

Food or Mucosa Contact

2021-05-0003

For countries: EU (incl. CH, NO, UK)

Release date: 21.05.2021

Netto

Update recommended on: 31.05.2022

Hazardous Substances	Coatings and Printings	Enamel	Fibres (Natural)	Fibres (Synthetic and blends)	Funct. finishings / Impregnation	Rubber and elastomers	Wood	Ceramic / Glass	Plastics	Melamine Resin	Metal	Paper / Paperboard	Silicone	Packaging	Limit Children	Limit Adult	Unit
	Alkylphenols / Alkylphenoethoxylates (AP / APEO)																
Nonylphenoethoxylates NPEO			X	X											100	100	mg/kg
Antioxidantien																	
2,6-Bis(1,1-dimethylethyl)-4-methylphenol / BHT						X									0,42		mg/L
Butyliertes Reaktionsprodukt von p-Cresol und Dicyclopentadien / Wingstay L					X										0,25		mg/L
Cyanox 425, Antioxidant 2246 - sum					X										0,0625		mg/L
Irganox 1520, Irganox 1726 - sum					X										0,25		mg/L
Aromatic amines																	
Free aromatic amines	X	X	X	X	X			X	X			X			not detectable	not detectable	mg/kg
Azo dyes / Cleavable arylamines																	
Azo dyes / Cleavable arylamines			X	X								X			30	30	mg/kg
Bisphenols																	
Bisphenol A / BPA	X							X			X				not detectable	not detectable	mg/kg
Chlorinated paraffins																	
Short-chain chlorinated paraffins C10 - C13 (SCCP)	X			X	X			X	X						1500	1500	mg/kg
Chlorinated phenols																	
Pentachlorophenol (PCP)	X	X	X	X	X	X									0,5	0,5	mg/kg
Pentachlorophenol (PCP), paper												X			0,15	0,15	mg/kg
Tetrachlorophenols, sum (TeCP)	X	X	X	X	X	X					X				0,5	0,5	mg/kg
Trichlorophenols, sum (TriCP)	X	X	X	X	X	X					X				0,5	0,5	mg/kg
Dimethylfumarate																	
Dimethylfumarate			X	X	X	X					X				0,1	0,1	mg/kg
Colour Fastness / Bleeding																	
Colour Fastness / Bleeding	X	X	X	X	X			X	X		X	X			5	5	Grade
Dyestuffs																	
Dyestuffs	X	X	X												no use		mg/L
Flame retardants																	
Hexabromobiphenyl			X	X	X	X		X	X						not detectable	not detectable	mg/kg
Hexabromocyclododecane incl. α, β, γ (HBCDD)			X	X	X	X		X	X						0,01	0,01	%
Octabromodiphenyl ether			X	X	X	X		X	X						0,1	0,1	%
Tetra-, Penta-, Hexa-, Hepta-, Decabromodiphenyl ether - Sum			X	X	X	X		X	X						500	500	mg/kg
TRIS, TEPA, PBB			X	X	X										no use	no use	mg/kg
Formaldehyde																	
Formaldehyde in paper											X				1	1	mg/dm ²
Formaldehyde			X	X	X										20	75	mg/kg
Formaldehyde migration						X		X	X						15	15	mg/kg
Formaldehyde migration					X		X				X				0,375		mg/L
Global migration																	
Article per surface	X				X		X	X	X	X	X				10	10	mg/dm ²
Article per weight food	X	X			X		X	X	X	X	X				60	60	mg/kg
Production of food contact materials																	
Substances with spec. migration limit (SML)	X				X		X	X	X		X				see Annex	see Annex	mg/kg
Soluble proteins in natural rubber																	
Soluble proteins					X										not detectable	not detectable	ppm
Metals, extractable in hydrochloric acid																	
Baby drinking equipment	X	X			X		X	X	X		X				EN 14350		mg/kg
Baby crockery and cutlery	X	X			X		X	X	X		X				EN 14372		mg/kg
Soother	X	X			X		X	X	X		X				EN 1400		mg/kg

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Metals, total content															
Arsenic									X				300	300	mg/kg
Lead	X	X			X	X	X	X	X	X	X	X	100	100	mg/kg
Cadmium	X	X			X	X	X	X	X	X	X	X	75	75	mg/kg
Mercury	X	X			X	X		X	X	X		X	10	10	mg/kg
Residues Lead, Cadmium, Antimony, Mercury, Arsenic					X								1	1	mg/kg
Metal release / prolonged skin contact															
Nickel									X				0,5	0,5	µg/cm²/week
Metal release, ceramic/glass															
Aluminum	X					X							1	1	mg/kg
Antimony - fillable articles <1L	X					X							1	1	mg/article
Antimony - fillable articles >1L	X					X							1	1	mg/L
Antimony	X					X							0,04	0,04	mg/kg
Arsenic	X					X							not detectable	not detectable	mg/kg
Barium - flatware up to 25 mm	X					X							0,2	0,2	mg/dm²
Barium - fillable articles	X					X							1	1	mg/L
Barium - fillable articles <1L	X					X							1	1	mg/article
Barium - drinking seam	X					X							0,2	0,2	mg/dm²
Barium	X					X							1	1	mg/kg
Lead - flatware up to 25 mm	X					X							0,02	0,02	mg/dm²
Lead - fillable articles	X					X							0,1	0,1	mg/L
Lead - drinking seam	X					X							2,0	2,0	mg/article
Lead - drinking seam	X					X							0,02	0,02	mg/dm²
Lead	X					X							10		µg/L
Lead	X					X							0,1	0,1	mg/kg
Boron	X					X							1	1	mg/kg
Cadmium - flatware up to 25 mm	X					X							0,002	0,002	mg/dm²
Cadmium - fillable articles	X					X							0,01	0,01	mg/L
Cadmium - drinking seam	X					X							0,2	0,2	mg/article
Cadmium - drinking seam	X					X							0,002	0,002	mg/dm²
Cadmium	X					X							3		µg/L
Cadmium	X					X							0,01	0,01	mg/kg
Cer	X					X							1	1	mg/kg
Chromium	X					X							0,1	0,1	mg/kg
Cobalt	X					X							0,02	0,02	mg/kg
Cobalt - fillable articles	X					X							0,01	0,01	mg/L
Cobalt - non-fillable articles	X					X							0,1	0,1	mg/dm²
Cobalt - drinking seam	X					X							0,05	0,05	mg/article
Fluor	X					X							1	1	mg/kg
Lithium	X					X							0,6	0,6	mg/kg
Manganese	X					X							0,6	0,6	mg/kg
Nickel	X					X							1	1	mg/kg
Mercury	X					X							0,005	0,005	mg/kg
Rubidium	X					X							1	1	mg/kg
Selenium	X					X							0,01	0,01	mg/kg
Strontium	X					X							1	1	mg/kg
Zinc - fillable articles <1L	X					X							3	3	mg/article
Zinc - fillable articles >1L	X					X							3	3	mg/L
Zirconium	X					X							2	2	mg/kg
Metal migration, enamel															
Aluminum	X	X											1	1	mg/kg
Antimony	X	X											0,04	0,04	mg/kg

