

Leek 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 leeks 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	Vegetable leafminer (PER81876)	APVMA: Nominated for spray drift label review Canada: Some uses amended others cancelled EU: Use restricted to permanent greenhouses
Alpha-cypermethrin	3A	Onion thrips(PER14457)	EU: No authorisation UK: No authorisation
		Redlegged earth mite(PER14457)	
Chlorpyrifos	1B	Field crickets/Mole crickets	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
Cyantraniliprole	28	Onion thrips	
		Vegetable leafminer (PER90387)	
Diazinon	1B	Onion fly(PER82551)	APVMA: Under review EU: No authorisation in place Codex: Withdrawal of Codex MRLs recommended
Flonicamid	29	Onion thrips(PER89185)	
Malathion/Maldison	1B	Onion thrips(PER13653)	APVMA: Under review Codex: Re-evaluation scheduled EU: Restricted use to permanent greenhouses

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Active Constituents	Chemical Group	Problem	Comments
Petroleum oil	UNM	Aphids (PER12221)	
		Green mirids (PER12221)	
		Green vegetable bug (PER12221)	
		Grey cluster bug (PER12221)	
		Jassids/Leafhoppers (PER12221)	
		Mites (PER12221)	
		Rutherglen bugs (PER12221)	
		Thrips (PER12221)	
Pirimicarb	1A	Aphids	Codex: JMPR re-evaluation scheduled EU: Candidate for substitution
Spinetoram	5	Western flower thrips	
Spirotetramat	23	Onion thrips	
		Plague thrips	
		Western flower thrips	
Trichlorfon	1B	Green vegetable bug	APVMA: nominated for review Codex: No MRLs EU: No authorisations USA: No MRLs
		Rutherglen bug	

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Active Constituents	Chemical Group	Problem	Comments
DISEASES			
Ametoctradin + dimethomorph	45 + 40	Downy mildew	<u>Dimethomorph</u> EU: Under review
Azoxystrobin	11	Downy mildew	Canada: Review proposed
		White rot	
Chlorothalonil	M5	Purple blotch	APVMA: nominated for review Canada: Cancellation of uses proposed EU: No authorisation in place USA: Under review
Copper	M1	Downy mildew	EU: Candidates for substitution
		Purple blotch	
Cyprodinil + fludioxonil	9 + 12	Black mould	<u>Cyprodinil:</u> Canada: Currently under reviewed EU: Candidate for substitution <u>Fludioxonil:</u> EU: Under review & Candidate for substitution
		Botrytis grey mould	
Dimethomorph	40	Botrytis rot(PER14473)	EU: Under review
		Downy mildew(PER14473)	
		Purple blotch(PER14473)	
Fluopicolide	43	Downy mildew	EU: Candidate for substitution
Mancozeb	M3	Purple blotch	APVMA: nominated for review Canada: Many uses cancelled Codex: To be reviewed 2024/25 EU: Authorisation not renewed
		Botrytis rot(PER14473)	
		Downy mildew(PER14473)	

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Active Constituents	Chemical Group	Problem	Comments
Metalaxyl/metalaxyl-M	4	Downy mildew	<u>Metalaxyl</u>
		Purple blotch	EU: Candidate for substitution <u>Metalaxyl-M</u> EU: Restricted use approval
Oxathiapiprolin	49	Downy mildew	
Peroxyacetic acid	M	Neck and bulb rot	
		Botrytis grey mould	
		Downy mildew	
Phosphorous acid	33	Downy mildew(PER13698)	
Propamocarb	28	Downy mildew	
Triadimenol	3	White rot(PER14906)	APVMA: nominated for review Canada : No authorisation in place EU: No authorisation in place USA: Registration cancelled

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Active Constituents	Chemical Group	Comment
WEEDS		
Clethodim (PER82459)	1	Codex: MRLs proposed for deletion
Cyanazine (PER81271)	5	APVMA: nominated for review EU: No authorisation in place
Ethofumesate (PER81271)	15	
Fluazifop-P (PER82556)	1	
loxynil	6	EU: No authorisation in place
Linuron	5	Canada: Cancellation of many uses EU: No authorisation in place
Methabenzthiazuron (PER14742)	5	EU: No authorisation in place
Oxyfluorfen (PER81271)	14	EU: Candidate for substitution
Pendimethalin (PER81271)	3	EU: EU: Candidate for substitution
Propachlor (PER81271)	15	EU: No authorisation in place
Simazine (PER81271)	5	APVMA: nominated for review EU: No authorisation in place

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