

## Rhubarb 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 with changed data requirements. A consequence of which can be that many agrichemicals are not meeting contemporary risk assessment standards as the necessary data is unavailable, or where data is available, the refined estimate of risk 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 to ensure compliance, as any MRL breach could 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 the growing of rhubarb, as well as current initiatives aimed at addressing identified pest management deficiencies.

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<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	Comments
<b>INSECT AND OTHER PESTS</b>			
Abamectin	<b>6</b>	Broad mite	APVMA: Nominated for spray drift label review Canada: Some uses amended, others cancelled EU: Use restricted to permanent greenhouses
Chlorantraniliprole	<b>28</b>	Helicoverpa	
Chlorpyrifos	<b>1B</b>	Black field cricket	APVMA: <a href="#">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
		Cutworms	
		Field crickets	
		Mole crickets	
		Spotted vegetable weevil	
		Vegetable weevil	
		Wingless grasshopper	
		Australian plague locust(PER11843)	
		Migratory locust(PER11843)	
Spur-throated locust(PER11843)			
Cyromazine	<b>17</b>	Leafminer flies ( <i>Liriomyza</i> spp.) (PER81867)	EU: No authorisation
Diazinon	<b>1B</b>	Caterpillars	APVMA: <a href="#">Under review</a> EU: No authorisation in place Codex: Withdrawal of Codex MRLs recommended
		Cutworms	
Dimethoate	<b>1B</b>	Aphids	Codex: No MRL EU: Not authorised
		Bugs/Green vegetable bug	
		Jassids	
		Leafhoppers	
		Leafminer flies ( <i>Liriomyza</i> spp.)	
		Mites	
Thrips			

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Ethyl formate (Post-harvest)	8A	Sugarcane bud (Detritus) moth	EU: No authorisation
Flubendiamide	28	Helicoverpa	
Helicoverpa NPV	-	Helicoverpa	
Imidacloprid	4A	Aphids(PER14212)	<a href="#">APVMA: Under review</a> Canada: Field uses cancelled or amended EU: No authorisation USA: Re-registration with new risk mitigation measures
Permethrin	3A	Green looper(PER13441)	Codex: Re-evaluation scheduled. Support uncertain EU: No authorisation
		Green peach aphid (PER13441)	
		Helicoverpa(PER13441)	
		Lightbrown apple moth (PER13441)	
Pyriproxyfen	7C	Ants (Invasive & nuisance ants)	
Spinetoram	5	Caterpillars	
		Helicoverpa	
		Leafminer flies ( <i>Liriomyza</i> spp.) (PER91155)	
Spinosad	5	Helicoverpa	
		Fall armyworm(PER89870)	
		Leafminer flies ( <i>Liriomyza</i> spp.) (PER90928)	
Spirotetramat	23	Cotton aphid	
		Green peach aphid	
		Plague thrips	
		Tomato thrips	
		Western flower thrips	
		Leafminer flies ( <i>Liriomyza</i> spp.) (PER88640)	
Trichlorfon	1B	Cabbage moth	<a href="#">APVMA: nominated for review</a> Codex: No MRLs EU: No authorisations USA: No MRLs
		Cabbage white butterfly	
		Green vegetable bug	
		Rutherglen bug	

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<b>DISEASES</b>			
Chlorothalonil	<b>M5</b>	Ascochyta leaf spot	<a href="#">APVMA: nominated for review</a> Canada: Cancellation of uses proposed EU: No authorisation in place USA: Under review
Copper	<b>M1</b>	Downy mildew	EU: Candidates for substitution
		Leaf spots	
		Phytophthora crown rot	
		Rust	
Hydrogen peroxide + peroxyacetic acid	<b>M</b>	Bactericide	
Mancozeb	<b>M3</b>	Downy mildew	<a href="#">APVMA: nominated for review</a> Canada: Many uses cancelled Codex: To be reviewed 2024/25 EU: Authorisation not renewed
		Rust	
Metalaxyl/Metalaxyl-M	<b>4</b>	Downy mildew	Metalaxyl EU: Candidate for substitution Metalaxyl-M EU: Restricted use approval
Phosphorous acid	<b>33</b>	Downy mildew(PER86805)	
Sulphur	<b>M2</b>	Rust	
Thiram	<b>M3</b>	Damping off	<a href="#">APVMA: nominated for review</a> Canada: Cancelled all foliar uses (2021) Codex: To be reviewed 2024/25 EU: No authorisation in place

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Active Constituents	Chemical Group	Comment
<b>WEEDS</b>		
Clethodim (PER82459)	<b>1</b>	Codex: MRLs proposed for deletion
Diquat	<b>22</b>	<a href="#">APVMA: Currently under review</a> EU: No authorisation in place
MCPA (PER13152)	<b>4</b>	
Paraquat	<b>22</b>	<a href="#">APVMA: Currently under review</a> Canada: Review initiated EU: No authorisation in place Rotterdam Convention - nomination
S-metolachlor	<b>15</b>	EU: Proposed non-renewal of authorisation

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