

H&M GROUP CHEMICAL RESTRICTIONS 2025

RESTRICTED SUBSTANCES LIST (RSL)

Food Contact Products

Product Compliance Valid for all brands in the H&M Group.



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General

H&M Group Chemical Restrictions consist of several parts regarding different product types; this document concerns Chemical Restrictions for **Food Contact Products**.

An introduction to and general information about the H&M Group Chemical Restrictions are available in a separate document: *H&M Group Restricted Substance List (RSL) Introduction and Commitment - All Product Types, document ID 00432*. Please read that document and refer to the examples provided there, before proceeding with the product specific restrictions.

Each limit specified in this document is valid for homogeneous parts of the concerned product if not otherwise stated. Test methods are specified when relevant in this document. In case of undated test method, the latest version is valid.

Definitions

Concentration Limit	The substance must not be present in the product at concentrations above this limit.
Not Detected	The substance must not be present in the finished product at concentrations above the analytical reporting limit.
Usage ban	The substance must not be used in production and it must not be added to the product. $^{\rm 1}$
Organoleptic	Refers to any sensory property of a product, including smell, taste, color and feel.
Substances defined as hazardous due to intrinsic properties	Persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB), carcinogenic, mutagenic and toxic for reproduction (CMR), endocrine disruptors (ED) or equivalent concern

Abbreviations

CAS no	Chemical Abstracts Service number, an identification number for chemicals in this database.
CFR	Code of Federal Regulations
GMP	Good Manufacturing Practice
ppm	Parts per million, which is the same as mg/kg.
Percentage	Percentage is weight by weight, % w/w
PFAS	Perfluoroalkyl and polyfluoroalkyl substances: Fluorinated substances that contain at least one fully fluorinated methyl or methylene carbon atom (without any hydrogen, chlorine, bromine or iodine atoms attached to it)
PFCs	Perfluorinated and polyfluorinated chemicals
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
SML	Specific Migration Limit in food or in food simulants.
SML(T)	Total Specific Migration Limit in food or in food simulants. SML(T) is the maximum permitted amvomount of a given substance originating from the release of several given substances from a material or article into food or food simulants.

¹ Impurities at low concentrations of these substances may be accepted only if technically unavoidable due to e.g. raw materials, formation in the manufacturing process, storage or packaging.

Requirements – all Food Contact Materials

If a group of substances is marked with an asterisk* in the tables below, each included substance is specified in Appendix.

Requirement/Restricted substance	Limit/Requirement
Europe; Food Contact Products Framework Regulation and GMP	All Food Contact products must comply with EU Framework Regulation concerning Food Contact Products no 1935/2004 ² and all regulations, directives and amendments under this framework regulation ³ . All Food Contact products must comply with Good Manufacturing Practice, Regulation 2023/2006 ⁴ .
USA; US legislation for food contact materials governed by the Food and Drug Administration (FDA)	All substances in Food Contact Products must be Generally Recognized As Safe (GRAS) and comply with the indirect additive database in Title 21 of the U.S Code of Federal Regulations (21 CFR) Parts 174, 175, 176, 177, 178.
China	All Food contact materials and articles must comply with GB4806.1 National Standard of Food Safety, General safety requirements of food contact materials and articles. Additives used shall comply with the provisions in GB 9685 National Food Safety Standard- Standard for the use of additives for food contact materials and articles.
South Korea	All Food Contact products must comply with South Korean Food Code Article 7 for standards and specifications for food utensils, containers and packages.
Japan	All Food contact products must comply with the Japanese food safety regulations, based on Food safety basic law (2003) and Food Sanitation law (1947). All food contact products must be tested at an official MHLW registered laboratory ⁵ who will issue certificate of analysis showing compliance with the Food sanitation law.
Taiwan Kazakhstan	All Food contact products must comply with the Food Sanitation Act and Taiwan's Sanitary Standard for Food Utensils, Containers and Packages.
Kazaknstan	All food contact products must comply with applicable GOST standards specified in this document.
Uruguay	All Food Contact products must comply with General criteria for food packaging and equipment in contact with food GMC Resolution number 03/92 and requirements in Decree 315/994.
Brazil	All Food Contact products must comply with General criteria for food packaging and equipment in contact with food RDC Resolution number 91/01. Brazilian Resolutions (RDCs) are harmonized with Mercosur Resolutions
	(GMC Resolutions). Brazilian Resolutions have a different numbering than these used in Mercosur.
Switzerland	All food contact products must comply with Ordinance on Materials and Articles (817.023.21) of Swiss Federal Department of Home Affairs (FDHA) Food Safety and Veterinary Office (FSVO).

² Regulation (EC) No 1935/2004 on materials and articles intended to come into contact with food

³ http://ec.europa.eu/food/food/chemicalsafety/foodcontact/index_en.htm

⁴ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:02006R2023-20080417

⁵ A list of the official MHLW registered laboratories can be found at the following MHLW website: http://www.mhlw.go.jp/english/topics/importedfoods/1-10.html

Requirement	Limit	
H&M Group Production and Documentation Requirements for Food Contact products ⁶	Production must follow H&M Group Production and Documentation Requirements for Food Contact products which includes requirements for good manufacturing practices (GMP), testing of food contact products, test methods, documentation and declaration of compliance.	
Substances of very high concern (SVHC) ⁷	1000 ppm, except if lower limit applies as per other parts of this document. Check the ECHA website for the updated list	
 Substances defined in REACH Article 57⁸ as hazardous due to the intrinsic properties: Carcinogenic, Mutagenic or toxic to Reproduction (CMR) category 1A/1B, Persistent, Bioaccumulative and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB), Causing probable serious effects to human health or the environment of an equivalent level of concern as those above (e.g. endocrine disrupters) 		
Sensory/ organoleptic properties	No change in sensory properties (smell and/or taste) of food. Shall be controlled with Sensory analysis. Not worse than Grade 2.5	
Restricted	Limit	
materials/substance		
Polycarbonate (PC) Plastic	Usage ban	
Polystyrene (PS) Plastic	Usage ban	
Acrylonitrile butadiene styrene (ABS)	Usage ban	
Acrylonitrile Styrene/Styrene Acrylonitrile (AS/SAN)	Usage ban	
Styrene based thermoplastic rubber/elastomer (TPR & TPE)	Usage ban	
Other Styrene based (co)polymers	Usage ban	
Polyvinylchloride (PVC)	Usage ban	
Recycled rubber	Usage ban	
Recycled plastic	Usage ban ⁹	
Bisphenols* and their derivatives, including but not limited Bisphenol A (BPA), Bisphenol S (BPS), Bisphenol F (BPF), Bisphenol B (BPB), Bisphenol AF (BPAF)	Usage ban	

⁶ Download the document at H&M Group Supplier Portal

 ⁷ http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp
 ⁸ http://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:02006R1907-20150601&from=EN

⁹ Possible for certain markets with specific conditions. Contact Product Compliance Department for evaluation and approval.

Biocides of all kinds (e.g. wood preservatives, antifungi functions, in-can preservatives etc.) Polychlorinated biphenyls (PCB) Azo dyes and pigments*	Are not allowed to be used without approval by H&M Group ¹⁰ . Usage ban Usage ban
Per- and poly-fluorinated chemicals (PFCs/PFASs)*	Usage ban
Phthalates*	Usage ban
Asbestos	Usage ban
Nanomaterials	Usage ban
"Nanomaterial" means a natural, incidental or manufactured material consisting of solid particles that are present, either on their own or as identifiable constituent particles in aggregates or agglomerates, and where 50 % or more of these particles in the number-based size distribution fulfil at least one of the following conditions: (a) one or more external dimensions of the particle are in the size range 1 nm to 100 nm;	
 (b) the particle has an elongated shape, such as a rod, fibre or tube, where two external dimensions are smaller than 1 nm and the other dimension is larger than 100 nm; (c) the particle has a plate-like shape, where one external dimension is smaller than 1 nm and the other dimensions are larger than 100 nm¹¹ 	

 $^{^{\}mbox{\tiny 10}}$ Contact your local H&M Production Office

¹¹ European commission recommendation on the definition of nanomaterial ((2022/C 229/01), Official Journal of the European Union, 14.06.2022.

Requirements - based on material type

Ceramic, Glass & Enamel

General Requirements for Ceramic, Glass, Enamel, Concrete, Soapstone and Marble

Below substances are usage ban. They shouldn't be intentionally added to the products or used in production. Stated limits are contamination limit values.

Restricted Materials/ Substances	Limit
Lead (Pb), total	≤ 90 ppm
Cadmium (Cd), total	≤ 40 ppm
Arsenic (As), total	≤ 100 ppm
Mercury (Hg), total	≤ 2.5 ppm

EU			
Ceramic			
Restricted substance	Limit/Requirement	Test method	
Category 1 Flatware			
Articles which cannot be fille	ed and articles which can be filled where the in	ternal depth ≤ 25 mm	
Lead (Pb)	0.7 mg/dm ²	EN 1388-1	
Cadmium (Cd)	0.07 mg/dm ²		
Zinc (Zn)	3 mg/article		
Barium (Ba)	1 mg/article		
Antimony (Sb)	1 mg/article		
Cobalt (Co)	0.02 mg/kg	Simulant: 4% acetic acid. Test	
		conditions: 22°C for 24 hours,	
Aluminium (Al)	1 mg/kg	3 successive migrations and	
Arsenic (As)	0.002 mg/kg	take the 3 rd migration results.	
Category 2			
Articles that can be filled			
Lead (Pb)	0.5 mg/l	EN 1388-1	
Cadmium (Cd)	0.2 mg/l		
Zinc (Zn)	3.0 mg/article (internal volume ≤1L) or,		
	3.0 mg/l (internal volume > 1L)		
Barium (Ba)	1.0 mg/article (internal volume ≤1L) or,		
	1.0 mg/l (internal volume > 1L)		
Antimony (Sb)	1.0 mg/article (internal volume ≤1L) or,		
	1.0 mg/l (internal volume > 1L)		
Cobalt (Co)	0.02 mg/kg	Simulant: 4% acetic acid. Test	
Aluminium (Al)	1 mg/kg	conditions: 22°C for 24 hours,	
Arsenic (As)	0.002 mg/kg	3 successive migrations and	
		take the 3 rd migration results.	
Category 3			
	d storage vessels having a capacity > than 3L		
Lead (Pb)	0.5 mg/l	EN 1388-1	
Cadmium (Cd)	0.1 mg/l (for storage ware > 3l)		
	0.05 mg/l (for cooking ware)		
Zinc (Zn)	3.0 mg/article (internal volume ≤1L) or,	EN 1388-1	

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	3.0 mg/l (internal volume > 1L)	
Barium (Ba)	1.0 mg/article (internal volume ≤1L) or,	
	1.0 mg/l (internal volume > 1L)	
Antimony (Sb)	1.0 mg/article (internal volume ≤1L) or,	
	1.0 mg/l (internal volume > 1L)	
Cobalt (Co)	0.02 mg/l	Simulant: 4% acetic acid. Test
		conditions: 22°C for 24 hours,
Aluminium (Al)	1 mg/kg	3 successive migrations and
Arsenic (As)	0.002 mg/kg	take the 3 rd migration results.
Drinking rim		
Cadmium (Cd)	0.2 (mg/article) and 0.07 mg/dm ²	EN 1388-1, specify the articles
Lead (Pb)	2 (mg/article) and 0.8 mg/dm ²	lip and rim surface area to
		calculate mg/dm ² (Danish
		Order on Food Contact
		Materials n. 681 of
		25/05/2020) ¹²
Cobalt (Co)	0.05 mg/article	Directive 84/500/EEC (ICP-
Zinc (Zn)	3.0 mg/article	MS),
Barium (Ba)	1.0 mg/article	DIN EN 1388-1
Antimony (Sb)	1.0 mg/article	

EU		
Glass		
Global migration	8 mg/dm2 or,	Decreto Ministeriale del
	50 mg/kg	21/3/1973, Capo V – Oggetti
		di Vetro
Category 1 Flatware		
Articles which cannot be filled	and articles which can be filled where the inte	ernal depth ≤ 25 mm
Lead (Pb)	0.8 mg/dm ²	ISO 6486-1
Cadmium (Cd)	0.07 mg/dm ²	
Cobalt (Co)	0.02 mg/kg	Simulant: 4% acetic acid. Test
		conditions: 22°C for 24 hours,
Aluminium (Al)	1 mg/kg	3 successive migrations and
Arsenic (As)	0.002 mg/kg	take the 3 rd migration results.
Category 2		
Articles that can be filled		
Lead (Pb)	0.5 mg/l	ISO 6486-1
Cadmium (Cd)	0.2mg/l	
Cobalt (Co)	0.02 mg/kg	Simulant: 4% acetic acid. Test
Aluminium (Al)	1 mg/kg	conditions: 22°C for 24 hours,
Arsenic (As)	0.002 mg/kg	3 successive migrations and
		take the 3 rd migration results.
Category 3		
Cooking ware; packaging and	storage vessels having a capacity > than 3L	
Lead (Pb)	0.5 mg/l (for storage ware > 3l)	

¹² Specify the articles lip and rim surface area in test report to calculate mg/dm² (Danish Order on Food Contact Materials n. 681 of 25/05/2020) <u>Fødevarekontaktmaterialebekendtgørelsen (retsinformation.dk)</u>

	0.5 mg/l (for cooking ware)	ISO 6486-1 and ISO 8391-1
Cadmium (Cd)	0.1 mg/l(for storage ware > 3l)	(ceramic cookware, test
	0.05 mg/l(for cooking ware)	method; release of lead and
		cadmium)
Cobalt (Co)	0.02 mg/l	Simulant: 4% acetic acid. Test
		conditions: 22°C for 24 hours,
Aluminium (Al)	1 mg/kg	3 successive migrations and
		take the 3 rd migration results.
Arsenic (As)	0.002 mg/kg	
Drinking rim		
Cadmium (Cd)	0.2 (mg/article) and 0.07 mg/dm ²	ISO 6486-1, specify the
Lead (Pb)	2 (mg/article) and 0.8 mg/dm ²	articles lip and rim surface
		area to calculate mg/dm ²
		(Danish Order on Food
		Contact Materials n. 681 of
		25/05/2020) ¹³
Cobalt (Co)	0.05 mg/article	Directive 84/500/EEC (ICP-
Zinc (Zn)	3.0 mg/article	MS),
Barium (Ba)	1.0 mg/article	DIN EN 1388-1 and 2
Antimony (Sb)	1.0 mg/article	

EU		
Enamel		
Restricted substance	Limit	Test method
Arsenic (As)	0.001mg/kg	Regeling van de Minister van
Boron (B)	1 mg/kg	Volksgezondheid, Welzijn van 14
Chromium (Cr)	0.1 mg/kg	maart 2014, kenmerk 328583-117560
Cobalt (Co)	0.02 mg/kg	VGP, Warenwetregeling verpakkingen en gebruiksartikelen.
Mercury (Hg)	0.005 mg/kg	
Rubidium (Rb)	1 mg/kg	
Selenium (Se)	0.01 mg/kg	
Strontium (Sr)	1 mg/kg	
Aluminium (Al)	1 mg/kg	ISO 4531
Antimony (Sb)	0,04 mg/kg	
Barium (Ba)	1,2 mg/kg	
Cadmium	0,005 mg/kg	
Copper (Cu)	4 mg/kg	
Lithium (Li)	0,48 mg/kg	
Lead (Pb)	0,01 mg/kg	
Manganese (Mn)	1,8 mg/kg	
Molybdenum (Mo)	0,12 mg/kg	
Nickel (Ni)	0,14 mg/kg	
Silver (Ag)	0,08 mg/kg	
Vanadium (Vd)	0,01 mg/kg	
Zinc (Zn)	5 mg/kg	

¹³ Specify the articles lip and rim surface area in test report to calculate mg/dm² (Danish Order on Food Contact Materials n. 681 of 25/05/2020) <u>Fødevarekontaktmaterialebekendtgørelsen (retsinformation.dk)</u>

US

Ceramic & Enamel

U.S. FDA Code of Federal Regulations Title 21 (Food and Drugs) - 21 CFR 174.5 – General provisions applicable to indirect food additives.

