

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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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

## Prune 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>			
Acequinocyl	<b>20B</b>	Two-spotted (Red spider) mite	
Acetamiprid + novaluron	<b>4A + 15</b>	Black peach aphid	Acetamiprid <a href="#">APVMA: Under review</a> Novaluron EU: No authorisation in place
		Fruit flies	
		Green peach aphid	
		Lightbrown apple moth	
		Oriental fruit moth	
		San Jose scale	
Alpha-cypermethrin	<b>3A</b>	Apple weevil	EU: Not renewed, grace period expired December 2022 UK: Approval withdrawn
		Garden weevil	
		Fruit flies (PER91059)	
Bifenazate	<b>20D</b>	Bryobia mite	Canada: Review initiated EU: Use restricted to non-edible crops in permanent greenhouses.
		European red mite	
		Two-spotted (Red spider) mite	
Bifenthrin	<b>3A</b>	Carpophilus beetle	Canada: Not authorised EU: Not authorised
		Dried fruit beetles	

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Active Constituents	Chemical Group	Problem	Comment
Carbaryl	1A	European earwig	Canada: Reviewed, large number of uses deleted Codex: Review scheduled, support uncertain EU: Authorisation not renewed USA: Under review
		Fruit-tree borer	
		Green treehopper	
		Helicoverpa species	
		Lightbrown apple moth	
		Orange fruit borer	
		Oriental fruit moth	
		Redshouldered leaf beetle	
		Wingless grasshopper	
Chlorantraniliprole	28	Black cutworm	
		Lightbrown apple moth	
		Oriental fruit moth	
Chloropicrin + methyl bromide	8B + 8A	Stored product insect pests	Chloropicrin EU: No authorisation Methyl bromide EU: No authorisation
<b>Chlorpyrifos</b>	1B	European earwig	<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
		Lightbrown apple moth	
		San Jose scale	
		Queensland fruit fly(Bait spray)	
		Locusts (PER11843)	
Clofentezine	10A	Bryobia mite	EU: No authorisation
		European red mite	
		Two-spotted (Red spider) mite	
Clothianidin	4A	Fruit flies	<a href="#">APVMA: Under review</a> Canada: Field uses cancelled or amended EU: Not authorised USA: Re-registration with new risk mitigation measures
		Carpophilus beetle	
<i>Cydia pomonella</i> granulosis virus	31	Oriental fruit moth	

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Active Constituents	Chemical Group	Problem	Comment
Diazinon	1B	Cherry aphid	APVMA: <a href="#">Under review</a> EU: No authorisation in place Codex: Withdrawal of Codex MRLs recommended
		Green peach aphid	
		San Jose scale	
Dimethoate	1B	Fruit flies(PER13859) (Post-harvest orchard clean-up treatment)	Codex: No MRLs. EU: Not authorised
Ethyl formate	8A	Stored dried fruit insect pests	EU: No authorisation in place
Etofenprox	3A	Fruit flies	EU: Candidate for substitution
Etoxazole	10B	Bryobia mite	EU: Uses on greenhouse ornamentals only & Candidate for substitution
		European red mite	
		Two-spotted (Red spider) mite	
Fipronil	2B	Queensland fruit fly	<a href="#">APVMA: Under review</a> Codex: Re-evaluation underway EU: No authorisation in place USA: Under review
Hexythiazox	10A	European red mite	
		Two-spotted (Red spider) mite	
Imidacloprid	4A	Black peach aphid	<a href="#">APVMA: Under review</a> Canada: Field uses cancelled or amended EU: No authorisation USA: Re-registration with new risk mitigation measures
		Green peach aphid	
Indoxacarb	22A	Apple weevil	Canada: No authorisation EU: Authorisation not renewed. Grace period expires 19/9/2022 UK: Proposed non-renewal
		Fuller's rose weevil	
		Garden weevil	
		Helicoverpa species	
		Lightbrown apple moth	
		Oriental fruit moth	
		Wingless grasshopper	

