

#### 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Regulatory pressures on agrichemicals are increasing globally, with many being either restricted or withdrawn from use.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 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 celery as well as current initiatives aimed at addressing identified pest management deficiencies.

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, or cancelled EU: Use restricted to permanent greenhouses
Afidopyropen	9D	Cabbage aphid	EU/UK: No authorisations
		Cotton aphid Currant lettuce aphid	
		Green peach aphid Silverleaf whitefly	
Bifenthrin	3A	Red-legged earth mite (PER86599)	Canada: Not authorised EU/UK: Not authorised
Buprofezin	16	Greenhouse whitefly (PER82467)	EU: MRLs set to limit of quantification
Chlorantraniliprole	28	Helicoverpa spp.	
Chlorpyrifos	18	Black field cricket Cutworms Field crickets Migratory locusts Mole crickets Spotted vegetable weevil Spur throated locust Vegetable weevil Wingless grasshopper African black beetle (PER14583) Wirewrm/False wire worm (PER14583)	APVMA: Proposed deletion of uses.  Codex:All Codex MRLs deleted  Canada: Cancellation of all uses.  EU/UK: No authorisation in place  USA: EPA decision to cancel use on food crops

Chemical Group	Problem	Comments
28	Vegetable leafminer ( <i>Liriomyza spp.</i> ) (PER90927)	
17	Liriomyza species (PER81867)	EU/UK: No authorisation in place
1B	Caterpillars	APVMA: Proposed deletion of uses
	Cutworms	EU/UK: No authorisation in place Codex: MRLs deleted
6	Cluster caterpillar (PER88066)	EU: Candidate for substitution
	Helicoverpa spp. (PER88066)	
	Lightbrown apple moth (PER88066)	
3A	Helicoverpa spp.	EU: Candidate for substitution
	Lucerne leaf roller	
2B	Western flower thrips (PER83203)	APVMA: Under review
		Codex: Re-evaluation underway
		EU/UK: No authorisation in place USA: Under review
28	Helicoverpa spp.	EU: Expiry of approval August 2024
31	Helicoverpa spp.	
4A	Aphids (PER12489)	APVMA: Under review
		Canada: Field uses cancelled or amended
		EU/UK: No authorisation USA: Re-registration with new risk mitigation measures
22A	Lucerne leaf roller	Canada: No authorisations
	Helicoverpa spp. (PER14843)	EU/UK: No authorisations
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	Group 28 17 18 6 3A 2B 28 31 4A	Group  28

Active Constituents	Chemical	Problem	Comments
Malathion/Maldison	Group 1B	28-spotted potato ladybird	APVMA: Under review
ividiatinon/ividiaison		Aphids	Codex: Re-evaluation scheduled for 2025/26
		·	EU: Restricted use to permanent greenhouses
		Australian plague locust	
		Cabbage white butterfly	
		Diamondback moth	
		Green vegetable bug	
		Jassids/ leafhoppers	
		Red-legged earth mite	
		Rutherglen bugs	
		Thrips	
Methomyl	1A	Thrips	APVMA: nominated for review
		Cluster caterpillar (PER82428)	Canada: Re-evaluation completed. Majority of uses removed
		Cucumber moth (PER82428)	EU/UK: No authorisations in place USA: Under review
		Helicoverpa spp. (PER82428)	
		Loopers (PER82428)	
		Rutherglen bugs (PER82428)	
		Webworms (PER82428)	
		Western flower thrips (PER82428)	
		Fall armyworm (PER89293)	
Permethrin	3A	Helicoverpa spp.	Codex: Re-evaluation scheduled. Support uncertain
		Lucerne leaf roller	EU/UK: No authorisation

Active Constituents	Chemical Group	Problem	Comments
Petroleum oil	-	Aphids (PER12221)	
		Green mirid (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
		Cotton aphid	EU: Candidate for substitution
		Green peach aphid	
Pymetrozine	9B	Aphids	Canada: Restricted use to glasshouses only
			Codex: No registrant support
Chinataram	-	Cataraillars	EU/UK: Not authorised
Spinetoram	5	Caterpillars	EU: Approval expiry June 2024
		Helicoverpa spp.	
		Vegetable leafminer ( <i>Liriomyza spp.</i> ) (PER91155)	
Spinosad	5	Helicoverpa spp.	
		Fall armyworm (PER89870)	
		Vegetable leafminer ( <i>Liriomyza spp.</i> ) (PER90928)	