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	Enamel																
Arsenic	X	X													not detectable	not detectable	mg/kg
Barium	X	X													1	1	mg/kg
Lead - flatware up to 25 mm	X	X													0,8	0,8	mg/dm²
Lead - fillable articles	X	X													1,5	1,5	mg/L
Lead - drinking seam	X	X													2	2	mg/article
Lead - drinking seam	X	X													0,8	0,8	mg/dm²
Lead	X	X													0,01	0,01	mg/kg
Boron	X	X													1	1	mg/kg
Cadmium - flatware up to 25 mm	X	X													0,07	0,07	mg/dm²
Cadmium - fillable articles	X	X													0,1	0,1	mg/L
Cadmium - drinking seam	X	X													0,2	0,2	mg/article
Cadmium - drinking seam	X	X													0,07	0,07	mg/dm²
Cadmium	X	X													0,005	0,005	mg/kg
Chromium	X	X													0,1	0,1	mg/kg
Chromium VI - flatware up to 25 mm	X	X													0,005	0,005	mg/dm²
Chromium VI - fillable articles	X	X													0,03	0,03	mg/L
Chromium VI - drinking seam	X	X													0,015	0,015	mg/article
Cobalt	X	X													0,02	0,02	mg/kg
Copper	X	X													4	4	mg/kg
Lithium	X	X													0,48	0,48	mg/kg
Manganese	X	X													1,8	1,8	mg/kg
Molybdenum	X	X													0,12	0,12	mg/kg
Nickel	X	X													0,14	0,14	mg/kg
Mercury	X	X													0,005	0,005	mg/kg
Rubidium	X	X													1	1	mg/kg
Selenium	X	X													0,01	0,01	mg/kg
Silver	X	X													0,08	0,08	mg/kg
Strontium	X	X													1	1	mg/kg
Vanadium	X	X													0,01	0,01	mg/kg
Zinc	X	X													5	5	mg/kg
Metal migration, plastics, rubber, printings																	
Aluminum	X					X		X	X			X			1	1	mg/kg
Antimony	X					X		X	X			X			0,04	0,04	mg/kg
Arsenic	X					X		X	X			X			not detectable	not detectable	mg/kg
Barium	X					X		X	X			X			1	1	mg/kg
Lead	X					X		X	X			X			not detectable	not detectable	mg/kg
Cadmium	X					X		X	X			X			0,002	0,002	mg/kg
Chromium	X					X		X	X			X			0,01	0,01	mg/kg
Cobalt	X					X		X	X			X			0,05	0,05	mg/kg
Iron	X					X		X	X			X			48	48	mg/kg
Copper	X					X		X	X			X			4	4	mg/kg
Lanthanides, sum	X					X		X	X			X			0,05	0,05	mg/kg
Lithium	X					X		X	X			X			0,6	0,6	mg/kg
Manganese	X					X		X	X			X			0,6	0,6	mg/kg
Nickel	X					X		X	X			X			0,02	0,02	mg/kg
Mercury	X					X		X	X			X			not detectable	not detectable	mg/kg
Zinc	X					X		X	X			X			5	5	mg/kg
Metal migration, metallic articles																	
Aluminum											X				5	5	mg/kg
Aluminium										X					10	10	mg/L
Antimony										X					0,04	0,04	mg/kg
Arsenic										X					0,002	0,002	mg/kg

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Barium											X				1,2	1,2	mg/kg
Beryllium											X				0,01	0,01	mg/kg
Lead											X				10		µg/L
Lead											X				0,01	0,01	mg/kg
Cadmium											X				3		µg/L
Cadmium											X				0,005	0,005	mg/kg
Chromium											X				0,25	0,25	mg/kg
Cobalt											X				0,02	0,02	mg/kg
Iron											X				40	40	mg/kg
Copper											X				4,0	4,0	mg/kg
Lithium											X				0,048	0,048	mg/kg
Manganese											X				1,8	1,8	mg/kg
Molybdenum											X				0,12	0,12	mg/kg
Nickel											X				0,14	0,14	mg/kg
Mercury											X				0,003	0,003	mg/kg
Silver											X				0,08	0,08	mg/kg
Thallium											X				0,0001	0,0001	mg/kg
Vanadium											X				0,01	0,01	mg/kg
Zinc											X				5,0	5,0	mg/kg
Tin											X				100	100	mg/kg
Nitrosamines																	
N-Nitrosamines						X									0,01	0,01	mg/kg
N-Nitrosamines						X									1	1	µg/dm ²
N-Nitrosatable substances						X									0,1	0,1	mg/kg
N-Nitrosatable substances						X									10	10	µg/dm ²
Organotin compounds																	
Dibutyltin DBT	X	X	X	X	X	X	X	X	X	X	X	X	X		1	1	mg/kg
Diocetyl tin DOT	X	X	X	X	X	X	X	X	X	X	X	X	X		1	1	mg/kg
Monobutyltin MBT	X	X	X	X	X	X	X	X	X	X	X	X	X		1	1	mg/kg
Organotin, migration													X		0,1	0,1	mg/kg
Tributyltin TBT	X	X	X	X	X	X	X	X	X	X	X	X	X		0,5	0,5	mg/kg
Triphenyltin TPhT	X	X	X	X	X	X	X	X	X	X	X	X	X		0,5	0,5	mg/kg
Trisubstituted organotin compounds, sum	X	X	X	X	X	X	X	X	X	X	X	X	X		1000	1000	mg/kg
Perfluorinated compounds (PFC)																	
Perfluorooctanoic acid PFOA (C8)	X	X	X	X								X			0,025	0,025	mg/kg
PFOA related substances, sum	X	X	X	X								X			1	1	mg/kg
PFOS (C8), its salts and derivatives, each	X	X	X	X								X			<1	<1	µg/m ²
Pesticides																	
Pesticides			X	X		X						X			not detectable	not detectable	mg/kg
Phenylmercury compounds																	
Phenylmercury compounds	X				X			X							0,01	0,01	%
Phthalates - Plasticizers																	
Phthalates, each	X			X	X			X	X						0,05		%
Phthalates, sum	X			X	X			X	X						0,1	0,1	%

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Polycyclic Aromatic Hydrocarbons PAH																	
Benzo(a)anthracene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,2	mg/kg
Benzo(a)pyrene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,2	mg/kg
Benzo(b)fluoranthene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,2	mg/kg
Benzo(e)pyrene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,2	mg/kg
Benzo(g,h,i)-perylene	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,2	mg/kg
Benzo(j)fluoranthene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,2	mg/kg
Benzo(k)fluoranthene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,2	mg/kg
Chrysene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,2	mg/kg
Dibenzo(a,h)anthracene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,2	mg/kg
Indeno(1,2,3-cd)pyrene	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,2	mg/kg
Naphthalene	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<1	<1	mg/kg
Sum 15 PAK	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<10	<10	mg/kg
Sum 4 PAK	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<10	<10	mg/kg
Primary and secondary aromatic amines, migration																	
Carcinogenic primary aromatic amines, each	X				X			X	X	X	X	X	X	X	0,002	0,002	mg/kg
Primary aromatic amines, sum	X				X			X	X	X	X	X	X	X	0,01	0,01	mg/kg
Primary and secondary aromatic amines, sum					X										1	1	mg/kg
Residual chemicals in silicone and rubber																	
Extractable Fraction													X		0,5	0,5	%
Volatile substances (VOC)					X								X		0,5	0,5	%
Peroxides					X								X		not detectable	not detectable	%
Sensory properties																	
Odour	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2,5	2,5	Grade
Taste	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2,5	2,5	Grade
Fastness to saliva and perspiration																	
Fastness to saliva and perspiration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5	5	Grade
Triclosan																	
Triclosan	X			X				X	X						no use	no use	mg/kg
Packaging, additional requirements																	
Cobalt dichloride in desiccation bags													X		no use	no use	%
Dimethylfumarat in desiccation bags													X		0,1	0,1	mg/kg
Sum Lead, Cadmium, Chromium VI, Mercury													X		100	100	mg/kg
Vinylchloride monomer																	
Vinylchloride	X				X			X							0,01	0,01	mg/kg
Vulcanization accelerator																	
Formaldehyde					X										3	3	mg/kg
Tetramethylenetetramine and Formaldehyde, sum					X										15	15	mg/kg
Mercaptobenzothiazole					X										8		mg/kg

EU REACH - SVHC Substances

EU, NO:
 In case of contents > 0,1% per article weight (in consideration of subassemblies) substances of very high concern (SVHC) from the REACH Candidate List, the supplier is legally obligated to transmit this information (Regulation (EC) 1907/2006 Art. 33 and Annex XIV; Judgment of the Court (Third Chamber), 10 September 2015, C-106/14). SVHC-Substances, see <https://echa.europa.eu/en/candidate-list-table>

CH:
 Analogous to EU, NO. Legal base is the chemical regulation ChemV Art. 71 and annex 3.

