

Gültig für alle Handelsunternehmen der deutschen Otto Group
Valid for all commercial enterprises of the german Otto Group

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

2021-02-90001

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Otto Group

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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	Limit	Unit	Parameter	CAS No	Limit	Unit
Nonylphenoethoxylates NPEO		100	mg/kg	Nonylphenols NP		1000	mg/kg

Allergenic fragrances

Test Method: EN 71-13

EU: Directive 2009/48/EC; Limit: no use (traces up to 100 mg/kg allowed)

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
(DL)-Limonene	138-86-3	100	mg/kg	Diethyl maleate	141-05-9	100	mg/kg
1-(p-Methoxyphenyl)-1-penten-3-one	104-27-8	100	mg/kg	Dihydrocoumarin	119-84-6	100	mg/kg
2,4-Dihydroxy-3-methylbenzaldehyde	6248-20-0	100	mg/kg	Dimethyl citraconate	617-54-9	100	mg/kg
2-Pentylidene-cyclohexanone	25677-40-1	100	mg/kg	Dimethylbenzyl carbinyol acetate (DMBCA)	151-05-3	100	mg/kg
3,6,10-Trimethyl-3,5,9-undecatrien-2-one	1117-41-5	100	mg/kg	Diphenylamine	122-39-4	100	mg/kg
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	127-51-5	100	mg/kg	d-Limonene	5989-27-5	100	mg/kg
3-methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	67801-20-1	100	mg/kg	Ethyl acrylate	140-88-5	100	mg/kg
4 tert-Butylphenol	98-54-4	100	mg/kg	Eucalyptus spp. leaf oil	92502-70-0 et al.	100	mg/kg
4-(p-Methoxyphenyl)-3-butene-2-one	943-88-4	100	mg/kg	Eugenia caryophyllus leaf/flower oil	8000-34-8	100	mg/kg
4,6-Dimethyl-8-tert-butylcoumarin	17874-34-9	100	mg/kg	Eugenol	97-53-0	100	mg/kg
4-Ethoxy-phenol	622-62-8	100	mg/kg	Farnesol	4602-84-0	100	mg/kg
4-Methoxyphenol	150-76-5	100	mg/kg	Fig leaf, fresh and preparations	68916-52-9	100	mg/kg
4-Phenyl-3-buten-2-one	122-57-6	100	mg/kg	Geraniol	106-24-1	100	mg/kg
5-Methyl-2,3-hexanedione	13706-86-0	100	mg/kg	Hexadecanolactone	109-29-5	100	mg/kg
6,10-Dimethyl-3,5,9-undecatrien-2-one	141-10-6	100	mg/kg	Hexahydrocoumarin	700-82-3	100	mg/kg
6,7-Dihydrogeraniol	40607-48-5	100	mg/kg	Hexamethylindanopyran	1222-05-5	100	mg/kg
6-Isopropyl-2-decahydronaphthalenol	34131-99-2	100	mg/kg	Hexyl cinnamaldehyde	101-86-0	100	mg/kg
6-Methylcoumarin	92-48-8	100	mg/kg	Hydroabietyl alcohol	13393-93-6	100	mg/kg
7,11-Dimethyl-4,6,10-dodecatrien-3-one	26651-96-7	100	mg/kg	Hydroxy-citronellal	107-75-5	100	mg/kg
7-Ethoxy-4-methylcoumarin	87-05-8	100	mg/kg	Hydroxy-methylpentylcyclohexene-carboxaldehyde	31906-04-4	100	mg/kg
7-Methoxycoumarin	531-59-9	100	mg/kg	Isoeugenol	97-54-1	100	mg/kg
7-Methylcoumarin	2445-83-2	100	mg/kg	Jasminum grandiflorum/officinale	84776-64-7 et al.	100	mg/kg
Acetylcedrene	32388-55-9	100	mg/kg	Juniperus virginiana	8000-27-9 et al.	100	mg/kg
Alanroot oil (Inula helenium)	97676-35-2	100	mg/kg	Laurus nobilis fruit oil	8007-48-5	100	mg/kg
Allylthiocyanate	57-06-7	100	mg/kg	Laurus nobilis leaf oil	8002-41-3	100	mg/kg
alpha-Damascone (TMCHB)	43052-84-5 et al.	100	mg/kg	Laurus nobilis seed oil	84603-73-6	100	mg/kg
alpha-Pinene	80-56-8	100	mg/kg	Lavandula hybrida	91722-69-9	100	mg/kg
alpha-Santalol	115-71-9	100	mg/kg	Lavandula officinalis	84776-65-8	100	mg/kg
alpha-Terpineol	10482-56-1 et al.	100	mg/kg	Lilial	80-54-6	100	mg/kg
Amyl cinnamal	122-40-7	100	mg/kg	Linalool	78-70-6	100	mg/kg
Amyl salicylate	2050-08-0	100	mg/kg	Linal acetate	115-95-7	100	mg/kg
Amylcinnamyl alcohol	101-85-9	100	mg/kg	Mentha piperita	8006-90-4 et al.	100	mg/kg
Anisyl alcohol	105-13-5	100	mg/kg	Mentha spicata	84696-51-5	100	mg/kg
Benzaldehyde	100-52-7	100	mg/kg	Menthol	1490-04-6 et al.	100	mg/kg
Benzyl alcohol	100-51-6	100	mg/kg	Methyl heptine carbonate	111-12-6	100	mg/kg
Benzyl benzoate	120-51-4	100	mg/kg	Methyl salicylate	119-36-8	100	mg/kg
Benzyl cinnamate	103-41-3	100	mg/kg	Methyl trans-2-butenolate	623-43-8	100	mg/kg
Benzyl cyanide	140-29-4	100	mg/kg	Musk ambrette (4-tert-Butyl-3-methoxy-2,6-dinitrotoluene)	83-66-9	100	mg/kg
Benzyl salicylate	118-58-1	100	mg/kg	Narcissus spp.	90064-25-8 et al.	100	mg/kg
				Oakmoss extracts	90028-68-5	100	mg/kg
				Palargonium graveolens	90082-51-2 et al.	100	mg/kg

Mandatory

beta-Caryophyllene (ox.)	87-44-5	100	mg/kg	Peru balsam, crude (Exudation of Myroxylon pereirae (Royle)	8007-00-9	100	mg/kg
beta-Pinene	127-91-3	100	mg/kg	Pinus mugo	90082-72-7	100	mg/kg
beta-Santalol	77-42-9	100	mg/kg	Pinus pumila	97676-05-6	100	mg/kg
Camphor	76-22-2, 464-49-3	100	mg/kg	Pogostemon cablin	8014-09-3 et al.	100	mg/kg
Cananga odoranta and Ylan-ylan-oil	83863-30-3 et al.	100	mg/kg	Propylidene phthalide	17369-59-4	100	mg/kg
Carvone	99-49-0 et al.	100	mg/kg	Rose flower oil (Rosa spp.)	8007-01-0 et al.	100	mg/kg
Cedrus atlantica bark oil	92201-55-3 et al.	100	mg/kg	Rose ketone-4 (Damasconone)	23696-85-7	100	mg/kg
Chenopodium oil	8006-99-3	100	mg/kg	Salicylaldehyde	90-02-8	100	mg/kg
Cinnamal	104-55-2	100	mg/kg	Santalum album	84787-70-2 et al.	100	mg/kg
Cinnamomum cassia leaf oil	8007-80-5	100	mg/kg	Sclareol	515-03-7	100	mg/kg
Cinnamomum zeylanicum bark oil	84649-98-9	100	mg/kg	Terpineol (mixture of isomers)	8000-41-7	100	mg/kg
Cinnamyl alcohol	104-54-1	100	mg/kg	Terpinolene	586-52-9	100	mg/kg
cis-beta-Damascone	23726-92-3	100	mg/kg	Tetramethyl acetyloctahydro naphthalenes	54464-57-2 et al.	100	mg/kg
Citral	5392-40-5	100	mg/kg	trans-2-Heptenal	18829-55-5	100	mg/kg
Citronellol	106-22-9 et al.	100	mg/kg	trans-2-Hexenal diethyl acetal	67746-30-9	100	mg/kg
Citrus aurantium amara flower oil	8016-38-4	100	mg/kg	trans-2-Hexenal dimethyl acetal	18318-83-7	100	mg/kg
Citrus aurantium amara peel oil	72968-50-4	100	mg/kg	trans-Anethole	4180-23-8	100	mg/kg
Citrus bergamia peel oil expressed	89957-91-5	100	mg/kg	Treemoss extracts	90028-67-4	100	mg/kg
Citrus limonum peel oil expressed	84929-31-7	100	mg/kg	Trimethyl benzenepropanol (Majantol)	103694-68-4	100	mg/kg
Citrus sinensis (syn.: Aurantium dulcis) peel oil expressed	97766-30-8 et al.	100	mg/kg	Turpentine (oil)	8006-64-2	100	mg/kg
Costus root oil (Saussurea lappa Clarke)	8023-88-9	100	mg/kg	Vanillin	121-33-5	100	mg/kg
Coumarin	91-64-5	100	mg/kg	Verbena oil (Lippia citriodora Kunth)	8024-12-2	100	mg/kg
Cyclamen alcohol	4756-19-8	100	mg/kg				
Cymbopogon citratus/schoenanthus oils	89998-14-1 et al.	100	mg/kg				
delta-Damascone	57378-68-4	100	mg/kg				

