

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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

## Passionfruit Agrichemical Regulatory Risk Assessment

<b>R1</b>	Short-term: Critical concern over retaining access
<b>R2</b>	Medium-term: Maintaining access of significant concern
<b>R3</b>	Long-term: Potential issues associated with use: Monitoring required

Active Constituents	Chemical group	Problem	Comment
<b>INSECT AND OTHER PESTS</b>			
Abamectin	6	Passionvine mite	APVMA: Nominated for spray drift label review Canada: Some uses amended, & use in greenhouse grown cut flowers cancelled EU: Use restricted to permanent greenhouses
		Two-spotted mite	
Acetamiprid + pyriproxyfen	4A + 7C	Fruit-spotting bugs (PER89943)	Acetamiprid <a href="#">APVMA: Under review</a>
		Fruit flies (PER89943)	
		Leaf hoppers (PER89943)	
		Mealybug (PER89943)	
<i>Bacillus thuringiensis</i>	11C	Susceptible Lepidoptera	EU: Under review for renewal
Buprofezin	16	Mealybug	EU: MRLs set to limit of quantification
		Scale insects	
Chlorpyrifos (Bait spray)	1B	Queensland fruit fly	<a href="#">APVMA: Under review</a> Codex: All MRLs revoked Canada: Cancellation of all uses. EU: No authorisation in place USA: EPA decision to cancel use on food crops
Dimethoate	1B	Aphids	Codex: No MRLs. EU: Not authorised
		Fruit flies (PER13895 After harvest Orchard clean-up)	
Etoxazole	10B	Passionvine mite (PER88379)	EU: Only uses on greenhouse ornamentals approved & Candidate for substitution EU: MRLs set to limit of quantification
		Two-spotted mite (PER88379)	

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Active Constituents	Chemical group	Problem	Comment
Fenbutatin oxide	12B	Passionvine mite (PER90591)	<a href="#">APVMA: nominated for review</a> Codex: To be reviewed by JMPR. No supporting registrant EU: No authorisation in place USA: Under review
		Two-spotted mite (PER90591)	
Flupyradifurone	4D	Banana spotting bug/Fruit spotting bugs	EU: Under review
		Green plant hopper	
		Mango plant hopper	
Lambda-cyhalothrin	3A	Fruit flies (PER12961 – SA Biosecurity) (Soil drench)	EU: Candidate for substitution
Malathion/maldison	1B	Fruit flies	<a href="#">APVMA: Under review</a> Codex: Re-evaluation scheduled for 2025/26 EU: Restricted use to permanent greenhouses
Paraffinic oil	UNM	Hemispherical scale	
		Passionvine mealybug	
		Red scale	
		Two-spotted mite (PER14662)	
Propargite	12C	Passionvine mite	<a href="#">APVMA: nominated for review</a> EU: No authorisations
Pyrethrins	3A	Ants	Canada: Under review
		Aphids	
		Caterpillars	
		Leafhoppers	
		Thrips	
Spinetoram	5	Flower eating caterpillars	
		Leafroller caterpillars	
		Loopers	
		Redbanded thrips	
		Sorghum head caterpillar	
		Yellow peach moth	

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Active Constituents	Chemical group	Problem	Comment
Spinosad	5	Flower eating caterpillars	
		Leafroller caterpillars	
		Loopers	
		Redbanded thrips	
		Sorghum head caterpillar	
		Yellow peach moth	
		Fall armyworm (PER89870)	
Spirotetramat	23	Citrus mealybug	
		Red scale	
Sulfoxaflor	4C	Banana-spotting bug/Fruit-spotting bug	USA: Pollinator concerns EU: Restricted to permanent glasshouses only
		Black scale	
		Citrus snow scale	
		Red scale	
		Citrus mealy bug	
		Longtailed mealy bug	
		Passionvine mealybug	
Trichlorfon	1B	Green vegetable bug	<a href="#">APVMA: nominated for review</a> Codex: No MRLs EU: No authorisations USA: No MRLs
		Passion vine bug	
		Fruit flies (PER12450)	

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<b>DISEASES</b>			
Azoxystrobin	<b>11</b>	Alternaria spot Scab	Canada: Proposed review
Copper	<b>M1</b>	Alternaria spot Brown spot Phytophthora blight Root and collar rot Septoria spot Trunk canker	EU: Candidates for substitution
Fluopyram + trifloxystrobin	<b>7 + 11</b>	Brown spot Septoria spot	
Iprodione	<b>2</b>	Alternaria spot Brown spot	Canada: Majority of food crop uses deleted Codex: Review scheduled EU: No authorisation in place USA: Proposed deletion or restriction of uses
Mancozeb	<b>M3</b>	Alternaria spot Brown spot Septoria spot	<a href="#">APVMA: nominated for review</a> Canada: Many uses cancelled Codex: To be reviewed 2024/25 EU: Authorisation not renewed
Phosphorous acid	<b>33</b>	Phytophthora blight (PER87607)	
Pyraclostrobin	<b>11</b>	Anthracnose (PER12781) Septoria spot (PER12781)	Canada: Under review

## Passionfruit Agrichemical Regulatory Risk Assessment

Active Constituents	Chemical Group	Comment
<b>WEEDS</b>		
Clethodim (Non-bearing vines)	<b>1</b>	Codex: MRLs proposed for deletion
Diquat	<b>22</b>	<a href="#">APVMA: Currently under review</a> EU: Not authorised
Fluazifop	<b>1</b>	
Glufosinate	<b>10</b>	Canada: Review proposed EU: No authorisation in place
Glyphosate (PER14421)	<b>9</b>	Ongoing issues internationally EU: Under review
Haloxyfop-P	<b>1</b>	EU: No authorisation in place
Oryzalin	<b>3</b>	EU: No authorisation in place
Oxyfluorfen	<b>14</b>	EU: Candidate for substitution USA: Interim review decision Label amendments proposed
Paraquat	<b>22</b>	<a href="#">APVMA: Currently under review</a> Canada: Review initiated EU: No authorisation in place Rotterdam Convention - nomination

**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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