER PESTS	
	1		
Acetamiprid + novaluron	4A + 15	Black peach aphid	Acetamiprid
		Fruit flies	APVMA: Under review
		Green peach aphid	Novaluron:
		Oriental fruit moth	EU: No authorisations in place
		San Jose scale	
		Light brown apple moth	
Bifenthrin	3A	Dried fruit beetle	Canada: Not authorised
		Carpophilus beetle(PER82062)	EU: Not authorised
		Brown marmorated stink bug (PER82374 Biosecurity permit)	
Chlorantraniliprole	28	Light brown apple moth	
		Oriental fruit moth	
		Fall armyworm (PER89259)	
Chlorpyrifos	1B	European earwig	APVMA: Under review.
		Light brown apple moth	Codex: Scheduled for review by JMPR
		Queensland fruit fly	Canada: Cancellation of all uses.
		San Jose scale	EU: No authorisation in place
		Locusts(PER11843)	USA: EPA decision to cancel use on food crops

Active Constituents	Chemical Group	Problem	Comment
Clofentezine	10A	Bryobia mite	EU: No authorisation
	<u> </u>	European red mite	
		Two-spotted (Red spider) mite	
Clothianidin	4A	Fruit flies	APVMA: Under review
			Canada: Field uses cancelled or amended
			EU: Not authorised
			USA: Re-registration with new risk mitigation measures
Cydia pomonella granulosis virus	31	Oriental fruit moth	
Deltamethrin/MagMED	3A	Mediterranean fruit fly(PER90359 – WA) Use as trap toxicant	
Diazinon	1B	Green peach aphid	APVMA: Under review
		San Jose scale	EU: No authorisation in place
		Black Cherry aphid (PER84533)	Codex: Withdrawal of Codex MRLs recommended
Dimethoate	1B	Fruit flies(PER13859) Post-harvest orchard clean-up	Codex: MRL deletion recommended.
			EU: Not authorised
Etoxazole	10B	Two-spotted (Red spider) mite	EU: Only uses on greenhouse ornamentals approved &
			Candidate for substitution
Fenitrothion	1B	Locusts	EU: No authorisation in place
		Small plague grasshopper	
		Wingless grasshopper	
Fipronil	2B	European earwig	APVMA: Under review
			Codex: Re-evaluation completed, many MRLs withdrawn
			EU: No authorisation in place
			USA: Under review
Hexythiazox	10A	European red mite	
		Two-spotted (Red spider) mite	
Imidacloprid	4A	Black peach aphid	APVMA: Under review
		Green peach aphid	Canada: Field uses cancelled or amended
		Pear and cherry slug	EU: No authorisation. Grace period end June 2022
			USA: Re-registration with new risk mitigation measures

Active Constituents	Chemical Group	Problem	Comment
Indoxacarb	22A	European earwig(PER11002)	Canada: No authorisation
			EU: No authorisation
Lambda-cyhalothrin	3A	Fruit flies(PER12961 – SA Biosecurity) (Soil drench)	UK: No authorisation EU: Candidate for substitution
Malathion/Maldison	1B	Fruit flies	APVMA: Under review
Walathion/Waldison	10		Codex: Re-evaluation scheduled for 2023/24
		Black peach aphid	EU: Restricted use to permanent greenhouses
		Cherry aphid	Lo. Restricted use to permanent greenhouses
		European red mite	_
		Green peach aphid	
		Oriental fruit moth	
		Rutherglen bug	
		Wingless grasshopper	
		Locusts(PER11843)	
Methomyl	1A	Green peach aphid	APVMA: nominated for review
		Helicoverpa	Canada: Re-evaluation completed. Majority of uses removed
		Red-shouldered leaf beetle	EU: No authorisations in place
		Thrips	USA: Under review
Milbemectin	6	Two-spotted (Red spider) mite	
Paraffinic/petroleum oil	UNM	Bryobia mite	
		European red mite	
		Mites	
		San Jose scale	
		Scale insects (Frosted, Oystershell & pear)	
		Spider mites	
		Two-spotted (Red spider) mite	
Pirimicarb	1A	Black peach aphid	Codex: JMPR re-evaluation scheduled
		Cherry aphid	EU: Candidate for substitution
		Green peach aphid	

Active Constituents	Chemical Group	Problem	Comment
Propargite	12C	European red mite	APVMA: nominated for review
		Mites	EU: No authorisations
		Two-spotted (Red spider) mite	
Pymetrozine	9B	Black peach aphid	Canada: Restricted use to glasshouses only
		Green peach aphid	Codex: No registrant support
			EU: Not authorised
Pyrethrins	3A	Black citrus aphid	Canada: Under review
		Caterpillars	
		Fruit flies	
		Green peach aphid	
		Greenhouse whitefly	
		Light brown apple moth	
		Pear and cherry slug	
		Plague thrips	
		Rutherglen bug	
Spinetoram	5	Caterpillars	
		Light brown apple moth	
		Oriental fruit moth	
		Pear and cherry slug	
		Western flower thrips	
		Fruit flies(PER12590)	
Spinosad	5	Light brown apple moth	
		Oriental fruit moth	
		Pear and cherry slug	
		Western flower thrips	

Active Constituents	Chemical	Problem	Comment
	Group		
Spirotetramat	23	Black peach aphid	
		Cherry aphid	
		Longtailed Mealybugs	
		San Jose scale	
		Tuber mealybug	
		Western flower thrips(PER84804)	
Sulfoxaflor	4C	Apple dimpling bug	USA: Pollinator concerns
		Black peach aphid	EU: Restricted to permanent glasshouses only
		Cherry aphid	
		Green peach aphid	
Sulfur	UN	San Jose scale	
Tau-fluvalinate	3A	Plague thrips	
Thiacloprid	4A	Green peach aphid	APVMA: Under review
		Oriental fruit moth	EU: No authorisation in place
		Mediterranean fruit fly(PER14562)	USA: No authorisation
Trichlorfon	1B	Rutherglen bug	APVMA: nominated for review
		Queensland fruit fly	Codex: No MRLs
		Fruit flies(PER80542)	EU: No authorisations

