

GSO 193:2021: Gulf Technical Regulation: Contaminants and toxins in food and feed (Edition 1, 01/07/2021)

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The instrument

This page records the heavy-metal maximum levels set by GSO 193:2021: Gulf Technical Regulation: Contaminants and toxins in food and feed (Edition 1, 01/07/2021), the instrument of GCC Standardization Organization (GSO), 2021. Every value below is transcribed into the Heavy Metal Index register from the primary text and is the value an HMTc standard cites when this jurisdiction binds a certification limit. It is a record of law, not an HMTc threshold.

GSO 193:2021, official text

Published by GCC Standardization Organization (GSO).

PRIMARY SOURCE 

Maximum levels

All values µg/kg (ppb), in the basis the instrument states. 115 maximum levels across 7 analytes and 93 product categories, grouped by analyte and ordered by limit.

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
LEAD (PB) 42 LIMITS			
10	as consumed	Infant formula, formula for special medical purposes intended for infants, and follow-up formula	GSO 193:2021 table
10	water as consumed	Natural mineral waters	GSO 193:2021 table
20	whole commodity	Milk	GSO 193:2021 table
20	food as consumed	Secondary milk products	GSO 193:2021 table

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
30	ready to drink; whole commodity not concentrated or reconstituted to original juice concentration	Fruit juices	GSO 193:2021 table
40	whole commodity as prepared for wholesale or retail distribution	Fat spreads and blended spreads	GSO 193:2021 table
40	ready to drink; whole commodity not concentrated or reconstituted to original juice concentration	Grape juice	GSO 193:2021 table
50	product as consumed	Canned chestnuts and canned chestnuts puree	GSO 193:2021 table
50	product as sold/concentrated	Concentrated fruit juices and fruit nectars	GSO 193:2021 table
50	ready to drink; whole commodity not concentrated or reconstituted to original juice concentration	Fruit juices obtained exclusively from berries and other small fruits	GSO 193:2021 table
50	whole commodity after removal of stems; sweet corn kernels plus cob without husk	Fruiting vegetables	GSO 193:2021 table
50	product as consumed	Preserved tomatoes	GSO 193:2021 table
80	whole commodity as prepared for wholesale or retail distribution	Edible fats and oils	GSO 193:2021 table
100	whole commodity after removal of caps and stems	Berries and other small fruits	GSO 193:2021 table
100	whole commodity after removal of roots, adhering soil, and easily detached parchment skin	Brassica vegetables	GSO 193:2021 table
100	whole commodity after removal of roots, adhering soil, and easily detached parchment skin	Bulb vegetables	GSO 193:2021 table
100	product as consumed	Canned fruits	GSO 193:2021 table
100	product as consumed	Canned vegetables	GSO 193:2021 table
100	whole commodity after commodity-specific trimming/removal described in the table	Fruits	GSO 193:2021 table
100	whole commodity as consumed	Legume vegetables	GSO 193:2021 table
100	whole commodity without bones	Meat and fat of poultry	GSO 193:2021 table
100	whole commodity without bones	Meat of cattle and sheep	GSO 193:2021 table
100	product as consumed	Pickled cucumbers (cucumber pickles)	GSO 193:2021 table

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
100	whole commodity	Pulses	GSO 193:2021 table
100	whole commodity after removing tops and adhering soil; potato as peeled potato	Root and tuber vegetables	GSO 193:2021 table
200	whole commodity	Cereal grains	GSO 193:2021 table
200	whole commodity after removal of caps and stems	Cranberry	GSO 193:2021 table
200	fruit with stem	Currants	GSO 193:2021 table
200	whole commodity after removal of caps and stems	Elderberry	GSO 193:2021 table
300	whole commodity in general after removing the digestive tract	Fish	GSO 193:2021 table
300	whole commodity	Fresh farmed mushrooms (common mushrooms, shiitake mushrooms, and oyster mushrooms)	GSO 193:2021 table
300	whole commodity as usually marketed after removal of obviously decomposed or withered leaves	Leafy vegetables	GSO 193:2021 table
400	product as consumed	Jams, jellies and marmalades	GSO 193:2021 table
400	product as consumed	Mango chutney	GSO 193:2021 table
400	product as consumed	Table olives	GSO 193:2021 table
500	whole commodity	Cattle, edible offal of	GSO 193:2021 table
500	muscle meat	Crustaceans	GSO 193:2021 table
500	whole commodity	Poultry, edible offal of	GSO 193:2021 table
1000	whole commodity	Cephalopods	GSO 193:2021 table
1000	whole commodity as prepared for wholesale or retail distribution	Salt, food grade	GSO 193:2021 table
1500	whole commodity	Bivalve molluscs	GSO 193:2021 table
3000	product as placed on the market	Food supplements	GSO 193:2021 table
INORGANIC ARSENIC (IAS) 5 LIMITS			