GB:
 Analogous to EU, NO. Legal base is The REACH Enforcement Regulations 2008 (and amendments), schedule 1.

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EU Biocidal Products/Treated Articles

EU, NO:
 Products with biocidal finishing (treated articles) have to meet the Biocidal Regulation (EU) 528/2012 regarding admission and labeling.
<https://www.echa.europa.eu/regulations/biocidal-products-regulation/understanding-bpr>

CH:
 Analogous to EU, NO. Legal base is the biocidal products regulation VBP.

GB:
 Analogous to EU, NO. Legal base is The Biocidal Products Regulations 2001

EU SCIP Data Base

According to EU Waste Framework Directive 2008/98/EC the supplier of an article is obligated to provide the information about SVHC substances, that exceed a content of 0,1% in one of his articles, pursuant to Article 33 (1) of REACH Regulation 1907/2006 to the European Chemicals Agency (ECHA) as from 5 January 2021 (SCIP data base).

EU Further requirements for children

General Safety Requirements/ Mechanical Safety:

Pull-off force of buttons and small parts	EN 71-1
Soothers for babies and young children	EN 1400
Drinking equipment	EN 14350
Cutlery and feeding utensils	EN 14372

EU Specific Requirements for Food Contact Materials

EU, NO, GB:
 General requirements for articles with food contact Regulation 1935/2004
 Plastic materials and articles with food contact Regulation 10/2011
 Active and intelligent materials and articles Regulation 450/2009
 Ceramic articles with food contact Directive 84/500/EEG
 Single-use plastic products Directive 2019/904, Regulation 2020/2151 (from 03.07.2021)

In some regulations positive lists of allowed substances are given. Some of them are limited by specific migration limits (SML) or total contents. Further national requirements or recommendations must be considered if applicable as only the key points are listed in this document.

CH:
 Requirements for all kind of articles with food contact Commodities regulation 817.023.21

GB:
 Currently no deviant requirements and regulations to EU defined.

EU Quality of steel and other metal alloys

Metal Composition / Steel Key:

EU: EN 10020 - Definition and classification of grades of steel
 FR-Requirement: DGCCRF - French Arrêté du 13 Janvier 1976; DGCCRF 2004-64; Different specifications for stainless steel, carbon steel, tin alloy, aluminium and cast iron;
 IT: Decreto ministeriale del 21 marzo 1973: only specific stainless steel is allowed, which is indicated by a special steel key or which is defined by the composition.

EU Marking

Name and complete contact address of EU distributor	Regulation 1935/2004
Marking for identification (e.g. article number)	Regulation 1935/2004
Declaration of conformity	Regulation 10/2011, Regulation 450/2009, Directive 84/500/EEC, Regulation 2018/213

Depending on the product category further labelling according to special or national requirements must be considered if applicable.

GB: A separate contact address of the GB importer must be provided.

EU Conformity

Each article including the packaging has to comply to all mentioned requirements. The supplier assures that the delivered article meets all requirements under REACH Regulation 1907/2006 and Product Safety Directive 2001/95/EC.
 By declaration of conformity acc. to ISO/IEC 17050 the supplier commits himself to deliver merchandise in conformity with the respective test sample.

Definition of product group

This requirements profile refers to articles with food and/or mucosa contact. Electrical appliances (e.g. toaster, kettle etc.) or toys must fulfill further product-specific requirements.

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Alkylphenols / Alkylphenoethoxylates (AP / APEO)

Test Method: EN ISO 18218-1 (mod.), EN ISO 18254-1 (mod.)

EU: Regulation (EC) No 1907/2006; Limit for mixtures: Nonylphenol and Nonylphenoethoxylates: 0,1%; Limit for textile articles: Nonylphenoethoxylates 0,01%

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Nonylphenoethoxylates NPEO					

Antioxidantien

Test Methode: EN 1400; EN 14350

EU: Directive 2001/95/EC; Requirements for baby and infant articles EN 1400 (soother) and EN 14350 (articles for drinking equipment)

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
2,2'-Methylen-bis(4-ethyl)-6-tert-butylphenol / Cyanox 425	000088-24-4	2,4-Bis(dodecylthiomethyl)-6-methylphenol / Irganox 1726	110675-26-8	2,6-Bis(1,1-dimethylethyl)-4-methylphenol / BHT	128-37-0
2,2'-Methylen-bis(6-(1,1-dimethylethyl)-4-methylphenol) / Antioxidant 2246	119-47-1	2,4-Bis(octylthiomethyl)-6-methylphenol / Irganox 1520	110553-27-0	Butyliertes Reaktionsprodukt von p-Cresol und Dicyclopentadien / Wingstay L	68610-51-5

Aromatic amines

Test Method: Inhouse-method: Extraction with dichloromethane or tetrahydrofurane, GC/MS and LC/MS (alternatively: EN ISO 14362 without cleavage)

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
2,4,5-Trimethylaniline	137-17-7	3,3'-Dimethylbenzidine	119-93-7	Aniline	62-53-3
2,4-Diaminoanisole	615-05-4	4,4'-Diaminodiphenylmethane	101-77-9	Benzidine	92-87-5
2,4-Tolylendiamine	95-80-7	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	o-Aminoazotoluene	97-56-3
2-Amino-4-nitrotoluene	99-55-8	4,4'-Oxydianilin	101-80-4	o-Anisidine	90-04-0
2-Naphthylamine	91-59-8	4,4'-Thiodianiline	139-65-1	o-Toluidine	95-53-4
3,3'-Dichlorobenzidine	91-94-1	4-Aminoazobenzene	60-09-3	p-Chloroaniline	106-47-8
3,3'-Dimethoxybenzidine	119-90-4	4-Aminobiphenyle	92-67-1	p-Cresidine	120-71-8
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	4-Chloro-o-toluidine	95-69-2	p-Phenylenediamine	106-50-3

Azo dyes / Cleavable arylamines

Test Method: Leather: EN ISO 17234-1; Textiles: EN ISO 14362-1; 4-Aminoazobenzene: Leather: EN ISO 17234-2 and Textiles: EN ISO 14362-3; Navy Blue: DIN 54231

DE: Recommendation of BfR No. XXXVI for paper, cardboards and paperboards with food contact; the use of azo dyes is banned; the use is considered as positive at a limit of > 30 mg/kg

EU: Regulation (EC) 1907/2006; Limit valid for textiles and leather with skin contact: 30 mg/kg;

EU: Regulation 1907/2006; Limit: 30 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
2,4,5-Trimethylaniline	137-17-7	3,3'-Dimethylbenzidine	119-93-7	4-Chloro-o-toluidine	95-69-2
2,4-Diaminoanisole	615-05-4	4,4'-Diaminodiphenylmethane	101-77-9	Benzidine	92-87-5
2,4-Tolylendiamine	95-80-7	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	o-Aminoazotoluene	97-56-3
2-Amino-4-nitrotoluene	99-55-8	4,4'-Oxydianilin	101-80-4	o-Anisidine	90-04-0
2-Naphthylamine	91-59-8	4,4'-Thiodianiline	139-65-1	o-Toluidine	95-53-4
3,3'-Dichlorobenzidine	91-94-1	4-Aminoazobenzene	60-09-3	p-Chloroaniline	106-47-8
3,3'-Dimethoxybenzidine	119-90-4	4-Aminobiphenyle	92-67-1	p-Cresidine	120-71-8
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0				

Bisphenols

Test Method: ASTM D 7574 (mod.)