Active Constituents	Chemical Group	Problem	Comment			
	DISEASES					
Agrobacterium radiobacter		Crown gall				
Bacillus amyloquefaciens	BM02	Bacterial canker/blast (PER88559)				
		Bacterial spot (PER88559)				
		Blossom blight(PER88559)				
		Brown spot (Alternaria) (PER88559)				
		Grey mould (Botrytis) (PER88559)				
BLAD	BM01	Blossom blight				
		Brown rot				
Captan	M4	Blossom blight	EU: Under review proposed restriction to use in permanent			
		Brown rot	greenhouses only			
			USA: Under review			
Chlorothalonil	M5	Blossom blight	APVMA: nominated for review			
		Brown rot	Canada: Proposed cancellation of all use EU: No authorisation in place			
		Freckle and scab	USA: Under review			
		Rust	OSA. Officer review			
		Shot hole				
		Transit rot				
Copper	M1	Bacterial canker/blast	EU: Candidates for substitution			
		Bacterial spot				
		Blossom blight				
		Brown rot				
		Freckle and scab				
		Leaf curl				
		Rust				
		Shot hole				

Active Constituents	Chemical Group	Problem	Comment
Dithianon	M9	Brown rot	EU: Restricted use to non-edible crops
		Freckle and scab	
		Shot hole	
Fenhexamid (PER88787)	17	Grey mould (Botrytis)	
Fludioxonil (Po)	12	Brown rot	EU: Under review & candidate for substitution
		Grey mould (Botrytis)	
		Transit rot	
Fluopyram + trifloxystrobin	7 + 11	Blossom blight	Trifloxystrobin
		Brown rot	Canada: Under review
		Shot hole	
Fluxapyroxad + pyraclostrobin	7 + 11	Blossom blight	<u>Pyraclostrobin</u>
			Canada: Review initiated
Iprodione	2	Blossom blight	Canada: Majority of food crop uses deleted
		Brown rot	Codex: Review scheduled
		Transit rot	EU: No authorisation in place USA: Proposed deletion or restriction of uses
Mancozeb	M3	Blossom blight	APVMA: nominated for review
Wallcozes	WiS	Brown rot	Canada: Many uses cancelled
		Freckle and scab	Codex: To be reviewed 2023/24
		Rust	EU: Authorisation not renewed
		Shot hole	_
Mandestrobin	11	Blossom blight	
Wallacstrobili	11	Brown rot	
Metiram	M3	Rust	APVMA: nominated for review
ivietii alli	IVIS	Shot hole	Canada: All foliar uses other than potato, cancelled
		Shot hole	Codex: To be reviewed 2023/24
			EU: Under review

Active Constituents	Chemical Group	Problem	Comment
Penthiopyrad	7	Blossom blight	
		Brown rot	
		Freckle and scab	
Procymidone	2	Blossom blight	APVMA: Review in progress
			Codex: No MRLs
			EU: No authorisations
Propiconazole	3	Blossom blight	APVMA: nominated for review
		Brown rot	EU: No authorisations
			USA: Under review
Sulfur	M2	Freckle and scab	
		Rust	
		Blossom blight	
Tebuconazole	3	Silverleaf	APVMA: nominated for review
			Canada: Under review
			EU: Candidate for substitution
			USA: Under review
Thiram	M3	Brown rot	APVMA: nominated for review
		Freckle and scab	Canada: Cancelled all foliar uses (2021)
		Shot hole	Codex: To be reviewed 2023/24
			EU: No authorisation in place
Triforine	3	Brown rot	APVMA: nominated for review
			Canada: Review completed 2019 – use acceptable
			EU: No authorisation
Ziram	M3	Blossom blight	APVMA: nominated for review
		Brown rot	Canada: Cancelling of all uses
		Freckle and scab	Codex: To be reviewed 2023/24 EU: Candidate for substitution
		Leaf curl	EU. Candidate for substitution
		Shot hole	

Active Constituents	Chemical	Comment			
	Group				
	WEEDS				
2,2-DPA	0	EU: No authorisations in place			
2,4-D	4				
Carfentrazone-ethyl	14				
Diquat	22	APVMA: Currently under review			
		EU: No authorisation in place			
Fluazifop-P	1				
Flumioxazin	14	EU: Candidate for substitution			
	9	Canada: Review proposed			
Glufosinate-ammonium		EU: No authorisation in place			
	10	Ongoing issues internationally			
Glyphosate		EU: Under review			
Haloxyfop-P	1	EU: No authorisation			
Isoxaben	29				
Napropamide	0				
Norflurazon	12	EU: No authorisation			
Oryzalin	3	EU: No authorisation			
Oxyfluorfen	14	EU: Candidate for substitution			
Paraquat	22	APVMA: Currently under review			
		Canada: Review initiated			
		EU: No authorisation in place			
		Rotterdam Convention - nomination			
		PLANT GROWTH REGULATORS			
6-benzyladenine					
AVG as HCl salt		EU: No authorisation			
Ethephon					
Fatty acid esters-canola					
Gibberellic acid					
Paclobutrazol		EU: Candidate for substitution			
Prohexadione-calcium					

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Communications Manager

Hort Innovation

Level 7, 141 Walker Street North Sydney NSW 2060

Australia

Email: communications@horticulture.com.au

Phone: 02 8295 2300