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
100	whole commodity as prepared for wholesale or retail distribution	Fish oils covered by CXS 329-2017	GSO 193:2021 table
100	whole commodity	Rice for baby and infant food	GSO 193:2021 table
200	whole commodity	Rice, polished	GSO 193:2021 table
250	whole commodity	Rice, husked	GSO 193:2021 table
300	whole commodity	Rice products	GSO 193:2021 table
TOTAL ARSENIC (TAS) 4 LIMITS			
10	water as consumed	Natural mineral waters	GSO 193:2021 table
100	whole commodity as prepared for wholesale or retail distribution	Edible fats and oils other than fish oils	GSO 193:2021 table
100	whole commodity as prepared for wholesale or retail distribution	Fat spreads and blended spreads	GSO 193:2021 table
500	whole commodity as prepared for wholesale or retail distribution	Salt, food grade	GSO 193:2021 table
CADMIUM (CD) 40 LIMITS			
3	water as consumed	Natural mineral waters	GSO 193:2021 table
5	liquid product as consumed	Liquid formulae manufactured from cows' milk proteins or protein hydrolysates	GSO 193:2021 table
10	liquid product as consumed	Liquid formulae manufactured from soya protein isolates, alone or in a mixture with cows' milk proteins	GSO 193:2021 table
10	powder product as placed on the market	Powdered formulae manufactured from cows' milk proteins or protein hydrolysates	GSO 193:2021 table
20	powder product as placed on the market	Powdered formulae manufactured from soya protein isolates, alone or in a mixture with cows' milk proteins	GSO 193:2021 table
40	product as placed on the market	Processed cereal-based foods and baby foods for infants and young children	GSO 193:2021 table
50	whole commodity as marketed after trimming/removal described in the table	Brassica vegetables	GSO 193:2021 table
50	whole commodity after removal of roots, adhering soil, and easily detached parchment skin	Bulb vegetables	GSO 193:2021 table
50	whole commodity after removal of stems; sweet corn kernels plus cob without husk	Fruiting vegetables	GSO 193:2021 table

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
50	whole commodity	Meat of bovine animals, sheep and poultry	GSO 193:2021 table
50	muscle meat	Muscle meat of fish with exception mentioned	GSO 193:2021 table
50	whole commodity	Vegetables and fruit, with exception mentioned	GSO 193:2021 table
100	whole commodity	Cereal grains	GSO 193:2021 table
100	whole commodity as consumed	Legume vegetables	GSO 193:2021 table
100	whole commodity as prepared for wholesale or retail distribution	Milk chocolate with <30% total dry cocoa solids	GSO 193:2021 table
100	muscle meat	Muscle meat of fish: mackerel, tuna and bichique	GSO 193:2021 table
100	whole commodity	Pulses	GSO 193:2021 table
100	whole commodity after removing tops and adhering soil; potato as peeled potato	Root and tuber vegetables	GSO 193:2021 table
100	whole commodity as marketed after trimming/removal described in the table	Stalk and stem vegetables	GSO 193:2021 table
150	muscle meat	Muscle meat of fish: bullet tuna	GSO 193:2021 table
200	whole commodity	Horsemeat	GSO 193:2021 table
200	whole commodity as usually marketed after removal of obviously decomposed or withered leaves	Leafy vegetables	GSO 193:2021 table
200	whole commodity	Mushroom	GSO 193:2021 table
200	whole commodity	Soy beans	GSO 193:2021 table
200	whole commodity	Wheat	GSO 193:2021 table
250	muscle meat	Muscle meat of fish: anchovy, swordfish and sardine	GSO 193:2021 table
300	whole commodity as prepared for wholesale or retail distribution	Chocolate with <50% total dry cocoa solids; milk chocolate with >=30% total dry cocoa solids	GSO 193:2021 table
400	whole commodity	Rice, polished	GSO 193:2021 table
500	muscle meat	Crustaceans	GSO 193:2021 table