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	Limit	Unit	Parameter	CAS No	Limit	Unit
Cyanox 425, Antioxidant 2246 - sum		0,0625	mg/L	2,4-Bis (dodecylthiomethyl)-6-methylphenol / Irganox 1726	110675-26-8	-	mg/L
Irganox 1520, Irganox 1726 - sum		0,25	mg/L	2,4-Bis(octylthiomethyl)-6-methylphenol / Irganox 1520	110553-27-0	-	mg/L
2,2'-Methylen-bis(4-ethyl)-6-tert-butylphenol / Cyanox 425	000088-24-4	-	mg/L	2,6-Bis(1,1-dimethylethyl)-4-methylphenol / BHT	128-37-0	0,42	mg/L
2,2'-Methylen-bis(6-(1,1-dimethylethyl)-4-methylphenol) / Antioxidant 2246	119-47-1	-	mg/L	Butyliertes Reaktionsprodukt von p-Cresol und Dicyclopentadien / Wingstay L	68610-51-5	0,25	mg/L

Asbestos

Test Method: Visual identification by microscope; EPA 600/R-93/116; NIOSH 9002; ISO 22262

EU: Regulation (EC) 1907/2006; Asbestos fibres shall not be added intentionally to articles

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Aktinolith	77536-66-4	not detectable	mg/kg	Chrysotil	12001-29-5 et al.	not detectable	mg/kg
Amosit	12172-73-5	not detectable	mg/kg	Krokydololith	12001-28-4	not detectable	mg/kg
Anthophyllit	77536-67-5	not detectable	mg/kg	Tremolit	77536-68-6	not detectable	mg/kg

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 (EC) 1907/2006; Limit: substances and mixtures that are intended for colouring textile and leather articles shall not be placed on the market or used if the concentration of Navy Blue is >0,1%

EU: Regulation 2018/1513 amending Annex XVII to Regulation 1907/2006; Limit: 30 mg/kg

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
2,4,5-Trimethylaniline	137-17-7	30	mg/kg	4,4'-Oxydianilin	101-80-4	30	mg/kg
2,4,5-Trimethylaniline hydrochloride	21436-97-5	30	mg/kg	4,4'-Thiodianiline	139-65-1	30	mg/kg
2,4-Diaminoanisole	615-05-4	30	mg/kg	4-Aminoazobenzene	60-09-3	30	mg/kg
2,4-Diaminoanisole sulphate	39156-41-7	30	mg/kg	4-Aminobiphenyle	92-67-1	30	mg/kg
2,4-Toluylenediamine	95-80-7	30	mg/kg	4-Chloro-o-toluidine	95-69-2	30	mg/kg
2-Amino-4-nitrotoluene	99-55-8	30	mg/kg	4-Chloro-o-toluidine chloride	3165-93-3	30	mg/kg
2-Naphthylamine	91-59-8	30	mg/kg	Benzidine	92-87-5	30	mg/kg
2-Naphthylammoniumacetate	553-00-4	30	mg/kg	Navy Blue / Blue Colorant (Mix) al.	118685-33-9 et al.	not detectable	mg/kg
3,3'-Dichlorobenzidine	91-94-1	30	mg/kg	o-Aminoazotoluene	97-56-3	30	mg/kg
3,3'-Dimethoxybenzidine	119-90-4	30	mg/kg	o-Anisidine	90-04-0	30	mg/kg
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	mg/kg	o-Toluidine	95-53-4	30	mg/kg
3,3'-Dimethylbenzidine	119-93-7	30	mg/kg	p-Chloroaniline	106-47-8	30	mg/kg
4,4'-Diaminodiphenylmethane	101-77-9	30	mg/kg	p-Cresidine	120-71-8	30	mg/kg
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg				

Benzene

Test Method: Headspace GC-MS

EU: Regulation (EC) 1907/2006; Limit for toys: 5 mg/kg

EU: Regulation 2018/1513 amending Annex XVII to Regulation 1907/2006; Limit: Benzene: 5 mg/kg

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Benzene	71-43-2	5	mg/kg				

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

CH: ChemRRV; Limit for Bisphenol A and Bisphenol S in thermal paper: <0,02%

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 (EC) No 1907/2006; Limit for Bisphenol A in thermal paper: <0,02%

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	Limit	Unit	Parameter	CAS No	Limit	Unit
Bisphenol A / BPA	80-05-7	not detectable	mg/kg	Bisphenol S / BPS	80-09-1	<0,02	%

Chlorinated aliphatic compounds

Test Method: inhouse-method, Headspace (30 Min, 110°C), GC-MS, semi-quantitative determination against d8-toluene

EU: Regulation (EC) 1907/2006; Limits for mixtures: 0,1%; no use of Hexachloroethane

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
1,1,1,2-Tetrachloroethane	630-20-6	1000	mg/kg	Hexachloroethane	67-72-1	no use	%
1,1,1-Trichloroethane	71-55-6	1000	mg/kg	Pentachloroethane	76-01-7	1000	mg/kg
1,1,2,2-Tetrachloroethane	79-34-5	1000	mg/kg	Tetrachloromethane	56-23-5	1000	mg/kg
1,1,2-Trichloroethane	79-00-5	1000	mg/kg	Trichloromethane	67-66-3	1000	mg/kg
1,1-Dichloroethylene	75-35-4	1000	mg/kg				

Chlorinated benzenes and toluenes

Test Method: DIN 54232; EN 17137

EU: Regulation (EC) 1907/2006; Limit for Trichlorobenzenes (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and 1,3,5-Trichlorobenzene) in mixtures: 0,1 %; no limit for articles

EU: Regulation 2018/1513 amending Annex XVII to Regulation 1907/2006; Limit for 4-Tetrachlorotoluene, Benzenetrichloride, Benzyl chloride: 1 mg/kg

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
1,2,3-Trichlorobenzene	87-61-6	0,1	%	Benzotrichloride	98-07-7	1	mg/kg
1,2,4-Trichlorobenzene	120-82-1	0,1	%	Benzyl chloride	100-44-7	1	mg/kg
1,3,5-Trichlorobenzene	108-70-3	0,1	%	α,α,α,4-Tetrachlorotoluene	5216-25-1	1	mg/kg

Chlorinated paraffins

Test Method: EN ISO 18219 (mod.)

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

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Short-chain chlorinated paraffins C10 - C13 (SCCP)	85535-84-8	1000	mg/kg				

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 pentachlorophenol: Limit for PCP incl. salts and esters in Verbraucherprodukten: 5 mg/kg

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

EU: Regulation 2019/1021; Pentachlorophenol containing articles are prohibited

EU: Resolution ResAP (2002) 1 (paper and board); Limit Pentachlorophenol: 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	Limit	Unit	Parameter	CAS No	Limit	Unit
Pentachlorophenol (PCP), paper	87-86-5	0,15	mg/kg	2,3,4,6-Tetrachlorophenol	58-90-2	-	mg/kg
Tetrachlorophenols, sum (TeCP)		5	mg/kg	2,3,5,6-Tetrachlorophenol	935-95-5	-	mg/kg
2,3,4,5-Tetrachlorophenol	4901-51-3	-	mg/kg	Pentachlorophenol (PCP)	87-86-5	0,5	mg/kg

Chromium VI in leather

Test Method: EN ISO 17075-1/-2

EU: Regulation (EC) No 1907/2006; Limit for leather articles and leather parts of articles with skin contact: <3 mg/kg

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Chromium VI		<3	mg/kg				

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Dimethylfumarate

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

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

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Dimethylfumarate	624-49-7	0,1	mg/kg				

Dioxins and furans

Test Method: EN 1948; VDI 3499

DE: ChemVerbotsV; Limits for different kongener groups (1 - 5)