AT: Prohibition of the use of Bisphenol A in pacifiers and teethers, BGBl II No. 327/2011

BE: Document No. 5-338/8; Bisphenol A is prohibited for materials with food contact for children < 3 years

DK: Recommendation of Danish Veterinary and Food Administration; Bisphenol A is prohibited in articles with food contact for children < 3 years

EU: Directive 2001/95/EC; Requirements for baby and infant articles EN 1400 (soother), EN 14372 (cutlery and feeding utensils); Strictest limit: 0,01 mg/L Bisphenol A

EU: Regulation (EC) No 10/2011; the use of Bisphenol A is totally forbidden for infant bottles made, drinking cups and bottles of polycarbonate for infants and young children.

EU: Regulation (EU) No. 2018/213; Specific migration limit from varnishes or coatings: 0,05 mg/kg; Specific migration limit from varnishes or coatings intended for contact with food for infants or young children: not detectable

FR: Act 2010-729, Bisphenol A is prohibited in baby bottles; Act 2012-1442, Bisphenol A is prohibited for soother, teether, articles for children < 3 years and food contact articles

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Bisphenol A / BPA	80-05-7				

Food or Mucosa Contact

2021-05-0003

For countries: EU (incl. CH, NO, UK)

Release date: 21.05.2021

Netto

Update recommended on: 31.05.2022

Chlorinated paraffins

Test Method: EN ISO 18219 (mod.)

EU: Regulation 2019/1021; Limit SCCPs: 0,15 %

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Short-chain chlorinated paraffins C10 - C13 (SCCP)	85535-84-8				

Chlorinated phenols

Test Method: EPA 3545A or KOH-extraction, EN ISO 17070 (mod.)

AT: Chem-VerbotsV 2003; Limit for PCP in finished goods: 5 mg/kg

CH: ChemRRV 814.81; Limit: no use of PCP and TeCP in textile or leather articles; 5 mg/kg for timber products

DE: ChemVerbotsV; Limit for PCP incl. salts and esters in articles: 5 mg/kg

DK: BEK nr 854 af 5 September 2009, Bekendtgørelse om forbud mod import, salg og eksport af varer, der indeholder pentachlorphenol: Limit for PCP incl. salts and esters in Verbraucherprodukten: 5 mg/kg

EU: Regulation 2019/1021; Limit Pentachlorphenol: 5 mg/kg

EU: Resolution ResAP (2002) 1 (paper and board); Limit Pentachlorphenol: 0,15 mg/kg

NL: Besluit van 23 september 1997, houdende vaststelling van het Warenwetbesluit Pentachloorfenol; Limit for PCP incl. salts and esters in articles: 5 mg/kg

NO: Regulation No. 922 of 1 June 2004, Forskrift om begrensning i bruk av helse- og miljøfarlige kjemikalier og andre produkter (produktforskriften); Limit PCP incl. salts and esters in textiles and leather: 5 mg/kg

SK: Decree 635/2005; Limits: PCP in textiles: 0,5 mg/kg; PCP in leather: adult 5 mg/kg, baby 0,5 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
2,3,4,5-Tetrachlorophenol	4901-51-3	2,3,5-Trichlorophenol	933-78-8	2,4,6-Trichlorophenol	88-06-2
2,3,4,6-Tetrachlorophenol	58-90-2	2,3,6-Trichlorophenol	933-75-5	3,4,5-Trichlorophenol	609-19-8
2,3,4-Trichlorophenol	15950-66-0	2,4,5-Trichlorophenol	95-95-4	Pentachlorophenol (PCP)	87-86-5
2,3,5,6-Tetrachlorophenol	935-95-5				

Dimethylfumarate

Test Method: CEN ISO/TS 16186 (mod.)

EU: Regulation (EC) 1907/2006; Limit: 0,1 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Dimethylfumarate	624-49-7				

Colour Fastness / Bleeding

Test Method: EN 646 (paper); BfR Recommendation B II IX Issue 07/1972 (Plastic, Rubber, Silicone); EN 14350 (childrens drinking equipment)

DE: §31 LFGB; no deterioration in the organoleptic characteristics of food

EU: Regulation (EC) 1935/2004; Articles with food contact shall not cause a deterioration in the organoleptic characteristics of food; EN 14350, no release of dyestuffs

FR: Direction Générale de la Concurrence, de la Consommation et de la Répression des Fraudes DGCCRF 2004-64

IT: Ministerial Decree of 21 March 1973; Decree of the Ministry of Health no 220 26.04.1993, no 338 22.07.1998 and no 174 24.09.2008

Dyestuffs

Test Method: DIN 54231

CZ: Act No 84/2001; Limit for toys and baby products: no use of Acid Red 26, Basic Red 9, Disperse Blue 1, Solvent Yellow 1, Solvent Yellow 2, Solvent Yellow 3

EU: Regulation 1907/2006; Limits: Disperse Blue 1, Basic Red 9, Basic Violet 3: 50 mg/kg (3,3 mg/L)

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Acid Red 26	3761-53-3	Disperse Blue 1	2475-45-8	Solvent Yellow 2	60-11-7
Basic Red 9	569-61-9	Solvent Yellow 1	60-09-3	Solvent Yellow 3	97-56-3

Food or Mucosa Contact

2021-05-0003

For countries: EU (incl. CH, NO, UK)

Release date: 21.05.2021

Netto

Update recommended on: 31.05.2022

Flame retardants

Test Method: EN ISO 17881-1; EN ISO 17881-2; EN 62321-6 (mod.)

EU: Regulation (EC) 1907/2006; Limits: TRIS, TEPA, PBB in textiles: no use; Octabromodiphenyl ether in articles: 0,1%

EU: Regulation 2019/1021; Limits: Sum Tetra-, Penta-, Hexa-, Hepta-, Decabromo diphenylether: 500 mg/kg; Hexabromocyclododecane (incl. α , β , γ): 0,01%; SCCP: 0,15%; Hexabromobiphenyl containing items are prohibited

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Decabromodiphenyl ether	1163-19-5	Hexabromodiphenyl ether	36483-60-0 et al.	Tetrabromodiphenyl ether	40088-47-9 et al.
Heptabromodiphenyl ether	68928-80-3 et al.	Octabromodiphenyl ether	32536-52-0 et al.	Tri-(2,3-dibromopropyl)-phosphate (TRIS)	126-72-7
Hexabromobiphenyl	36355-01-8 et al.	Pentabromodiphenyl ether	32534-81-9 et al.	Tris-(azoridinyl)-phosphinoxid (TEPA)	545-55-1
Hexabromocyclododecane incl. α , β , γ (HBCDD)	25637-99-4	Polybrominated Biphenyls (PBB)	59536-65-1		

Formaldehyde

Test Method: EN 13130-1 and CEN/TS 13130-23 (plastic); EN 645 and EN 1541 (paper); EN ISO 14184 (textiles); EN 14372; EN 1400; EN 14350

AT: Formaldehydverordnung; Mandatory labelling of textiles with skin contact at > 1500 mg/kg

CZ: Act No 84/2001; Limit for toys and children's products with intended mouth contact, food contact or for children <3 years: 30 mg/kg

DE: Recommendation of BfR No. XXXVI for paper, cardboards and paperboards with food contact; Limit: 1 mg/dm²

EU: Directive 2001/95/EC; Requirements for baby and infant articles EN 1400 (soother): Limit 0,375 mg/L; EN 14372 (cutlery and feeding utensils): Limit 15 mg/kg

EU: Regulation (EU) No. 284/2011, valid for melamin kitchenware from China only; Baby cutlery and feeding utensils made of plastic/wood acc. to EN 14372; Migration limit: 15 mg/kg

FI: Decree 233/2012; Limit in textile articles for children < 2 years (e.g. bedding, napkins, garments, toys): 30 mg/kg; Limit in textiles for children > 2 Jahren and adults with skin contact: 100 mg/kg; Limit for textiles without direct skin contact: 300 mg/kg