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Active Constituents	Chemical Group	Problem	Comment
Lambda-cyhalothrin	3A	Fruit flies(PER12961 – SA Biosecurity) (Soil drench)	EU: Candidate for substitution
Malathion/maldison	1B	Black peach aphid	<a href="#">APVMA: Under review</a> Codex: Re-evaluation scheduled for 2025/26 EU: Restricted use to permanent greenhouses
		Cherry aphid	
		European red mite	
		Fruit flies	
		Green peach aphid	
		locust (PER11843)	
		Oriental fruit moth	
		Rutherglen bug	
		Wingless grasshopper	
Methomyl	1A	Green peach aphid	<a href="#">APVMA: nominated for review</a> Canada: Re-evaluation completed. Majority of uses removed EU: No authorisations in place USA: Under review
		Helicoverpa species	
		Redshouldered leaf beetle	
		Thrips	
Methyl bromide	8A	Quarantine & Pre-shipment	EU: No authorisation
Milbemectin	6	Two-spotted (Red spider) mite	
Paraffinic oil/petroleum oil	UNM	European red mite	
		Bryobia mite	
		Frosted scale	
		Mites	
		Oystershell scale	
		Pear scale	
		San Jose scale	
		Scale insects	
		Spider mites (Red spider)	
		Two-spotted (Red spider) mite	
Phosphine (PH <sub>3</sub> )	24A	Storage pests	Codex: To be reviewed
Pirimicarb	1A	Black peach aphid	Codex: JMPR re-evaluation scheduled EU: Candidate for substitution
		Cherry aphid	
		Green peach aphid	

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Active Constituents	Chemical Group	Problem	Comment
Propargite	12C	European red mite	<a href="#">APVMA: nominated for review</a> EU: No authorisations
		Mites	
		Two-spotted (Red spider) mite	
Pymetrozine	9B	Black peach aphid	Canada: Restricted use to glasshouses only Codex: No registrant support EU: Not authorised
		Green peach aphid	
Pyrethrins	3A	Cabbage white butterfly	Canada: Under review
		Caterpillars	
		Fruit flies	
		Grapevine moth	
		Green peach aphid	
		Helicoverpa species	
		Lightbrown apple moth	
		Plague thrips	
		Rutherglen bug	
Spinetoram	5	Caterpillars	
		Lightbrown apple moth	
		Oriental fruit moth	
		Pear and cherry slug	
		Western flower thrips	
		Fruit flies(PER12590)	
Spinosad	5	Lightbrown apple moth	
		Oriental fruit moth	
		Pear and cherry slug	
		Western flower thrips	

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Active Constituents	Chemical Group	Problem	Comment
Spirotetramat	23	Black peach aphid	
		Cherry aphid	
		Longtailed mealybug	
		San Jose scale	
		Tuber mealybug	
		Western flower thrips(PER84804)	
Sulfoxaflor	4C	Apple dimpling bug(Yellow mirid)	USA: Pollinator concerns EU: Use restricted to permanent glasshouses only
		Black peach aphid	
		Cherry aphid	
		Green peach aphid	
Sulfur	UN	Bryobia mite	
		Frosted scale	
		San Jose scale	
Sulfuryl fluoride	8C	All life stages of stored product pests	
Tau-fluvalinate	3A	Plague thrips	
Tebufenpyrad	21A	European red mite	EU: Candidate for substitution
		Two-spotted (Red spider) mite	
Tetraniliprole	28	Apple weevil	EU: Not authorised
		Dried fruit beetles	
		Fuller's rose weevil	
		Garden weevil	
		Mediterranean fruit fly	
		Oriental fruit moth	
Thiacloprid	4A	Green peach aphid	<a href="#">APVMA: Under review</a> EU: No authorisation in place USA: No authorisation
		Oriental fruit moth	
		Mediterranean fruit fly(PER14562)	
Trichlorfon	1B	Queensland fruit fly	<a href="#">APVMA: nominated for review</a> Codex: No MRLs EU: No authorisations USA: No MRLs
		Rutherglen bug	
		Fruit flies(PER14683)	

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Active Constituents	Chemical Group	Problem	Comment
<b>DISEASES</b>			
<i>Agrobacterium radiobacter</i>	<b>NC</b>	Crown gall	
BLAD	<b>BM01</b>	Blossom blight	
		Brown rot	
Captan	<b>M4</b>	Brown rot	EU: Under review proposed restriction to use in permanent greenhouses only USA: Under review
		Blossom blight	
Chlorothalonil	<b>M5</b>	Blossom blight	APVMA: <a href="#">nominated for review</a> Canada: Proposed cancellation of uses EU: No authorisation in place USA: Under review
		Brown rot	
		Rust	
		Shot hole	
Copper	<b>M1</b>	Bacterial canker/blast	EU: Candidate for substitution
		Bacterial spot	
		Blossom blight	
		Brown rot	
		Freckle or scab	
		Leaf curl	
		Phytophthora stem rot	
		Rust	
		Shot hole	
		Trunk and stem canker	
Cyproconazole +iodocarb	<b>3 + 28</b>	Silver leaf	Cyproconazole <a href="#">APVMA: nominated for review</a> EU: No authorisation in place Iodocarb EU: No authorisation in place
Cyprodinil	<b>9</b>	Blossom blight	Canada: Under review
		Brown rot	EU: Candidate for substitution