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Kongener Group 1		1	µg/kg	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (2)	57653-85-7	-	µg/kg
Kongener Group 1 + 2		5	µg/kg	1,2,3,7,8,9-Hexabromodibenzo-p-dioxin (5)	110999-46-7	-	µg/kg
Kongener Group 1 + 2 + 3		100	µg/kg	1,2,3,7,8,9-Hexachlorodibenzofuran (2)	72918-21-9	-	µg/kg
Kongener Group 4		1	µg/kg	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (2)	19408-74-3	-	µg/kg
Kongener Group 4 + 5		5	µg/kg	1,2,3,7,8-Pentabromodibenzofuran (5)	107555-93-1	-	µg/kg
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (3)	39001-02-0	-	µg/kg	1,2,3,7,8-Pentabromodibenzo-p-dioxin (4)	109333-34-8	-	µg/kg
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (3)	3268-87-9	-	µg/kg	1,2,3,7,8-Pentachlorodibenzofuran (2)	57117-41-6	-	µg/kg
1,2,3,4,6,7,8-Heptachlorodibenzofuran (3)	67652-39-5	-	µg/kg	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1)	40321-76-4	-	µg/kg
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (3)	35822-46-9	-	µg/kg	2,3,4,6,7,8-Hexachlorodibenzofuran (2)	60851-34-5	-	µg/kg
1,2,3,4,7,8,9-Heptachlorodibenzofuran (3)	55673-89-7	-	µg/kg	2,3,4,7,8-Pentabromodibenzofuran (4)	13116-92-2	-	µg/kg
1,2,3,4,7,8-Hexabromodibenzo-p-dioxin (5)	110999-44-5	-	µg/kg	2,3,4,7,8-Pentachlorodibenzofuran (1)	57117-31-4	-	µg/kg
1,2,3,4,7,8-Hexachlorodibenzofuran (2)	70648-26-9	-	µg/kg	2,3,7,8-Tetrabromodibenzofuran (4)	67733-57-7	-	µg/kg
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (2)	39227-28-6	-	µg/kg	2,3,7,8-Tetrabromodibenzo-p-dioxin (4)	50585-41-6	-	µg/kg
1,2,3,6,7,8-Hexabromodibenzo-p-dioxin (5)	110999-45-6	-	µg/kg	2,3,7,8-Tetrachlorodibenzofuran (1)	89059-46-1	-	µg/kg
1,2,3,6,7,8-Hexachlorodibenzofuran (2)	57117-44-9	-	µg/kg	2,3,7,8-Tetrachlorodibenzo-p-dioxin (1)	1746-01-6	-	µg/kg

Flammable and highly flammable substances

Test Method: inhouse-method, Headspace (30 Min, 110°C), GC-MS, semi-quantitative determination against d8-toluene

EU: Regulation 1907/2006; no use of substances, that are marked as flammable and highly flammable acc. to Regulation (EC) No 1272/2008, in decoration articles (e.g. metallic glitter for festivities, artificial snow, evanescent bubbles and flakes, artificial cobwebs, streamers, stink bombs)

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Flammable and highly flammable substances		not detectable	mg/kg				

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 March1973; Decree of the Ministry of Health no 220 26.04.1993, no 338 22.07.1998 and no 174 24.09.2008

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Colour Fastness / Bleeding		5	Grade				

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Colorants

Test Method: EN 71-9/-10/-11

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: Directive 2001/95/EC, 2009/48/EC; Limit acc. to EN 71-9: 10 mg/kg

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Acid Red 26	3761-53-3	10	mg/kg	Disperse Blue 3	2475-46-9	10	mg/kg
Acid Violet 49	1694-09-3	10	mg/kg	Disperse Orange 3	730-40-5	10	mg/kg
Basic Red 9	569-61-9	10	mg/kg	Disperse Orange 37/59/76	13301-61-6	10	mg/kg
Basic Violet 1	8004-87-3	10	mg/kg	Disperse Red 1	2872-52-8	10	mg/kg
Basic Violet 3	548-62-9	10	mg/kg	Disperse Yellow 3	2832-40-8	10	mg/kg
Disperse Blue 1	2475-45-8	10	mg/kg	Solvent Yellow 1	60-09-3	10	mg/kg
Disperse Blue 106	12223-01-7	10	mg/kg	Solvent Yellow 2	60-11-7	10	mg/kg
Disperse Blue 124	61951-51-7	10	mg/kg	Solvent Yellow 3	97-56-3	10	mg/kg

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

DE: ProdSG, LFGB §30; BfR Recommendation No. 041/2012; Limit: 5 mg/L (75 mg/kg)

EU: Regulation 2018/1513 amending Annex XVII to Regulation 1907/2006; Limits: Disperse Blue 1, Basic Red 9, Basic Violet 3: 50 mg/kg (3,3 mg/L)

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Acid Red 26	3761-53-3	no use	mg/L	Disperse Orange 3	730-40-5	5	mg/L
Basic Red 9	569-61-9	3,3	mg/L	Disperse Orange 37/59/76	13301-61-6	5	mg/L
Basic Violet 3	548-62-9	3,3	mg/L	Disperse Red 1	2872-52-8	5	mg/L
Disperse Blue 1	2475-45-8	3,3	mg/L	Disperse Yellow 3	2832-40-8	5	mg/L
Disperse Blue 106	12223-01-7	5	mg/L	Solvent Yellow 1	60-09-3	no use	mg/L
Disperse Blue 124	61951-51-7	5	mg/L	Solvent Yellow 2	60-11-7	no use	mg/L
Disperse Blue 35	12222-75-2	5	mg/L	Solvent Yellow 3	97-56-3	no use	mg/L

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, Decabromodiphenyl 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	Limit	Unit	Parameter	CAS No	Limit	Unit
Tetra-, Penta-, Hexa-, Hepta-, Decabromodiphenyl ether - Sum		500	mg/kg	Octabromodiphenyl ether	32536-52-0 et al.	0,1	%
Decabromodiphenyl ether	1163-19-5	-	mg/kg	Pentabromodiphenyl ether	32534-81-9 et al.	-	mg/kg
Heptabromodiphenyl ether	68928-80-3 et al.	-	mg/kg	Polybrominated Biphenyls (PBB)	59536-65-1	no use	mg/kg
Hexabromobiphenyl	36355-01-8 et al.	not detectable	mg/kg	Tetrabromodiphenyl ether	40088-47-9 et al.	-	mg/kg
Hexabromocyclododecane incl. α , β , γ (HBCDD)	25637-99-4	0,01	%	Tri-(2,3-dibromopropyl)-phosphate (TRIS)	126-72-7	no use	mg/kg
Hexabromodiphenyl ether	36483-60-0 et al.	-	mg/kg	Tris-(azoridiny)-phosphinoxid (TEPA)	545-55-1	no use	mg/kg

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Flame retardants (RoHS)

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

EU: Directive 2011/65/EU; Limit PBB, PBDE: 0,1%

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Polybrominated Biphenyls (PBB)	59536-65-1	0,1	%	Nonabromodiphenyl ether	63936-56-1	-	%
Polybrominated diphenyl ether (PBDE)		0,1	%	Octabromodiphenyl ether	32536-52-0 et al.	-	%
Decabromodiphenyl ether	1163-19-5	-	%	Pentabromodiphenyl ether	32534-81-9 et al.	-	%
Heptabromodiphenyl ether	68928-80-3 et al.	-	%	Tetrabromodiphenylether	40088-47-9 et al.	-	%
Hexabromodiphenyl ether	36483-60-0 et al.	-	%	Tribromodiphenyl ether	49690-94-0 et al.	-	%

Fluorinated Greenhouse Gases

Test Method: in-house method, headspace (15 min at 70 °C) and qualitative determination via GC-MSD

EU: Regulation (EU) Nr. 517/2014; Limit: not detectable; refers e.g. to footwear, windows, tyres, refrigerators, freezers, room air-conditioning, spray cans

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Partially Fluorinated Hydrocarbons HFC		not detectable	mg/kg	Sulfurhexafluoride SF6	2551-62-4	not detectable	mg/kg
Perfluorinated Hydrocarbons		not detectable	mg/kg				

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

Test Method: EN ISO 14184-1; EN ISO 17226-1/-2 (textile and leather); EN 717-3, EN 717-1, EN 16516 (derived timber products); EN 645 and EN 1541 (paper)

AT: Formaldehydverordnung; Limit in timber products (Emission): 0,1 ml/m³ (ppm)

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

DE: ChemVerbotsV; Limit in timber products (Emission): 0,1 ml/m³ (ppm)

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

DK: BEK 289 af 22/06/1983; Limit in timber products 0,15 mg/m³

EU: Directive 2001/95/EC; Limits acc. to EN 71-9: textile and paper components: 30 mg/kg; wood: 80 mg/kg

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: Directive 2009/48/EC; Directive 2019/1929; Limits: textiles, leather, paper: 30 mg/kg; derived timber products: 0,1 ml/m³; valid from 21.05.2021

EU: Directive 2009/48/EC; Limit for water-based toy material: 10 mg/kg; valid from 21.05.2021

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

EU: Regulation 2018/1513 amending Annex XVII to Regulation 1907/2006; Limit: 75 mg/kg; Transitional period for jackets, coats, upholstery: Limit 300 mg/kg valid from 01.11.2020 till 01.11.2023

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 begrensning 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

SE: KIFS 2017:7; Limit in timber products: 0,124 mg/m³

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	Limit	Unit	Parameter	CAS No	Limit	Unit
Formaldehyde derived timber products	50-00-0	0,1	ml/m³	Formaldehyde paper		30	mg/kg
Formaldehyde in paper	50-00-0	1	mg/dm²	Formaldehyde	50-00-0	10	mg/kg
Formaldehyde leather		30	mg/kg	Formaldehyde migration	50-00-0	0,375	mg/L
Formaldehyde migration	50-00-0	15	mg/kg				

Formamide

Test Method: CEN ISO/TS 16189 (mod)

EU: Directive 2009/48/EC; Limit for foams: 200 mg/kg; if exceeding this limit an emission limit of 20 µg/m³ is valid

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Formamide	75-12-7	200	mg/kg				

Harmful Substances

Test Method: inhouse-method; Extraction in organic solvent, detection by GC-MSD, identification of gc-capable organic compounds after alignment in a reference mass spectra library, semi quantitative determination

EU: Regulation (EC) 1907/2006; Substances and mixtures which are classified as harmful under regulation (EC) 1272/2008 shall not be used in ornamental articles, tricks, jokes and games.