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
500	whole commodity	Liver of bovine animals, sheep, poultry and horse	GSO 193:2021 table
500	whole commodity as prepared for wholesale or retail distribution	Salt, food grade	GSO 193:2021 table
600	whole commodity as sold to the final consumer or as ingredient in sweetened cocoa powder	Cocoa powder (drinking chocolate)	GSO 193:2021 table
800	whole commodity as prepared for wholesale or retail distribution	Chocolate containing or declaring $\geq 50\%$ to $< 70\%$ total cocoa solids on a dry matter basis	GSO 193:2021 table
900	whole commodity as prepared for wholesale or retail distribution	Chocolate containing or declaring $\geq 70\%$ total cocoa solids on a dry matter basis	GSO 193:2021 table
1000	product as placed on the market	Food supplements with exception mentioned	GSO 193:2021 table
1000	whole commodity	Fungi with exception mentioned	GSO 193:2021 table
1000	whole commodity	Kidney of bovine animals, sheep, poultry and horse	GSO 193:2021 table
2000	whole commodity after removal of shell	Cephalopods	GSO 193:2021 table
2000	whole commodity after removal of shell	Marine bivalve molluscs	GSO 193:2021 table
3000	product as placed on the market	Food supplements consisting exclusively or mainly of dried seaweed, products derived from seaweed, or dried bivalve molluscs	GSO 193:2021 table
MERCURY, TOTAL (THG) 9 LIMITS			
1	water as consumed	Natural mineral waters	GSO 193:2021 table
100	product as placed on the market	Food supplements	GSO 193:2021 table
100	whole commodity as prepared for wholesale or retail distribution	Salt food grade	GSO 193:2021 table
1000	whole commodity or muscle meat as applicable	Fishery products and muscle meat of fish with exception mentioned; crustaceans and crabs	GSO 193:2021 table
1000	pink kernels only	Wheat pink kernels	GSO 193:2021 table
1200	whole commodity after removing the digestive tract	Tuna	GSO 193:2021 table
1500	whole commodity after removing the digestive tract	Alfonsino	GSO 193:2021 table
1600	whole commodity after removing the digestive tract	Shark	GSO 193:2021 table

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
1700	whole commodity after removing the digestive tract	Marlin	GSO 193:2021 table
METHYLMERCURY (MEHG) 5 LIMITS			
1000	whole commodity fresh or frozen, in general after removing the digestive tract	Crustaceans and crabs	GSO 193:2021 table
1200	whole commodity fresh or frozen, in general after removing the digestive tract	Tuna	GSO 193:2021 table
1500	whole commodity fresh or frozen, in general after removing the digestive tract	Alfonsino	GSO 193:2021 table
1600	whole commodity fresh or frozen, in general after removing the digestive tract	Shark	GSO 193:2021 table
1700	whole commodity fresh or frozen, in general after removing the digestive tract	Marlin	GSO 193:2021 table
TIN (SN) 10 LIMITS			
50000	product as consumed	Canned baby foods and processed cereal-based foods for infants and young children, excluding dried and powdered products	GSO 193:2021 table
50000	as consumed	Canned dietary foods for special medical purposes intended specifically for infants, excluding dried and powdered products	GSO 193:2021 table
50000	as consumed	Canned infant formulae and follow-on formulae, excluding dried and powdered products	GSO 193:2021 table
50000	product in containers other than tinsplate containers	Cooked cured chopped meat	GSO 193:2021 table
50000	product in containers other than tinsplate containers	Cooked cured ham	GSO 193:2021 table
50000	product in containers other than tinsplate containers	Cooked cured pork shoulder	GSO 193:2021 table
50000	product in containers other than tinsplate containers	Corned beef	GSO 193:2021 table
50000	product in containers other than tinsplate containers	Luncheon meat	GSO 193:2021 table
150000	product as consumed	Canned beverages	GSO 193:2021 table
250000	product as consumed	Canned foods (other than beverages)	GSO 193:2021 table

BASIS Values appear in the basis the instrument states; no conversion is applied on this page. A standard citing a value in a different basis discloses the conversion on its own derivation table.

Where HMTc cites it

Cells where this instrument holds the strictest government value in force among credible regulators, and therefore binds a published HMTc limit.

NO PUBLISHED STANDARD IS BOUND BY THIS INSTRUMENT YET

A limit recorded above binds nothing today only because another government holds a stricter value for every published cell. It may still bind later, as other jurisdictions relax or as a new subcategory is published.

How this interacts with HMTc

HMTc certification standards adopt the *strictest existing* maximum level set by any credible government, applied cell-by-cell. Where this instrument holds the strictest value for a (product, analyte) cell, it binds the HMTc limit and the standard cites this page. This page does not set or justify any HMTc threshold; it records the sovereign requirement the program measures against.

A reference page is a record of law, not an HMTc threshold. It states what a government requires; the standard page states what the program requires, and names which instrument binds each cell.