FDA Compliance Policy Guides Manual section 545.400 (CPG 7117.06 for Cd) & section 545.450 (CPG 7117.07 for Pb), test method ASTM C 738-94 and for cookware AOAC Official Method 984.19, followed by ICP-MS.

California Proposition 65 lead and cadmium in ceramic tableware products

Guide to heavy metal limits from the Society of Glass & Ceramic Decorated Products (SGCDpro for lip and rim), test method ASTM C 927

	Restricted substance/Limit					
Category	Cadmium	(Cd) mg/l	Lead (I	Pb) mg/l		
	US FDA	Prop 65	US FDA	Prop 65		
Flatware	0.5	1.853	3.0	0.226		
(depth < 25mm)						
Plates, Saucers – internal depth as measured from the lowest point to the horizontal plane passing through the upper rim						
Cups/mugs	0.5	0.189	0.5	0.100		
Small Hollowware	0.5	0.189	2.0	0.100		
(< 1.1 liter)						
Large Hollowware	0.25	0.049	1.0	0.100		
(≥ 1.1 Liter)						
Pitchers						
(≥ 1.1 Liter) Vessels used for juices or other acid beverages at or below room temperature.						
Creamers, coffeepots, and teapots are not considered to be pitchers. Depending on capacity, creamers, coffeepots and teapots will be considered small or large hollowware	0.5	0.049	0.5	0.100		
Cooking ware	0.01	-	0.1	-		
Lip and Rim area of ceramic drinking vessels with exterior decorations within 20 mm of the rim	0.4	0.4	4.0	0.5		
Exterior decoration	/	1.0 µg	/	1.0 µg		
Enamel Coatings						
Must comply with 21CFR 175.	300					

US;

Glass					
Must comply with California Proposition 65 lead and cadmium in glassware products					
_	Restricte	d substance/Limit			
Category	Cadmium (Cd) mg/l		Lead (Pb) mg/l		
	US FDA	Prop 65	US FDA	Prop 65	
Lip and Rim area of glass drinking vessels with exterior decorations within 20 mm of the rim	0.4	0.4	4.0	0.5	
Exterior decoration	/	1.0 µg	/	1.0 µg	

China								
Enamel, Ce	ramic and	Glass						
Must comply Glass Migration tes otherwise sta	ts shall com	ply with the p	provisions of		-			
Requirement	ent Limit/Requirement Material Standard						Test standards /inspection method	
Enamel wa	re							
	Non-cookir	ng ware	Cooking ware	2	Storage ware ≥ 3LGB(mg/dm²)4806.3Food			
	Flatware (mg/dm ²)	Hollowware (<3L) (mg/L)	Flatware (mg/dm²)	Hollowware (<3L) (mg/L)			Safety National Standards - Enamel ware	
Lead (Pb)	0.8	0.8	0.1	0.4	0	.1		GB31604.34
Cadmium (Cd)	0.07	0.07	0.05	0.07	0.	05	ware	GB31604.24
Ceramic wa	are							
	Flatware (mg/dm ²)	Storage ware ≥ 3L (mg/L)	Large hollowware (mg/L)	Small hollowware (mg/L)	Cup and mug (mg/L)	Cookin g ware (mg/L)	GB 4806.4 Food Safety	
Lead (Pb)	0.8	0.5	1.0	2.0	0.5	3.0	National Standards	GB31604.34
Cadmium (Cd)	0.07	0.25	0.25	0.30	0.25	0.30	- Ceramic ware	GB31604.24
Glass ware								
	Flatware (mg/dm ²)	Storage ware ≥ 3L (mg/L)	Large hollowware (mg/L)	Small hollowware (mg/L)	Cooking ware (mg/L)	Lip and rim (mg/L)	GB 4806.5 Food Safety	

China Enamel, Ceramic and Glass								
Must comply with China's mandatory material GB Standards relating to Enamel, Ceramic and Glass Migration tests shall comply with the provisions of GB31604.1 and GB 5009.156 unless otherwise stated in respective material standard.								
Requirement	Limit/Requirement Material Standard						Test standards /inspection method	
Lead (Pb)	0.8	0.5	0.75	1.5	0.5	4.0	National Standards	GB31604.34
Cadmium (Cd)	0.07	0.25	0.25	0.5	0.05	0.4	- glassware	GB31604.24

South Korea & Japan

Ceramic and Pottery

KR: Ministry of Food and Drug Safety - Standards and Specifications for Food Utensils, Containers and Packaging, methods 2-1, 2-2 and 2-9

JP: Japan Specifications and Standards for Food, Food Additives, etc. (1959 MHW Notice No. 370) with Amendments up to 2010 MHLW Notice No. 336

	Restricted s	Restricted substance/Limit			
Category	Cadmium (Cd)	Lead (Pb)	Arsenic (As)		
	mg/l	mg/l	mg/l		
Flatware	0.07 (mg/dm ²)	0.8 (mg/dm ²)	N/A		
(depth ≤ 25mm)	JP only	JP only			
Fillable article	0.5	2.0	0.05 (as As ₂ O ₃)		
< 1.1 Liter			Limited to pottery		
Fillable article	0.25	1.0	0.05 (as As ₂ O ₃)		
1.1 Liter ≤ capacity < 3 Liter			Limited to pottery		
Storage	0.25	0.5	0.05 (as As ₂ O ₃)		
≥ 3 Liter			Limited to pottery		
Cooking ware	0.05	0.5	0.05 (as As ₂ O ₃)		
	0.05	0.5	Limited to pottery		

South Korea & Japan

Glass

KR: Ministry of Food and Drug Safety - Standards and Specifications for Food Utensils, Containers and Packaging, methods 2-1 and 2-2

JP: Japan Specifications and Standards for Food, Food Additives, etc. (1959 MHW Notice No. 370) with Amendments up to 2010 MHLW Notice No. 336

	Restricted substance/Limit		
Category	Cadmium (Cd)	Lead (Pb)	
	mg/l	mg/I	
Flatware	0.07 (mg/dm²)	0.8 (mg/dm ²)	

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(depth ≤ 25mm)	JP only	JP only
Fillable article	0.5	1.5
< 600 ml		
Fillable article	0.25	0.75
600 ml ≤ capacity < 3 Liter		
Storage	0.25	0.5
≥ 3 Liter		
Cooking ware	0.05	0.5

South Kore	ea					
Enamel						
KR: Ministry of Packaging, me		-	y - Standards and Specif)	ications for Food Utensil	s, Containers and	
			Restricted s	ubstance/Limit		
Category			Cadmium (Cd)	Lead (Pb)	Antimony (Sb)	
		μg/ml	μg/ml	μg/ml		
		For sample	es whose depth is over 2.5	cm when liquid is filled		
Other than heat-cooking ware capacity < 3 Liter		0.07	0.8	0.1		
Heat cooking ware capacity < 3 Liter		0.07	0.4	0.1		
			Restricted substance/Limit			
Category			Cadmium (Cd)	Lead (Pb)	Antimony (Sb)	
			μg/cm²	μg/cm²	μg/ml	
		Fo	or sample whose depth is le	ess than 2.5 cm		
Utensils, containers and packages of	Samples c cm, capac Liter	lepth ≥ 2.5	or sample whose depth is le 0.5	ss than 2.5 cm 1	1	
containers and	cm, capac	lepth ≥ 2.5			1	

Japan

Enamel

JP: Japan Specifications and Standards for Food, Food Additives, etc. (1959 MHW Notice No. 370) with Amendments up to 2010 MHLW Notice No. 336

			Restricte	Restricted substance/Limit			
Category				Cadmium (Cd)	Lead (Pb)		
				μg/cm²	μg/cm²		
Enameled	Samples de cm	epth < 2.5	Other than cooking ware	0.7	8		
			Cooking ware	0.5	1		
	Samples	Capacity ≥	3 Liter	0.5	1		
	depth≥ 2.5 cm	Capacity < 3 Liter	Other than cooking ware	0.07	0.8		
			Cooking ware	0.07	0.4		

Taiwan				
Ceramic, Glass & Enamel				
Taiwan Sanitation Standard for Food Utensils, Containers and Packages.				
Restricted substance/Limit				
Category	Cadmium (Cd)	Lead (Pb)		
	mg/l	mg/l		
Flatware	0.17 (mg/dm²)	1.7 (mg/dm²)		
(depth ≤ 25mm)				
Fillable article	0.5	5		
< 1.1 Liter (depth > 25mm)				
Fillable article	0.25	2.5		
> 1.1 Liter (depth > 25mm)				

Uruguay & Brazil			
Ceramic, Glass & Enamel			
GMC Res No 55/92			
RDC Res. No 27/96			
(test method; release of lead ar	nd cadmium)		
Category	Restricted su	ostance/Limit	
	Cadmium (Cd)	Lead (Pb)	
Flatware (depth < 25mm)	Cadmium (Cd) 0.07 mg/dm²	•	
	•••	Lead (Pb)	
Flatware (depth < 25mm)	0.07 mg/dm ²	Lead (Pb) 0.8 mg/dm ²	

Concrete, Marble & Soapstone

EU	EU				
Concrete, Marble & Soapstone					
Restricted	Limit	Test method			
substance					
Cadmium (Cd)	0.07 (mg/dm ²)	Simulant: 4% acetic acid. Test conditions: 22°C for 24 hours			
Lead (Pb)	0.8 (mg/dm ²)				
Zinc (Zn)	3 mg/l				
Antimony (Sb)	1 mg/l				
Barium (Ba)	1 mg/l				
Aluminium (Al)	1 mg/kg]			
Cobalt (Co)	0.02 mg/kg				
Arsenic (As)	0.002 mg/kg				

Metals and Alloys

EU		
Metals and Alloys		
Restricted substance	Limit	Test method
Sensory properties	No change in sensory properties (smell and/or taste) of food. Shall be controlled with Sensory analysis. Not worse than Grade 2.5.	Sensory analysis DIN 10955/ ISO 13302
Content of undesirable elements (Applicable to metals other than aluminum and stainless steel)	Lead $\leq 0.01\%$ Cadmium $\leq 0.01\%$ Arsenic $\leq 0.03\%$ Cobalt $\leq 0.05\%$	EN 16711-1
Specific release for metals and allo	oys components [mg/kg food]	
Aluminium (Al)	5	
Antimony (Sb)	0.04	1
Chromium (Cr)	0.1	
Cobalt (Co)	0.02	
Copper (Cu)	4	Chapter 3, Annex I and II in Council of
Iron (Fe)	40	Europe Guide on metals and alloys used in food contact materials and
Manganese (Mn)	0.55 0.07 for infants and toddlers	articles, 2 nd edition
Molybdenum (Mo)	0.12	-
Nickel (Ni)	0.14	-
Silver (Ag)	0.08	
Tin (Sn)	0.05	
Vanadium (V)	0.01	
Zinc (Zn)	5	
Zirconium (Zr)	2	
Specific release for metals as cont	aminants and impurities [mg/kg food	İ
Arsenic (As)	0.002	
Barium (Ba)	1.2	Chapter 3, Annex I and II in Council of
Beryllium (Be)	0.01	Europe Guide on metals and alloys used in food contact materials and
Cadmium (Cd)	0.005	articles, 2 nd edition
Lead (Pb)	0.010	
Lithium (Li)	0.048	
Mercury (Hg)	0.003	
Thallium (TI)	0.001	
Corrosion resistant	No visible evidence of blistering, peeling, cracking or red corrosion products	ASTM B117-11 or ISO 9227 Salt spray test
Additional Requirements for	Aluminum and Aluminum Allo	ys
	Restricted substance & Limit	Test method

Aluminum Composition	Al > 99% Fe + Si < 1% Ti \leq 0.15% For each of the following elements: Cr, Zn, Cu, Mn, Mg, Ni, Sn \leq 0.10% Each of the following elements: Pb, Tl, Be, and each of the impurities: \leq 0.05% Cu: < 0.2% if Cr & Mn < 0.05%	French Order of 27 August 1987 EN 601 The use of uncoated items in contact with highly acidic foods is restricted.
Aluminum Alloy Composition	$\begin{array}{l} {\rm Si} \leq 13.5\% \\ {\rm Sb} \leq 0.4\% \\ {\rm Sn} \leq 0.10\% \\ {\rm Mg} \leq 11\% \\ {\rm Cr} \leq 0.35\% \\ {\rm As, Ta, Be, Tl, Pb, and each of the} \\ {\rm other elements present:} \leq 0.05\%, \\ {\rm total} \leq 0.15\%. \\ {\rm Mn} \leq 4\% \\ {\rm Ti} \leq 0.3\% \\ {\rm Ni} \leq 3\% \\ {\rm Zr} \leq 0.3\% \\ {\rm Fe} \leq 2\% \\ {\rm Zn} \leq 0.25\% \\ {\rm Cu} \leq 0.6\% \\ {\rm Sr} \leq 0.2\% \end{array}$	

Additional rec	nuiromonts f	or organic coatin	gs or varnishes	on metal substrate
Auditional let	in ements i	of organic coatin	gs ur varmsnes	Un metal substrate

Restricted substance	Limit	Test method
Overall migration limit	10 mg/dm ² 60 mg/kg for infants and young children	EN1186
Specific migration of primary aromatic amines (PAA)	Sum of PAA: Not detectable (a detection limit of 0.01 mg/kg) - Individual PAA listed in REACH entry 43 to Appendix 8 of Annex XVII (detection limit of 0.002 mg/kg)	Migration with food simulant followed by LC-MS/MS EN13130-1
Specific migration of polycyclic aromatic hydrocarbons (PAH)	Not detectable (a detection limit of 0.01 mg/kg)	Migration with food simulant followed by GC-MS
Monomers and other starting substances, additives, polymer production aids etc.	Comply with composition and specific migration positive list in - Regulation (EU) No 10/2011 - Resolution ResAP (2004) 1	Migration with food simulant followed by instrumental analysis
Epoxy coating		
Bisphenol A, Bisphenol F, Bisphenol S	Not allowed to be used (not detectable with detection limit of 0.1 mg/kg)	Extraction with organic solvent followed by LCMS/MS analysis
NOGE	Usage ban	EN 13130 or EN 15136
BFDGE	Usage ban	EN 13130 or EN 15136
BADGE and derivatives, total	≤9 mg/kg (sum)	EN 13130 or EN 15137
1,4-Butandiol	≤5 mg/kg	EN 13130
Phenol	≤3 mg/kg	EN 13130

Polyurethane (PU)		
Isocyanates*	Not detected	ISO 10283 (modified)
Peroxide	Not detected	Ph. Eur. Method 2.5.5
Dimethylformamide (DMF)	Usage ban	
Additional requirements for co	loured organic coatings or va	rnishes on metal substrate
Restricted substance	Limit	Test method
Colorfastness to food simulants	No color transition	Resolution AP (89) 1

Kazakhstan		
Utensils of copper-nickel alloy	, German silver and br	ass with chrome and nickel coating
Restricted substance	Limit	Standard
Copper	1 mg/dm ³	GOST 24308-80
Zinc	1 mg/dm ³	
Nickel	0.1 mg/dm ³	

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Metal materials and articles

Migration tests shall comply with the provisions of GB31604.1 and GB 5009.156 unless otherwise stated in Appendix A in the material standard.