EU: Regulation (EC) 1907/2006; Substances which are classified as carcinogenic, mutagenic or toxic for reproduction of categorie 1A, 1B or 2 under regulation (EC) 1272/2008 shall not be used as substance, part of other substances or in mixtures above the specific or general concentration limit.

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Harmful Substances acc. to CLP Regulation		no use	%				

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 babys and children <3 years: 60 mg/kg food simulantFR: 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

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Article per surface		10	mg/dm ²	Article per weight food		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

Plastics with food contact have to fulfill the Regulation (EC) No. 10/2011; In this regulation a positive list of allowed substances is given. Some of them are limited by specific migration limits (SML) or total content. Some EU member states, Suisse and Norway do have national regulations with specific limits for substance. The required tests must focus on the recipe of the material.

UK: The United Kingdom has not yet issued any requirements that differ from the EU.

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Substances with spec. migration limit (SML)		see Annex	mg/kg				

Wood preservatives

Test Method: EN 71-9/-10/-11

Test Method: GC-MS / LC-MS Screening

EU: Directive 2001/95/EC, 2009/48/EC; Limits acc. to EN 71-9

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Cyfluthrin	68359-37-5	10	mg/kg	Lindan	58-89-9	2	mg/kg
Cypermethrin	52315-07-8	10	mg/kg	Pentachlorophenol (PCP)	87-86-5	2	mg/kg
Deltamethrine	52918-63-5	10	mg/kg	Permethrin (cis/trans)	52645-53-1	10	mg/kg

Isocyanates

Test Method: inhouse-method; Extraction with organic solvent, LC-MS

EU: Regulation 1907/2006; Limit for mixtures: 0,1%

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Methylene diphenyl diisocyanate (MDI) incl. isomers	26447-40-5 et al.	0,1	%				

Preservatives

Test Method: EN 71-9/-10/-11

Test Method: EN ISO 13365 (mod.)

EU: Directive 2001/95/EC, Richtlinie 2009/48/EC, EN 71-9

EU: Directive 2009/48/EC; Limit: 2-Methylisothiazolin-3(2H)-one 0,25 mg/kg; 5-Chloro-2-methylisothiazolin-3(2H)-one 0,75 mg/kg; reaction mass of: 5-Chloro-2-methyl-4-isothiazolin-3-one und 2-Methyl-2H-isothiazol-3-one 1 mg/kg; 1,2-Benzisothiazol-3(2H)-one 5 mg/kg, valid for aqueous toy materials

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Sum 5-Chlor-2-methyl-4-isothiazolin-3-on + 2-Methyl-4-isothiazolin-3-on		1	mg/kg	5-Chlor-2-methyl-4-isothiazolin-3-on	26172-55-4	0,75	mg/kg
1,2-Benzisothiazol-3-on	2634-33-5	5	mg/kg	Formaldehyde	50-00-0	0,05	%
2-Methyl-4-isothiazolin-3-on	2682-20-4	0,25	mg/kg	Phenol	108-95-2	10	mg/kg

Solvents, inhalation

Test Method: EN 71-9/-10/-11

EU: Directive 2001/95/EC, 2009/48/EC; Limits acc. to EN 71-9

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	2500	µg/m³	n-Hexane	110-54-3	1800	µg/m³
3,5,5-Trimethyl-2-cyclohexen-1-one	78-59-1	200	µg/m³	Nitrobenzene	98-95-3	1	µg/m³
Cyclohexanone	108-94-1	136	µg/m³	Toluene	108-88-3	260	µg/m³
Dichloromethane	75-09-2	3000	µg/m³	Trichlorethylene	79-01-6	1	µg/m³
Ethylbenzene	100-41-4	5000	µg/m³	Xylene (all isomeres)		870	µg/m³

Solvents, migration

Test Method: EN 71-9/-10/-11

EU: Directive 2001/95/EC, 2009/48/EC; Limits acc. to EN 71-9

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Glycol ethers, sum		0,5	mg/L	Dichloromethane	75-09-2	0,06	mg/L
2-Ethoxyethanol	110-80-5	-	mg/L	Ethylbenzene	100-41-4	1	mg/L
2-Ethoxyethyl acetate	111-15-9	-	mg/L	Methanol	67-56-1	5	mg/L
2-Methoxyethyl acetate	110-49-6	-	mg/L	Nitrobenzene	98-95-3	0,02	mg/L
2-Methoxypropyl acetate	70657-70-4	-	mg/L	Toluene	108-88-3	2	mg/L
3,5,5-Trimethyl-2-cyclohexen-1-one	78-59-1	3	mg/L	Trichlorethylene	79-01-6	0,02	mg/L
Bis(2-methoxyethyl)ether	111-96-6	-	mg/L	Xylene (all isomeres)		2	mg/L
Cyclohexanone	108-94-1	46	mg/L				

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

Test Method: EN 455-3

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

DE: ProdSG; LFGB §30; Recommendation of BfR No. XXI.; Recommendation of BfArM; TRSG 401; Limit 30 µg/g

EU: Regulation 2016/425

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Soluble proteins		not detectable	ppm	Soluble proteins in gloves		30	µg/g

Solvents

Test Method: Headspace GC-MS

EU: Regulation (EC) 1907/2006; Limit Toluene and Cyclohexane: 0,1%, valid for mixtures only; Limit Methanol: <0,6% in windscreen washing or defrosting fluids

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Cyclohexane	110-82-7	0,1	%	Toluene	108-88-3	0,1	%
Methanol	67-56-1	<0,6	%				

Metals in batteries

Test Method: Acid digestion and ICP-MS detection

EU: Directive 2006/66/EC, Regulation 2017/852; Limit for Cadmium 0,002%, Mercury 0,0005%; Mandatory marking for Lead from 0,004%

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Cadmium	7440-43-9	0,002	%	Mercury	7439-97-6	0,0005	%
Lead	7439-92-1	0,004	%				

Metals in electronic devices (RoHS)

Test Method: EN 62321

EU: Directive 2011/65/EU; Limits: Lead 0,1%, Cadmium 0,01%, Chromium VI 0,1%, Mercury 0,1%

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Cadmium	7440-43-9	0,01	%	Lead	7439-92-1	0,1	%
Chromium VI		0,1	%	Mercury	7439-97-6	0,1	%

Metals, extractable in hydrochloric acid

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

Test Method: 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)

EU: Directive 2009/48/EC; Directive 2019/1922; Limits depending on toy material category I to III acc. to EN 71-3

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Baby crockery and cutlery		EN 14372	mg/kg	Chromium VI		-	mg/kg
Baby drinking equipment		EN 14350	mg/kg	Cobalt	7440-48-4	-	mg/kg
Heavy metals in toy materials		EN 71-3	mg/kg	Copper	7440-50-8	-	mg/kg
Soother		EN 1400	mg/kg	Lead	7439-92-1	-	mg/kg
Aluminum	7429-90-5	-	mg/kg	Manganese	7439-96-5	-	mg/kg
Antimony	7440-36-0	-	mg/kg	Mercury	7439-97-6	-	mg/kg
Arsenic	7440-38-2	-	mg/kg	Nickel	7440-02-0	-	mg/kg
Barium	7440-39-3	-	mg/kg	Organic tin		-	mg/kg
Boron	7440-42-8	-	mg/kg	Selenium	7782-49-2	-	mg/kg
Cadmium	7440-43-9	-	mg/kg	Strontium	7440-24-6	-	mg/kg
Chromium	7440-47-3	-	mg/kg	Tin	7440-31-5	-	mg/kg
Chromium III		-	mg/kg	Zinc	7440-66-6	-	mg/kg

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Metals, extractable in perspiration

Test Method: EN 16711-2 / EN ISO 17072-1; ISO 11083 / EN ISO 105-E04 (Chromium VI in textile)

CZ: Act No 84/2001; Limits are valid for toys and baby products

Plastic, elastomers, textile: Arsenic 0,2 mg/kg, Lead 0,2 mg/kg, Cadmium 0,1 mg/kg, Mercury 0,02 mg/kg, Chromium total 1 mg/kg, Chromium VI not detectable, Cobalt 1 mg/kg, Copper 25 mg/kg, Nickel 1 mg/kg;

Leather, fur: Arsenic 0,2 mg/kg, Lead 0,2 mg/kg, Cadmium 0,1 mg/kg, Mercury 0,02 mg/kg, Cobalt 1 mg/kg, Copper 25 mg/kg, Nickel 1 mg/kg

