

Thailand MOPH Notification 414:2020 - food contaminant maximum levels

Karen Pendergrass · ORCID 0000-0002-2348-7259 · 2020-11-16

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<https://heavymetalcertified.com/regulations/thailand-moph-notification-414-2020-contaminants-food>.
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The instrument

This page records the heavy-metal maximum levels set by Thailand MOPH Notification 414:2020 - food contaminant maximum levels, the instrument of Thailand Ministry of Public Health, 2020. 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.

Transcribed into the Heavy Metal Index regulatory register from the primary text published by Thailand Ministry of Public Health; a direct primary-source URL is not tracked for this instrument.

Maximum levels

All values µg/kg (ppb), in the basis the instrument states. 91 maximum levels across 7 analytes and 75 product categories, grouped by analyte and ordered by limit.

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
LEAD (PB)	42 LIMITS		
10	formula as consumed	infant formula, formula for special medical purposes intended for infants, and follow-up formula	Annex 1 Table 1 lead row
20	liquid milk or further-processing milk	milk and secondary milk products	Annex 1 Table 1 lead row
30	ready to drink	fruit juices excluding juices exclusively from berries and other small fruits	Annex 1 Table 1 lead row
40	as prepared for wholesale or retail distribution	fat spreads and blended spreads	Annex 1 Table 1 lead row
40	ready to drink	grape juice	Annex 1 Table 1 lead row
50	product as consumed	canned chestnuts and canned chestnut puree	Annex 1 Table 1 lead row

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
50	ready to drink	fruit juices obtained exclusively from berries and other small fruits, excluding grape juice	Annex 1 Table 1 lead row
50	edible portion	fruiting vegetables	Annex 1 Table 1 lead row
50	product as placed on market	preserved tomatoes	Annex 1 Table 1 lead row
80	as prepared for wholesale or retail distribution	edible fats and oils	Annex 1 Table 1 lead row
100	whole commodity edible portion	berries and other small fruits excluding cranberry, currant, and elderberry	Annex 1 Table 1 lead row
100	as marketed edible portion	Brassica vegetables excluding kale and leafy Brassica vegetables	Annex 1 Table 1 lead row
100	edible portion	bulb vegetables	Annex 1 Table 1 lead row
100	product as consumed	canned fruits	Annex 1 Table 1 lead row
100	product as consumed	canned vegetables	Annex 1 Table 1 lead row
100	edible offal	edible offal of poultry including heart, kidney, liver, stomach, and thymus	Annex 1 Table 1 lead row
100	whole commodity edible portion	fruits excluding cranberry, currant, and elderberry	Annex 1 Table 1 lead row
100	whole commodity as consumed	legume vegetables	Annex 1 Table 1 lead row
100	whole commodity without bones	meat and fat of poultry	Annex 1 Table 1 lead row
100	whole commodity without bones	meat of cattle, pigs, and sheep including fat from the meat	Annex 1 Table 1 lead row
100	product as consumed	pickled cucumbers (cucumber pickles)	Annex 1 Table 1 lead row
100	edible portion	root and tuber vegetables	Annex 1 Table 1 lead row
100	whole commodity	wine	Annex 1 Table 1 lead row
150	edible offal	edible offal of pig including blood, heart, kidney, liver, and tongue	Annex 1 Table 1 lead row
200	whole commodity	cereal grains excluding buckwheat, canihua, and quinoa	Annex 1 Table 1 lead row
200	whole commodity edible portion	cranberry	Annex 1 Table 1 lead row
200	fruit with stem	currants	Annex 1 Table 1 lead row
200	edible offal	edible offal of cattle including brain, head, heart, kidney, liver, tongue, and stomach	Annex 1 Table 1 lead row
200	whole commodity edible portion	elderberry	Annex 1 Table 1 lead row
200	whole commodity	pulses	Annex 1 Table 1 lead row
300	ready to drink	electrolyte drinks	Annex 1 Table 1 lead row

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
300	whole commodity edible portion	fish	Annex 1 Table 1 lead row
300	fresh whole commodity	fresh farmed common mushrooms, shiitake mushrooms, and oyster mushrooms	Annex 1 Table 1 lead row
300	as marketed edible portion	leafy vegetables including leafy Brassica vegetables but excluding spinach	Annex 1 Table 1 lead row
400	product as consumed	jams, jellies, and marmalades	Annex 1 Table 1 lead row
400	product as consumed	mango chutney	Annex 1 Table 1 lead row
400	product as consumed	table olives	Annex 1 Table 1 lead row
500	ready to drink	tea and herbal tea	Annex 1 Table 1 lead row
1000	product as placed on market	food other than the listed lead categories	Annex 1 Table 1 lead residual row
1000	as prepared for consume	food supplement	Annex 1 Table 1 lead row
2000	product as consumed	black egg, century egg, millennium egg, or preserved egg	Annex 1 Table 1 lead row
2000	product as placed on market	food-grade salt	Annex 1 Table 1 lead row
INORGANIC ARSENIC (IAS) 4 LIMITS			
100	as prepared for wholesale or retail distribution	fish oils	Annex 1 Table 1 inorganic arsenic row
200	whole commodity	polished rice	Annex 1 Table 1 inorganic arsenic row
350	whole commodity	husked rice	Annex 1 Table 1 inorganic arsenic row
2000	product as placed on market	other marine animals or plants and their products	Annex 1 Table 1 inorganic arsenic row
TOTAL ARSENIC (TAS) 6 LIMITS			
100	as prepared for wholesale or retail distribution	edible fats and oils	Annex 1 Table 1 total arsenic row
100	as prepared for wholesale or retail distribution	fat spreads and blended spreads	Annex 1 Table 1 total arsenic row
200	as prepared for consume	tea and herbal tea	Annex 1 Table 1 total arsenic row
500	product as placed on market	food-grade salt	Annex 1 Table 1 total arsenic row
2000	product as placed on market	food other than the listed arsenic categories	Annex 1 Table 1 total arsenic residual row
2000	as prepared for consume	food supplement	Annex 1 Table 1 total arsenic row
CADMIUM (CD) 21 LIMITS			