NL: Decree formaldehyde in textiles (Warenwetbesluit formaldehyde in textiel), Decision of 22. March 2001; Limit for articles with skin contact: 120 mg/kg

NO: Forskrift om begrenning i bruk av helse- og miljøfarlige kjemikalier og andre produkter (produktforskriften); Limits: textiles with skin contact: 100 mg/kg, textiles for children < 3 years: 30 mg/kg

SK: Decree 635/2005; Limits adults: leather: 150 mg/kg, textile: 75 mg/kg; Limits children <3 years: leather: 50 mg/kg, textile: 20 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Formaldehyde	50-00-0	Formaldehyde migration	50-00-0		

Global migration

Test Method: EN 1186

CH: Regulation 817.023.21, EDI; Limit for plastics and silicone: 10 mg/dm² and 60 mg/kg food simulant respectively

DE: BedGgstV; BfR Recommendation XXI for commodities made of synthetic and natural rubber; Limits: depends on the product category and test conditions

EU: Regulation (EC) No. 10/2011; Resolution ResAP (2004) 5 (Silicone); Limit: 10 mg/dm² food contact surface, articles for babies and children <3 years: 60 mg/kg food simulant

FR: Decree of 25 November 1992 relating to materials made of silicone elastomers placed or intended to be in contact with foodstuffs, food products and beverages; Limit in general: 10 mg/dm²; Limit for special articles: 60 mg/kg (Container with volume between 500 mL - 10L, fillable articles where the contact surface cannot be determined, capsules, seals, stopper and other caps)

FR: Order of 5 August 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and for pacifiers for infants and young children; Limits: 10 mg/dm² for pacifiers, seal and valves with unknown volume/surface ratio, sealed container incl. their seals, all further articles; 60 mg/kg for articles for infants and young children with food contact, bottle teats, seals and valves with unknown volume/surface ratio

NL: Warenwetregeling verpakkingen en gebruiksartikelen; Limit: 60 mg/kg

Production of food contact materials

Test Method: EN 13130

EU: Regulation (EC) No 10/2011 Anhang I - positiv list with allowed restricted monomers in plastic articles

Soluble proteins in natural rubber

Test Method: "Determination of extractable protein from consumer products made of natural rubber" Bundesgesundheitsblatt, Gesundheitsforschung, Gesundheitsschutz, 43 (2000) 77; "Immunological Measurement of Four Principal Allergenic Proteins in Natural Rubber and Its Products Derived from Latex" ASTM D7427-08

DE: ProdSG; LFGB §30; BfR Recommendation Nr. XXI "Consumer articles made of natural and synthetic rubber"; Limit: not detectable

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Soluble proteins					

Food or Mucosa Contact

2021-05-0003

For countries: EU (incl. CH, NO, UK)

Release date: 21.05.2021

Netto

Update recommended on: 31.05.2022

Metals, extractable in hydrochloric acid

Test Method: EN 14372; EN 14350; EN 1400; EN 71-3

EU: Directive 2001/95/EC; Requirements for baby and infant articles EN 1400 (soothers), EN 14372 (cutlery and feeding utensils) and EN 14350 (childrens drinking equipment)

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Aluminum	7429-90-5	Chromium III		Nickel	7440-02-0
Antimony	7440-36-0	Chromium VI		Organic tin	
Arsenic	7440-38-2	Cobalt	7440-48-4	Selenium	7782-49-2
Barium	7440-39-3	Copper	7440-50-8	Strontium	7440-24-6
Boron	7440-42-8	Lead	7439-92-1	Tin	7440-31-5
Cadmium	7440-43-9	Manganese	7439-96-5	Zinc	7440-66-6
Chromium	7440-47-3	Mercury	7439-97-6		

Metals, total content

Test Method: EPA 3015A, EN ISO 17294-2, EN 16711-1

CH: Regulation 817.023.21; Limits: 0,05% Lead (0,01% for tin articles); 0,01% Cadmium; 0,03% Arsenic

DK (Cadmium): BEK 858 af 05/09/2009; general ban of cadmium containing products, Limit: 75 mg/kg

DK (Lead): BEK 856 af 05/09/2009; general ban of lead containing products, Limit: 100 mg/kg

DK (Mercury): BEK nr 73 af 25/01/2016; general ban of mercury containing products, Limit: 100 mg/kg

EU (Cadmium): Regulation (EC) 1907/2006; Limits: in varnish and paints (on article): 0,1%; in plastics: 100 mg/kg, in metal/alloys of jewellery/decorative elements: 100 mg/kg

EU (Lead): Regulation (EC) 1907/2006; no use of lead carbonates and sulfates; no use of lead in wood preservatives; Limits: in jewellery: 0,05%; articles or accessible parts thereof, which can be placed in the mouth by children: 0,05% or $\leq 0,05 \mu\text{g}/\text{cm}^2/\text{h}$

FR: Order of 5 August 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and for pacifiers for infants and young children; Limit for residual content of impurities of Lead, Cadmium, Antimony, Mercury and Arsenic: 1 mg/kg

NO (Mercury): Regulation No. 922 of 1st June 2004 (Produktforskriften); Limit 10 mg/kg

SE (Mercury): Förordning SFS 1998:944; Prohibition of products in which mercury was used or intentionally added

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Antimony	7440-36-0	Cadmium	7440-43-9	Mercury	7439-97-6
Arsenic	7440-38-2	Lead	7439-92-1		

Metal release / prolonged skin contact

Test Method: EN 1811; EN 12472; EN 16128

EU: Definition prolonged skin contact: 10 minutes on three or more occasions within two weeks respectively 30 minutes on one or more occasions within two weeks.

EU: Directive 2001/95/EG, Limit acc. to EN 14372 for baby crockery and cutlery: $0,5 \mu\text{g}/\text{cm}^2/\text{week}$

EU: Regulation (EC) 1907/2006; Limit for articles with direct and prolonged skin contact: $0,5 \mu\text{g}/\text{cm}^2/\text{week}$

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Nickel	7440-02-0				

Food or Mucosa Contact

2021-05-0003

For countries: EU (incl. CH, NO, UK)

Release date: 21.05.2021

Netto

Update recommended on: 31.05.2022

Metal release, ceramic/glass

Test Method: § 64 LFGB B 80.03-1/-2/-3/-4; EN 1388; EN 14350

AT: Keramik-Verordnung; Limits additional to EU: Articles <1 L volume: 3 mg/article Zinc, 1 mg/article Antimony, 1 mg/article Barium; Articles >1 L volume: 3 mg/L Zinc, 1 mg/L Antimony, 1 mg/L Barium

DE: BedGgstV; § 31 LFGB; Limits additional to EU: Articles that cannot be filled <25mm: 0,1 mg/dm² Cobalt; Articles which can be filled: 0,01 mg/L Cobalt; Articles with capacity >3L: 0,1 mg/L Cobalt; Drinking rim: 2 mg/article Lead, 0,2 mg/article Cadmium, 0,05 mg/article Cobalt

DK: BEK nr 681 af 25/05/2020; Limits additional to EU: drinking rim: Lead 0,8 mg/dm², Cadmium 0,07 mg/dm²

EU: Directive 84/500/EEC; Limits: Articles that cannot be filled <25mm: 0,8 mg/dm² Lead, 0,07 mg/dm² Cadmium; Articles which can be filled: 4 mg/L Lead, 0,3 mg/L Cadmium; Articles with capacity >3L: 1,5 mg/L Lead, 0,1 mg/L Cadmium; EN 14350; Limits: 10 µg/L Lead, 3 µg/L Cadmium

FR: Recommendation of DGCCRF; Limit Aluminium 1 mg/kg, Cobalt 0,02 mg/kg, Arsenic not detectable; drinking seam: 2 mg/article Lead, 0,2 mg/article Cadmium