EU: Regulation 2018/1513 amending Annex XVII to Regulation 1907/2006; Limit: Cadmium, Chromium VI, Arsenic, Lead: 1 mg/kg each

SK: Decree 635/2005; Limits:

Textile (resp. children/adult): Arsenic 0,2 mg/kg / 1 mg/kg, Cadmium 0,1 mg/kg, Lead 0,2 mg/kg / 1 mg/kg, Copper 25 mg/kg / 50 mg/kg, Chromium 1 mg/kg / 2 mg/kg, Cobalt 1 mg/kg / 4 mg/kg, Nickel 1 mg/kg / 4 mg/kg, Mercury 0,02 mg/kg, Antimon 30 mg/kg

Leather (resp. children/adult): Arsenic 0,2 mg/kg, Cadmium 0,1 mg/kg, Lead 0,8 mg/kg, Mercury 0,02 mg/kg, Chromium total 50 mg/kg / 200 mg/kg, Chromium VI not detectable

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Antimony	7440-36-0	30	mg/kg	Cobalt	7440-48-4	1	mg/kg
Arsenic	7440-38-2	0,2	mg/kg	Copper	7440-50-8	25	mg/kg
Cadmium	7440-43-9	0,1	mg/kg	Lead	7439-92-1	0,2	mg/kg
Chromium	7440-47-3	1	mg/kg	Mercury	7439-97-6	0,02	mg/kg
Chromium from leather	7440-47-3	50	mg/kg	Nickel	7440-02-0	1	mg/kg
Chromium VI		not detectable	mg/kg				

Metals, total content

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

CH (Cadmium): Regulation 817.023.41, Limit: 0,01%

CH (Lead): Regulation 817.023.41, Limit: 0,05%

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

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

EU (Arsenic): Regulation (EC) 1907/2006; Ban of the wood which was treated with arsenic compounds

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 $\leq 0,05 \mu\text{g}/\text{cm}^2/\text{h}$

EU (Mercury): Regulation 1907/2006; no use in wood preservatives and measuring instruments (like thermometers or barometers)

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

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Residues Lead, Cadmium, Antimony, Mercury, Arsenic		1	mg/kg	Lead	7439-92-1	100	mg/kg
Arsenic	7440-38-2	300	mg/kg	Mercury	7439-97-6	10	mg/kg
Cadmium	7440-43-9	75	mg/kg				

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 $\mu\text{g}/\text{cm}^2/\text{week}$

EU: Regulation (EC) 1907/2006; Limit for jewellery or accessories with direct and prolonged skin contact: 0,5 $\mu\text{g}/\text{cm}^2/\text{week}$; assemblies for pierced body parts (piercings): 0,2 $\mu\text{g}/\text{cm}^2/\text{week}$

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Nickel, for piercings	7440-02-0	0,2	$\mu\text{g}/\text{cm}^2/\text{week}$	Nickel	7440-02-0	0,5	$\mu\text{g}/\text{cm}^2/\text{week}$

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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	Limit	Unit	Parameter	CAS No	Limit	Unit
Antimony - fillable articles <1L	7440-36-0	1	mg/article	Antimony	7440-36-0	0,04	mg/kg
Antimony - fillable articles >1L	7440-36-0	1	mg/L	Arsenic	7440-38-2	not detectable	mg/kg
Barium - drinking seam	7440-39-3	0,2	mg/dm ²	Barium	7440-39-3	1	mg/kg
Barium - fillable articles	7440-39-3	1	mg/L	Boron	7440-42-8	1	mg/kg
Barium - fillable articles <1L	7440-39-3	1	mg/article	Cadmium	7440-43-9	0,01	mg/kg
Barium - flatware up to 25 mm	7440-39-3	0,2	mg/dm ²	Cadmium	7440-43-9	3	µg/L
Cadmium - drinking seam		0,002	mg/dm ²	Cer	7440-45-1	1	mg/kg
Cadmium - drinking seam	7440-43-9	0,2	mg/article	Chromium	7440-47-3	0,1	mg/kg
Cadmium - fillable articles	7440-43-9	0,01	mg/L	Cobalt	7440-48-4	0,02	mg/kg
Cadmium - flatware up to 25 mm	7440-43-9	0,002	mg/dm ²	Fluor	7782-41-4	1	mg/kg
Cobalt - drinking seam	7440-48-4	0,05	mg/article	Lead	7439-92-1	0,1	mg/kg
Cobalt - fillable articles	7440-48-4	0,01	mg/L	Lead	7439-92-1	10	µg/L
Cobalt - non-fillable articles	7440-48-4	0,1	mg/dm ²	Lithium	7439-93-2	0,6	mg/kg
Lead - drinking seam		0,02	mg/dm ²	Manganese	7439-96-5	0,6	mg/kg
Lead - drinking seam	7439-92-1	2,0	mg/article	Mercury	7439-97-6	0,005	mg/kg
Lead - fillable articles	7439-92-1	0,1	mg/L	Nickel	7440-02-0	1	mg/kg
Lead - flatware up to 25 mm	7439-92-1	0,02	mg/dm ²	Rubidium	7440-17-7	1	mg/kg
Zinc - fillable articles <1L	7440-66-6	3	mg/article	Selenium	7782-49-2	0,01	mg/kg
Zinc - fillable articles >1L	7440-66-6	3	mg/L	Strontium	7440-24-6	1	mg/kg
Aluminum	7429-90-5	1	mg/kg	Zirconium	7440-67-7	2	mg/kg

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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	Limit	Unit	Parameter	CAS No	Limit	Unit
Cadmium - drinking seam		0,07	mg/dm ²	Chromium VI - fillable articles		0,03	mg/L
Cadmium - drinking seam	7440-43-9	0,2	mg/article	Chromium VI - flatware up to 25 mm		0,005	mg/dm ²
Cadmium - fillable articles	7440-43-9	0,1	mg/L	Cobalt	7440-48-4	0,02	mg/kg
Cadmium - flatware up to 25 mm	7440-43-9	0,07	mg/dm ²	Copper	7440-50-8	4	mg/kg
Lead - drinking seam		0,8	mg/dm ²	Lead	7439-92-1	0,01	mg/kg
Lead - drinking seam	7439-92-1	2	mg/article	Lithium	7439-93-2	0,48	mg/kg
Lead - fillable articles	7439-92-1	1,5	mg/L	Manganese	7439-96-5	1,8	mg/kg
Lead - flatware up to 25 mm	7439-92-1	0,8	mg/dm ²	Mercury	7439-97-6	0,005	mg/kg
Aluminium	7429-90-5	1	mg/kg	Molybdenum	7439-98-7	0,12	mg/kg
Antimony	7440-36-0	0,04	mg/kg	Nickel	7440-02-0	0,14	mg/kg
Arsenic	7440-38-2	not detectable	mg/kg	Rubidium	7440-17-7	1	mg/kg
Barium	7440-39-3	1	mg/kg	Selenium	7782-49-2	0,01	mg/kg
Boron	7440-42-8	1	mg/kg	Silver	7440-22-4	0,08	mg/kg
Cadmium	7440-43-9	0,005	mg/kg	Strontium	7440-24-6	1	mg/kg
Chromium	7440-47-3	0,1	mg/kg	Vanadium	7440-62-2	0,01	mg/kg
Chromium VI - drinking seam		0,015	mg/article	Zinc	7440-66-6	5	mg/kg

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	Limit	Unit	Parameter	CAS No	Limit	Unit
Lanthanides, sum		0,05	mg/kg	Gadolinium	7440-54-2	0,05	mg/kg
Aluminium	7429-90-5	1	mg/kg	Iron	7439-89-6	48	mg/kg
Antimony	7440-36-0	0,04	mg/kg	Lanthan	7439-91-0	0,05	mg/kg
Arsenic	7440-38-2	not detectable	mg/kg	Lead	7439-92-1	not detectable	mg/kg
Barium	7440-39-3	1	mg/kg	Lithium	7439-93-2	0,6	mg/kg
Cadmium	7440-43-9	0,002	mg/kg	Manganese	7439-96-5	0,6	mg/kg
Chromium	7440-47-3	0,01	mg/kg	Mercury	7439-97-6	not detectable	mg/kg
Cobalt	7440-48-4	0,05	mg/kg	Nickel	7440-02-0	0,02	mg/kg
Copper	7440-50-8	4	mg/kg	Terbium	7440-27-9	0,05	mg/kg
Europium	7440-53-1	0,05	mg/kg	Zinc	7440-66-6	5	mg/kg