In Appendix A in the	e material standard.		-
Requirement	Limit/Requirement	Material standard	Test standards/inspection method
Raw material requirement	 Food contact metal, metallic plating, solder shall be of good quality and not contaminated with poisonous or hazardous substances, and thus confirmed of their safety and integrity. The composition of metal substrate and plating should meet the claim. Stainless steel food containers and the main part of tools, machinery and apparatus for food production and management should be austenitic stainless steels, austenitic ferritic stainless steels, ferritic stainless steel; stainless steel tableware and the main parts of stainless steel drilling and grinding tools for food production machinery and apparatus, such as the main part of the mechanical equipment or martensite stainless steel can also be made of martensitic stainless steel materials. 	GB 4806.9 Food Safety National Standards - Metal materials and articles	
Materials for surface treatment of metals	Complies with GB 4806.1		

Substrate and	Lead, Cadmium, Arsenic, Mercury, Antimony,	
plating, impurity	Beryllium and Lithium shall not be used as alloy	
elements	element.	
	Al and Al alloys:	
	As and As alloys: As $\leq 0.01\%$,	
	sum of Pb, Cd, Hg \leq 0.01 %	
	Other metals:	
	As ≤ 0.03%	
	Pb ≤ 0.01%	
	Cd ≤ 0.01%	
Sensory	No changes in the extraction solvent.	
Requirement		
Specific Release of	As ≤0.002 mg/kg	GB31604.49
Impurity Elements	(uncoated iron pots $\leq 0.018 \text{ mg/kg}$)	000100
• •		3 migration test
	Cd ≤ 0.002 mg/kg	Fails if any one of the
	Pb ≤ 0.01 mg/kg	three tests exceeds the
	Sb ≤ 0.04 mg/kg	limits.
Specific Release of	Al ≤ 1 mg/kg (uncoated aluminum ≤ 5 mg/kg)	
Alloy Elements	Cr ≤ 0.25 mg/kg	
	Co ≤ 0.02 mg/kg	
	Cu ≤ 4 mg/kg	
	Mn ≤ 2 mg/kg	
	Mo ≤ 0.12 mg/kg	
	Ni ≤ 0.14 mg/kg	
	Sn ≤ 100 mg/kg, (tin-plated steel containers comply with GB 2762)	
	Zn ≤ 5 mg/kg	

South Korea, Japan & Taiwa Metals and Alloys	n;	
Restricted substance	Limit	Test method
Lead in tin plating used for food contact surface, Material Specification	≤ 0.1%	KR: Ministry of Food and Drug Safety - Standards and
Lead in materials used for food contact surface, Material Specification	≤ 0.1%	Specifications for Food Utensils, Containers and Packaging, methods 2-1 and 2-10.
Antimony in metals used for food contact surface, Material Specification	≤ 5.0%	JP: Japan Specifications and Standards for Food, Food Additives, etc. (1959 MHW Notice No. 370) with Amendments up to 2010 MHLW Notice No. 336

		TW: Methods of Test for Food Utensils, Containers and Packages- Test of Metal Alloy (the Direct Contact Surface Material with Food is Metal Alloy) (MOHWU0032.00)
Food contact surface which are made of co coating or copper treatments to ensure hys		treated with tin coating, silver
Lead, Migration Specification	≤ 0.4 mg/l	KR: Migration of lead, cadmium,
Cadmium, Migration Specification	≤ 0.1 mg/l	nickel, chromium VI and arsenic. Ministry of Food and Drug Safety -
Nickel, Migration Specification	≤ 0.1 mg/l	Standards and Specifications for
Chromium VI, Migration Specification	≤ 0.1 mg/l	Food Utensils, Containers and
Arsenic, Migration Specification	\leq 0.2 mg/l (as As ₂ O ₃)	Packaging, methods 2-1, 2-2, 2-54, 2-4 and 2-9.
		JP: Japan Specifications and Standards for Food, Food Additives, etc. (1959 MHW Notice No. 370) with Amendments up to 2010 MHLW Notice No. 336
		TW: Methods of Test for Food Utensils, Containers and Packages- Test of Metal Alloy (the Direct Contact Surface Material with Food is Metal Alloy) (MOHWU0032.00)
Evaporation residue, Migration	≤ 30 mg/l(90 mg/l*)	KR: Migration of; evaporation
Specification	<pre>(n-heptane as leaching solution) ≤ 30 mg/l*</pre>	residue, formaldehyde, vinyl chloride, epichlorohydrin, bisphenol
	(other simulants as leaching solution)	A (including phenol and p-tert- butylphenol), bisphenol A diglycidyl ether, bisphenol F diglycidyl ether,
	Only for metallic products coated with synthetic resin or rubber	4,4-methylenedianiline and zinc. Ministry of Food and Drug Safety -
	*Limit shall be ≤ 90 mg/l with n- heptane as leaching solution and paint film on metal is made of natural oil as main material and containing > 3% zinc oxide.	Standards and Specifications for Food Utensils, Containers and Packaging, methods 2-8, 2-27, 2-16, 2-45, 2-35, 2-44, 2-31 and 2-50 JP: Japan Specifications and
	*The chloroform soluble material shall be ≤ 30mg/l for the case when the non-volatile residue is > 30mg/l when using water as leaching solution	Standards for Food, Food Additives, etc. (1959 MHW Notice No. 370) with Amendments up to 2010 MHLW Notice No. 336 Taiwan method: Migration of
Formaldehyde, Migration Specification	≤ 4.0 mg/l	Epichlorohydrin. Method of test for food utensils, containers and
	ND (Japan & TW)	packages- test of metal cans.
	Only for metallic products coated with synthetic resin or rubber	
Vinyl Chloride, Migration Specification	Not detected	
	≤ 0.05 μg/ml	
	Only for metallic products coated with synthetic resin or rubber	
Epichlorohydrin, Migration Specification	≤ 0.5 mg/l Only for metallic products coated with synthetic resin or rubber	

Bisphenol A, Migration Specification	0.6 mg/l
	Only for metallic products coated
	with synthetic resin or rubber
Sum of phenol, bisphenol A and p-tert-	≤ 2.5 mg/l (South Korea)
butylphenol, Migration Specification	Only for metallic products coated
	with synthetic resin or rubber
Bisphenol A diglycidyl ether, Migration	≤ 1.0 mg/l (South Korea)
Specification	Only for metallic products coated
(including bisphenol A diglycidyl ether	with synthetic resin or rubber
dichloride and bisphenol A diglycidyl ether	
dihydrate)	
Bisphenol F diglycidyl ether, Migration	≤ 1.0 mg/l (South Korea)
Specification	Only for metallic products coated
(including bisphenol F diglycidyl ether	with synthetic resin or rubber
dichloride and bisphenol F diglycidyl ether	
dehydrate)	
4,4-Methylenedianiline, Migration	≤ 0.01 mg/l (South Korea)
Specification	Only for metallic products coated
	with synthetic resin or rubber
Zinc, Migration Specification	≤ 15 mg/l (South Korea)
	Only for metallic products coated
	with synthetic resin or rubber

Uruguay & Brazil

Metals & Stainless Steel

	Limit	Standard
Restricted substance		Stanuaru
Raw material	Must meet the specifications and stainless-steel grade in chapter 3 of GMC Res. no. 46/06 & RDC Res. no 854/24	GMC Res. no. 46/06 as amended by GMC Res. no. 16/20 and GMC Res. no. 48/23 RDC Res. no 854/24
Sum of impurities of Lead, Arsenic,	1%	RDC Res. 110 854/24
Cadmium, Mercury and Antimony		
Individual limit of impurities	Lead $\leq 0.01\%$ Cadmium $\leq 0.01\%$ Arsenic $\leq 0.03\%$ Mercury $\leq 0.01\%$	
Specific migration of contaminated metals	Arsenic \leq 0.01 mg/kg Cadmium \leq 0.01 mg/kg Lead \leq 0.01 mg/kg Mercury \leq 0.5 mg/kg Tin \leq 150 mg/kg	GMC Res. no. 12/11
Manufacturing aids	Must comply with the positive lists and restrictions in chapter 3 of GMC Res. no. 46/06 & RDC Res. no 854/24	GMC Res. no. 46/06 as amended by GMC Res. no. 16/20 and GMC Res. no. 48/23 RDC Res. no 854/24
Approved stainless steel composition check	Only approved stainless steel grades can be used for food contact applications	GMC Res. no. 46/06 as amended by GMC Res. no. 16/20 and GMC Res. no. 48/23 RDC Res. no 854/24

Stainless steel

EU		
Restricted substance	Limit	Test method
Stainless Steel Composition	Chromium ≥ 13% Tantalum, Niobium, Zirconium ≤ 1% each Molybdenum, Titanium, Aluminum, Copper ≤ 4% each	French Order of 13 January 1976
Specific migration for me	etals and alloys comp	onents (mg/kg food)
Aluminium (Al)	5	Chapter 3, Annex I and II in Council of Europe Guide on
Antimony (Sb)	0.04	metals and alloys used in food contact materials and articles.
Chromium (Cr)	1	
	0.1 mg/kg (Italy)	Department of Biological Standardisation, OMCL Network
Cobalt (Co)	0.02	& HealthCare (DBO) Consumer Health Protection
Copper (Cu)	4	RZ/PH/2013-06790L SBA/mfs Strasbourg, 18/11/2013:
Iron (Fe)	40	1
Manganese (Mn)	0.55	Italy: Specific migration of nickel, chromium and
	0.1 mg/kg (Italy)	manganese
	0.07 for infants and	For general use:
	toddlers	3% acetic acid (w/v) aqueous solution, 100° C, 30 min. (3
Molybdenum (Mo)	0.12	successive migrations and take the 3rd migration results.)
Nickel (Ni)	0.14	For cooking, dining and cutting article: 3% acetic acid at 70°C for 30 mins on the 3rd contact (3
	0.1 mg/kg (Italy)	successive migrations and take the 3rd migration results.)
Silver (Ag)	0.08	For article in contact with water only:
Tin (Sn)	100	Water at 100°C for 30 mins on the 3rd contact (3 successive
Vanadium (V)	0.01	migrations and take the 3rd migration results.)
Zinc (Zn)	5	
Zirconium (Zr)	2	
Specification migration f	or metals as contami	nants and impurities (mg/kg food)
Arsenic (As)	0.002	Chapter 3, Annex I and II in Council of Europe Guide on
Barium (Ba)	1.2	metals and alloys used in food contact materials and
Beryllium (Be)	0.01	articles.
Cadmium (Cd)	0.005	
Lead (Pb)	0.010	1
Lithium (Li)	0.048	1
Mercury (Hg)	0.003	1
Thallium (TI)	0.001	1
Global migration	8 mg/dm ² or 50 mg/kg (Italy)	Italian decree of Ministry of health of 21/03/1973 and its amendment, Italian decree of Ministry 21/12/2010, No 258
Requirement	Limit/Requirement	
Stainless steele grade		npliant and tested according to Italian decree of Ministry of its amendments, Annex II, Section VI and Article 36

Kazakhstan		
Stainless Steel		
Restricted substance	Limit	Standard
Copper	1.0 mg/dm ³	GOST 17151-81
Zinc	1.0 mg/dm ³	
Nickel	0.1 mg/dm ³	
Chrome	0.1 mg/dm ³	

US Stainless steel	
Requirement	Limit/Requirement
Stainless steel grade	Stainless steel used in food equipment shall be of a type in the AISI 200 series, AISI 300 series, or AISI 400 series. However, for series 200 & 400 alloys, corrosion resistance test for 48 hours at 1% salt
	spray MAYBE needed which upon requested by FDA or lab.

Uruguay & Brazil

Metals & Stainless Steel

Restricted substance	Limit	Standard	
Raw material	Must meet the specifications and stainless-steel grade in chapter 3 of GMC Res. no. 46/06 & RDC Res. no 854/24	GMC Res. no. 46/06 as amended by GMC Res. no. 16/20 and GMC Res. no. 48/23 RDC Res. no 854/24	
Sum of impurities of Lead, Arsenic,	1%		
Cadmium, Mercury and Antimony			
Individual limit of impurities	Lead ≤ 0.01% Cadmium ≤ 0.01% Arsenic ≤ 0.03% Mercury ≤ 0.01%		
Specific migration of contaminated metals	Arsenic ≤ 0.01 mg/kg Cadmium ≤ 0.01 mg/kg Lead ≤ 0.01 mg/kg Mercury ≤ 0.5 mg/kg Tin ≤ 150 mg/kg	GMC Res. no. 12/11	
Manufacturing aids	Must comply with the positive lists and restrictions in chapter 3 of GMC Res. no. 46/06 & RDC Res. no 854/24	GMC Res. no. 46/06 as amended by GMC Res. no. 16/20 and GMC Res. no. 48/23 RDC Res. no 854/24	
Approved stainless steel composition check	Only approved stainless steel grades can be used for food contact applications	GMC Res. no. 46/06 as amended by GMC Res. no. 16/20 and GMC Res. no. 48/23 RDC Res. no 854/24	

China

Stainless steel

Migration tests shall comply with the provisions of GB31604.1 and GB 5009.156 unless otherwise stated in
Annex A in the material standard.