NL: Warenwetregeling verpakkingen en gebruiksartikelen; Limits for glass and ceramic: Antimony 0,04 mg/kg, Arsenic 0,01 mg/kg, Barium 1 mg/kg, Boron 1 mg/kg, Cadmium 0,01 mg/kg, Cerium 1 mg/kg, Chromium 0,1 mg/kg, Fluor 1 mg/kg, Cobalt 0,05 mg/kg, Mercury 0,005 mg/kg, Lithium 0,6 mg/kg, Lead 0,1 mg/kg, Manganese 0,6 mg/kg, Nickel 1 mg/kg, Rubidium 1 mg/kg, Selenium 0,01 mg/kg, Strontium 1 mg/kg, Zirkonium 2 mg/kg

NO: Matkontaktforskriften; Limits: Fillable articles: 0,1 mg/L Lead, 0,01 mg/L Cadmium, 1 mg/L Barium; Non fillable articles < 25 mm and drinking seams: 0,02 mg/dm² Lead, 0,002 mg/dm² Cadmium, 0,2 mg/dm² Barium

PL: PN-B 13210; Limits divergent and additional to EU: Articles which can be filled: 2 mg/L Lead; Articles which can be filled >3L: 1 mg/L Lead; Drinking rim: 2 mg/article Lead, 0,2 mg/article Cadmium

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Aluminum	7429-90-5	Chromium	7440-47-3	Mercury	7439-97-6
Antimony	7440-36-0	Cobalt	7440-48-4	Nickel	7440-02-0
Arsenic	7440-38-2	Fluor	7782-41-4	Rubidium	7440-17-7
Barium	7440-39-3	Lead	7439-92-1	Selenium	7782-49-2
Boron	7440-42-8	Lithium	7439-93-2	Strontium	7440-24-6
Cadmium	7440-43-9	Manganese	7439-96-5	Zinc	7440-66-6
Cer	7440-45-1			Zirconium	7440-67-7

Metal migration, enamel

Test Method NL: EN 13130-1

Test Method: EN ISO 4531

DK: BEK nr 681 af 25/05/2020; Limits: Articles that cannot be filled <25mm and drinking rims: 0,8 mg/dm² Lead, 0,07 mg/dm² Cadmium; Articles which can be filled: 4 mg/L Lead, 0,3 mg/L Cadmium; Articles with capacity >3L, cooking and frying utensils: 1,5 mg/L Lead, 0,1 mg/L Cadmium;

EU: Regulation (EG) 1935/2004; EN ISO 4531; Limits in µg/L are equivalent to µg/kg food: Aluminium 5000 µg/L, Silver 80 µg/L, Arsenic 2 µg/L, Barium 1200 µg/L, Cadmium 5 µg/L, Cobalt 100 µg/L, Chromium 250 µg/L, Copper 4000 µg/L, Lithium 480 µg/L, Manganese 1800 µg/L, Molybdenum 120 µg/L, Nickel 140 µg/L, Lead 10 µg/L, Antimony 40 µg/L, Vanadium 10 µg/L, Zinc 5000 µg/L

FR: Recommendation of DGCCRF; Limits: Articles that cannot be filled <25mm: 0,8 mg/dm² Lead, 0,07 mg/dm² Cadmium; Articles which can be filled: 4 mg/L Lead, 0,3 mg/L Cadmium; Articles with capacity >3L: 1,5 mg/L Lead, 0,1 mg/L Cadmium; drinking seam: 2 mg/article Lead, 0,2 mg/article Cadmium; in general: Aluminium 1 mg/kg, Cobalt 0,02 mg/kg, Arsenic not detectable

NL: Warenwetregeling verpakkingen en gebruiksartikelen; Limits: Arsenic 0,01 mg/kg, Barium 1 mg/kg, Boron 1 mg/kg, Cadmium 0,01 mg/kg, Chromium 0,1 mg/kg, Cobalt 0,05 mg/kg, Mercury 0,005 mg/kg, Lithium 0,6 mg/kg, Lead 0,1 mg/kg, Rubidium 1 mg/kg, Selenium 0,01 mg/kg, Strontium 1 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Aluminum	7429-90-5	Chromium VI - fillable articles		Molybdenum	7439-98-7
Antimony	7440-36-0	Chromium VI - flatware up to 25 mm		Nickel	7440-02-0
Arsenic	7440-38-2	Cobalt	7440-48-4	Rubidium	7440-17-7
Barium	7440-39-3	Copper	7440-50-8	Selenium	7782-49-2
Boron	7440-42-8	Lead	7439-92-1	Silver	7440-22-4
Cadmium	7440-43-9	Lithium	7439-93-2	Strontium	7440-24-6
Chromium	7440-47-3	Manganese	7439-96-5	Vanadium	7440-62-2
Chromium VI - drinking seam		Mercury	7439-97-6	Zinc	7440-66-6

Metal migration, plastics, rubber, printings

Test Method: EN 13130-1; EN 17294-2

CH: Regulation 817.023.21

EU: Regulation (EU) No. 10/2011 Annex II No 1

FR: Order of 5 August 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and for pacifiers for infants and young children; Migration limits: Barium 1,2 mg/kg, Copper 4 mg/kg, Aluminium 1 mg/kg, Zinc 5 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Aluminum	7429-90-5	Copper	7440-50-8	Lithium	7439-93-2
Antimony	7440-36-0	Europium	7440-53-1	Manganese	7439-96-5
Arsenic	7440-38-2	Gadolinium	7440-54-2	Mercury	7439-97-6
Barium	7440-39-3	Iron	7439-89-6	Nickel	7440-02-0
Cadmium	7440-43-9	Lanthan	7439-91-0	Terbium	7440-27-9
Chromium	7440-47-3	Lead	7439-92-1	Zinc	7440-66-6
Cobalt	7440-48-4				

Food or Mucosa Contact

2021-05-0003

For countries: EU (incl. CH, NO, UK)

Release date: 21.05.2021

Netto

Update recommended on: 31.05.2022

Metal migration, metallic articles

Test Method: EN 13130-1; EN 17294-2; EN 14350

BE: Arrêté Royal du 17 février 2021; Limits equivalent with "Metals and alloys used in food contact materials and articles - A practical guide for manufacturers and regulators 1st Edition 2013"

CH: Regulation 817.023.21; Limit for Aluminium: 10 mg/L, valid for metal articles used for production of fruit or vegetable juice

EU: Regulation (EC) No 1935/2004; Limits according to guideline "Metals and alloys used in food contact materials and articles - A practical guide for manufacturers and regulators 1st Edition 2013"; EN 16889 for hot beverage appliances; EN 14350 for childrens drinking equipment, limits: 10 µg/L Lead, 3 µg/L Cadmium

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Aluminium	7429-90-5	Chromium	7440-47-3	Mercury	7439-97-6
Aluminum	7429-90-5	Cobalt	7440-48-4	Molybdenum	7439-98-7
Antimony	7440-36-0	Copper	7440-50-8	Nickel	7440-02-0
Arsenic	7440-38-2	Iron	7439-89-6	Silver	7440-22-4
Barium	7440-39-3	Lead	7439-92-1	Thallium	7440-82-0
Beryllium	7440-41-7	Lithium	7439-93-2	Tin	7440-31-5
Cadmium	7440-43-9	Manganese	7439-96-5	Vanadium	7440-62-2
				Zinc	7440-66-6

Nitrosamines

Test method: EN 12868; EN 71-12; EN 13130

DE: BedGgStV; Limits: Toys for children < 3 years, rubber teats and soothers: Nitrosamines: 0,01 mg/kg; Nitrosable substances: 0,1 mg/kg; Balloons: Nitrosamines: 0,05 mg/kg; Nitrosable substances: 1 mg/kg

DK: BEK 5 af 05/01/2016; Limits for pacifiers and rubber teats: Nitrosamines 10 µg/kg, Nitrosatable Substances 100 µg/kg

