

Parsley 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 parsley 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
Afidopyropen	9D	Cabbage aphid	EU: No authorisations
		Cotton aphid	
		Currant lettuce aphid	
		Green peach aphid	
		Silverleaf (Poinsettia) whitefly	
Alpha-cypermethrin	3A	Plague thrips (PER89977)	EU: No authorisation
		Rutherglen bug (PER89977)	UK: No authorisation
<i>Bacillus thuringiensis</i>	11A	Armyworm	EU: Under review for authorisation renewal
		Diamondback (Cabbage) moth	
		Helicoverpa	
		Lightbrown apple moth	
		Looper caterpillars	
Chlorpyrifos	1B	Vegetable weevil(PER14583)	APVMA: Under review Codex: All MRLs revoked Canada: Cancellation of all uses. EU: No authorisation in place USA: EPA decision to cancel use on food crops
Diazinon	1B	Onion seedling maggot (PER82551)	APVMA: Under review EU: No authorisation in place Codex: Withdrawal of Codex MRLs recommended
Fonicamid	29	Thrips (Suppression – PER89185)	
Flubendiamide	28	Cluster caterpillar	
		Diamondback (Cabbage) moth	
		Helicoverpa	

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Active Constituents	Chemical Group	Problem	Comments
Indoxacarb		Fire ants (Qld only)	Canada: No authorisations EU: No authorisation UK: Proposed non-renewal
Lambda-cyhalothrin	3A	Grey cluster bug (PER80975) Looper caterpillars (PER80975) Onion thrips (PER80975) Plague thrips (PER80975) Redlegged earth mite (PER80975) Rutherglen bug (PER80975)	EU: Candidate for substitution
Methomyl	1A	Cluster caterpillar (PER82428) Cucumber moth (PER82428) Helicoverpa (PER82428) Looper caterpillars (PER82428) Rutherglen bug (PER82428) Thrips (PER82428) Webworms (PER82428) Western flower thrips (PER82428)	APVMA: nominated for review Canada: Re-evaluation completed. Majority of uses removed EU: No authorisations in place USA: Under review
Permethrin	3A	Caterpillars (PER91544) Earwigs (PER91544) Leafminer (PER91544) Rutherglen bug (PER91544) Greenhouse whitefly (PER91544)	Codex: Re-evaluation scheduled. Support uncertain EU: No authorisation
Petroleum oil	UNM	Aphids (PER12221) Green mirids (PER12221) Green vegetable bug (PER12221) Grey cluster bug (PER12221) Leafhoppers (PER12221) Mites (PER12221) Rutherglen bug (PER12221) Thrips (PER12221)	

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Active Constituents	Chemical Group	Problem	Comments
Pyriproxyfen	7C	Ants	
Spinetoram	5	Diamondback (Cabbage) moth	
		Helicoverpa	
		Leafminer (PER91155)	
		Lightbrown apple moth	
		Looper caterpillars	
Spinosad	5	Diamondback (Cabbage) moth	
		Helicoverpa	
		Lightbrown apple moth	
		Looper caterpillars	
		Fall armyworm(PER89870)	
Spirotetramat	23	Leafminer (PER88640)	

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Active Constituents	Chemical Group	Problem	Comments
Chlorothalonil	M5	Alternaria leaf spots/blight(PER82895)	APVMA: nominated for review
		Botrytis rot(PER82895) (PER82895)	Canada: Cancellation of uses proposed
		Cercospora leaf spot (PER82895)	EU: No authorisation in place
		Downy mildew(PER82895)	USA: Under review
Copper	M1	Bacterial leaf spot(PER88815)	EU: Candidates for substitution
Cyazofamid	21	Phytophthora root rot(PER89216)	Canada: Review initiated
Cyprodinil + fludioxonil	9 + 12	Alternaria leaf spots/blight(PER90427)	<u>Cyprodinil</u>
		Botrytis leaf blight(PER90427)	Canada: Under review
		Fusarium blight(PER90427)	EU: Candidate for substitution <u>Fludioxonil</u> EU: Under review, & candidate for substitution
Difenoconazole	3	Alternaria leaf spots/blight(PER87973)	APVMA: nominated for review
		Cercospora leaf spot(PER87973)	EU: Candidate for substitution USA: Under review
Dimethomorph + Mancozeb	M3 + 40	Alternaria leaf spots/blight(PER14958)	<u>Dimethomorph</u>
		Downy mildew(PER14958)	EU: Under review <u>Mancozeb</u> APVMA: nominated for review Canada: Many uses cancelled Codex: To be reviewed 2024/25 EU: Authorisation not renewed
Iprodione	2	Botrytis grey mould (PER81589)	Canada: Majority of food crop uses deleted
		Sclerotinia rot (PER81589)	Codex: Under review EU: No authorisation in place USA: Proposed deletion or restriction of uses
Mancozeb	M3	Alternaria (PER14958)	APVMA: nominated for review
		Anthracnose (PER80538)	Canada: Many uses cancelled
		Downey mildew (PER14958)	Codex: To be reviewed 2024/25
		Septoria leaf spot (PER80538)	EU: Authorisation not renewed

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Active Constituents	Chemical Group	Problem	Comments
Metalaxyl-M	4	Phytophthora root rot(PER83797)	EU: Restricted use approval
	4	Pythium root rot(PER83797)	
Phosphorous acid	33	Downy mildew(PER13698)	
		Phytophthora root rot(PER13698)	
		Pythium root rot(PER13698)	
Propiconazole	3	Powdery mildew	APVMA: nominated for review EU: No authorisations USA: Under review
		Cercospora leaf spot(PER80977)	
		Rust (PER80977)	
		Septoria leaf spot(PER80977)	

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Active Constituents	Chemical Group	Comment
WEEDS		
Clethodim (PER93116)	1	Codex: MRLs proposed for deletion
Chlorthal-dimethyl (PER14032)	3	EU: No authorisation in place
Clopyralid (PER90232 Tas only)	4	
Fluazifop-P (PER81244)	1	
Fluroxypyr (PER90232 Tas only)	4	
Linuron (PER86154)	5	Canada: Cancellation of many uses EU: No authorisation in place
Oxyfluorfen (PER90232 Tas only)	14	EU: Candidate for substitution USA: Interim decision Label restrictions proposed
S-metolachlor	15	EU: Proposed non-renewal of authorisation
Trifluralin	3	EU: No authorisation in place

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