Requirement	Limit/Requirement	Material	Test
		standard	standards/inspection method
Raw material requirement	 Food contact metal, metallic plating, solder shall be of good quality and not contaminated with poisonous or hazardous substances, and thus confirmed of their safety and integrity. The composition of metal substrate and plating should meet the claim. Stainless steel food containers and the main part of tools, machinery and apparatus for food production and management should be austenitic stainless steels, austenitic ferritic stainless steels, ferritic stainless steel; stainless steel tableware and the main parts of stainless steel drilling and grinding tools for food production machinery and apparatus, such as the main part of the mechanical equipment or martensite stainless steel can also be made of martensitic stainless steel materials. 	GB 4806.9 Food Safety National Standards - Metal materials and articles	
Materials for surface	Complies with GB 4806.1		
treatment of metals			
Substrate and	Lead, Cadmium, Arsenic, Mercury, Antimony,		
plating, impurity elements	Beryllium and Lithium shall not be used as alloy element.		
	As ≤ 0.01% Pb ≤ 0.01% Cd≤ 0.01%		
Sensory	No changes in the extraction solvent.		
Requirement			
Specific Release of Impurity Elements	As ≤0.002 mg/kg		GB31604.49
impurity clements	Cd ≤ 0.002 mg/kg		3 rd migration
	Pb ≤ 0.01 mg/kg		
	Sb ≤ 0.04 mg/kg		
Specific Release of Alloy Elements	Lead, Cadmium, Arsenic, Mercury, Antimony, Beryllium and Lithium shall not be used as alloy element.		
	Al ≤ 1 mg/kg		
	Cr ≤ 0.25 mg/kg		
	Co ≤ 0.02 mg/kg		
	Cu ≤ 4 mg/kg		
	$Mn \le 2 mg/kg$		
	$Mo \le 0.12 \text{ mg/kg}$		
	Ni ≤ 0.14 mg/kg		
	$Sn \le 100 \text{ mg/kg}$		
	$2n \le 5 \text{ mg/kg}$		
Stainless steel kitchenware	Meet the specification in QB/T 2174		QB/T 2174

Paper, Board & Paper Napkins

EU				
Paper, Board & Paper Napkins				
Restricted substance Limit Test method				
Recycled paper	Permitted only with approval from Group Compliance			
Coated paper and board	Must also comply with Plastic re	quirements		
Antimicrobial substances	The finished paper or paper board must not have any preserving effect on the foodstuffs with which they come into contact.EN 1104			
Sensory properties	No change in the composition of the food or its organoleptic properties.	EN 1230-1 and -2 in combination with EN 10955		
Lead, specific migration	Not detected (< 0.01mg/kg)	EN 645 & EN 13130-1		
Cadmium, specific migration	≤ 5 μg/L			
Aluminum, specific migration	≤ 1.0 mg/kg			
Lead	≤ 3 mg/kg	FR: DGCCRF, EN 12498		
Cadmium	≤ 0.5 mg/kg	Maximum permitted content in paper or board expressed		
Chromium VI	≤ 0.25 mg/kg	as mg/kg		
Mercury	≤ 0.3 mg/kg	FR: DGCCRF, EN 12497 Maximum permitted content in paper or board expressed as mg/kg		
Pentachlorophenol (PCP)	≤ 0.1 mg/kg	ISO 15320 Maximum permitted content in paper or board expressed as mg/kg		
Dyes and colourants	No bleeding A value of 5 on the evaluation scale must be reached	Color fastness (determination of color fastness of dyed paper and board intended to come into contact with foodstuffs). DIN EN 646		
4,4'-bis (dimethylamino)-benzophenone (Michler's ketone)	Not detected (< 0.01mg/kg)	EDQM Guideline for paper and board EN 15519		
Bisphenol A, specific migration	Not detected (< 0.01mg/kg)	CEN/TS 13130-13		
Bisphenol S, specific migration	0.05 mg/kg			
1,3-dichloro-2-propanol (1,3-DCP), extractable	N.D. (< 2.0 μg/L)	EN 645		
3-chloro-1,2-propanediol (3-MCPD), extractable	< 12.0 μg/L			
Sum of benzo(a) pyrene, benzo(a) anthracene, benzo(b)fluoranthene and chrysene	Not detected (sum, detection limit = 0.001 mg/kg for food contact paper and board not yet in contact with food)	EN 16619 CEN/TS 16621		

Sum of benzophenone, 2-methyl benzophenone,	Sum: 0.6mg/kg	EDQM Guideline for paper
3-methyl benzophenone and 4-methyl benzo- phenone	Sum (2-methylbenzophenone+3- methyl benzophenone + 4-methyl benzophenone): 0.05mg/kg	and board EN 15519
CMR category 1A/1B primary aromatic amines (PAAs)	Not detected (0.002 mg/kg)	EN 17163
Sum of all PAAs	Not detected (0.01 mg/kg)	EN 17163
Fluorescent Whitening Agents (FWAs)	No bleeding. A value of 5 on the evaluation scale must be reached	EN 648
Additional NIAS requirements for recycle	d paper and board	
Diisopropylnaphthalene (DIPN)	As low as technically achievable	CEPI Guideline EN 14719
Diethylhexylphthalate (DEHP)	0.6 mg/kg	EN 16453, SML
Dibutylphthalate (DBP)	0.12 mg/kg	
Di-isobutyl Phthalate (DIBP)	0.15 mg/kg	
Sum of DBP, DIBP and DEHP	0.6 mg/kg, calculated as DEHP equivalents using the equation DBP x 5 + DIBP x 4 + DEHP x 1	
Polycyclic Aromatic Hydrocarbons (PAHs*)	0.01 mg/kg	CEPI Guideline, SML
Polychlorinated Biphenyls (PCB)	2 mg/kg	ISO 15318 Maximum permitted content in paper or board expressed as mg/kg
Bisphenol A, Bisphenol F, Bisphenol S	Not allowed to be used (not detectable with detection limit of 0.1 mg/kg)	Extraction with organic solvent followed by LCMS/MS analysis

US	
Paper & Board	
Requirement	Limit/Requirement
Paper and paperboard Components in contact with aqueous, fatty and dry foods	21 CFR 176
Use of Color Additives in Paper and Paperboard Intended for Use with Food	CPG Sec. 500.425

CHINA Paper & paperboard Migration test shall be in accordance with the requirements of GB31604.1 and GB5009.156 unless otherwise stated in material standard.			
Requirement	Requirement Limit/Requirement Material Standard		Test standards/ inspection method
Raw material requirement	1. The used food contact paper and paperboard material(s) and article(s) should not harmful to human health in normal and intended conditions of use. The fiber materials should be	GB 4806.8 Food Safety National Standards - Paper and	Synthetic fibres GB 4806.6

Sensory Requirement Lead (Pb) Arsenic (As)	 mainly base on plant fiber, any synthetic materials used should be listed in GB 4806.6 or relevant notice, and meet the specification. 2. The wax coating used on paper and paperboard materials(s) and article(s) should meet Food Safety National Standards. No peculiar odour Extraction solvent should be clear and no smell. ≤ 3.0 mg/kg ≤ 1.0 mg/kg 	paperboard	Part I of GB 31604.34 or Part I of GB 31604.49 Part I of GB 31604.38 or
Formaldehyde	≤ 1.0 mg/dm ²		Part I of GB 31604.49 Prepare water
			extraction test solution according to Appendix A, then conduct determination in accordance with GB 31604.48 (migration test is not conducted)
Fluorescing substance – 254 nm & 365nm	Negative		GB 31604.47
Overall migration test (Not applicable for paper or paperboard coated with wax)	≤ 10 mg/dm ² ≤ 60 mg/kg for infants and young children		GB 31604.8
Heavy metal (as Pb) content in 4 % acetic acid (60°C, 2hrs) (Only applicable for food contact paper and paperboard which can be in contact with water or foods with a free-water on the surface)	≤ 1 mg/kg		GB 31604.9
1,3-dichloro-2-propanol (1,3-DCP), extractable	N.D. (< 2.0 μg/L)		GB 4806.8 Annex
3-chloro-1,2-propanediol	< 12.0 μg/L		A 5.2/A 5.3
(3-MCPD), extractable Coliform group (/50 cm ²)	N.D.		Annex C GB 14934
Salmonella (/50 cm ²)	N.D.		GB 14934
Molds count (CFU/g)	50		GB 4789.15

Additive	Meet the specification in GB 9685 and relative	GB 9685
	notice.	

South Korea		
Paper & Board		
Restricted substance/Requirement	Limit/Requirement	Test method
Lead, Cadmium, Mercury and Hexavalent Chromium	100 mg/kg or less (In total)	Ministry of Food and Drug Safety - Standards and Specifications for Utensils, Containers and Packaging for Food Products, Article 7 (IV), method 2-1, 2-2, 2-3, 2-4.
Polychlorinated Biphenyls (PCBs), Material Specification	≤ 5.0 mg/kg	Article 7 (IV) of food contact code, method 2-52.
Arsenic (As), Migration Specification	$\leq 0.1 \text{ mg/l} (\text{as As}_2\text{O}_3)$	Article 7 (IV) of food contact code, methods 2-9, 2-1, 2-27 and 2-53
Lead (Pb), Migration Specification	≤ 1.0 mg/l	
Formaldehyde, Migration Specification	≤ 4.0 mg/l	
Fluorescence whitening agent, Migration Specification	Negative result	

Taiwan		
Paper & Board		
Restricted substance/Requirement	Limit/Requirement	Test method
Synthetic coloring agents (Colors materials, except transparent materials)	Synthetic coloring agents other than those listed in the Enforcement Regulation shall not be used. Excepting the cases where the colors are used in such a way that they will have no possibility of mixing with foods - Refer to Elution of coloring agent	Taiwan Sanitation Standard for Food Utensils, Containers and Packages. Methods of test for food utensils, containers and packages- test of plastic uncoated paper products
Fluorescent brightening agent, material specification	Negative	
Formaldehyde, Migration Specification	Negative	
Heavy metals (as Pb)	not more than 1 ppm	
Arsenic, Migration Specification	not more than 0.1 ppm (as As2O3)	
Evaporation residue	not more than 30 ppm (Result over 30 ppm, chloroform- soluble extractives shall not more than 40ppm)	

EU Wood and natural fiber			
Restricted substance/Requirement	Limit/Requirement	Test method	
Wood uncoated (including o	cork)		
Wood preservatives	Not allowed to be used without approval by H&M Group ¹⁴	Self declaration	
Sensory analysis	No change in sensory properties (smell or taste) of food ≤ 2.5 (Scale 0- 4).	Sensory analysis test : DIN 10955/ ISO 13302	
Specific migration of formaldehyde	15 mg/kg	EN 13130-23	
Pentachlorophenol (PCP)	0.1 mg/kg	64 LFGB B82.02-8	
Trichlorophenol (TriCP)	Not detectable (with a reporting limit of 0.1 mg/kg) Not detectable (with a reporting limit		
Tetrachlorophenol (TeCP)	of 0.1 mg/kg)	00.4700.45	
Mold	Mold 50 CFU/g	GB 4789.15	
•	r natural fibre (uncoated) (e.g. str		
Antimicrobial requirement	No inhibition zone should be observed	EN 1104	
Additional requirements for			
Odor	No odor detected (sacks made of woven jute/polyolefin fabric)	EN 767	
Specifications	Standard specification for jute bags used in the packaging of food	IJO Standard 98/01	
Residual mineral oil	Not to exceed 0.15 percent by weight of finished fibers	21 CFR 177.2800	
Additional requirements for	r organic coating on wood and nat	tural fiber	
Overall migration limit	10 mg/dm ²	EN1186	
	60 mg/kg for infants and young children		
Specific migration of formaldehyde	15 mg/kg	Migration with food simulant followed EN 13130-23	
Specific migration of primary aromatic amines (PAA)	Sum of PAA: Not detectable (a detection limit of 0.01 mg/kg)	Migration with food simulant followed by LC-MS/MS	
	- Individual PAA listed in REACH entry 43 to Appendix 8 of Annex XVII	EN13130-1	
	(detection limit of 0.002 mg/kg)		
Bisphenol A, Bisphenol S and Bisphenol F	Not allowed to be used (detection limit 0.1 mg/kg)	Extraction with organic solvent followed by LCMS/MS analysis	
Color fastness	No color transition	EN 646	

¹⁴ Contact your local H&M PO office

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Monomers or other starting	Comply with composition and specific	Migration with food simulant followed by
substances, additives, polymer	migration positive list in Annex I,	instrumental analysis
production aids etc.	Regulation (EU) No 10/2011	
Metals and lanthanides	Comply with composition and specific migration in Annex II Regulation (EU) No 10/2011	Migration with food simulant followed by ICP-MS
Aluminium	1 mg/kg	
Antimony	0,04 mg/kg	Migration with food simulant followed by
Arsenic	Not detectable	ICP-MS
	(detection llimit 0,01 mg/kg)	EN 13130-1
Barium	1 mg/kg	1
Cadmium	Not detectable	
	(Limit of detection 0,002 mg/kg)	
Chromium	Not detectable	
	(detection llimit 0,01 mg/kg)	
Cobalt	0.05 mg/kg	
Copper	5 mg/kg	
Iron	48 mg/kg	
Lithium	0.6 mg/kg	
Manganese	0.6 mg/kg	
Mercury	Not detectable	
	(detection llimit 0,01 mg/kg)	
Nickel	0,02 mg/kg	1
Lead	Not detectable	1
	(detection llimit 0,01 mg/kg)	
Zinc	5 mg/kg	1

South Korea		
Wood & natural fiber		
Restricted substance/Requirement	Limit/Requirement	Test methods
Wood		I
Arsenic (As), Migration Specification	≤ 0.1 mg/l (as As ₂ O ₃)	Migration of arsenic, lead, sulfur dioxide, o- phenylphenol, Thiabendazole, Biphenyl and
Lead (Pb), Migration Specification	≤ 1.0 mg/l	Imazalil from wood. Article 7 (VI) of food contact code, methods 2-9, 2-1, 2-55 and 2- 56
Sulfur dioxide, Migration Specification	≤ 12.8 mg/l	50
o-Phenylphenol, Migration Specification	≤ 7.3 mg/l	
Thiabendazole, Migration Specification	≤ 1.8 mg/l	
Biphenyl, Migration Specification	≤ 0.9 mg/l	

Imazalil, Migration Specification	≤ 0.6 mg/l	
Starch		
Lead, Cadmium, Mercury and Hexavalent Chromium	100 mg/kg or less (In total)	Ministry of Food and Drug Safety - Standards and Specifications for Utensils, Containers and Packaging for Food Products, Article 7 (IV), method 2-1, 2-2, 2-3, 2-4.
Arsenic (As), Migration Specification	\leq 0.1 mg/l (as As ₂ O ₃)	Migration of arsenic, lead, potassium permanganate consumption, formaldehyde
Lead (Pb), Migration Specification	≤ 1.0 mg/l	and fluorescence whitening agent from starch. Article 7 (VI) of food contact code, methods 2-9, 2-1, 2-7, 2-27 and 2-53.
Potassium permanganate consumption, Migration Specification	≤ 10.0 mg/l	
Formaldehyde, Migration Specification	≤ 4.0 mg/l	
Fluorescence whitening agent, Migration Specification	Negative result	

Taiwan Wood & natural fiber		
Restricted substance/Requirement	Limit/Requirement	Test Methods
Wood		
Fluorescent brightening agent, material specification	Negative	Taiwan Sanitation Standard for Food Utensils, Containers and Packages
Arsenic (As), Migration Specification	not more than 0.1 ppm (as As_2O_3)	
Heavy metals (as Pb)	not more than 1 ppm	
Formaldehyde, Migration Specification	Negative	
Evaporation residue	Not more than 30 ppm	1
	(Result over 30 ppm, chloroform- soluble extractives shall not more than 40ppm)	

Textile products (natural and synthetic fibers)

EU

Food contact products in textile material must also follow H&M Group Chemical restictions (RSL) Textile products, Accessories, Footwear, Bags and Belts.