EU: Directive 93/11/EEC; Resolution ResAP(2004)4; N 1400; EN 14372; EN 14350; Limit for nitrosoamines 0,01 mg/kg; limit for nitrosatable substances 0,1 mg/kg

 FR: Order of 5 August 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and for pacifiers for infants and young children; Limits for pacifiers and rubber teats: Nitrosamines 0,01 mg/kg, Nitrosatable substances 0,1 mg/kg; Limits for other food contact articles: Nitrosamines 1 µg/dm², Nitrosatable substances 10 µg/dm²

NO: Regulation No. 922 of 1st June 2004 (Produktforskriften); Limits for pacifiers: Nitrosamines 0,01 mg/kg, Nitrosatable Substances 0,1 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
N-Nitrosamines		N-Nitrosodiethylamine (NDEA)	55-18-5	N-Nitrosomorpholine (NMOR)	59-89-2
N-Nitrosatable substances		N-Nitrosodiisobutylamine (NDiBA)	997-95-5	N-Nitroso-N-ethyl-N-phenylamine (NEPhA)	612-64-6
N-Nitrosodibenzylamine (NDBzA)	5336-53-8	N-Nitrosodisononylamine (NDiNA)	1207995-62-7	N-Nitroso-N-methyl-N-phenylamine (NMPhA)	614-00-6
N-Nitrosodibutylamine (NDBA)	924-16-3	N-Nitrosodimethylamine (NDMA)	62-75-9	N-Nitrosopiperidine (NPIP)	100-75-4
		N-Nitrosodipropylamine (NDPA)	621-64-7	N-Nitrosopyrrolidine (NPYR)	950-55-2

Organotin compounds

Test Method FR: EN 13130-1, CEN/TS 16179 (mod.)

Test Method: CEN/TS 16179 (mod.)

EU: Regulation (EC) 1907/2006; DBT: Limit: 0,1 % tin; DOT: Limit for textile articles with skin contact, gloves, shoes, wall and floor covering, baby articles, women care articles, nappies: 0,1 % tin; Trisubstituted organostannic compounds (i.a. TBT, TPhT): Limit: 0,1 % tin

FR: Decree of 25 November 1992 relating to materials made of silicone elastomers placed or intended to be in contact with foodstuffs, food products and beverages; Limit: 0,1 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Dibutyltin DBT		Monobutyltin MBT		Triphenyltin TPhT	
Diocetyl tin DOT		Tributyltin TBT			

Perfluorinated compounds (PFC)

Test Method: CEN/TS 15968 (mod.); Extraction with organic solvent, GC/MS/PCI

EU: Regulation 2019/1021; Limits: PFOA 0,025 mg/kg; Sum PFOA related substances (non exhaustive list): 1 mg/kg

 EU: Regulation 2019/1021; Limits: PFOS, its salts and derivatives (non exhaustive list) for textiles and coated materials: < 1 µg/m², for other articles: 0,1%

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
1-Decanaminium, N-decyl-N,N-dimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl-1-octanesulfonate	251099-16-8	Ethyl perfluorooctanoate Et-PFOA	3108-24-5	N-Methyl perfluorooctanesulfonamide MeFOSA (C8)	31506-32-8
1H,1H,2H,2H-Perfluoro-1-decanol 8:2 FTOH	678-39-7	Methyl perfluorooctanoate Me-PFOA	376-27-2	Perfluorooctane sulfonate PFOS (C8)	1763-23-1
1H,1H,2H,2H-Perfluorodecanesulfonic acid 8:2 FTS	39108-34-4	N-(2-Hydroxyethyl)-N-methylperfluorooctanesulfonamide MeFOSE	24448-09-7	Perfluorooctane sulfonate PFOS-X (salt or alcohol)(detected as PFOS)	2795-39-9 et al.
1H,1H,2H,2H-Perfluorodecyl acrylate 8:2 FTA	27905-45-9	N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulfonamide EtFOSE	1691-99-2	Perfluorooctanesulfonamide PFOSA (C8)	754-91-6
1H,1H,2H,2H-Perfluorodecyl methacrylate 8:2 FTMA	1996-88-9	N-Ethyl-Perfluorooctansulfonamid EtFOSA (C8)	4151-50-2	Perfluorooctanesulfonyl fluoride PFOSF (C8)	307-35-7

Food or Mucosa Contact

2021-05-0003

For countries: EU (incl. CH, NO, UK)

Release date: 21.05.2021

Netto

Update recommended on: 31.05.2022

Pesticides

Test Method: EPA M 8270C; EPA 3545A (mod.)

CH: ChemRRV 814.81; Consumer products that contain DDT are not marketable

EU: Regulation 2019/1021; Articles may not contain substances from annex I

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
1,1,1-Trichlor-2,2-bis-(4-chlorophenyl)ethane (DDT) und isomeres	50-29-3	Dicofol	115-32-2	Kepone / Chorodecone	143-50-0
a-Hexachlorocyclohexane	319-84-6	Dieldrine	60-57-1	Lindan	58-89-9
Aldrine	309-00-2	Endosulfan alpha	959-98-8	Mirex	2385-85-5
b-Hexachlorocyclohexane	319-85-7	Endosulfan beta	33213-65-9	other Hexachlorocyclohexane (isomers)	608-73-1
Chlordane cis	5103-71-9	Endrine	72-20-8	Pentachlorobenzene	608-93-5
Chlordane trans	5103-74-2	Heptachlor	76-44-8	Polychlorinated naphtalenes	
DDT ortho, para	789-02-6	Hexachlorobenzene	118-74-1	Toxaphene	8001-35-2
d-Hexachlorocyclohexane	319-86-8	Hexachlorobutadiene	87-68-3		

Phenylmercury compounds

Test Method: EPA 3015 A, EN ISO 17294-2, EN 16711-1; solvent extraction GC/MS

EU: Regulation (EC) 1907/2006; Limit 0,01% (calculated in mercury)

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Phenylmercury 2-ethylhexanoate	13302-00-6	Phenylmercury neodecanoate	26545-49-3	Phenylmercury propionate	103-27-5
Phenylmercury acetate	62-38-4	Phenylmercury octanoate	13864-38-5		

Phthalates - Plasticizers

Test Method: EN ISO 14389 (mod.); EN 14372

DK: BEK nr 947 af 20/06/2020; Limits for child products and toys for children <36 months: 0,05% (Except DEHP, BBP, DBP, DIBP, DNOP, DIDP, DINP)

 EU: Directive 2001/95/EG; Limit for baby cutlery and crokery acc. to EN 14372: Sum (DEHP, BBP, DBP, DNOP, DIDP, DINP) = 0,1%
 Regulation (EC) 1907/2006; Limit for toys and child products; Sum (DEHP, BBP, DBP, DIBP) = 0,1%; Sum (DNOP, DIDP, DINP) = 0,1%

EU: Regulation 1907/2006; Limit for phthalates in articles: DEHP, BBP, DBP, DIBP: 0,1% (individually or in combination)

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Butylbenzyl phthalate / BBP	85-68-7	Di-iso-butylphthalate / DIBP	84-69-5	Di-iso-nonylphthalate / DINP	28553-12-0 et al
Di-(2-ethylhexyl)-phthalate / DEHP	117-81-7	Di-iso-decylphthalate / DIDP	26761-40-0 et al	Di-n-octylphthalate / DNOP	117-84-0
Dibutyl phthalate / DBP	84-74-2				

Polycyclic Aromatic Hydrocarbons PAH

Test Method: AfPS GS 2019:01 PAK

AfPS GS 2019:01 PAK: The AfPS document classifies applicable limits in 3 categories for children and adult. The evaluation into these categories results on the basis of the AfPS document. Limits: 11 limits for PAH single substances, sum limit of 4 PAH's (Phenanthrene, Pyrene, Anthracene, Fluoranthene) and sum limit of all 15 PAH's

DE: ProdSG; LFGB §30; BfR-Recommendation No. 025/2009: PAH content in consumer goods should be as low as possible; For products with GS-certification the product has to comply with document AfPS GS 2019:01 PAK.

