

Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011: consolidated Compendium, Version IX

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The instrument

This page records the heavy-metal maximum levels set by Food Safety and Standards (Contaminants, Toxins and Residues) Regulations, 2011: consolidated Compendium, Version IX, the instrument of Food Safety and Standards Authority of India (FSSAI), Ministry of Health and Family Welfare, 2017. 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.

Food Safety and Standards (Contaminants, Toxi..., official text

Published by Food Safety and Standards Authority of India (FSSAI), Ministry of Health and Family Welfare.

PRIMARY SOURCE ↗

Maximum levels

All values µg/kg (ppb), in the basis the instrument states. 131 maximum levels across 6 analytes and 101 product categories, grouped by analyte and ordered by limit.

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
LEAD (PB) 64 LIMITS			
10	expressed in mg/L	Natural mineral water	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
20	parts per million by weight; ready to use	Infant formula (ready to use)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
20	parts per million by weight	Milks (A concentration factor applies to partially or wholly dehydrated milks.)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
20	parts per million by weight; as consumed	Secondary milk products (as consumed)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
50	parts per million by weight; as consumed	Fruit Juices (including nectars, ready to drink)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Assorted subtropical fruits, edible peel	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Assorted subtropical fruits, inedible peel	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Bulb vegetables	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Citrus fruits	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Edible fats and oils (edible fats and oils not covered by individual standards)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Fruiting vegetables other than cucurbits (excluding mushrooms)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Fruiting vegetables, cucurbits	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Margarine	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
100	parts per million by weight	Meat of cattle, sheep and pig (also applies to fat from meat)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Minarine	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Named animal fats (lard, rendered pork fat, premier jus and edible tallow)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Olive oil, refined	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Olive oil, virgin	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Olive, residue oil (olive pomace oil)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Pome fruits	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Poultry fats	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Poultry meat	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Root and tuber vegetables	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Stone fruits	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Vegetable oils, crude (oils of arachis, babasu, coconut, cotton seed, grape seed, maize, mustard seed, palm kernel, palm, rape seed, safflower seed, sesame seed, soya bean, and sunflower seed, and palm olein, stearin and superolein and other oils but excluding cocoa butter)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
100	parts per million by weight	Vegetable oils, edible (oils of arachis, babasu, coconut, cotton seed, grape seed, maize, mustard seed, palm kernel, palm, rape seed, safflower seed, sesame seed, soya bean, and sunflower seed, and palm olein, stearin and superolein and other oils but excluding cocoa butter)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
200	parts per million by weight	Berries and other small fruits	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
200	parts per million by weight	Cereal grains, except buckwheat, canihua and quinoa	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
200	parts per million by weight	Legume vegetables	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
200	parts per million by weight	Pulses	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
200	parts per million by weight	Wine	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
300	parts per million by weight	Brassica vegetables excluding Kale	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
300	parts per million by weight	Fish	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
300	parts per million by weight	Leafy vegetables (including brassica leafy vegetables but excluding spinach)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
500	parts per million by weight	Cattle, edible offal of	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
500	parts per million by weight	Crustaceans	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
500	parts per million by weight	Pig, edible offal of	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
500	parts per million by weight	Poultry, edible offal of	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned asparagus	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned carrots	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned chestnuts and canned chestnut puree	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned fruit cocktail	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned grapefruit	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned green beans and Canned wax beans	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned green peas	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned mandarin oranges	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned mangoes	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned mature processed peas	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned mushrooms	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
1000	parts per million by weight	Canned palmito	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned pineapple	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned raspberries	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned strawberries	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned sweetcorn	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned tomatoes	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Canned tropical fruit salad	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Cephalopods	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Jams (fruit preserves) and jellies	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Mango chutney	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Pickled cucumbers (cucumber pickles)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Table olives	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
1500	parts per million by weight	Bivalve Molluscs	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1500	parts per million by weight	Processed tomato concentrates	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
2000	parts per million by weight	Salt, food grade	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
TOTAL ARSENIC (TAS) 13 LIMITS			
10	expressed in mg/L	Natural mineral water	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Edible fats and oils (edible fats and oils not covered by individual standards)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Margarine	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Minarine	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Named animal fats (lard, rendered pork fat, premier jus and edible tallow)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Olive oil, refined	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Olive oil, virgin	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Olive, residue oil (olive pomace oil)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Vegetable oils, crude (oils of arachis, babasu, coconut, cottonseed, grapeseed, maize, mustardseed, palm kernel, palm, rapeseed, safflower seed, sesameseed, soya bean, and sunflowerseed, and palm olein, stearin and superolein).	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
100	parts per million by weight	Vegetable oils, edible (oils of arachis, babasu, coconut, cottonseed, grapeseed, maize, mustardseed, palm kernel, palm, rapeseed, safflower seed, sesame seed, soya bean, and sunflowerseed, and palm olein, stearin and superolein).	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
500	parts per million by weight	Salt, food grade	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
76000	parts per million by weight	Fish and Crustaceans	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
86000	parts per million by weight	Molluscs	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
CADMIUM (CD) 19 LIMITS			
3	expressed in mg/L	Natural mineral water	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
50	parts per million by weight	Brassica vegetables	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
50	parts per million by weight	Bulb vegetables	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
50	parts per million by weight	Fruiting vegetables other than cucurbits (excluding tomatoes and edible fungi)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
50	parts per million by weight	Fruiting vegetables, cucurbits	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Cereal grains, except buckwheat, canihua and quinoa (excluding wheat and rice; and bran and germ)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Legume vegetables	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Potato, peeled	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
100	parts per million by weight	Pulses, excluding soybean dry	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Root and tuber vegetables, excluding potato and celeriac	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
100	parts per million by weight	Stalk and stem vegetables	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
200	parts per million by weight	Leafy vegetables	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
200	parts per million by weight	Wheat	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
300	parts per million by weight	Fish	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
400	parts per million by weight	Rice, polished	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
500	parts per million by weight	Crustaceans	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
500	parts per million by weight	Salt, food grade	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
2000	parts per million by weight	Bivalve Molluscs	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
2000	parts per million by weight	Cephalopods	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
MERCURY, TOTAL (THG) 4 LIMITS			
1	expressed in mg/L	Natural mineral water	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
100	parts per million by weight	Salt, food grade	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
500	parts per million by weight	Non-predatory fish, crustaceans, cephalopods, molluscs	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
1000	parts per million by weight	Predatory Fish (Tuna, Marlin, Sword Fish, Elasmobranch)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
TIN (SN) 29 LIMITS			
50000	parts per million by weight	Cooked cured chopped meat (for products in other containers)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
50000	parts per million by weight	Cooked cured ham (for products in other containers)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
50000	parts per million by weight	Cooked cured pork shoulder (for products in other containers)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
50000	parts per million by weight	Corned beef (for products in other containers)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
50000	parts per million by weight	Luncheon meat (for products in other containers)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
150000	parts per million by weight	Canned beverages	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
200000	parts per million by weight	Canned fish products	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
200000	parts per million by weight	Cooked cured ham (for products in tinplate containers)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
200000	parts per million by weight	Cooked cured pork shoulder (for products in tinplate containers)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
200000	parts per million by weight	Corned beef (for products in tinplate containers)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
200000	parts per million by weight	Luncheon meat (for products in tinplate containers)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Canned chestnuts and chestnut puree	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Canned citrus fruits	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Canned foods other than beverages	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Canned fruit cocktail	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Canned mangoes	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Canned mushrooms	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Canned pineapple	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Canned raspberries	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Canned stone fruits	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Canned strawberries	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016

