

Rhubarb Agrichemical Regulatory Risk Assessment

March 2024

Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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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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	Comments
INSECT AND OTHER PESTS			
Abamectin	6	Broad mite	APVMA: Nominated for spray drift label review Canada: Some uses amended, others cancelled EU: Use restricted to permanent greenhouses
Chlorantraniliprole	28	Helicoverpa	
Chlorpyrifos	1B	Black field cricket	APVMA: Under review Codex: All MRLs revoked Canada: Cancellation of all uses. EU/UK: 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	17	Leafminer flies (<i>Liriomyza</i> spp.) (PER81867)	EU/UK: No authorisations in place
Diazinon	1B	Caterpillars	APVMA: Under review EU/UK: No authorisations in place Codex: Codex MRLs deleted
		Cutworms	
Dimethoate	1B	Aphids	Codex: No MRL EU/UK: No authorisations in place
		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/UK: No authorisations in place
Flubendiamide	28	Helicoverpa	EU: Authorisation expires August 2024
Helicoverpa NPV	-	Helicoverpa	
Imidacloprid	4A	Aphids(PER14212)	APVMA: Under review Canada: Field uses cancelled or amended EU/UK: No authorisations in place USA: Re-registration with new risk mitigation measures
Malathion	1B	Australian plague locust(PER11843)	APVMA: Under review
		Migratory locust(PER11843)	Codex: Re-evaluation scheduled for 2025/26
		Spur-throated locust(PER11843)	EU: Restricted use to permanent greenhouses USA: Under review, label use patterns amended
Permethrin	3A	Green looper(PER13441)	Codex: Re-evaluation scheduled. Support uncertain EU/UK: No authorisations in place
		Green peach aphid (PER13441)	
		Helicoverpa(PER13441)	
		Lightbrown apple moth (PER13441)	
Pyriproxyfen	7C	Ants (Invasive & nuisance ants)	
Spinetoram	5	Caterpillars	EU: Authorisation expires June 2024
		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	EU: Authorisation expires April 2024
		Green peach aphid	
		Plague thrips	
		Tomato thrips	
		Western flower thrips	
		Leafminer flies (<i>Liriomyza</i> spp.) (PER88640)	
Trichlorfon	1B	Cabbage moth	APVMA: nominated for review
		Cabbage white butterfly	Codex: No MRLs
		Green vegetable bug	EU/UK: No authorisations
		Rutherglen bug	USA: No MRLs

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DISEASES			
Chlorothalonil	M5	Ascochyta leaf spot	APVMA: nominated for review Canada: Cancellation of uses proposed EU/UK: No authorisation in place USA: Under review
Copper	M1	Downy mildew	EU: Candidates for substitution
		Leaf spots	
		Phytophthora crown rot	
		Rust	
Hydrogen peroxide + peroxyacetic acid	M	Bactericide	
Mancozeb	M3	Downy mildew	APVMA: nominated for review Canada: Many uses cancelled Codex: To be reviewed EU/UK: No authorisations in place
		Rust	
Metalaxyl/Metalaxyl-M	4	Downy mildew	<u>Metalaxyl</u> EU: Candidate for substitution <u>Metalaxyl-M</u> EU: Restricted use approval
Phosphorous acid	33	Downy mildew(PER86805)	
Sulphur	M2	Rust	
Thiram	M3	Damping off	APVMA: nominated for review Canada: Cancelled all foliar uses Codex: To be reviewed EU/UK: No authorisations in place

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Active Constituents	Chemical Group	Comment
WEEDS		
Clethodim (PER82459)	1	Codex: MRLs proposed for deletion
Diquat	22	APVMA: Currently under review EU/UK: No authorisations in place
MCPA (PER13152)	4	
Paraquat	22	APVMA: Currently under review Canada: Review initiated EU/UK: No authorisations in place Rotterdam Convention - nomination
S-metolachlor	15	EU: No authorisations in place

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