

Maximum residue levels for fluoride ion

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EU publishes Regulation establishing fluoride ion MRLs for a wide range of products from February 2023, with potential implications for fruits and vegetables

Commission Regulation (EU) [2022/1321](#) of 25 July 2022 amending Annexes II and III to Regulation (EC) No 396/2005 of the European Parliament and of the Council as regards maximum residue levels for fluoride ion, oxyfluorfen, pyroxsulam, quinmerac and sulfuryl fluoride in or on certain products

Update

Commission Regulation [2022/1321](#), published on 25 July, establishes fluoride ion MRLs on a wide range of products – fruits, vegetables, fungi, algae, pulses, oilseeds, oil fruits, cereals, teas, cocoa beans, sugar plants and products of animal origin – that will apply from February 2023.

Impacted products

citrus fruits, almonds, Brazil nuts, cashew nuts, chestnuts, hazelnut/cob nuts, macadamias, pecans, pine kernels, pistachios, walnuts, coconuts, pome fruits, stone fruits, berries and small fruits, miscellaneous fruits, fruiting vegetables, brassica vegetables, legume vegetables, stem vegetables, fungi, mosses and lichens, algae and prokaryotes, pulses, oilseeds, oil fruits, cereals, teas, cocoa beans, sugar plants, products of animal origin

What is changing?

The changes to MRLs are summarised in Table 1.

Why?

Following an evaluation of existing MRLs, [EFSA \(2021\)](#) concluded that insufficient information was available to complete the assessment for fluoride ion. Taking into account additional monitoring data provided by food business operators, the Commission established new MRLs at which there is no risk for consumers.

Timeline

New MRLs will apply from 21 February 2023. Where products are exported in compliance with the old MRLs before 21 February 2023, these products may stay on the market after this date, even where not compliant with new MRLs.

Recommended Actions

Suppliers of all fruits and vegetables should check the use of fluoride ion on these products to verify compliance with established MRLs.

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 (2021) [Review of the existing maximum residue levels for sulfuryl fluoride according to Article 12 of Regulation \(EC\) No 396/2005](#). EFSA Journal, 19(1): 6390.

Sources

Commission Regulation (EU) [2022/1321](#)

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Table & Figures

Table 1 Maximum residue levels for fluoride ion			
Food category	Products	Fluoride ion (mg/kg)	
		Old MRL	New MRL
Citrus fruits	All	2	0.2
Tree nuts	Almonds, Brazil nuts, cashew nuts, chestnuts, hazelnut/ cob nuts, macadamias, pecans, pine kernels, pistachios, walnuts	25	30
	Coconuts	25	15
Pome fruits		2*	0.2
Stone fruits		2*	0.2
Berries and small fruits	Table grapes, wine grapes, blackberries, dewberries, raspberries, blueberries, cranberries, currants, gooseberries, mulberries, azaroles/ Mediterranean medlars	2*	0.2
	Rose hips, elderberries	2*	2
Miscellaneous fruits	All	2*	0.2
Fruiting vegetables	All	2*	0.2
Brassica vegetables	All	2*	0.2
Leaf vegetables, herbs and edible	All except basil and edible flowers	2*	0.2
	Basil and edible flowers	2*	2
Legume vegetables	All	2*	0.2
Stem vegetables	All	2*	0.2
Fungi, mosses and lichens	All	2*	0.2
Algae and prokaryote organisms	All	2*	0.2
Pulses	All	2*	2
Oilseeds	All	2*	2
Oil fruits	All	2*	2
Cereals	All	2*	2
Teas	All	350	400
Cocoa beans	All	10	5
Sugar plants	All	2*	2
Products of animal origin	From swine, bovine animals, sheep, goat, equine animals, poultry, other farmed terrestrial animals	1	0.3
	Honey	–	0.5*
	Amphibians/ reptiles, terrestrial vertebrate animals, wild terrestrial vertebrate animals	–	0.3
* Limit of determination. Shading indicates a decrease in MRL. Source: based on Commission Regulation (EU) 2022/1321			
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