Restricted substance/Requirement	Limit/Requirement	Test method
Azo Dyes & Pigments*	10 mg/kg per listed amine	EN ISO 14362-1
Formaldehyde	16 mg/kg	ISO 14184-1
Pentachlorophenol content	0.5 mg/kg	§ 64 LFGB B 82.02-8:2001 modified
Overall migration limit ¹⁵	10 mg/dm ²	EN1186
	60 mg/kg for infants and young children	
Color fastness to foodstuff	No visible color migration to foodstuff. A value of 5 on the evaluation scale must be reached.	EN 646
Odour	Grade 2 – not unpleasant	Smell test according to SNV 195 651
Mold	Spores and mycelia of mold not detected.	 Smell test SNV 195 651 Light microscope analysis for suspicious spots Staining with lactophenol blue followed by microscope analysis

¹⁵ For synthetic textile only

Polymer coatings and varnishes

EU		
Polymer coatings and varnishes		
Coated material	Restriction	
Organic coatings or varnishes on metal substrate	Must comply with Additional requirements for organic coatings or varnishes on metal substrate in section Metals and Alloys.	
Varnishes and polymer coatings on wood and natural fiber	Must comply with Additional requirements for organic coating on wood and natural fiber in section Wood and natural fiber.	
Plastic coating on paper and board	Must comply with chemical restrictions for Plastic .	

Japan

Polymer coatings

Coated material	Restriction
Polymer coatings	Must comply with chemical restrictions for all Plastic and polymer coatings

Taiwan		
Polymer coatings on meta	ıl	
Restricted substance	Limit	Standard
Phenol	< 5 ppm	Taiwan Sanitation Standard for Food Utensils, Containers and
Formaldehyde	Negative	Packages.
Evaporation residue	< 30 ppm When the residue exceeds 30 ppm, the chloroformsoluble extracts shall not be more than 30 ppm.	Metal alloy - the direct contact surface material with food is synthetic resins.
Epichlorohydrin monomer	< 0.5 ppm	
Vinyl chloride monomer	< 0.05 ppm	
Other Coated material	Restriction	
Polymer coating on paper and board	Must comply with chemical restrictions for all plastic requirements and the requirements for the given polymer types for Taiwan, under Plastic chapter of this document. For the coating materials other than the polymer types listed in the plastic requirements, the migration test standard for the <i>polymer coatings on metal</i> as specified above shall apply.	
Polymer coating on wood	Must comply with chemical restrictions for all plastic requirements and the requirements for the given polymer types for Taiwan, under Plastic chapter of this document. For the coating materials other than the polymer types listed in the plastic requirements, the migration test standard for the <i>polymer coatings on metal</i> as specified above shall apply.	

China

Paints and Coatings applicable for all materials except paper paints and coatings Migration test shall be implemented according to requirements of GB 31604.1 and GB5009.156

Requirement	Requirement/Limit	Material standard	Test standard /inspection method
Raw material requirement	The used resin should be listed in appendix A in GB 4806.10 or relevant notice, and meet the specification.	GB 4806.10 Food Safety National Standards - Painting and	
Sensory Requirement	The extraction solvent should be colorless, no smell and no sediment.	coating	Migration according to GB31604.1 and GB 5009.156
Overall migration test -	≤10 mg/dm² or 60 mg/kg		Migration according to GB31604.1 and GB 5009.156, and then followed by GB 31604.8
Potassium permanganate titration	≤10 mg/kg		Migration according to GB31604.1 and GB 5009.156, and then followed by GB 31604.2
SM for certain substances [according to the material information provided (e.g. regulatory affairs products information data sheet, etc)]^	The coating resin used must be listed in GB 4806.10.		Migration according to GB31604.1 and GB 5009.156, and then followed by instrumental analysis
Lead	≤1 mg/kg		Migration according to GB31604.1 and GB 5009.156, and then followed by GB 31604.9
Additives SM for certain substances [according to the material information provided (e.g. regulatory affairs products information data sheet, etc)	Meet the specification in GB 9685 and relative notice.		Migration according to GB31604.1 and GB 5009.156, and then followed by instrumental
Specific release of heavy metals (for coating on metal substrate)	As ≤ 0.002 mg/kg Cd ≤ 0.002 mg/kg Pb ≤ 0.01 mg/kg Sb ≤ 0.04 mg/kg Al ≤ 1 mg/kg Cr ≤ 0.25 mg/kg Co ≤ 0.02 mg/kg Cu ≤ 4 mg/kg Mn ≤ 2 mg/kg	4806.9	GB 4806.9 GB 31604.24 GB 31604.25 GB 31604.33 GB 31604.34 GB 31604.38

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Mo ≤ 0.12 mg/kg Ni ≤ 0.14 mg/kg Sn ≤ 100 mg/kg, (tin-plated steel containers comply with GB 2762)	
Zn ≤ 5 mg/kg	

Adjuvant, Processing aids and Coatings

US		
Adjuvant, Processing aids and Coatings		
Restricted substance/Requirement	Limit/Requirement	
Indirect food additives Adjuvants, production aids and sanitizers	21 CFR 178	
Indirect food additives Adhesives and components of coatings	21 CFR 175	

Plastic

EU & Switzerland		
All Plastic		
The final product must comply with Reg	ulation (EU) No 10/2011 and amendm	ents.
The final product must comply with Swiss Ordinance SR 817.023.21.		
Restricted substance	Limit	Test method
Sensory properties	No change in sensory properties (smell and/or taste) of food. Shall be controlled with Sensory analysis. Not worse than Grade 2.5.	Sensory analysis DIN 10955/ ISO 13302
Overall migration limit	10 mg/dm ² 60 mg/kg for infants and young children	EN1186
Monomers and other starting substances, additives, polymer production aids etc.	Comply with composition and specific migration positive list in Annex I, Regulation (EU) No 10/2011 and Annex 2, Swiss Ordinance SR 817.023.21	Migration with food simulant followed by instrumental analysis
Metal and lanthanides	Comply with composition and specific migration in Annex II, Regulation (EU) No 10/2011	Migration with food simulant followed by ICP-MS
Aluminium	1 mg/kg	
Antimony	0,04 mg/kg	Migration with food simulant followed
Arsenic	Not detectable (detection llimit 0,01 mg/kg)	by ICP-MS EN 13130-1
Barium	1 mg/kg	1
Cadmium	Not detectable (Limit of detection 0,002 mg/kg)	
Chromium	Not detectable (detection llimit 0,01 mg/kg)	-
Cobalt	0.05 mg/kg	1
Copper	5 mg/kg	1
Iron	48 mg/kg	1
Lithium	0.6 mg/kg	
Manganese	0.6 mg/kg	
Mercury	Not detectable (detection llimit 0,01 mg/kg)	
Nickel	0,02 mg/kg	1
Lead	Not detectable (detection llimit 0,01 mg/kg)	-
Zinc	5 mg/kg	1
Specific migration of primary aromatic amines (PAA)	Sum of PAA: Not detectable (a detection limit of 0.01 mg/kg)	Migration with food simulant followed by LC-MS/MS
	- Individual PAA listed in REACH entry 43 to Appendix 8 of Annex XVII	EN13130-1
	(detection limit of 0.002 mg/kg)	

	colored plastics	
Colour fastness	No transfer of colorants to food simulants is permitted	Resolution AP (89)1 Appendix III
Acetal Resins/Polyoxymethy	/lene (POM)	
Boron (B)	0.008%	Total metal content by microwave digestion with HNO ₃ /H ₂ O ₂ and determination with ICP/MS
Zinc (Zn)	1%	Total metal content by microwave digestion with HNO ₃ /H ₂ O ₂ and determination with ICP/MS
Formaldehyde, Specific Migration	3 ppm (Aqueous simulants only)	EN 13130-23
Acryl Resins		
Volatile Organic matter (VOM)	0.5%	Gravimetric Method (90°C, 24 hours)
Peroxide	Not detected	Ph. Eur. Method 2.5.5
	Not detected	Th. Edi. Method 2.5.5
Melamine resins	45	EN 42420 22
Formaldehyde	15 mg/kg	EN 13130-23
Melamine	2.5 mg/kg	EN 13130-1
Apart from complying with EU Regula EU Regulation 284/2011.	tion 10/2011, including its amendments	s Melamine resins must also comply with
Polyamide (PA) e.g. Nylon		
Caprolactam	15 mg/kg	EN 13130-1
РАА	< 0.01 mg/kg	EN 13130
Hexamethylenediamine (PA6,6)	≤2.4 mg/kg	EN 13130
	ition 10/2011, including its amendments	s Polyamide resins must also comply with
EU Regulation 284/2011.		
Polyethylene (PE)		
Chromium (Cr) Vanadium (V)	10 ppm	Total metal content by microwave digestion with HNO ₃ /H ₂ O ₂ and
Zirconium (Zr)	20 ppm 100 ppm	determination with ICP/MS
Hafnium (Hf)	100 ppm	
1-Octene	≤15 mg/kg	EN 13130
1-Hexene	≤3 mg/kg	EN 13130
Polyethylene Terephthalate		
Lead (Pb), total	40 ppm as PbO	Total metal content by microwave
Zinc (Zn), total	80 ppm	digestion with HNO ₃ /H ₂ O ₂ and
		determination with ICP/MS
Antimony	350 ppm	
Ethylene glycol	≤30 mg/kg (expressed as ethylene glycol)	EN 13130
Diethylene glycol		_
Terephthalic acid	≤7.5 mg/kg (expressed as	
Isophthalic acid	terephthalic acid)	
Acetaldehyde	≤6 mg/kg	
Formaldehyde	≤15 mg/kg	1
Polypropylene (PP)		
Chromium (Cr)	10 ppm	Total metal content by microwave
Vanadium (V)	20 ppm	digestion with HNO ₃ /H ₂ O ₂ and
Zirconium (Zr)	100 ppm	determination with ICP/MS
Hafnium (Hf)	100 ppm	51142420
1-Octene	≤15 mg/kg	EN 13130
1-Hexene	≤3 mg/kg	EN 13130

Polyurethane (PU)		
Isocyanates*	Not detected	ISO 10283 (modified)
Peroxide	Not detected	Ph. Eur. Method 2.5.5
Dimethylformamide (DMF)	Usage ban	-
Thermoplastic Elastomer (TP	E)	
Formaldehyde, Specific Migration	3 ppm (Aqueous simulants only)	EN 13130-23
Zinc (Zn)	1%	Total metal content by microwave digestion with HNO ₃ /H ₂ O ₂ and determination with ICP/MS
Lead (Pb)	0.001%	Total metal content by microwave digestion with HNO ₃ /H ₂ O ₂ and determination with ICP/MS
Tritan Copolyester TX1001	·	
Specific migration of 2,2,4,4- tetramethylcyclobutane-1,3-diol (TMCD, CAS no. 3010-96-6)	5 mg/kg *Only for repeated use articles for long term storage at room temperature or below and hotfill	Migration with food simulant followed by GC-MS

Kazakhstan		
Plastic		
Restricted substance	Limit	Standard
Polyethylene (PE) and Polypropylene (PP)		GOST 50962
Formaldehyde	0.1 mg/l	
Polymethylmetacrylate (PMMA)		
Methyl metacrylate	0.25 mg/l	
Polyamid 66		
Hexamethylene diamine	0.5 mg/l	
Polyamide 6		
E-caprolaktam	0.5 mg/l	
Polyethyleneterephtalate	·	
Ethanal	0.2 mg/l	

US	
Plastic	
Restricted substance	Requirement
All Plastic	
All Plastics must comply with US regulation 21 CFR Part 177 on plastic mate contact with food.	rials and articles intended to come into
Melamine	

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Formaldehyde	21 CFR 177.1460
Nylon (Polyamides)	
Nylon resins which may be safely used to produce articles intended to come into contact with food	21 CFR 177.1500
Polyethylene (PE)	
Olefin polymers	21 CFR 177.1520
Polyethylene Terephthalate (PET)	
Polyethylene phthalate polymers	21 CFR 177.1630
Polyoxymethylene (POM)	
Polyoxymethylene copolymer	21 CFR 177.2470
Polypropylene (PP)	-
Olefin polymers	21 CFR 177.1520
Polyurethane (PU)	
Polyurethane resins	21 CFR 177.1680
Tritan	
Tritan Copolyester TX1001	FCN No. 1041

China

Plastic Materials and Products (including non-vulcanized thermoplastic elastomer material and articles)

Requirement		Material standard	Test method
Raw material - resin	The used food contact plastic resins must meet the specification in Appendix A and related notice.	GB 4806.7 Food Safety National Standards - Food contact plastic material and products	Migration tests acc to GB31604.1 and GB 5009.156. SML (T) and SML(T) group no. specified in Append B of GB 9685 apply
Additive	The additives must meet the specification in GB 9685 and relative notice.		
Sensory Requirement	No peculiar odour. Extraction solvent should be clear and no smell.		GB 4806.7
Overall migration test	≤10 mg/dm ² (≤ 60 mg/kg for article intended to be brought into contact with food for infants or young children)		Migration according to GB31604.1 and GB 5009.156, and then followed by GB 31604.8
Usage of Potassium permanganate titration (KMnO4)	≤10 mg/kg		Migration according to GB31604.1 and