EU: Regulation (EC) 1907/2006; Limits for articles with direct and prolonged or short-term repetitive skin/oral cavity contact. Adults: 1 mg/kg; Children: 0,5 mg/kg (8 cancerogenic PAHs marked with *)

EU: Regulation 1907/2006; Limit: 1 mg/kg (8 cancerogenic PAHs marked with *)

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Anthracene	120-12-7	Benzo(g,h,i)-perylene	191-24-2	Fluoranthene	206-44-0
Benzo(a)anthracene*	56-55-3	Benzo(j)fluoranthene*	205-82-3	Indeno(1,2,3-cd)pyrene	193-39-5
Benzo(a)pyrene*	50-32-8	Benzo(k)fluoranthene*	207-08-9	Naphthalene	91-20-3
Benzo(b)fluoranthene*	205-99-2	Chrysene*	218-01-9	Phenanthrene	85-01-8
Benzo(e)pyrene*	192-97-2	Dibenzo(a,h)anthracene*	53-70-3	Pyrene	129-00-0

Food or Mucosa Contact

2021-05-0003

For countries: EU (incl. CH, NO, UK)

Release date: 21.05.2021

Netto

Update recommended on: 31.05.2022

Primary and secondary aromatic amines, migration

Test Method: EN 13130-1; EN 14350

CH: Regulation 817.023.21; Limit 0,01 mg/kg

DE: Recommendation of BfR No. XXXVI for paper, cardboards and paperboards with food contact;

EU: Regulation (EU) No. 10/2011; Resolution ResAP(2004)4; EN 14350; Limit for migration: Sum 0,01 mg/kg, excluded are primary aromatic amines which are regulated in table 1 of annex I regulation (EU) No. 10/2011; single limit 0,002 for aromatic amines according to annex XVII appendix 8 to entry 43 of the REACH regulation.

FR: Order of 5 August 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and for pacifiers for infants and young children; Limits: Sum primary aromatic amines: 0,01 mg/kg; Sum primary and secondary aromatic amines: 1 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
2,4,5-Trimethylaniline	137-17-7	3,3'-Dimethylbenzidine	119-93-7	Aniline	62-53-3
2,4-Diaminoanisole	615-05-4	4,4'-Diaminodiphenylmethane	101-77-9	Benzidine	92-87-5
2,4-Toluylenediamine	95-80-7	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	m-Phenylenediamine	108-45-2
2,6-Toluylenediamine	823-40-5	4,4'-Oxydianilin	101-80-4	o-Aminoazotoluene	97-56-3
2-Amino-4-nitrotoluene	99-55-8	4,4'-Thiodianiline	139-65-1	o-Anisidine	90-04-0
2-Naphthylamine	91-59-8	4-Aminoazobenzene	60-09-3	o-Toluidine	95-53-4
3,3'-Dichlorobenzidine	91-94-1	4-Aminobiphenyle	92-67-1	p-Chloroaniline	106-47-8
3,3'-Dimethoxybenzidine	119-90-4	4-Chloro-o-toluidine	95-69-2	p-Cresidine	120-71-8
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0				

Residual chemicals in silicone and rubber

Test Method: EN 1400; EN 14350; BfR Recommendation No XV

CH: Verordnung 817.023.21, EDI; Limit for volatile organic substances (VOC): 0,5%

DE: BfR Recommendation No XV for silicone articles with food contact; Limits: Extractable substances: 0,5%, volatile substances (VOC): 0,5%; peroxides: not detectable

EU: Directive 2001/95/EC; Requirements for baby and infant articles EN 1400 (soother), EN 14372 (Cutlery and feeding utensils) and EN 14350 (articles for drinking equipment);

FR: Decree of 25 November 1992 relating to materials made of silicone elastomers placed or intended to be in contact with foodstuffs, food products and beverages; Limit for volatile organic substances (VOC): <0,5%; peroxides reaction must be negative.

FR: Order of 5 August 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and for pacifiers for infants and young children; Limits: Volatile substances (VOC) 0,5%, peroxides not detectable

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Extractable Fraction		Peroxides		Volatile substances (VOC)	

Sensory properties

Test Method: in general DIN 10955; paper, cardboard: EN 1230-1/-2

DE: §31 LFGB; Odour and taste: grade 2,5

EU: Regulation (EC) No 1935/2004; Odour and taste: grade 2,5

Fastness to saliva and perspiration

Test Method: DIN 53160; grade 5 = no staining / no colour change, grade 1 = very strong staining / very strong colour change (grey scale acc. to EN 20105-A02/03; ISO 105-A02/03)

CZ: Act No 84/2001; Limit is valid for toys and baby products: resistant against saliva and perspiration

DE: Recommendation of BfR XLVII (Federal Institute for Risk Assessment) for toys: Limit: Grade 5

SK: Decree 635/2005; Limit for baby textiles with skin contact: resistant against saliva and perspiration

Triclosan

Test Method: EN 13365 (mod.)

DE: BedGgstV; Triclosan use is forbidden for manufacturing and treating of articles with food contact

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Triclosan	3380-34-5				

Food or Mucosa Contact

2021-05-0003

For countries: EU (incl. CH, NO, UK)

Release date: 21.05.2021

Netto

Update recommended on: 31.05.2022

Packaging, additional requirements

Test Method: EN 62321 / EPA 3050B / EN ISO 17294-2 / EN ISO 17075 (Heavy metals); CEN ISO/TS 16186 (mod.) (Dimethylfumarate); X-ray fluorescence analysis (RFA) (Cobalt dichloride)

EU (Cobaltdichloride): Directive 2001/95/EC

EU (Dimethylfumarate): Regulation (EC) 1907/2006; Limit 0,1 mg/kg

EU (Heavy metals): Directive 94/62/EC; Limit: sum lead, cadmium, mercury, chromium VI: 100 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Cadmium	7440-43-9	Cobalt dichloride	7646-79-9	Lead	7439-92-1
Chromium VI		Dimethylfumarate	624-49-7	Mercury	7439-97-6

Vinylchloride monomer

Test method: § 64 LFGB 80.32-1

DE: BedGgstV; Limit for monomer vinylchloride content in PVC articles: 1 mg/kg

DK: BEK nr 681 af 25/05/2020; Limit for food contact articles: 0,01 mg/kg

EU: EDQM-Standard "Policy statement concerning coatings intended to come into contact with foodstuffs (Version 3 dated 12.02.2009)"; Specific Migration Limit for Vinylchloride-Monomer: 0,01 mg/kg (not detectable)

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Vinylchloride	75-01-4				

Vulcanization accelerator

Test Method: EN 14350; EN 1400

EU: Directive 2001/95/EC; EN 1400; EN 14350; Migration limit for soother and for child drinking equipment made of elastomers: Mercaptobenzothiazol 8 mg/kg

FR: Order of 5 August 2020 relating to rubber materials and objects intended to come into contact with foodstuffs and for pacifiers for infants and young children; Migration limits: Formaldehyde 3 mg/kg, sum of Hexamethylenetetramine and Formaldehyde 15 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Formaldehyde	50-00-0	Hexamethylenetetramine	100-97-0	Mercaptobenzothiazole	149-30-4

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 The substances or groups of substances are specifically named in laws, ordinances, or other regulations and are subject to corresponding limit values.
 In addition, a product that is placed on the market must be safe for the user and the environment.
 Therefore, further national and international legal regulations that regulate product safety and those superordinate, must be considered (for example ProdSG, General Product Safety Directive 2001/95/EC). This may lead to further testing requirements regarding additional substances. This is product specific and can be clarified based on a detailed assessment of components and materials.
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