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Active Constituents	Chemical Group	Problem	Comment
Dithianon	<b>M9</b>	Brown rot	EU: Use restricted to non-edible crops
		Freckle or scab (Apricot, nectarine & peach)	
		Leaf curl (Nectarines and & peaches)	
		Peach blight	
		Rust (Nectarine, peaches & plums)	
		Shot hole	
Fludioxonil (Po)	<b>12</b>	Brown rot	EU: Under review & candidate for substitution
		Grey mould	
		Transit rot (Rhizopus soft rot)	
Fluopyram +trifloxystrobin	<b>7 + 11</b>	Blossom blight (Botrytis spp.)	Trifloxystrobin Canada: Under review
		Brown rot	
		Shot hole	
Fosetyl-Al	<b>33</b>	Phytophthora trunk/Collar rot (PER85273)	
Iodine	<b>M</b>	Bactericide	
		Fungi	
Iprodione	<b>2</b>	Blossom blight	Canada: Majority of food crop uses deleted Codex: Review scheduled EU: No authorisation in place USA: Proposed deletion or restriction of uses
		Brown rot	
		Stem end rot(Po)	
		Transit rot (Rhizopus soft rot) (Po)	
Mancozeb	<b>M3</b>	Bacterial canker/blast	<a href="#">APVMA: nominated for review</a> Canada: Many uses cancelled Codex: To be reviewed 2024/25 EU: Authorisation not renewed
		Brown rot	
		Freckle or scab	
		Rust	
		Shot hole	
		Blossom blight	

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Active Constituents	Chemical Group	Problem	Comment
Mandestrobin (Plum)	11	Blossom blight	
		Brown rot	
Metiram	M3	Rust	<a href="#">APVMA: nominated for review</a> Canada: All foliar uses, except potato, cancelled Codex: To be reviewed 2024/25 EU: Under review
		Shot hole	
Penthiopyrad	7	Blossom blight	
		Brown rot	
		Freckle or scab	
Procymidone	2	Blossom blight	<a href="#">APVMA: Review in progress</a> Codex: No MRLs EU: No authorisations
Propiconazole	3	Brown rot	<a href="#">APVMA: nominated for review</a> EU: No authorisations
Sulfur	M2	Blossom blight	
		Brown rot	
		Freckle or scab	
		Leaf curl	
		Rust	
		Shot hole	
Thiram	M3	Brown rot	<a href="#">APVMA: nominated for review</a> Canada: All foliar uses cancelled (2021) Codex: To be reviewed 2024/25 EU: No authorisation in place
		Freckle or scab	
		Shot hole	

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Active Constituents	Chemical Group	Problem	Comment
Triforine	3	Brown rot	<a href="#">APVMA: nominated for review</a> EU: No authorisation
Zineb	M3	Rust	<a href="#">APVMA: nominated for review</a> Codex: To be reviewed 2024/25 EU: No authorisation in place
Ziram	M3	Blossom blight	<a href="#">APVMA: nominated for review</a>
		Brown rot	Canada: Cancelling of all uses
		Freckle or scab	Codex: To be reviewed 2024/25
		Leaf curl	EU: Candidate for substitution
		Shot hole	

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Active Constituents	Chemical Group	Comment
<b>WEEDS</b>		
Amitrole	<b>34</b>	<a href="#">APVMA: nominated for review</a> EU: No authorisation in place
Carfentrazone-ethyl	<b>14</b>	
Dichlobenil	<b>29</b>	EU: No authorisation in place
Diquat	<b>22</b>	<a href="#">APVMA: Currently under review</a> EU: No authorisation in place
Fluazifop-P	<b>1</b>	
Flumioxazin	<b>14</b>	
Glufosinate-ammonium	<b>10</b>	Canada: Review initiated EU: No authorisation in place
Glyphosate	<b>9</b>	Ongoing issues internationally EU: Under review
Haloxyfop-P	<b>1</b>	EU: No authorisation in place
Napropamide	<b>0</b>	
Norflurazon	<b>12</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> EU: No authorisation in place Rotterdam Convention: nomination
Pendimethalin	<b>3</b>	EU: Candidate for substitution
Trifluralin	<b>3</b>	EU: No authorisation in place

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Active Constituents	Chemical Group	Comment
<b>PLANT GROWTH REGULATORS</b>		
1-methylcyclopropene		
Aminoethoxyvinylglycine (AVG)		EU: No authorisation
Ammonium thiosulfate		EU: No authorisation
Cyanamide		EU: No authorisation
Gibberellic acid		
Paclobutrazol		EU: Candidate for substitution

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