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			GB 5009.156,
			and then followed by GB
			31604.2
SM Lead	≤1 mg/kg		Migration according to
			GB31604.1 and
			GB 5009.156,
			and then followed by GB
			31604.9
Decolorization (for colored material)	Negative		GB 31604.7
SM for certain substances	Specific migration limit and other restrictions		Migration
[according to the material information provided (e.g.	should meet the specification in Appendix A and relative notice.		according to GB31604.1 and
regulatory affairs products			GB 5009.156,
information data sheet, etc)]			and then followed by
			instrumental
		-	analysis
Total migration of Primary Aromatic Amines	n.d.		Migration according to
	(detection limit = 0.01 mg/kg)		GB31604.1 and
	applicable to plastic materials and articles		GB 5009.156,
	containing aromatic isocyanates, azo colorants		and then followed by GB
	and other substances that may produce PAA.		31604.52
	for certain plastic type (not exhaustive)		
Polypropylene (PP)		1	
SM for certain substances	The plastic resin used must be listed in Appendix A and relevant notice.	GB 4806.7	Migration
[according to the material information provided (e.g.	A and relevant notice.		according to GB31604.1 and
regulatory affairs products			GB 5009.156,
			GB 5009.156, and then
regulatory affairs products			GB 5009.156,
regulatory affairs products information data sheet, etc)]			GB 5009.156, and then followed by
regulatory affairs products information data sheet, etc)] Polyethylene (PE)			GB 5009.156, and then followed by instrumental analysis
regulatory affairs products information data sheet, etc)] Polyethylene (PE) SM for certain substances	The plastic resin used must be listed in Appendix	GB 4806.7	GB 5009.156, and then followed by instrumental analysis Migration
regulatory affairs products information data sheet, etc)] Polyethylene (PE) SM for certain substances [according to the material	The plastic resin used must be listed in Appendix A and relevant notice.	GB 4806.7	GB 5009.156, and then followed by instrumental analysis
regulatory affairs products information data sheet, etc)] Polyethylene (PE) SM for certain substances [according to the material information provided (e.g. regulatory affairs products		GB 4806.7	GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156,
regulatory affairs products information data sheet, etc)] Polyethylene (PE) SM for certain substances [according to the material information provided (e.g.		GB 4806.7	GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156, and then
regulatory affairs products information data sheet, etc)] Polyethylene (PE) SM for certain substances [according to the material information provided (e.g. regulatory affairs products		GB 4806.7	GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156,
regulatory affairs products information data sheet, etc)] Polyethylene (PE) SM for certain substances [according to the material information provided (e.g. regulatory affairs products		GB 4806.7	GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156, and then followed by
regulatory affairs products information data sheet, etc)] Polyethylene (PE) SM for certain substances [according to the material information provided (e.g. regulatory affairs products information data sheet, etc)] Tritan Copolyester TX1001	A and relevant notice.		GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156, and then followed by instrumental analysis
regulatory affairs products information data sheet, etc)] Polyethylene (PE) SM for certain substances [according to the material information provided (e.g. regulatory affairs products information data sheet, etc)] Tritan Copolyester TX1001 Specific migration of 2,2,4,4-	A and relevant notice. *Only for use at temperatures not higher than	Polymer is	GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156, and then followed by instrumental analysis Migration
regulatory affairs products information data sheet, etc)] Polyethylene (PE) SM for certain substances [according to the material information provided (e.g. regulatory affairs products information data sheet, etc)] Tritan Copolyester TX1001 Specific migration of 2,2,4,4- tetramethylcyclobutane-1,3-diol	A and relevant notice.	Polymer is listed in	GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156, and then followed by instrumental analysis
regulatory affairs products information data sheet, etc)] Polyethylene (PE) SM for certain substances [according to the material information provided (e.g. regulatory affairs products information data sheet, etc)] Tritan Copolyester TX1001 Specific migration of 2,2,4,4-	A and relevant notice. *Only for use at temperatures not higher than	Polymer is listed in Appendix A (CAS No.	GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156,
regulatory affairs products information data sheet, etc)] Polyethylene (PE) SM for certain substances [according to the material information provided (e.g. regulatory affairs products information data sheet, etc)] Tritan Copolyester TX1001 Specific migration of 2,2,4,4- tetramethylcyclobutane-1,3-diol	A and relevant notice. *Only for use at temperatures not higher than	Polymer is listed in Appendix A (CAS No. 261716-94-	GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156, and then
regulatory affairs products information data sheet, etc)] Polyethylene (PE) SM for certain substances [according to the material information provided (e.g. regulatory affairs products information data sheet, etc)] Tritan Copolyester TX1001 Specific migration of 2,2,4,4- tetramethylcyclobutane-1,3-diol	A and relevant notice. *Only for use at temperatures not higher than	Polymer is listed in Appendix A (CAS No.	GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156, and then followed by instrumental analysis Migration according to GB31604.1 and GB 5009.156,

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Plastic		
Restricted substance	Requirement	Test method
All Plastic		
Total lead, cadmium, mercury and chromium (VI) content, Material Specification	≤ 100 mg/kg	Ministry of Food and Drug Safety - Standards and Specifications for Utensils, Containers and Packaging for Food Products, Article 7 (VI), methods 2-1, 2-2, 2-3 and 2-4.
Acrylic Resin (Polymethyl meth	acrylate (PMMA))	
Lead (Pb), Migration Specification	≤ 1.0 mg/l	Ministry of Food and Drug Safety -
Potassium permanganate consumption, Migration Specification	≤ 10 mg/l	Standards and Specifications for Utensils, Containers and Packaging for Food
Evaporation residue, Migration Specification	≤ 30 mg/l	 Products, Article 7 (VI), methods 2-1, 2-7, 2-8 and 2-29.
Methyl methacrylate, migration Specification	≤ 6.0 mg/l	
(Limited to polymer that contains ≥ 50% of methyl methacrylate)		
Melamine	•	·
Lead (Pb), Migration Specification	≤ 1.0 mg/l	Ministry of Food and Drug Safety -
Evaporation residue, Migration Specification	≤ 30 mg/l	Standards and Specifications for Utensils, Containers and Packaging for Food
Phenol, Migration Specification	≤ 5 mg/l	 Products, Article 7 (VI), methods 2-1, 2-8, 2-26, 2-27 and 2-28.
Formaldehyde, Migration Specification	≤ 4.0 mg/l	
Melamine, Migration Specification	≤ 2.5 mg/l	
Polyamide		
Lead (Pb), Migration Specification	≤ 1.0 mg/l	
Evaporation residue, Migration Specification	≤ 30 mg/l	Ministry of Food and Drug Safety -
Potassium permanganate consumption, Migration Specification	≤ 10 mg/l	Standards and Specifications for Utensils, Containers and Packaging for Food
Caprolactam, Migration Specification	≤ 15 mg/l	Products, Article 7 (VI), methods 2-1, 2-8, 2-7, 2-30, 2-31 and 2-32.
Primary aromatic amine, Migration Specification (Sum as aniline, 4,4'- methylenedianiline and 2,4- toluenediamine)	≤ 0.01 mg/l	
Ethylenediamine, Migration Specification	≤ 12 mg/l	
Hexamethylenediamine, Migration Specification	≤ 2.4 mg/l	
Laurolactam, Migration Specification	≤ 5.0 mg/l	
Polyethylene (PE) and Polyprop	ylene (PP)	
Lead (Pb), Migration Specification	≤ 1.0 mg/l	Ministry of Food and Drug Safety -
Potassium permanganate consumption, Migration Specification	≤ 10 mg/l	Standards and Specifications for Utensils, Containers and Packaging for Food

Evaporation residue, Migration	≤ 150 mg/l	Products, Migration of lead, potassium	
Specification	(for use at temperatures ≤ 100°C and n-heptane as leaching solution) ≤ 30 mg/l (other simulants as leaching solution)	permanganate consumption, evaporation residue, 1-hexene and 1-octene. Article 7 (IV), methods 2-1, 2-7, 2-8 and 2-20.	
1-hexene, Migration Specification (only for PE)	≤ 3 mg/l		
1-octene, Migration Specification (only for PE)	≤ 15 mg/l		
Polyurethane (PU)			
Lead (Pb), Migration Specification	≤ 1.0 mg/l	Ministry of Food and Drug Safety -	
Potassium permanganate consumption, Migration Specification	≤ 10 mg/l	Standards and Specifications for Utensils, Containers and Packaging for Food Products, Article 7 (IV), methods 2-1, 2-7,	
Evaporation residue, Migration Specification	≤ 30 mg/l	2-8, 2-38 and 2-31.	
Isocyanate, Migration Specification	≤ 0.1 mg/l		
4,4'-methylenedianiline, Migration Specification	≤ 0.01 mg/l		
Polyethylene Terephthalate (PE	Г)		
Lead (Pb), Migration Specification	≤ 1.0 mg/l	Ministry of Food and Drug Safety -	
Potassium permanganate consumption, Migration Specification	≤ 10 mg/l	Standards and Specifications for Utensils, Containers and Packaging for Food Products, Article 7 (IV), methods 2-1, 2-7,	
Evaporation residue, Migration Specification	≤ 30 mg/l	2-8, 2-10, 2-24 and 2-25.	
Antimony (Sb), Migration Specification	≤ 0.04 mg/l		
Germanium (Ge), Migration Specification	≤ 0.1 mg/l		
Terephthalatic acid, Migration Specification	≤ 7.5 mg/l		
Isophthalic acid, Migration Specification	≤ 5.0 mg/l	7	
Acetaldehyde, Migration Specification	≤ 6.0 mg/l	7	
Polyacetal/Polyoxymethylene (I	POM)		
Lead (Pb), Migration Specification	≤ 1.0 mg/l	Korea Standards and Specifications for	
Potassium permanganate consumption, Migration Specification	≤ 10 mg/l	Utensils, Containers and Packaging for Food Products, Article 7 (IV), methods 2-1,	
Evaporation residue, Migration Specification	≤ 30 mg/l	2-7, 2-8 and 2-27.	
Formaldehyde, Migration Specification	≤ 4.0 mg/l		

Japan

Plastic

All Plastic and polymer coatings

The final product must comply with the composition requirements, the food type that may be in contact, the permitted temperature conditions, and applicable limitations in accordance with article 18 (3) in Food Sanitation Act No 233 of 1947, amendments and applicable tables.

Base material and monomers	Must meet the specification in positive list in Appendix 1 Table 1 and corresponding lists of monomers in Annexes 1 to 21		
Additives	Must meet the specification in	positive list in Appendix 1 Table 2	
Restricted substance	Requirement Test method		
All Plastic		•	
Elution of coloring agent	Not recognized	Japan Specifications and Standards for	
Lead, Cadmium	not more than 100 μg/g each	Food, Food Additives, etc. (1959 MHW Notice No. 370) with Amendments up to	
Heavy metal (as Pb)	not more than 1 µg/ml	2010 MHLW Notice No. 336	
KMnO ₄ consumption	not more than 10 μg/ml		
Acrylic Resin (Polymethyl meth	acrylate (PMMA))		
Evaporation residue, Migration Specification	<=30 µg/ml	Japan Specifications and Standards for Food, Food Additives, etc. (1959 MHW	
Methyl methacrylate, migration Specification	≤ 15 µg/ml	Notice No. 370) with Amendments up to 2010 MHLW Notice No. 336	
Synthetic resin made from form	naldehyde		
Phenol, Migration Specification	Negative	Standards for Food, Food Additives, etc.	
Formaldehyde, Migration Specification	Negative	(1959 MHW Notice No. 370) with	
Evaporation residue	≤ 30 ppm	Amendments up to 2010 MHLW Notice No. 336	
Phenolic resin, Melamine resin	and Urea resin		
Evaporation residue, Migration Specification	≤ 30 μg/ml	Standards for Food, Food Additives, etc. (1959 MHW Notice No. 370) with	
Phenol, Migration Specification	≤ 5 μg/ml	Amendments up to 2010 MHLW Notice No. 336	
Formaldehyde, Migration Specification	Negative	-	
Polyethylene (PE) and Polyprop	ylene (PP)		
Evaporation residue, Migration Specification	 ≤ 150 µg/ml (for use at temperatures ≤ 100°C and n-heptane as leaching solution) ≤ 30 µg/ml (other simulants as leaching solution) 	Standards for Food, Food Additives, etc. (1959 MHW Notice No. 370) with Amendments up to 2010 MHLW Notice No. 336	
Polyethylene Terephthalate (Pl	ET)	·	
Evaporation residue, Migration Specification	≤ 30 µg/ml	Standards for Food, Food Additives, etc. (1959 MHW Notice No. 370) with	
Antimony (Sb), Migration Specification	≤ 0.05 μg/ml	Amendments up to 2010 MHLW Notice No. 336	
Germanium (Ge), Migration Specification	≤ 0.1 μg/ml		

Taiwan Plastic			
Restricted substance	Requirement	Test method	
All Plastic			
Elution of coloring agent	Not recognized	Taiwan Sanitation Standard for Food	
Lead, Cadmium	≤ 100 ppm	Utensils, Containers and Packages	
Phthalate Content	di-(2-ethylhexyl) phthalate (DEHP), di-n-butyl phthalate(DBP), Butylbenzyl phthalate(BBP), Di decyl phthalate(DIDP), Diisononyl phthalate(DINP), Dimethyl phthalate(DMP), Di-n-octhl phthalate(DNOP), Diethyl phthalate(DEP) each content ≤ 0.1%		
Heavy metal (as Pb)	not more than 1 ppm		
KMnO4 consumption	not more than 10 ppm]	
Migration of Phthalate	DEHP not more than 1.5 ppm DBP not more than 0.3 ppm BBP not more than 30 ppm DIDP not more than 9 ppm DINP not more than 9 ppm DEHA not more than 18 ppm	-	
Acrylic Resin (Polymethyl meth	acrylate (PMMA))	1	
Evaporation residue, Migration Specification	≤ 30 ppm	Taiwan Sanitation Standard for Food Utensils, Containers and Packages	
Methyl methacrylate, migration Specification	≤ 15 ppm		
Melamine			
Evaporation residue, Migration Specification	≤ 30 ppm	Taiwan Sanitation Standard for Food Utensils, Containers and Packages	
Phenol, Migration Specification	Negative		
Formaldehyde, Migration Specification	Negative	1	
Melamine, Migration Specification	≤ 2.5 ppm	1	
Polyamide	1		
Evaporation residue, Migration Specification	≤ 30 ppm	Taiwan Sanitation Standard for Food Utensils, Containers and Packages	
Caprolactam, Migration Specification	≤ 15 ppm	-	
Polyethylene (PE) and Polyprop	oylene (PP)	1	
Evaporation residue, Migration Specification	<pre>≤ 150 ppm (for use at temperatures ≤ 100°C and n-heptane as leaching solution)</pre>	Taiwan Sanitation Standard for Food Utensils, Containers and Packages	
	≤ 30 ppm (other simulants as leaching solution)		

Polyethylene Terephthalate (PET)		
Evaporation residue, Migration Specification	≤ 30 ppm	Taiwan Sanitation Standard for Food Utensils, Containers and Packages
Antimony (Sb), Migration Specification	≤ 0.05 ppm	
Germanium (Ge), Migration Specification	≤ 0.1 ppm	

Natural rubber, synthetic rubber, silicone and elastomer

EU		
Rubber		
Restricted substance/Requirement	Limit	Test method
Antimicrobial effect substances	Usage ban	
Overall migration limit	 10 mg/dm² 60 mg/kg for caps, seals, stoppers and similar closures for infants and young children 	EN1186, BfR recommendations
PAH*, Content	< 0.2 ppm, each 10 listed PAH < 1 ppm, naphthalene < 1 ppm sum of Anthracene, fluoranthene, phenanthrene, pyrene < 1 ppm, sum of 15 PAH	AfPS GS 2019:01 PAK
PAH*, Specific Migration	10 µg/kg	EN 13130+GC/MS
Lead (Pb), total	For rubber: 0.003% For rubber with mouth contact: 0.001%	Total metal content by microwave digestion with HNO ₃ /H ₂ O ₂ and determination with ICP/MS
Zinc (Zn), total	1%	Total metal content by microwave digestion with HNO ₃ /H ₂ O ₂ and determination with ICP/MS
Organotin Compounds*	0.05 mg/kg	DIN 38407-13
Formaldehyde, Specific Migration	3 ppm (aqueous solution only)	EN 13130-23
Hexamethylenetetramine, Specific Migration	SML(T) = 15 mg/kg as the sum of the migration of hexamethylenetetramine and formaldehyde	
N-nitrosamines, Specific Migration	0.01 ppm 1 μg/dm ² , sum release in elastomers	EN 12868
N-nitrosable substances	0.1 ppm	
For rubber with mouth contact		
Lead (Pb), migration	N.D. (detection limit of 0.01 mg/kg)	BfR recommendation XXI
Primary Aromatic Amines, Specific Migration	 N.D (a detection limit of 0.01 mg/kg) N.D. PAAs listed in REACH entry 43 to Appendix 8 of Annex XVII : Not detected (detection limit of 0.002 mg/kg) 	
Secondary aliphatic and cycloaliphatic amines, specific migration	5 mg/dm ²	

