

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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

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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
INSECT AND OTHER PESTS			
Abamectin	6	Two-spotted spider mite & Banana spotted mite	EU: Restricted use to permanent greenhouses
Acetamiprid + pyriproxyfen	4A+ 7C	Banana-spotting bug (PER89943)	Acetamiprid APVMA: Under review EU: Under review
		Fruit Fly (PER89943)	
		Fruit-spotting bug (PER89943)	
		Mealybugs (PER89943)	
		Scale insects (PER89943)	
Beta-cyfluthrin	3A	Banana-spotting bug	EU: No authorisation in place
		Flatid planthoppers	
		Fruit-spotting bug	
		Green vegetable bug	
		Litchi stink bug	
		Mango shoot caterpillar	
		Elephant/Rhinoceros beetle(PER80374)	
		Fig longicorn/ trunk borer(PER80374)	
		Red shouldered leaf beetle(PER80374)	
		Swarming leaf beetles(PER80374)	
Yellow peach moth(PER80374)			

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Active Constituents	Chemical Group	Problem	Comment
Buprofezin	16	Mealybugs Scale insects	EU: MRLs set to limit of quantification
Chlorpyrifos	1B	Ants	APVMA: Under review Codex: All MRLs revoked Canada: Cancellation of all uses. EU: No authorisation in place USA: EPA decision to cancel use on food crops
Clothianidin	4A	Citrus mealybug (PER84992)	APVMA: Under review Canada: Field uses cancelled or amended EU: Not authorised USA: Re-registration with new risk mitigation measures
Dimethoate	1B	Fruit Fly(PER13859) (Orchard clean-up)	Codex: No MRL. EU: Not authorised
Etoxazole	10B	Two-spotted spider mite & Strawberry spider mite(PER14227)	EU: Only uses on greenhouse ornamentals approved & Candidate for substitution
Flupyradifurone	4D	Banana spotting bug/Fruit spotting bugs Green plant hopper Mango plant hopper	EU: Under review
Fipronil	2B	Ants(PER87605)	APVMA: Under review Codex: No MRL EU: No authorisation in place USA: Under review
Maldison (lures)	1B	Fruit Fly	APVMA: Under review Codex: Re-evaluation scheduled EU: Use restricted to permanent greenhouses
Methoxyfenozide	18	Yellow peach moth	EU: Proposed restricted authorisation & Candidate for substitution
Paraffinic oil/ petroleum oil	UN	Scale insects	
Pyrethrins	3A	Fruit Fly	Canada: Under review
Pyriproxyfen	7C	Ants	

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Active Constituents	Chemical Group	Problem	Comment
Spinetoram	5	Flower eating caterpillars	
		Leafroller caterpillars	
		Loopers	
		Sorghum head caterpillar	
		Yellow peach moth	
Spinosad	5	Avocado leafroller	
		Flower eating caterpillars	
		Ivy leaf roller	
		Lightbrown apple moth	
		Loopers	
		Sorghum head caterpillar	
		Yellow peach moth	
		Fall armyworm(PER89870)	
Sulfoxaflor	4C	Banana-spotting bug	USA: Pollinator concerns EU: Restricted to permanent glasshouses only
		Citrus mealybug (PER86598)	
		Fruit-spotting bug	
Tebufenozide	18	Yellow peach moth	
Trichlorfon	1B	Fruit Fly (PER12450)	APVMA: nominated for review Codex: No MRLs EU: No authorisations USA: No MRLs
		Banana-spotting bug (PER14743)	
		Flatid planthoppers (PER14743)	
		Flower eating caterpillars (PER14743)	
		Fruit-spotting bug (PER14743)	
		Green vegetable bug (PER14743)	
		Litchi stink bug (PER14743)	
		Loopers (PER14743)	
		Yellow peach moth	

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Active Constituents	Chemical Group	Problem	Comment
DISEASES			
Copper	M1	Anthracnose	EU: Candidates for substitution
		Purple blotch	
		Pseudocercospora	
DDAC		Sanitizer	EU: No authorisation in place
Fluopyram + tebuconazole	7 + 3	Anthracnose	Tebuconazole APVMA: nominated for review Canada: Under review EU: Under review. Candidate for substitution USA: Under review
Mancozeb	M3	Anthracnose	APVMA: nominated for review Canada: Many uses cancelled Codex: To be reviewed 2024/25 EU: Authorisation not renewed
		Pseudocercospora	
Phosphorous acid	33	Phytophthora (PER13807)	
Prochloraz	3	Anthracnose (PER83212)	Codex: Periodic re-evaluation scheduled EU: No authorisation
Pyraclostrobin	11	Pseudocercospora leaf spot (PER13952)	Canada: Review initiated

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Active Constituents	Chemical Group	Comment
WEEDS		
Carfentrazone-ethyl	14	
Clethodim (non-bearing trees)	1	Codex: MRLs proposed for deletion
Diquat	22	APVMA: Currently under review EU: No authorisation in place
Fluazifop-P	1	
Glyphosate	9	Ongoing issues internationally EU: Under review
Haloxyfop-P	1	EU: No authorisation in place
Isoxaben	29	
Oryzalin	3	EU: No authorisation in place
Oxyfluorfen	14	EU: Candidate for substitution USA: Interim review decision Label amendments proposed
Paraquat	22	APVMA: Currently under review Canada: Under review EU: Not authorised Rotterdam Convention - nominated
PLANT GROWTH REGULATOR		
Uniconazole-P (PER13951)		EU: No authorisation in place

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