LIMIT MG/KG	BASIS	PRODUCT SCOPE	PROVISION
250000	parts per million by weight	Canned tomatoes	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Canned tropical fruit salad	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Canned vegetables	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Cooked cured chopped meat (for products in tinplate containers)	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Mango Chutney	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Pickled cucumber	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Processed tomato concentrates	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
250000	parts per million by weight	Table olives	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016
TOTAL CHROMIUM (CR) 2 LIMITS			
10000	parts per million by weight	Gelatin	Food Safety and Standards (Contaminants, Toxins and Residues) Amendment Regulations, 2015
12000	parts per million by weight	All fishery products	Food Safety and Standards (Contaminants, toxins and Residues) Third Amendment Regulations, 2016

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. 6 published standards cite it.

Infant formula (powder) BINDS TOTAL <u>ARSENIC</u> (TAS) · <u>TIN</u> (SN)	STRICTEST
Infant formula (ready-to-feed, liquid) BINDS TIN (SN)	STRICTEST
Baby cereals & dry grain products BINDS TOTAL ARSENIC (TAS) · TIN (SN)	STRICTEST
Non-root vegetable purées BINDS TOTAL ARSENIC (TAS) · TIN (SN)	STRICTEST
Mixed meals (meat & grain combinations) BINDS TOTAL ARSENIC (TAS) · TIN (SN)	STRICTEST
Teething biscuits & finger snacks BINDS TOTAL ARSENIC (TAS) · TIN (SN)	STRICTEST

Rows appear here only once the citing standard is published. A limit recorded above that binds nothing today 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.