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Specific migration of metals	Barium: ≤ 1.2 mg/kg Copper: ≤ 4 mg/kg Aluminium: ≤ 1 mg/kg Zinc: ≤ 5 mg/kg	French Decree of 5 August 2020
Residual content of impurities (lead, cadmium, antimony, mercury and arsenic) in finished products	≤ 1 mg/kg	
Peroxide residues	Absence	DGCCRF - 2004-64, European Pharmacopoeia, 2005
Volatile Organic Matter (VOM)	< 0.5%	DGCCRF - 2004-64, French decree 25/11/92
Aromatic Amines	≤1 mg/kg	DGCCRF - 2004-64, EN 13130

China			
	r, synthetic rubber materials and article		
Requirement		Material standard	Test method
Raw material requirement	The used natural rubber resin, synthetic rubber resin should be listed in appendix A or relevant notice, and meet the specification, vulcanized thermoplastic elastomer resin should be listed in GB 4806.7 appendix A or relevant notice.	GB 4806.11 Food Safety National Standards – rubber materials and articles	
Sensory Requirement	No peculiar odor. Extraction solvent should be clear and no smell.		
Overall migration test - distilled water, 4% acetic acid, 10% ethanol, 20% ethanol, 50% ethanol, 95% ethanol	≤10 mg/dm ² or 60 mg/kg		GB 31604.8
Potassium permanganate titration in Distilled water (60°C, 0.5h)	≤10 mg/kg		GB 31604.2 3 rd migration
Heavy metal (as Pb) content in 4 % acetic acid (60°C, 0.5h)	≤1 mg/kg		GB 31604.9
Other requirement	Specific migration limit and other restrictions for natural rubber, synthetic rubber should meet the specification in GB 4806.11 appendix A and relative notice. Specific migration limit and other restrictions for sulfide thermoplastic elastomer should meet the specification in GB 4806.7 appendix A and relative notice.		
Total migration of Primary Aromatic Amines	n.d (detection limit 0.01 mg/kg)		

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	applicable to rubber materials and articles containing for amine antioxidants, sulfenamide vulcanization accelerators, azo colorants and other substances that may produce PAAs.
N-nitrosamines, Specific Migration	0.01 mg/kg
N-nitrosatable substances	0.1 mg/kg only applicable to rubber materials and articles containing vulcanization accelerators and other substances that may produce N-nitrosamines and N-nitrosatable substances
Additive	Meet the specification in GB 9685 and relative notice.

Uruguay & Brazil

Elastomer including rubber

The final product must comply with the requirements in GMC Resolution no. 54/97 and RDC no. 123/01 and the composition requirements and the specific migration limit(s) in accordance with applicable resolutions and technical regulations below.

Restricted substance	Limit	Standard
Positive lists of elastomeric polymers, crosslinking agents, additives etc.	Must meet the specific migration limits and composition limits in GMC Resolution no. 02/12 as amended by GMC Res No 19/21	Applicable standards in GMC Res. no. 28/99 RDC no. 123/01
	RDC no. 56/12 amended by RDC no. 589/21	
Global migration	50 mg/ kg ≥ 250 ml 8 mg/ dm² < 250 ml	Applicable standard in GMC Res. no. 36/92 RDC no. 123/01
Colorants and pigments in elastomer	Must comply with the requirements specified in, section 2 in Annex GMC Resolution no. 15/10 RDC no. 52/10	GMC Res. no. 15/10 RDC no. 52/10

US

Rubber

All polymers must comply with US Regulation 21 CFR Part 177 – Indirect Food Additives: Polymers

Restricted substance/Requirement	Limit
Rubber articles intended for repeated use	21 CFR 177.2600
Closures with sealing gaskets for food containers	21 CFR 177.1210

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South Korea, Japan & Taiwan Rubber and silicone		
Restricted substance/Requirement	Limit	Test method
Elution of coloring agent	Not recognized Only for Japan & Taiwan	Japan Specifications and Standards for Food, Food Additives, etc. (1959 MHW Notice No. 370) with Amendments up to 2010 MHLW Notice No. 336 Taiwan Sanitation Standard for Food Utensils, Containers and Packages
Total lead (Pb) content, Material Specification	≤ 100 mg/kg	
· · · ·	(for non-pacifier)	KR: Article 7 (IV) of food
		contact code, methods 2-1,
	≤ 10 mg/kg	2-2, 2-49 and 2-39
	(for pacifier)	Japan Specifications and
Total cadmium (Cd) content, Material	≤ 100 mg/kg	Standards for Food, Food
Specification	(for non-pacifier)	Additives, etc. (1959 MHW
	≤ 10 mg/kg	Notice No. 370) with Amendments up to 2010
	(for pacifier)	MHLW Notice No. 336
2-Mercatoimidazoline, Material Specification	Not detected	Taiwan Sanitation Standard
(limited to rubber containing chlorine)	< 1.0 mg/kg	
1,3-butadiene, Material Specification (limited to the rubber material that contain 50%	≤ 1.0 mg/kg	for Food Utensils, Containers and Packages
or more of 1,3-butadiene)		containers and rackages
Lead (Pb), Migration Specification	≤ 1.0 mg/kg	
Evaporation residue, Migration Specification	≤ 60 mg/kg	KR: Article 7 (IV) of food
	(for non-pacifier)	contact code, methods 2-1, 2-8, 2-26, 2-27, 2-50 and 2-
	≤ 40 mg/kg	51.
	(for pacifier)	Japan Specifications and
Phenol, Migration Specification	≤ 5.0 mg/l	Standards for Food, Food
Formaldehyde, Migration Specification	$\leq 4.0 \text{ mg/l}$	Additives, etc. (1959 MHW Notice No. 370) with
Zine (Zn) Migration Constituation	Not detected (for Japan & Taiwan)	Amendments up to 2010
Zinc (Zn), Migration Specification	≤ 15 mg/kg (for non-pacifier)	MHLW Notice No. 336
	$\leq 1.0 \text{ mg/kg}$	Taiwan Sanitation Standard for Food Utensils,
	(for pacifier)	Containers and Packages
N-nitrosamines, Migration Specification	≤ 0.01 mg/kg	-
(Sum of N-nitrosodimethylamine, N-	(for pacifier)	
nitrosodiethylamine, N-nitrosodi-n-propyl amine,		
N-nitrosodi-n buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine)		
N-nitrosatable substances, Migration	≤ 0.01 mg/kg	

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(Sum of N-nitrosodimethylamine, N- nitrosodiethylamine, N-nitrosodi-n-propyl amine, N-nitrosodi-n buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine)		
Phthalate Content	Only For Taiwan di-(2-ethylhexyl) phthalate (DEHP), di-n-butyl phthalate(DBP), Butylbenzyl phthalate(BBP), Diisodecyl phthalate(DIDP), Diisononyl phthalate(DINP), Dimethyl phthalate(DMP), Di-n-octhl phthalate(DMP), Diethyl phthalate(DEP) each content ≤ 0.1%	Taiwan Sanitation Standard for Food Utensils, Containers and Packages
Migration of Phthalate	Only For Taiwan DEHP \leq 1.5 ppm DBP \leq 0.3 ppm BBP \leq 30 ppm DIDP \leq 9 ppm DINP \leq 9 ppm DEHA \leq 18 ppm	

EU & Switzerland		
Silicone Restricted substance	Requirements	
Monomers, additives and other starting substances	Must be listed in annex I in Spanish Ro Annex I in EU Regulation (EU) No.10/2 (2004) 5 and Annexes 2 & 9 of Swiss O	011 or EU Resolution AP
Polymerization aids	Must comply with article 5 in Spanish I not be present in final product and An Ordinance SR 817.023.21.	
Identity and purity of coloring matter	Must fulfill the criteria of identity and purity established in article 6 and Annex II of Royal Decree 847/2011 Article.	
Specific migration limits (SML)	Final product must fulfill SML in Annex I in Royal Decree 847/2011, Annexes III and V in Regulation (EU) No.10/2011 or EU Resolution Resolution AP(2004) 5.	
Restricted substance/Requirement	Limit	Test method
Overall migration limit	10 mg/dm ² 60 mg/kg for infants and young children	EN1186
Migration of colorants	> 95% transmission	DM 21/03/1973
SML of Organotin (as Tin)	0.1 mg/kg	Arrêté du 25 Novembre 1992
PAH*, Content	< 0.2 ppm, each 10 listed PAH < 1 ppm, naphthalene	AfPS GS 2019:01 PAK

	< 1 ppm sum of Anthracene,fluoranthene, phenanthrene, pyrene< 1 ppm, sum of 15 PAH	
PAH*, Specification Migration	5 μg/kg	EN 13130+GC/MS
Peroxide	Not detected	Ph. Eur. Method 2.5.5
Volatile Organic Matter (VOM)	0.5%	French Decree 2007-766, French Arrete 25 Nov. 1992, 4h/200°C
Formaldehyde specific migration	3 ppm (Aqueous simulants only)	EN 13130-23

US Silicone All polymers must comply with Polymers	th US Regulation 21 CFR Part 177 – Indirect Food Additives:
Restricted substance/Requirement	Limit
Rubber articles intended for repeated use	21 CFR 177.2600
Closures with sealing gaskets for food containers	21 CFR 177.1210

Waxes and paraffines

Uruguay & Brazil Waxes and Paraffines		
Restricted substance	Limit	Standard
Components for preparation of paraffin-based coatings	Must comply with restrictions and specification in the positive list chapter 3 in GMC Res no. 67/00 and RDC no. 122/01.	GMC Res. no. 67/00 RDC no. 122/01

US

California Proposition 65

California Proposition 65				-
	Restricted substance/Limit			
Category	Arsenic (As)	Cadmium (Cd)	Lead (Pb)	Method
Shot Glass ¹⁶	/	/	≤ 90 ppm total content and all surfaces shall produce a result of ≤ 1.0 μg	EPA 3051A / EPA 3050B / EPA 3052 / NIOSH method 9100/ ASTM C 927/
Bowl (ceramic/glass)	/	/	Exterior decoration: ≤ 1 µg and ≤ 90 ppm and ≤ 0.99 ppm (corrected internal volume) Interior decoration: n.d	ASTM C738
Salt and pepper shakers ¹⁷ – all accessible exterior substrates and surface coatings	/	/	≤ 90 ppm total content and ≤ 1.0 µg	
Drinking glasses made with recycled glass (drinking glasses with exterior designs - made from recycled glass)	/	/	≤ 90 ppm total content and all surfaces shall produce a result of ≤ 1.0 μg	
Plastic and Metallic Food and Beverage Container and Mug	/	Exterior decoration: ≤ 1.0 µg	Exterior decoration: ≤ 1.0 µg Lip and rim: n.d Interior decoration: n.d	
Cookware, e.g ceramic or glass casserole dish with colored artwork or design (ceramic/glass)	/	/	Exterior decoration: ≤ 50 ppm total content and ≤ 1.0 µg Interior decoration: ≤ 0.99 ppm	
Halloween decor, costume and its accessory, including e.g. candy bowls	≤ 25 ppm soluble content - all accessible substrates and surface coatings	 ≤ 300 ppm total content- mouthable substrates and surface coatings, ≤ 75 ppm soluble content- All other accessible substrates and surface coatings 	≤ 90 ppm total content – surface coatings and all substrates	ASTM F963
Category	Total Organic Flourine, PFOA			Method

^{16,17} Non-suspect materials, except leather, as defined by the Consumer Products Safety Commission in 16 CFR 1500.91 (d) and (e) will not be tested. <u>eCFR :: 16 CFR 1500.91 -- Determinations regarding lead content for certain materials or products under section 101 of the Consumer Product Safety Improvement Act.</u>

Children's lunch bag - made from textiles and coated material with water, oil and/or stain repellent/resistant finishes only.	< 100 mg/kg of total organic fluorine PFOA: n.d (detection limit: 0.01)	EN 14582/ ASTM D7359 EN ISO 23702-1/ EN 17681-1
	If Total Organic Fluorine is < 100 mg/kg, no need for further testing.	

Requirements - Child Care Articles

Cutlery and Feeding Utensils

<u>EU</u>

Additional requirements for Metals / Stainless steel / Silicone		
Restricted substance	Limit	Test method
Antimony (Sb)	15 mg/kg	According to EN14372
Arsenic (As)	10 mg/kg	
Barium (Ba)	100 mg/kg	
Cadmium (Cd)	20 mg/kg	
Lead (Pb)	25 mg/kg	
Chromium (Cr)	10 mg/kg	
Mercury (Hg)	10 mg/kg	
Selenium (Se)	100 mg/kg	

Drinking Equipment

<u>EU</u>

Plastic & Thermoplastic Elastomer (TPE), Rubber, Silicone

General Requirements for Plastic & Thermoplastic Elastomer (TPE) / Rubber/ Silicone		
Restricted substance	Limit	Test method
Aluminium (Al)	6000 mg/kg	According to EN 14350
Antimony (Sb)	120 mg/kg	
Arsenic (As)	10 mg/kg	
Barium (Ba)	4000 mg/kg	
Boron (B)	3200 mg/kg	
Cadmium (Cd)	3,6 mg/kg	
Chromium (Cr III)	100 mg/kg	
Chromium (Cr VI)	0,002 mg/kg	

	If the result is below the Limit of Quantification of EN 71-3, the sample is to be considered passed.	
Cobalt (Co)	28 mg/kg	-
Copper (Cu)	1 660 mg/kg	-
Lead (Pb)	5,0 mg/kg	-
Manganese (Mn)	600 mg/kg	-
Mercury (Hg)	20 mg/kg	-
Nickel (Ni)	56 mg/kg	
Selenium (Se)	100 mg/kg	-
Strontium (Sr)	12 000 mg/kg	-
Tin (Sn)	40 000 mg/kg	-
Organic Tin	2,5 mg/kg	
Zinc (Zn)	10 000 mg/kg	1
N-Nitrosamines release	0.01 mg/kg	TPE, Rubber, Silicone, EN 12868
N-Nitrosatables release	0.1 mg/kg	

Additional requirements for Thermoplastic Elastomer (TPE)			
Restricted substance	Limit	Test method	
Formaldehyde, specific migration	0,5 mg/l	EN 14350	
Primary Aromatic Amines, Specific Migration	Sum of PAA: Not detected (a detection limit of 0.01 mg/kg) Individual PAA listed in REACH entry 43 to Appendix 8 of Annex XVII : Not detected (detection limit of 0.002 mg/kg)	EN 14350 Simulant: 3% acetic acid. Test conditions: 40°C for 24 hours,	

