

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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

## Persimmon Agrichemical Regulatory Risk Assessment

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

Active Constituents	Chemical group	Problem	Comment
<b>INSECT AND OTHER PESTS</b>			
Acetamiprid + pyriproxyfen	<b>4A + 7C</b>	Fruit flies (PER89943)	Acetamiprid <a href="#">APVMA: Under review</a>
		Fruit-spotting bugs (PER89943)	
		Light brown apple moth (PER89943)	
		Mealybug (PER89943)	
		Scale insects (PER89943)	
Beta-cyfluthrin	<b>3A</b>	Elephant/Rhinoceros beetle (PER80374)	EU: No authorisation
		Fig longicorn/ trunk borer (PER80374)	
		Flatid planthoppers (PER80374)	
		Fruit-spotting bugs (PER80374)	
		Green vegetable bug (PER80374)	
		Litchi stink bug (PER80374)	
		Red shouldered leaf beetle (PER80374)	
		Swarming leaf beetles (PER80374)	
		Yellow peach moth (PER80374)	
Bifenthrin	<b>3A</b>	Termites (non-bearing during tree establishment)	Canada: Not authorised EU: Not authorised

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Active Constituents	Chemical group	Problem	Comment
Buprofezin	16	Mealybug Scale insects	EU: MRLs set to limit of quantification
Chlorpyrifos	1B	Cluster caterpillar (PER13932) Mealybug (PER14547)	<a href="#">APVMA: Under review.</a> Codex: MRLs revoked Canada: Cancellation of all uses. EU: No authorisation in place USA: EPA decision to cancel use on food crops
Clothianidin (FSANZ MRL for American persimmons only)	4A	Fruit flies Mealybug (PER14779)	<a href="#">APVMA: Under review</a> Canada: Field uses cancelled or amended EU: Not authorised USA: Re-registration with new risk mitigation measures
Dimethoate	1B	Fruit flies(PER13859) (After harvest Orchard clean-up)	Codex: No MRL. EU: Not authorised
Ethyl formate (Po)	8A	Light brown apple moth Longtailed mealybug Plague thrips Red back spider Western flower thrips Two-spotted mites	EU: No authorisation
Fonicamid (Japanese persimmons) (No relevant MRL in the FSANZ Food Code)	29	Mealybug (PER89215) Redbanded thrips (PER89215) Thrips (PER89215) Western flower thrips (PER89215)	
Helicoverpa NPV	31	Helicoverpa species	

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Lambda-cyhalothrin	<b>3A</b>	Fruit flies (PER12961 – SA Biosecurity) (Soil drench)	EU: Candidate for substitution
Malathion/maldison	<b>1B</b>	Fruit flies	<a href="#">APVMA: Under review</a> Codex: Re-evaluation scheduled for 2025/26 EU: Use restricted to permanent greenhouses
Methomyl	<b>1A</b>	Thrips (PER14548)	<a href="#">APVMA: nominated for review</a> Canada: Re-evaluation completed. Majority of uses removed EU: No authorisations in place USA: Under review
Methoxyfenozide	<b>18</b>	Loopers	EU: Proposed restricted authorisation & Candidate for substitution
		Leafroller caterpillars (PER12591)	
		Light brown apple moth (PER12591)	
		Orange fruit borer (PER12591)	
Paraffinic/ petroleum oil	<b>UNM</b>	Scale insects (PER13933)	
Pyrethrins	<b>3A</b>	Fruit flies	Canada: Under review
Pyriproxyfen	<b>7C</b>	Ants (Invasive and nuisance ants)	
Spinetoram	<b>5</b>	Flower eating caterpillars	
		Helicoverpa species	
		Leafroller caterpillars	
		Light brown apple moth	
		Loopers	
		Redbanded thrips	
		Western flower thrips	
		Yellow peach moth	
		Fruit flies (PER12590)	

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Spinosad (No relevant MRL in the FSANZ Food Code)	5	Flower eating caterpillars	
		Helicoverpa species	
		Leafroller caterpillars	
		Light brown apple moth	
		Loopers	
		Redbanded thrips	
		Western flower thrips	
		Yellow peach moth	
Sulfoxaflor	4C	Mealybug (PER87067)	USA: Pollinator concerns EU: Restricted to permanent glasshouses only
		Banana spotting bug	
		Fruit spotting bug	
		Mealybug	
		Scale insects	
Tetraniliprole	28	Apple weevil	
		Codling moth	
		Fuller's rose weevil	
		Garden weevil	
		Light brown apple moth	
Trichlorfon (Persimmons)	1B	Fruit flies(PER12450)	<a href="#">APVMA: nominated for review</a> Codex: No MRLs EU: No authorisations USA: No MRLs
		Flatid planthoppers (PER14743)	
		Flower eating caterpillars (PER14743)	
		Fruit-spotting bugs (PER14743)	
		Green vegetable bug (PER14743)	
		Litchi stink bug (PER14743)	
		Loopers (PER14743)	
		Yellow peach moth (PER14743)	

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<b>DISEASES</b>			
Chlorothalonil (Persimmons)	<b>M5</b>	Cercospora leaf spot(PER13445)	<a href="#">APVMA: nominated for review</a> Canada: Proposed cancellation of uses EU: Not authorised USA: Under review
Difenoconazole (Japanese persimmons) <i>(No relevant MRL in the FSANZ Food Code)</i>	<b>3</b>	Cercospora leaf spot(PER87599)	<a href="#">APVMA: nominated for review</a> EU: Candidate for substitution USA: Under review
Fluopyram + tebuconazole	<b>7 + 3</b>	Anthraco nose (American persimmons)	Tebuconazole <a href="#">APVMA: nominated for review</a> EU: Under review & Candidate for substitution
Fluopyram + trifloxystrobin	<b>7 + 11</b>	Anthraco nose (Japanese persimmon)	
Mancozeb (Persimmons)	<b>M3</b>	Cercospora leaf spot(PER12488)	<a href="#">APVMA: nominated for review</a> Canada: Reviewed, many uses cancelled Codex: To be reviewed 2024/25 EU: No authorisation

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Active Constituents	Chemical Group	Comment
<b>WEEDS</b>		
Carfentrazone-ethyl (Persimmons)	<b>14</b>	
Clethodim (non-bearing)	<b>1</b>	Codex: MRLs proposed for deletion
Diquat (Persimmons)	<b>22</b>	<a href="#">APVMA: Currently under review</a> EU: No authorisation
Fluazifop-P (Persimmons)	<b>1</b>	
Flumioxazin (Persimmons)	<b>14</b>	EU: Candidate for substitution
Glyphosate (Persimmons)	<b>9</b>	EU: Under review Ongoing issues internationally
Haloxyfop-P (Persimmons)	<b>1</b>	EU: No authorisation
Oryzalin (Non-bearing)	<b>3</b>	EU: No authorisation
Oxyfluorfen (American persimmon)	<b>14</b>	EU: Candidate for substitution USA: Interim review decision Label amendments proposed
Paraquat (Persimmons)	<b>22</b>	<a href="#">APVMA: Currently under review</a> Canada: Under review EU: No authorisation Rotterdam Convention - nominated
<b>PLANT GROWTH REGULATORS</b>		
1-Methylcyclopropene (Persimmons)		Post-harvest

## Persimmon Agrichemical Regulatory Risk Assessment

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