

MYCOTOXINS AND MARINE TOXINS IN FOOD

(I) Maximum limits for mycotoxins

Mycotoxin	Food	Maximum Limits (ppb)	Regulation / Schedule No. (under Food Regulations)
Aflatoxin B1	Any food except food for infants or young children	5	Regulation 34
	Food for infants or young children	0.1	
Aflatoxins, total (B1, B2, G1 and G2)	Any food except food for infants or young children	5	
Aflatoxin M1	Milk	0.5	
	Infant formula	<i>0.025 [calculated on the reconstituted ready-to-drink product]</i>	
Patulin	Food for infants or young children (except processed cereal-based foods)	10	
	Fruit juice	50	
	Food containing fruit juice as ingredient	50	
Deoxynivalenol	Unprocessed cereal grains (wheat, maize and barley)	2000	Effective from 1 Sept 2020. (SFA circular dated 11 Aug 2020, "Maximum Residue Limits Established for Mercury, Bromate and Mycotoxins in Food")
	Unprocessed cereal grains (oats)	1750	
	Unprocessed cereals (other than wheat, maize, barley and oats)	1250	

Mycotoxin	Food	Maximum Limits (ppb)	Regulation / Schedule No. (under Food Regulations)
	Flour, meal, semolina and flakes derived from wheat, maize or barley	1000	
	Bread, pastries, biscuits, cereal snacks and breakfast cereals	500	
	Food for infants and young children	200 (on a dry basis)	
	All other foods derived from cereals	750	
Fumonisin B1 & B2	Unprocessed maize grain	4000	Effective from 1 Sept 2020. (SFA circular dated 11 Aug 2020, "Maximum Residue Limits Established for Mercury, Bromate and Mycotoxins in Food")
	Maize flour and maize meal	2000	
	Maize based breakfast cereals and maize-based snacks	800	
	Food for infants and young children	200 (on a dry basis)	
	Maize intended for direct human consumption and other maize-based foods for direct human consumption	1000	
Ochratoxin A	Unprocessed cereal grain	5	Effective from 1 Sept 2020. (SFA circular dated 11 Aug 2020, "Maximum Residue Limits Established for Mercury, Bromate and Mycotoxins in Food")
	Dried vine fruit (Currants, raisins and sultanas)	10	
	Roasted coffee beans and ground roasted coffee, excluding soluble coffee	5	
	Soluble coffee (instant coffee)	10	

Mycotoxin	Food	Maximum Limits (ppb)	Regulation / Schedule No. (under Food Regulations)
	Food for infants and young children	0.5 (on a dry basis)	
	Spices, including dried spices	20	
	Wine and fruit wine	2	
	All food derived from cereals except food for infants and young children	3	
Zearalenone	Unprocessed cereal grains other than maize	100	Effective from 1 Sept 2020. (SFA circular dated 11 Aug 2020, "Maximum Residue Limits Established for Mercury, Bromate and Mycotoxins in Food")
	Bread, pastries, biscuits, cereal snacks and breakfast cereals excluding maize-based snacks and maize-based breakfast cereals	50	
	All other foods derived from cereal grains other than maize	75	
	Unprocessed maize	350	
	Refined maize oil	400	
	Maize intended for direct human consumption, maize-based snacks and maize-based breakfast cereals	100	
	Food for infants and young children	20 (on a dry basis)	

(II) Maximum limits for marine biotoxins

Contaminant	Commodity	Maximum limit	Notes		Regulation
Paralytic Shellfish Poison (PSP)	Bivalve molluscs	0.80 mg saxitoxin equivalent /kg flesh	Toxins covered in PSP	TEF	Effective from 1 April 2020. (SFA circular dated 17 Mar 2020, "Maximum Limits for Marine Biotoxins, Inorganic Arsenic, and Methanol in Food")
			STX	1	
			NEOSTX	2.0	
			dcSTX	0.5	
			GTX1	1	
			GTX2	0.4	
			GTX3	0.6	
			GTX4	0.7	
			GTX5	0.1	
			GTX6	0.05	
			dcGTX2	0.2	
			dcGTX3	0.4	
			C1	0.01	
			C2	0.1	
C3	0.01				
C4	0.1				
Diarrhetic Shellfish Poisons (DSP)	Bivalve molluscs	0.16 mg okadaic acid equivalent /kg flesh	Toxins covered in DSP	TEF	Effective from 1 April 2020. (SFA circular dated 17 Mar 2020, "Maximum Limits for Marine Biotoxins, Inorganic Arsenic, and
			OA	1	
			DTX-1	1	
			DTX-2	0.5	

Contaminant	Commodity	Maximum limit	Notes	Regulation								
				Methanol in Food”.								
Amnesic Shellfish Poisons (ASP)	Bivalve molluscs	20 mg domoic acid /kg flesh	-	Effective from 1 April 2020. (SFA circular dated 17 Mar 2020, “Maximum Limits for Marine Biotoxins, Inorganic Arsenic, and Methanol in Food”)								
Brevetoxins (PbTXs)	Bivalve molluscs	0.80 mg brevetoxin-2 equivalent /kg	-	Effective from 1 April 2020. (SFA circular dated 17 Mar 2020, “Maximum Limits for Marine Biotoxins, Inorganic Arsenic, and Methanol in Food”)								
Azaspiracids (AZA)	Bivalve molluscs	0.160 mg azaspiracid-1 equivalent /kg	<table border="1"> <thead> <tr> <th>Toxins covered in AZA</th> <th>TEF</th> </tr> </thead> <tbody> <tr> <td>AZA-1</td> <td>1</td> </tr> <tr> <td>AZA-2</td> <td>0.7</td> </tr> <tr> <td>AZA-3</td> <td>0.5</td> </tr> </tbody> </table>	Toxins covered in AZA	TEF	AZA-1	1	AZA-2	0.7	AZA-3	0.5	Effective from 1 April 2020. (SFA circular dated 17 Mar 2020, “Maximum Limits for Marine Biotoxins, Inorganic Arsenic, and
			Toxins covered in AZA	TEF								
			AZA-1	1								
			AZA-2	0.7								
AZA-3	0.5											

Contaminant	Commodity	Maximum limit	Notes	Regulation
				Methanol in Food")

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