Metal migration, metallic articles

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

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	Limit	Unit	Parameter	CAS No	Limit	Unit
Aluminium	7429-90-5	10	mg/L	Lead	7439-92-1	0,01	mg/kg
Aluminium	7429-90-5	5	mg/kg	Lead	7439-92-1	10	µg/L
Antimony	7440-36-0	0,04	mg/kg	Lithium	7439-93-2	0,048	mg/kg
Arsenic	7440-38-2	0,002	mg/kg	Manganese	7439-96-5	1,8	mg/kg
Barium	7440-39-3	1,2	mg/kg	Mercury	7439-97-6	0,003	mg/kg
Beryllium	7440-41-7	0,01	mg/kg	Molybdenum	7439-98-7	0,12	mg/kg
Cadmium	7440-43-9	0,005	mg/kg	Nickel	7440-02-0	0,14	mg/kg
Cadmium	7440-43-9	3	µg/L	Silver	7440-22-4	0,08	mg/kg
Chromium	7440-47-3	0,25	mg/kg	Thallium	7440-82-0	0,0001	mg/kg
Cobalt	7440-48-4	0,02	mg/kg	Tin	7440-31-5	100	mg/kg
Copper	7440-50-8	4,0	mg/kg	Vanadium	7440-62-2	0,01	mg/kg
Iron	7439-89-6	40	mg/kg	Zinc	7440-66-6	5,0	mg/kg

Monomers, migration toys

Test Method: EN 71-9/-10/-11

EU (Bisphenol A): Directive 2009/48/EC; Limit for toys for children < 3 years or in other toys intended to be placed in the mouth : 0,04 mg/L (migration)

EU: Directive 2001/95/EC, EN 71-9

EU: Directive 2009/48/EC; migration limit for formaldehyde: 1,5 mg/L; valid from 21.05.2021

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Acrylamide	79-06-1	0,02	mg/L	Phenol	108-95-2	5	mg/L
Bisphenol A / BPA	80-05-7	0,04	mg/L	Styrene	100-42-5	0,75	mg/L
Formaldehyde	50-00-0	1,5	mg/L				

Nitrosamines

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

Test Method: EN 71-12

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 2009/48/EG; Limit Nitrosamines: 0,02 mg/kg (finger paints) and 0,05 mg/kg (toys); Nitrosatable substances: 1 mg/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 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	Limit	Unit	Parameter	CAS No	Limit	Unit
N-Nitrosamines		0,01	mg/kg	N-Nitrosodiisononylamine (NDiNA)	1207995-62-7	-	mg/kg
N-Nitrosamines		1	µg/dm ²	N-Nitrosodiisopropylamine (NDiPA)	601-77-4	-	mg/kg
N-Nitrosatable substances		0,1	mg/kg	N-Nitrosodimethylamine (NDMA)	62-75-9	-	mg/kg
N-Nitrosatable substances		10	µg/dm ²	N-Nitrosodipropylamine (NDPA)	621-64-7	-	mg/kg
N-Nitrosodibenzylamine (NDBzA)	5336-53-8	-	mg/kg	N-Nitrosomorpholine (NMOR)	59-89-2	-	mg/kg
N-Nitrosodibutylamine (NDBA)	924-16-3	-	mg/kg	N-Nitroso-N-ethyl-N-phenylamine (NEPhA)	612-64-6	-	mg/kg
N-Nitrosodiethanolamine (NDELA)	1116-54-7	-	mg/kg	N-Nitroso-N-methyl-N-phenylamine (NMPPhA)	614-00-6	-	mg/kg
N-Nitrosodiethylamine (NDEA)	55-18-5	-	mg/kg	N-Nitrosopiperidine (NPIP)	100-75-4	-	mg/kg
N-Nitrosodiisobutylamine (NDiBA)	997-95-5	-	mg/kg	N-Nitrosopyrrolidine (NPYR)	950-55-2	-	mg/kg

Organophosphates: Flame Retardants

Test Method: EN 71-9/-10/-11

EU: Directive 2001/95/EC, 2009/48/EC; Limit acc. to EN 71-9: toys for children < 3 years: 50 mg/kg

EU: Directive 2009/48/EC; Limit for toys for children < 3 years or toys intended to be placed in the mouth: 5 mg/kg.

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Tri-o-cresylphosphate	78-30-8	50	mg/kg	Tris(2-chlorethyl)-phosphate (TCEP)	115-96-8	5	mg/kg
Tris(1,3-dichloroisopropyl)phosphate (TDCP)	13674-87-8	5	mg/kg	Tris(2-chloroisopropyl)phosphat (TCPP)	13674-84-5	5	mg/kg

Organophosphates: Plasticizer, migration

Test Method: EN 71-9/-10/-11

EU: Directive 2001/95/EC, 2009/48/EC; Limit acc. to EN 71-9: 0,03 mg/L

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Tri-m-cresylphosphate	563-04-2	0,03	mg/L	Tri-p-cresylphosphate	78-32-0	0,03	mg/L
Tri-o-cresylphosphate	78-30-8	0,03	mg/L	Triphenylphosphate	115-86-6	0,03	mg/L

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	Limit	Unit	Parameter	CAS No	Limit	Unit
Organotin, migration		0,1	mg/kg	Diocetyl tin DOT		1000	mg/kg
Trisubstituted organotin compounds, sum		1000	mg/kg	Tributyltin TBT		-	mg/kg
Dibutyltin DBT		1000	mg/kg	Triphenyltin TPhT		-	mg/kg

Ozone depleting substances

Test Method: inhouse-method, Headspace (30 Min, 110°C), GC-MS, semi-quantitative determination against d8-toluene

EU: Regulation (EC) 1005/2009; placing on the market of products that contain controlled substances is prohibited; refers to e.g. fridges, spray cans

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Fluorochlorohydrocarbons (CFC)		not detectable	%	Halons (HC)		not detectable	%

PCB, PCT and halogenated Phenylmethanes

Test Method: EPA M 8270C; 3545

EU: Regulation (EC) 1907/2006; Limits:DBBT, Ugilec 121 or 21, Ugilec 141: not detectable; PCT in mixtures: 50 mg/kg

EU: Regulation 2019/1021; PCB containing articles are prohibited

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Monomethyldichlorodiphenylmethane Ugilec 121 or 21		not detectable	mg/kg	Polychlorinated biphenyls PCB	1336-36-3	not detectable	mg/kg
Monomethyldibromodiphenylmethane DBBT	99688-47-8	not detectable	mg/kg	Polychlorinated terphenyls PCT	61788-33-8	50	mg/kg
Monomethyltetrachlorodiphenylmethane Ugilec 141	76253-60-6	not detectable	mg/kg				

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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	Limit	Unit	Parameter	CAS No	Limit	Unit
Perfluorooctanoic acid PFOA (C8)	335-67-1	0,025	mg/kg	N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulfonamide EtFOSE	1691-99-2	<1	µg/m²
PFOA related substances, sum		1	mg/kg	N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulfonamide EtFOSE	1691-99-2	1000	mg/kg
PFOS (C8), its salts and derivatives, each		<1	µg/m²	N-Ethyl-Perfluorooctansulfonamid EtFOSA (C8)	4151-50-2	<1	µg/m²
PFOS (C8), its salts and derivatives, each		1000	mg/kg	N-Methylperfluorooctanesulfonamide MeFOSA (C8)	31506-32-8	<1	µg/m²
1-Decanaminium, N-decyl-N,N-dimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate	251099-16-8	<1	µg/m²	N-Methylperfluorooctanesulfonamide MeFOSA (C8)	31506-32-8	1000	mg/kg
1-Decanaminium, N-decyl-N,N-dimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate	251099-16-8	1000	mg/kg	N-Methyl-Perfluorooctanesulfonamide EtFOSA (C8)	4151-50-2	1000	mg/kg
1H,1H,2H,2H-Perfluoro-1-decanol 8:2 FTOH	678-39-7	-	mg/kg	Perfluorooctane sulfonate PFOS (C8)	1763-23-1	<1	µg/m²
1H,1H,2H,2H-Perfluorodecanesulfonic acid 8:2 FTS	39108-34-4	-	mg/kg	Perfluorooctane sulfonate PFOS (C8)	1763-23-1	1000	mg/kg
1H,1H,2H,2H-Perfluorodecyl acrylate 8:2 FTA	27905-45-9	-	mg/kg	Perfluorooctane sulfonate PFOS-X (salt or alcohol)(detected as PFOS)	2795-39-9 et al.	<1	µg/m²
1H,1H,2H,2H-Perfluorodecyl methacrylate 8:2 FTMA	1996-88-9	-	mg/kg	Perfluorooctane sulfonate PFOS-X (salt or alcohol)(detected as PFOS)	2795-39-9 et al.	1000	mg/kg
Ethyl perfluorooctanoate Et-PFOA	3108-24-5	-	mg/kg	Perfluorooctanesulfonamide PFOSA (C8)	754-91-6	<1	µg/m²
Methyl perfluorooctanoate Me-PFOA	376-27-2	-	mg/kg	Perfluorooctanesulfonamide PFOSA (C8)	754-91-6	1000	mg/kg
N-(2-Hydroxyethyl)-N-methylperfluorooctanesulfonamide MeFOSE	24448-09-7	<1	µg/m²	Perfluorooctanesulfonyl fluoride PFOSF (C8)	307-35-7	<1	µg/m²
N-(2-Hydroxyethyl)-N-methylperfluorooctanesulfonamide MeFOSE	24448-09-7	1000	mg/kg	Perfluorooctanesulfonyl fluoride PFOSF (C8)	307-35-7	1000	mg/kg

