Maximum residue levels for methoxyfenozide

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EU lowers the MRL for methoxyfenozide on aubergines

Commission Regulation (EU) 2025/1163 of 13 June 2025 amending Annexes II, III and V to Regulation (EC) No 396/2005 of the European Parliament and of the Council as regards maximum residue levels for chlorpropham, fuberidazole, ipconazole, methoxyfenozide, S-metolachlor and triflusulfuron in or on certain products

Commission Regulation (EU) 2023/1069 of 1 June 2023 amending Annex II to Regulation (EC) No 396/2005 of the European Parliament and of the Council as regards maximum residue levels for bixafen, cyprodinil, fenhexamid, fenpicoxamid, fenpyroximate, flutianil, isoxaflutole, mandipropamid, methoxyfenozide, and spinetoram in or on certain products

Commission Regulation (EU) 2022/1406 of 3 August 2022 amending Annexes II, III and V to Regulation (EC) No 396/2005 of the European Parliament and of the Council as regards maximum residue levels for methoxyfenozide, propoxur, spinosad and thiram in or on certain products

Update

The European Commission decided to lower the maximum residue level (MRL) for methoxyfenozide from 0.6 to 0.3 mg/kg on aubergines/ eggplants.

Impacted products

Aubergines/ eggplants, apples, pears, peaches, broccoli, tomatoes, basil and edible flowers, teas, coffee beans, sugar canes

What is changing?

The EU decided to lower the MRL for methoxyfenozide on aubergines/ eggplants from 0.6 to 0.3 mg/kg.

The EU has previously published the following two Regulations amending MRLs for methoxyfenozide, as summarised in Table 1.

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- Regulation 2022/1406 reduced the MRLs for methoxyfenozide to the limit of determination (LOD) of 0.01 mg/kg on apples, pears, peaches, and broccoli from 28 February 2023. (The LOD is the the lowest level that can be detected using the most modern and reliable analytical methods.) The MRL for tomatoes was also reduced.
- Regulation 2023/1069 increased the MRLs for methoxyfenozide on basil and edible flowers, teas, coffee beans, and sugar cane.

Why?

The approval of methoxyfenozide was restricted by Regulation 2019/158 to greenhouse uses only. In an earlier assessment of methoxyfenozide MRLs, EFSA (2014) noted that residue trial data for aubergines/ eggplants was missing. A temporary safe MRL was proposed while awaiting additional data. The applicant later provided the necessary information, and EFSA (2023, 2024) has confirmed that the data supports a lower MRL for aubergines/ eggplants.

During the process of renewal of approval, EFSA identified unacceptable risks for consumers with the current MRLs for methoxyfenozide in a number of fruits and vegetables (EFSA 2020). In the case of tomatoes, an alternative good agricultural practice (GAP) was identified that would permit the setting of a lower MRL. For others, it was determined that the MRL should be set at the LOD.

New Codex MRLs (CXLs) for methoxyfenozide have been adopted. EFSA (2022) has not identified a consumer health risk for these CXLs, so they have been adopted as EU MRLs in Regulation 2023/1069.

Timeline

The new MRL for aubergines is expected to apply from **6 January 2026**.

MRLs for apples, pears, peaches, tomatoes, and broccoli applied from 28 February 2023.

Increased MRLs for basil and edible flowers, teas, coffee beans, and sugar cane applied from 22 June 2023.

Recommended Actions

Suppliers of aubergines/ eggplants should review their current use of methoxyfenozide and assess whether any changes will be needed to existing GAP to ensure compliance with the new MRL.

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Background

MRLs are set in accordance with the rules set out in Regulation 396/2005. For information on current MRLs for other substances, please consult the EU Pesticide Residues database.

Resources

EFSA (2014) Reasoned opinion on the review of the existing maximum residue levels (MRLs) for methoxyfenozide according to Article 12 of Regulation (EC) No 396/2005. EFSA Journal, 12(1): 3509.

EFSA (2020) Focussed assessment of certain existing MRLs of concern for methoxyfenozide. EFSA Journal, 18(12): 6330.

EFSA (2022) Scientific support for preparing an EU position in the 53rd session of the codex committee on pesticide residues (CCPR). EFSA Journal, 20(9): 7521.

EFSA (2023) Lack of confirmatory data following Article 12 MRL reviews for 2,4■DB, iodosulfuron■methyl, mesotrione, methoxyfenozide and pyraflufen■ethyl. EFSA Journal, 21(5): 8013.

EFSA (2024) Modification of the existing maximum residue level for methoxyfenozide in aubergines. EFSA Journal, 22: e8922.

Sources

Commission Regulation (EU) 2025/1163 as regards maximum residue levels for chlorpropham, fuberidazole, ipconazole, methoxyfenozide, S-metolachlor and triflusulfuron in or on certain products

Commission Regulation (EU) 2023/1069 as regards maximum residue levels for bixafen, cyprodinil, fenhexamid, fenpicoxamid, fenpyroximate, flutianil, isoxaflutole, mandipropamid, methoxyfenozide, and spinetoram in or on certain products

Commission Regulation (EU) 2022/1406 as regards maximum residue levels for methoxyfenozide, propoxur, spinosad and thiram in or on certain products

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Tables & Figures

Table 1
Changes to maximum residue levels for methoxyfenozide

Food category	Products	Methoxyfenozide (mg/kg)	
		Old MRL	New MRL
Pome fruits	Apples, pears	2	0.01*
Stone fruits	Peaches	2	0.01*
Brassica vegetables	Broccoli	2	0.01*
Fruiting vegetables	Tomatoes	2	0.6
Leaf vegetables, herbs and edible flowers	Basil, edible flowers	4	80
Teas	Teas	0.05*	80
Coffee beans	Coffee beans	0.05*	0.15
Sugar plants	Sugar canes	0.01*	0.015

* Limit of determination.

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Source: based on Regulations 2022/1406 and 2023/1069

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