Active Constituents	Chemical	Problem	Comments
	Group		
Spirotetramat	23	Cotton aphid	EU: Approval expiry April 2024
		Plague thrips	
		Tomato thrips	
		Western flower thrips	
		Vegetable leafminer ( <i>Liriomyza spp.</i> ) (PER88640)	
Sulfoxaflor	4C	Green peach aphid	USA: Pollinator concerns
			EU: Restricted to permanent glasshouses only
Trichlorfon	1B	Cutworms	APVMA: nominated for review
		Cabbage white butterfly	Codex: No MRLs
		Green vegetable bug	EU/UK: No authorisations
			USA: No MRLs

Active Constituents	Chemical Group	Problem	Comments		
	DISEASES				
Boscalid	7	Sclerotinia rot (PER11127)	Canada: Under review		
Chlorothalonil	M5	Septoria spot	APVMA: nominated for review		
		Early blight	Canada: Cancellation of uses proposed EU/UK: No authorisation in place USA: Under review		
Copper	M1	Bacterial soft rot	EU: Candidates for substitution		
		Early blight			
		Leaf spots			
		Septoria spot			
		Soft rot			
Cyprodinil + fludioxonil	9+12	Anthracnose (PER93212–Qld only)	Cyprodinil: Canada: Under review EU: Candidate for substitution Fludioxonil: EU: Under review, & candidate for substitution		
Difenoconazole	3	Early blight	APVMA: nominated for review		
		Septoria spot	EU: Candidate for substitution USA: Under review		
Difenoconazole +	3 + 7	Cercospora leaf spot	<u>Difenoconazole</u>		
pydiflumetofen		Septoria spot	APVMA: nominated for review EU: Candidate for substitution USA: Under review		
Hydrogen peroxide +peroxyacetic acid	M	Cercospora leaf spot			
Iprodione	2	Sclerotinia rot	Canada: Majority of food crop uses deleted Codex: Review scheduled EU/UK: No authorisation in place USA: Proposed deletion or restriction of uses		

Active Constituents	Chemical Group	Problem	Comments
Mancozeb	M3	Early blight	APVMA: nominated for review
		Leaf spots	Canada: Many uses cancelled
		· · · · · · · · · · · · · · · · · · ·	Codex: To be reviewed
		Powdery mildew	EU/UK: No authorisation
		Septoria spot	
Metalaxyl-M	4	Septoria spot (PER13673)	Metalaxyl-M
			EU: Restricted use approval
Metiram	M3	Early blight	APVMA: nominated for review
		Septoria spot	Canada: Proposed cancelling of foliar uses other than potato
			Codex: To be reviewed
			EU/UK: No authorisations
Propiconazole	3	Early blight (PER14479)	APVMA: nominated for review
		Septoria spot (PER14479)	EU/UK: No authorisations
			USA: Under review
Propineb	M3	Septoria spot	APVMA: nominated for review
			EU/UK: No authorisation in place Codex: To be reviewed
Thiram	M3	A makin yang ang ang	
iniram	IVIS	Anthracnose	APVMA: nominated for review  Canada: Cancelled all foliar uses (2021)
		Botrytis rot	Codex: To be reviewed
		Septoria spot	EU/UK: No authorisation in place
Trifloxystrobin	11	Septoria spot	Canada: Under review
Zineb	M3	Early blight	APVMA: nominated for review
2.1103		Septoria spot	Codex: To be reviewed
		Septona spot	EU/UK: No authorisation in place
Ziram	M3	Septoria spot	APVMA: nominated for review
			Canada: Cancelling of all uses
			Codex: To be reviewed
			EU: Candidate for substitution

<b>Active Constituents</b>	Chemical	Comment	
	Group		
		WEEDS	
Clethodim	1	Codex: MRLs proposed for deletion	
Diquat	22	APVMA: Currently under review	
	22	EU/UK: No authorisation in place	
Fluazifop-P	1		
Linuron	5	Canada: Proposed cancellation of many uses	
		EU/UK: No authorisation in place	
Paraquat	APVMA: Currently under review		
	22	Canada: Review initiated	
		EU/UK: No authorisation in place	
		Rotterdam Convention: nomination	

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