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
50	as marketed edible portion	Brassica vegetables excluding Brassica leafy vegetables	Annex 1 Table 1 cadmium row
50	edible portion	bulb vegetables	Annex 1 Table 1 cadmium row
50	edible portion	fruiting vegetables	Annex 1 Table 1 cadmium row
100	whole commodity	cereal grains excluding buckwheat, canihua, quinoa, wheat, and rice	Annex 1 Table 1 cadmium row
100	whole commodity as consumed	legume vegetables	Annex 1 Table 1 cadmium row
100	whole commodity	pulses excluding dried soya bean	Annex 1 Table 1 cadmium row
100	edible portion	root and tuber vegetables excluding celeriac	Annex 1 Table 1 cadmium row
100	as marketed edible portion	stalk and stem vegetables	Annex 1 Table 1 cadmium row
200	as marketed edible portion	leafy vegetables including Brassica leafy vegetables	Annex 1 Table 1 cadmium row
200	whole commodity	wheat including common wheat, durum wheat, spelt, and emmer	Annex 1 Table 1 cadmium row
300	as prepared for wholesale or retail distribution	food supplement	Annex 1 Table 1 cadmium row
300	dried materials	tea and herbal tea	Annex 1 Table 1 cadmium row
400	whole commodity	polished rice	Annex 1 Table 1 cadmium row
500	product as placed on market	food-grade salt	Annex 1 Table 1 cadmium row
800	as prepared for wholesale or retail distribution	chocolate products containing or declaring $\geq 50\%$ and $< 70\%$ total cocoa solids on a dry matter basis	Annex 1 Table 1 cadmium row
900	as prepared for wholesale or retail distribution	chocolate products containing or declaring $\geq 70\%$ total cocoa solids on a dry matter basis	Annex 1 Table 1 cadmium row
1000	whole commodity edible portion	fish	Annex 1 Table 1 cadmium row
2000	whole commodity without viscera	cephalopods including cuttlefishes, octopuses, and squids	Annex 1 Table 1 cadmium row
2000	edible portion	gastropoda such as apple snail, golden apple snail, river snail, and pond snail	Annex 1 Table 1 cadmium row
2000	edible portion	marine bivalve mollusks such as clams, cockles, and mussels, excluding oysters and scallops	Annex 1 Table 1 cadmium row
2000	dried seaweed	seaweed	Annex 1 Table 1 cadmium row

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
MERCURY, TOTAL (THG) 3 LIMITS			
20	product as placed on market	food other than the listed total-mercury categories	Annex 1 Table 1 mercury residual row
100	product as placed on market	food-grade salt	Annex 1 Table 1 mercury row
500	as prepared for consume	food supplement	Annex 1 Table 1 mercury row
METHYLMERCURY (MEHG) 6 LIMITS			
500	product as placed on market	other marine animals or plants	Annex 1 Table 1 methylmercury row
1000	fresh or frozen edible portion	predator fish other than marlin, alfonsino, shark, and tuna	Annex 1 Table 1 methylmercury row
1200	fresh or frozen edible portion	tuna	Annex 1 Table 1 methylmercury row
1500	fresh or frozen edible portion	alfonsino	Annex 1 Table 1 methylmercury row
1600	fresh or frozen edible portion	shark	Annex 1 Table 1 methylmercury row
1700	fresh or frozen edible portion	marlin	Annex 1 Table 1 methylmercury row
TIN (SN) 9 LIMITS			
50000	product as consumed	cooked cured chopped meat in containers other than tinplate containers	Annex 1 Table 1 tin row
50000	product as consumed	cooked cured ham in containers other than tinplate containers	Annex 1 Table 1 tin row
50000	product as consumed	cooked cured pork shoulder in containers other than tinplate containers	Annex 1 Table 1 tin row
50000	product as consumed	corned beef in containers other than tinplate containers	Annex 1 Table 1 tin row
50000	product as consumed	luncheon meat in containers other than tinplate containers	Annex 1 Table 1 tin row
150000	product as consumed	canned beverages	Annex 1 Table 1 tin row
250000	product as consumed	canned foods other than beverages	Annex 1 Table 1 tin row
250000	product as placed on market	foods other than the listed tin categories	Annex 1 Table 1 tin residual row
250000	product as consumed	jams, jellies, and marmalades	Annex 1 Table 1 tin row

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.