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	Limit	Unit	Parameter	CAS No	Limit	Unit
1,1,1-Trichlor-2,2-bis-(4-chlorophenyl)ethane (DDT) und isomeres	50-29-3	not detectable	mg/kg	Endrine	72-20-8	not detectable	mg/kg
a-Hexachlorocyclohexane	319-84-6	not detectable	mg/kg	Heptachlor	76-44-8	not detectable	mg/kg
Aldrine	309-00-2	not detectable	mg/kg	Hexachlorobenzene	118-74-1	not detectable	mg/kg
b-Hexachlorocyclohexane	319-85-7	not detectable	mg/kg	Hexachlorobutadiene	87-68-3	not detectable	mg/kg
Chlordane cis	5103-71-9	not detectable	mg/kg	Kepone / Chorodecone	143-50-0	not detectable	mg/kg
Chlordane trans	5103-74-2	not detectable	mg/kg	Lindan	58-89-9	not detectable	mg/kg
DDT ortho, para	789-02-6	not detectable	mg/kg	Mirex	2385-85-5	not detectable	mg/kg
d-Hexachlorocyclohexane	319-86-8	not detectable	mg/kg	other Hexachlorocyclohexane (isomers)	608-73-1	not detectable	mg/kg
Dicofol	115-32-2	not detectable	mg/kg	Pentachlorobenzene	608-93-5	not detectable	mg/kg
Dieldrine	60-57-1	not detectable	mg/kg	Polychlorinated naphthalenes		not detectable	mg/kg
Endosulfan alpha	959-98-8	not detectable	mg/kg	Toxaphene	8001-35-2	not detectable	mg/kg
Endosulfan beta	33213-65-9	not detectable	mg/kg				

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	Limit	Unit	Parameter	CAS No	Limit	Unit
Phenylmercury compounds		0,01	%	Phenylmercury neodecanoate	26545-49-3	-	%
Phenylmercury 2-ethylhexanoate	13302-00-6	-	%	Phenylmercury octanoate	13864-38-5	-	%
Phenylmercury acetate	62-38-4	-	%	Phenylmercury propionate	103-27-5	-	%

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Otto Group

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Phthalates - Plasticizers

Test Method: EN ISO 14389 (mod.)

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 crockery 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: Directive 2011/65/EU (RoHS); Limit for DEHP, BBP, DBP, DIBP: each 0,1%

EU: Regulation (EC) 1907/2006; Limit for toys and childcare articles; 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)

EU: Regulation 2018/1513 amending Annex XVII to Regulation 1907/2006; Limit DIHP, DMEP, DIPP, DPP, DHP: 0,1% (each and sum of all limited phthalates through REACh annex XVII)

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
DEHP, DBP, BBP, DIBP (RoHS)		0,1	%	Di-iso-butylphthalate / DIBP	84-69-5	0,1	%
Phthalates in children's articles and toys, each		0,05	%	Di-iso-decylphthalate / DIDP	26761-40-0 et al	0,1	%
Phthalates, sum		0,1	%	Di-iso-nonylphthalate / DINP	28553-12-0 et al	0,1	%
Butylbenzyl phthalate / BBP	85-68-7	0,1	%	Diisopentylphthalate / DIPP	605-50-5	0,1	%
Di-(2-ethylhexyl)-phthalate / DEHP	117-81-7	0,1	%	Di-n-hexylphthalate / DnHP	84-75-3	0,1	%
Di-(2-methoxyethyl)-phthalate / DMEP	117-82-8	0,1	%	Di-n-octylphthalate / DNOP	117-84-0	0,1	%
Dibutyl phthalate / DBP	84-74-2	0,1	%	Di-n-pentylphthalate / DNPP	131-18-0	0,1	%
Di-C6-8-branched alkylphthalates, C7-rich / DIHP	71888-89-6	0,1	%				

pH-value

Test Method: EN ISO 3071 (textiles, down and feathers); EN ISO 4045 (leather)

CZ: Act No 84/2001; Limit for toys and baby products: textile: 4,0 - 7,5; leather: 3,5 - 8,5

EU: Directive 2009/48/EC; Limit in finger paints according to EN 71-7: 4,0 - 10,0; Limit in accessible liquids according to EN 71-9: 3,0 - 10,0

EU: Regulation 2016/425

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
pH-value		4,0 - 9,5	pH	pH-value in textiles		4,0 - 7,5	pH
pH-value in leather		3,5 - 8,5	pH				

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

AT: Chem-VerbotsV; Limit for clay targets: Sum 10 mg/kg

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 2014:01 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 (EC) 1907/2006; No use of extender oils for the production of tyres and parts of them if they exceed the following values: Polycyclic aromatic hydrocarbons PAH - sum: 10 mg/kg or Benzo(a)pyrene: 1 mg/kg.

EU: Regulation 2018/1513 amending Annex XVII to Regulation 1907/2006; Limit: 1 mg/kg (8 cancerogenic PAHs marked with *)

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Sum PAH		10	mg/kg	Benzo(k)fluoranthene*	207-08-9	0,5	mg/kg
Acenaphthene	83-32-9	-	mg/kg	Chrysene*	218-01-9	0,5	mg/kg
Acenaphthylene	208-96-8	-	mg/kg	Dibenzo(a,h)anthracene*	53-70-3	0,5	mg/kg
Anthracene	120-12-7	-	mg/kg	Fluoranthene	206-44-0	-	mg/kg
Benzo(a)anthracene*	56-55-3	0,5	mg/kg	Fluorene	86-73-7	-	mg/kg
Benzo(a)pyrene*	50-32-8	0,5	mg/kg	Indeno(1,2,3-cd)pyrene	193-39-5	-	mg/kg
Benzo(b)fluoranthene*	205-99-2	0,5	mg/kg	Naphthalene	91-20-3	-	mg/kg
Benzo(e)pyrene*	192-97-2	0,5	mg/kg	Phenanthrene	85-01-8	-	mg/kg
Benzo(g,h,i)-perylene	191-24-2	-	mg/kg	Pyrene	129-00-0	-	mg/kg
Benzo(j)fluoranthene*	205-82-3	0,5	mg/kg				

Primary aromatic amines in toys

Test Method: EN 71-7

Test Method: EN 71-9/-10/-11

EU: Directive 2001/95/EC, 2009/48/EC; Limit acc. to EN 71-9: 5 mg/kg

EU: Directive 2009/48/EC; Limits acc. to EN 71-7: Sum of all amines: 20 mg/kg; 10 mg/kg per amine; Benzidine, 2-Naphthylamine, 4-Chlor-2-methylaniline, 4-Aminobiphenyl must not be detectable

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Primary aromatic amines, sum		20	mg/kg	4,4'-Oxydianilin	101-80-4	10	mg/kg
2,4,5-Trimethylaniline	137-17-7	10	mg/kg	4,4'-Thiodianiline	139-65-1	10	mg/kg
2,4-Diaminoanisole	615-05-4	10	mg/kg	4-Amino-3-fluorophenol	399-95-1	10	mg/kg
2,4-Tolylenediamine	95-80-7	10	mg/kg	4-Aminobiphenyle	92-67-1	not detectable	mg/kg
2,4-Xylidine	95-68-1	10	mg/kg	4-Chloro-o-toluidine	95-69-2	not detectable	mg/kg
2,6-Xylidine	87-62-7	10	mg/kg	6-Amino-2-ethoxynaphtaline	293733-21-8	10	mg/kg
2-Amino-4-nitrotoluene	99-55-8	10	mg/kg	Aniline	62-53-3	5	mg/kg
2-Naphthylamine	91-59-8	not detectable	mg/kg	Benzidine	92-87-5	not detectable	mg/kg
3,3'-Dichlorobenzidine	91-94-1	5	mg/kg	o-Aminoazotoluene	97-56-3	10	mg/kg
3,3'-Dimethoxybenzidine	119-90-4	5	mg/kg	o-Anisidine	90-04-0	5	mg/kg
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	10	mg/kg	o-Toluidine	95-53-4	5	mg/kg
3,3'-Dimethylbenzidine	119-93-7	5	mg/kg	p-Chloroaniline	106-47-8	5	mg/kg
4,4'-Diaminodiphenylmethane	101-77-9	10	mg/kg	p-Cresidine	120-71-8	10	mg/kg