Additional requirements for Rubber		
Restricted substance	Limit	Test method
2-mercaptobenzothiazole (MBT)	8 mg/kg	EN 14350
2,6-bis(1,1-dimethylethyl)-4-methyl- phenol (BHT)	0,42 mg/l	
2,2'-methylenebis(4-ethyl-6-tert- butylphenol) (Cyanox 425)	0,08 mg/l This limit is the SML(t) for the sum	
2,2'-methylenebis(6-(1,1- dimethylethyl)-4-methyl-phenol)	of Cyanox 425 and Antioxidant 2246	
(Antioxidant 2246)		
Butylated reaction product of p-cresol and dicyclopentadiene	0,34 mg/l	
(Wingstay L)		
2,4-bis(octylthiomethyl)-6- methylphenol (Irganox1520)	0,34 mg/l This limit is the SML(t) for the sum	
2,4-bis(dodecylthiomethyl)-6- methylphenol (Irganox 1726)	of Irganox 1520 and Irganox 1726	
Formaldehyde, specific migration	0,5 mg/l	
Primary Aromatic Amines, Specific Migration	Sum of PAA: Not detected (a detection limit of 0.01 mg/kg)	Simulant: 3% acetic acid. Test conditions: 40°C for 24 hours,

of 0.002 mg/kg)

Additional requirements for Silicone		
Restricted substance	Limit	Test method
Volatile Compounds Content	< 0.5 %	EN 14350

Glass

Restricted substance	Limit	Test method
Lead (Pb)	10 μg/l of the simulant	EN ISO 17294-2
Cadmium (Cd)	3 μg/l of the simulant	Simulant: 4% acetic acid. Test conditions: 22°C for 24 hours

<u>US</u>

Children's products				
Restricted Materials/	Limit	Test Method		
Substances				
Total cadmium (Cd)	≤ 40 mg/kg	CPSC-CH-E1001-08.3 (Mod)/CPSC-CH-E1002- 08.3 (Mod)		
Total cadmium (Cd) in surface coating	≤ 40 mg/kg	CPSC-CH-E1003-09.1 (Mod)		
Ban of lead-containing paint and simila	ar surface coatings	16 CFR Part 1303		
Total lead (Pb)	≤ 90 mg/kg			
Children's products containing lead		CPSIA – 15 U.S.C. § 1278a		
Total lead (Pb)	≤ 90 mg/kg			
Prohibition of children's toys and child care articles containing specified phthalates		16 CFR Part 1307.3		
di-(2-ethylhexyl) phthalate (DEHP)	≤ 0.1%, each			
dibutyl phthalate (DBP)				
benzyl butyl phthalate (BBP)				
diisononyl phthalate (DINP)				
diisobutyl phthalate (DIBP)				
di-n-pentyl phthalate (DPENP)				
di-n-hexyl phthalate (DHEXP)				
dicyclohexyl phthalate (DCHP)				

<u>Canada</u>

Infant Feeding Bottle Nipples		SOR/2016-180
Limit of volatile N-nitrosamines	≤ 0.01 mg/kg	by dichloromethane extraction
Surface Coating Materials		SOR 2016-193, SOR 2011-17, SOR 2022-122
Total lead (Pb)	≤ 90 mg/kg	
Total mercury (Hg)	≤ 10 mg/kg	
any compound of	≤ 1000 mg/kg	ASTM F963/ EN 71-3/ ISO 8124-3
Antimony (Sb)		
Arsenic (As)		
Cadmium (Cd)		
Selenium (Se)		
Barium (Ba)		
Consumer Products Containing Lead		SOR/2018-83
Total lead (Pb)	≤ 90 mg/kg, each accessible part	

Appendix: Restricted substances with CAS no

Not exhaustive list

Restricted substance name	CAS No
Aluminium (Al)	7429-90-5
4-aminobiphenyl	92-67-1
Aniline hydrochloride	142-04-1
Antimony (Sb)	7440-36-0
Arsenic (As)	7440-38-2
Barium (Ba)	7440-39-3
Beryllium (Be)	7440-41-7
Biphenyl	92-52-4
Benzidine	92-87-5
β-naphthylamine	91-59-8
Boron (B)	7440-42-8
1,3-Butadiene	106-99-0
Cadmium (Cd)	7440-43-9
Caprolactam	105-60-2
Cerium	7440-45-1
3-Chloro-1,2-propanediol (3-MPCD)	96-24-2
Chromium (Cr)	7440-47-3
Chromium III (Cr ³⁺)	16065-83-1
Chromium VI (Cr ⁶⁺)	18540-29-9
Cobalt (Co)	7440-48-4
Copper (Cu)	7440-50-8
1,3-Dichloro-2-propanol (1,3- DCP)	96-23-1
Diisobutyl phthalate (DIBP)	84-69-5
Diisopropylnaphthalene (DIPN)	38640-62-9
Dimethylformamide (DMF)	68-12-2
Epichlorohydrin	106-89-8
Ethylenediamine	107-15-3
Fluorine	7782-41-4
Formaldehyde	50-00-0
Gallium	7440-55-3
Germanium (Ge)	7440-56-4
Glyoxal	107-22-2
Hafnium (Hf)	7440-58-6
Hexamethylenediamine	124-09-4
Hexamethylenetetramine	100-97-0
1-Hexene	592-41-6
Hydroquinone	123-31-9
Imazalil	35554-44-0
Iron (Fe)	7439-89-6
Isophthalic acid	121-91-5
Laurolactam	947-04-6
Lead (Pb)	7439-92-1
Lithium (Li)	7439-93-2
Manganese (Mn)	7439-96-5

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4,4-methylenedianiline	101-77-9
Methyl methacrylate	80-62-6
Melamine	108-78-1
	7439-97-6
Mercury (Hg)	
Molybdenum (Mo)	7439-98-7
N-ethylphenyl amine	103-69-5
Nickel (Ni)	7440-02-0
1-Octene	111-66-0
o-phenylphenol	90-43-7
Pentachlorophenol (PCP)	87-86-5
Perfluo-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6
7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8
2H,2H-perfluorodecane Acid (H2PFDA)	-
2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnA)	34598-33-9
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2
1H,1H,2H,2H-Perfluoro-1-oktanol (6:2 FTOH)	647-42-7
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1
2-(N-methylperfluoro-FASE 1 octanesulfonamido)-	24448-09-7
ethanol (MeFOSE)	
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2
(EtFOSE)	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2
1H,1H,2H,2H-Perfluorooctanesulphonic acid	27619-97-2
(H4PFOS 6-2)	
All other Perfluorinated or Polyfluorinated	Various
compounds (fully or partially fluorinated	
compounds)	
Peroxide	8007-30-5 / 7722-84-1
Polychlorinated Biphenyls (PCB)	1336-36-3
Potassium permanganate	7722-64-7
Rubidium (Rb)	7440-17-7
Selenium (Se)	7782-49-2
Silver (Ag)	7440-22-4
Strontium (Sr)	7440-24-6
Styrene	100-42-5
Sulfur dioxide	
	7446-09-5
Terephthalic acid	100-21-0
Tin (Sn)	7440-31-5
Titanium (Ti)	7440-32-6
Thallium (TI)	7440-28-0
Thiabendazole	148-79-8
Tris(2-hydroxyethylamine)	102-71-6
	102-71-6 7440-62-2
Tris(2-hydroxyethylamine)	

Azo Dyes and Pigments	CAS No
4-aminodiphenyl	92-67-1
Benzidine	92-87-5
4-Chloro-o-toludine	95-69-2
2-Naphthylamine	91-59-8
o-Aminoazotoluene	97-56-3
2-Amino-4-nitrotoluene	99-55-8
2,4-Diaminoanisole	615-05-4
4,4'-Diaminodiphenylmethane	101-77-9
3,3'-Dichlorobenzidine	91-94-1
3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4
3,3'-Dimethylbenzidine (o-Tolidine)	119-93-7
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0
p-Chloroaniline	106-47-8
p-Cresidine	120-71-8
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4
4,4'-Oxydianiline	101-80-4
4,4'-Thiodianiline	139-65-1
2,4-Toluenediamine	95-80-7
o-Toluidine	95-53-4
2,4,5-Trimethylaniline	137-17-7
o-Anisidine	90-04-0
p-Aminoazobenzene	60-09-3
2,4-Xylidine	95-68-1
2,6-Xyilidine	87-62-7

Bisphenols (not exhaustive)	CAS No
Bisphenol A (BPA)	80-05-7
Bisphenol F (BPF)	620-92-8
Bisphenol S (BPS)	80-09-1
Bisphenol B (BPB)	77-40-7
Bisphenol AF (BPAF)	1478-61-1
2,2-bis(4'-hydroxyphenyl)-4-methylpentane (BisP- MIBK)	6807-17-6

Isocyanates	CAS No
Diphenylmethane diisocyanate (MDI)	101-68-8
Hexamethylene diisocyanate (HMDI)	822-06-0
Isophorone diisocyanate (IPDI)	4098-71-9
Tetramethylxylene diisocyanate (TMXDI)	2778-42-9
2,4-Toluene diisocyanate (2,4 TDI)	584-84-9
2,6-Toluene diisocyanate (2,6 TDI)	91-08-7

H&M Group Chemical Restrictions Food Contact Products Valid for all brands in H&M group

N-Nitroamines	CAS No
N-Nitrosodimethylamine	62-75-9
N-Nitrosodiethylamine	55-18-5
N-Nitrosodipropylamine	621-64-7
N-Nitrosodibutylamine	924-16-3
N-Nitrosopiperidine	100-75-4
N-Nitrosopyrrolidine	930-55-2
N-Nitrosomorpholine	59-89-2
N-Nitroso-N-methylaniline	614-00-6
N-Nitroso-N-ethylaniline	612-64-6

Organotin Compounds	CAS No
Dibutyltin (DBT)	1002-53-5
Dioctyltin (DOT)	-
Tributyltin (TBT)	56573-85-4
Tricyclohexyltin (TCyHT)	6056-50-4
Trioctyltin (TOT)	250252-89-2
Triphenyltin (TPhT)	668-34-8
Tripropyltin (TPT)	-
Other tri-substituted organotins	Various

Phenolic Substances	CAS No
Phenolic Substances	Various

PFCs/ PFAS	CAS No
Perfluorobutane Sulfonate (PFBS)	29420-49-3
Perfluorohexane Sulfonate (PFHxS)	3871-99-6
Perfluoroheptane Sulfonate (PFHpS)	375-92-8
Perfluorooctane Sulfonate (PFOS)	56773-42-3
Perfluorodecane Sulfonate (PFDS)	126105-34-8
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
1H,1H,2H,2H H4PFOS 6:2	
Perfluorobutane Acid (PFBA)	375-22-4
Perfluoropentane Acid (PFPA)	2706-90-3
Perfluorohexane Acid (PFHxA)	307-24-4
Perfluoroheptane Acid (PFHpA)	375-85-9
Perfluorooctanoic Acid (PFOA)	335-67-1
Perfluorononane Acid (PFNA)	375-95-1
Perfluorodecane Acid (PFDA)	335-76-2
Perfluoroundecanoic Acid (PFUnA)	4234-23-5
Perfluorododecanoic Acid (PFDoA)	307-55-1
Perfluorotridecanoic Acid (PFTrA)	72629-94-8
Perfluorotetradecanoic Acid (PFTeA)	376-06-7
Perfluo-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6
7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8
2H,2H-perfluorodecane Acid (H2PFDA)	-
2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnA)	34598-33-9
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2
1H,1H,2H,2H-Perfluoro-1-oktanol (6:2 FTOH)	647-42-7
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1
2-(N-methylperfluoro-FASE 1 octanesulfonamido)-	24448-09-7
ethanol (MeFOSE)	
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2
(EtFOSE)	21505 22.9
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2
1H,1H,2H,2H-Perfluorooctanesulphonic acid (H4PFOS 6-2)	27619-97-2
All other Perfluorinated or Polyfluorinated	Various
compounds (fully or partially fluorinated	
compounds)	

Polycyclic Aromatic Hydrocarbons (PAHs)	CAS No
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Anthracene	120-12-7
Benzo[a]anthracene	56-55-3
Benzo[a]pyrene	50-32-8
Benzo[b]fluoranthene	205-99-2
Benzo[e]pyrene	192-97-2
Benzo[g,h,i]perylene	191-24-2
Benzo[j]fluoranthene	205-82-3
Benzo[k]fluoranthene	207-08-9
Chrysene	218-01-9
Dibenz[a,h]anthracene	53-70-3
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno(1,2,3-c,d)pyrene	193-39-5
Naphthalene	91-20-3
Phenanthrene	85-01-8
Pyrene	129-00-0

Phthalates	CAS No
Di-iso-nonylphthalate (DINP)	28553-12-0
Di-n-octylphthalate (DNOP)	117-84-0
Di(2-ethylhexyl)-phthalate (DEHP)	117-81-7
Diisodecylphthalate (DIDP)	26761-40-0
Butylbenzylphthalate (BBP)	85-68-7
Dibutylphthalate (DBP)	84-74-2
Diisobutylphthalate (DIBP)	84-69-5
Di-n-hexylphthalate (DnHP)	84-75-3
Diethylphthalate (DEP)	84-66-2
Dimethylphthalate (DMP)	131-11-3
di-n-pentyl phthalate (DPENP)	131-18-0
dicyclohexyl phthalate (DCHP)	84-61-7
Bis(2-methoxyethyl)	117-82-8
Dinonyl phthalate (DNP)	84-76-4
Di-n-propyl phthalate (DPRP)	131-16-8
Di-cyclohexyl phthalate (DCHP)	84-61-7
Di-iso-octyl phthalate (DIOP)	27554-26-3

Primary Aromatic Amines (PAA)	CAS No
biphenyl-4-ylamine	92-67-1
4-aminobiphenyl xenylamine	
benzidine	92-87-5
4-chloro-o-toluidine	95-69-2
2-naphthylamine	91-59-8
o-aminoazotoluene	97-56-3
4-amino-2',3-dimethylazobenzene	
4-o-tolylazo-o-toluidine	
5-nitro-o-toluidine	99-55-8
4-chloroaniline	106-47-8
4-methoxy-m-phenylenediamine	615-05-4
4,4'-methylenedianiline	101-77-9
4,4'-diaminodiphenylmethane	
3,3'-dichlorobenzidine	91-94-1
3,3'-dichlorobiphenyl-4,4'-ylenediamine	
3,3'-dimethoxybenzidine	119-90-4
o-dianisidine	
3,3'-dimethylbenzidine	119-93-7
4,4'-bi-o-toluidine	
4,4'-methylenedi-o-toluidine	838-88-0
6-methoxy-m-toluidine p-cresidine	120-71-8
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4
2,2'-dichloro-4,4'-methylene-dianiline	
4,4'-oxydianiline	101-80-4
4,4'-thiodianiline	139-65-1
o-toluidine	95-53-4
2-aminotoluene	
4-methyl-m-phenylenediamine	95-80-7
2,4,5-trimethylaniline	137-17-7
o-anisidine	90-04-0
2-methoxyaniline	
4-amino azobenzene	60-09-3
2,6-Dimethylaniline	87-62-7
Aniline	62-53-3
2,4-Dimethylaniline	95-68-1
m-Phenylenediamine	108-45-2
p-Phenylenediamine	106-50-3
2,6-Toluenediamine	823-40-5
1,5-Diaminenaphthalene	2243-62-1

Version history information is available in the separate file History and sources Food contact products.

Product Compliance February 2025