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	Limit	Unit	Parameter	CAS No	Limit	Unit
Carcinogenic primary aromatic amines, each		0,002	mg/kg	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	0,002	mg/kg
Primary and secondary aromatic amines, sum		1	mg/kg	4,4'-Oxydianilin	101-80-4	-	mg/kg
Primary aromatic amines, sum		0,01	mg/kg	4,4'-Thiodianiline	139-65-1	0,002	mg/kg
2,4,5-Trimethylaniline	137-17-7	0,002	mg/kg	4-Aminoazobenzene	60-09-3	0,002	mg/kg
2,4-Diaminoanisole	615-05-4	0,002	mg/kg	4-Aminobiphenyle	92-67-1	0,002	mg/kg
2,4-Tolylenediamine	95-80-7	-	mg/kg	4-Chloro-o-toluidine	95-69-2	0,002	mg/kg
2,6-Tolylenediamine	823-40-5	-	mg/kg	Aniline	62-53-3	-	mg/kg
2-Amino-4-nitrotoluene	99-55-8	0,002	mg/kg	Benzidine	92-87-5	0,002	mg/kg
2-Naphthylamine	91-59-8	0,002	mg/kg	m-Phenylenediamine	108-45-2	-	mg/kg
3,3'-Dichlorobenzidine	91-94-1	0,002	mg/kg	o-Aminoazotoluene	97-56-3	0,002	mg/kg
3,3'-Dimethoxybenzidine	119-90-4	0,002	mg/kg	o-Anisidine	90-04-0	0,002	mg/kg
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0,002	mg/kg	o-Toluidine	95-53-4	0,002	mg/kg
3,3'-Dimethylbenzidine	119-93-7	-	mg/kg	p-Chloroaniline	106-47-8	0,002	mg/kg
4,4'-Diaminodiphenylmethane	101-77-9	-	mg/kg	p-Cresidine	120-71-8	0,002	mg/kg

Residual chemicals

Test Method: CEN ISO/TS 16189 (mod); GC-MSD Screening after extraction; solvent extraction GC-MS; EN ISO 13365 (o-Phenylphenol); DIN 54231 (mod.) (Quinoline)

DE: ProdSG; LFGB §30; TRGS 401: Limit for N,N-Dimethylformamide in gloves 10 mg/kg

EU: Directive 2001/95/EC

EU: Regulation (EC) 1907/2006; Limit for toys: 5 mg/kg

EU: Regulation 1907/2006; Limit for 1-Methyl-2-pyrrolidone (NMP) for substances and mixtures: <3000 mg/kg

EU: Regulation 2018/1513 amending Annex XVII to Regulation 1907/2006; Limits: N-Methyl-2-pyrrolidone, Dimethylacetamide, Dimethylformamide: 3000 mg/kg each; Quinoline: 50 mg/kg; Benzene: 5 mg/kg

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Benzene	71-43-2	5	mg/kg	N-Methyl-2-pyrrolidone (NMP)	872-50-4	1000	mg/kg
N,N-Dimethylacetamide	127-19-5	1000	mg/kg	Quinoline	91-22-5	50	mg/kg
N,N-Dimethylformamide	68-12-2	10	mg/kg				

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	Limit	Unit	Parameter	CAS No	Limit	Unit
Extractable Fraction		0,5	%	Volatile substances (VOC)		0,5	%
Peroxides		not detectable	%				

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

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Odour		2,5	Grade	Taste		2,5	Grade

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

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Fastness to saliva and perspiration		5	Grade				

Tar oils from wood preservatives

Test Method: inhouse-method, ultrasonic extraction with toluene (60 min, 60°C), GC-MS

EU: Regulation (EC) 1907/2006; Limit: no use as substance or in mixtures for wood treatment; treated wood may not be placed on the market

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Anthracene oil	90640-80-5	not detectable	%	Distillates (coal tar), Naphthalene oils	84650-04-4	not detectable	%
Creosote	8001-58-9	not detectable	%	Low temperature coal tar alkaline, extract residues	122384-78-5	not detectable	%
Creosote oil	61789-28-4	not detectable	%	Tar acids, coal, crude	65996-85-2	not detectable	%
Creosote oil, acenaphthen fraction	90640-84-9	not detectable	%	Upper coal tar distillates, anthracene oil	65996-91-0	not detectable	%
Creosote, wood	8021-39-4	not detectable	%				

Triclosan

Test Method: EN 13365 (mod.)

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

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Triclosan	3380-34-5	no use	mg/kg				

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	Limit	Unit	Parameter	CAS No	Limit	Unit
Cobalt dichloride in desiccation bags	7646-79-9	no use	%	Chromium VI		-	mg/kg
Dimethylfumarat in desiccation bags	624-49-7	0,1	mg/kg	Lead	7439-92-1	-	mg/kg
Sum Lead, Cadmium, Chromium VI, Mercury		100	mg/kg	Mercury	7439-97-6	-	mg/kg
Cadmium	7440-43-9	-	mg/kg				

Impurities in finger paints

EU: Directive 2009/48/EC; Limits acc. to EN 71-7

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Benzo(a)pyrene*	50-32-8	0,05	mg/kg	Polychlorinated biphenyls PCB	1336-36-3	2	mg/kg
Hexachlorobenzene	118-74-1	5	mg/kg				

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)

EU: Regulation 1907/2006; Use of chloroethene (vinyl chloride) as propellant in aerosols is forbidden

Parameter	CAS No	Limit	Unit	Parameter	CAS No	Limit	Unit
Vinylchloride	75-01-4	0,01	mg/kg				

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Vulcanization accelerator

Test Method: EN 14350; EN 1400

Test method: in-house method; extraction with organic solvent, detection via LC-MS/MS

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	Limit	Unit	Parameter	CAS No	Limit	Unit
Tetramethylenetetramine and Formaldehyde, sum		15	mg/kg	Hexamethylenetetramine	100-97-0	-	mg/kg
Formaldehyde	50-00-0	3	mg/kg	Mercaptobenzothiazole	149-30-4	8	mg/kg

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EU RECh - Ban / Restriction of SVHC's (Applies to own and licensed brands of the Otto Group)

EEA:
SVHC's (substances of very high concern) of the candidate list for annex XIV of the RECh regulation 1907/2006 (https://og2.me/SVHC_list) which is current at the time of order may only be used with a value < 1000 mg/kg (0,1% w/w) in a single article, including its packaging. A product possibly as part of a complex product is defined as follows (EUGH judgement): <https://og2.me/judgement> (wording no. 53 + 54)

CH:
Analogous to EEA, legal base is the chemical regulation ChemV Art. 71 and annex 3.

GB:
Analogous to EEA, legal base is The REACH Enforcement Regulations 2008 (and amendments), shedule 1.

EU Biocidal Products/Treated Articles

EEA:
Products with biocidal finishing (treated articles) have to meet the Biocidal Regulation (EU) 528/2012 regarding admission and labeling.
<http://www.echa.europa.eu/en/web/guest/regulations/biocidal-products-regulation>

CH:
Analogous to EEA. Legal base is the biocidal products regulation VBP.

GB:
Analogous to EEA. Legal base is The Biocidal Products Regulations 2001

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.

Information on Formaldehyde in derived timber products

Accoding to "BAnz AT 26.11.2018 B2 announcement on analytical methods for sample taking and analysis of substances and group of substances mentioned in annex 1 of Chemikalien-Verbotsverordnung" DIN EN 16516 is the new reference method for Formaldehyde in coated and non coated derived timber products since 01.01.2020.
Furthermore DIN EN 717-1 is still approved as additional method but the measured equalization concentration must be multiplied by factor 2,0.

Chlorinated plastics: PVC

Otto Group: No use in textiles, if possible no PVC in hardware (see Doc. 01-20231)

Remarks

This document lists the legal requirements of the EU regarding chemical substances in consumer goods as well as those national requirements which are different from the EU.
Aside from 27 EU countries United Kingdom, Norway and Switzerland are considered. For some parameters - mainly those that are not regulated clearly by the EU law - a specific Otto Group limit value is defined.
The Otto Group limits are definitely obligatory just as the legal limits are.

Definitions

Mod.: Modified test method.

Inhouse method: Not standardized test method.

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.

Area of application

Area of application / Otto Group: Valid for all commercial enterprises of the German Otto Group

Area of application / Countries: EU-Member states, CH, NO, UK

Area of application/ Process: Product definiton - (Pre-)testing - Inspection

Further valid documents

For certain product groups additional documents are vlad in the Otto Group, which are also to be used in its assessment:

Doc. No. 01-20351 Chemical Requirements for Garments
Doc. No. 01-20470 Chemical Requirements for Hometextiles and Beddings
Doc. No. 01-20352 Chemical Requirements for Footwear
Doc. No. 01-20353 Chemical Requirements for Jewelry
Doc. No. 01-20471 Chemical Requirements for Bags
Doc. No. 01-20472 Chemical Requirements for Toys
Doc. No. 01-20492 Chemical Requirements for Hardware
This list is not intended to be exhaustive.

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Disclaimer:

This requirement profile was generated on the basis of appropriate specific legally regulated requirements.
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.
The processing of binding material and preparations may also lead to exceeding the requirements imposed on the components and materials.
Furthermore, the requirements relate only to the product groups presented.
Each individual product requires an individual professional evaluation.
It may be that with the respective product, several product groups can be relevant and further requirements may apply.
Therefore, in case of any overlapping of product groups (eg: product group footwear and product group electronics), it must be ensured that additional standards and regulations must be considered and strictly adhered to.
The pictured cross matrix is not legally binding and is only a recommendation of the Hansecontrol Zertifizierungsgesellschaft mbH.
It is based on legal requirements as well as the best available technology and expertise of Hansecontrol Zertifizierungsgesellschaft mbH.
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