

Toys

2021-05-0002

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

Release date: 21.05.2021

Netto

Update recommended on: 31.05.2022

Hazardous Substances	Coatings (Varnish, polymer)	Printings	Fibres (Natural)	Fibres (Synthetic and blends)	Funct. finishings / Impregnation	Rubber and elastomers	Wood	Adhesives	Plastics	Leather	Metal	Paper / Paperboard	Foams	Packaging	Limit	Unit
Alkylphenols / Alkylphenoethoxylates (AP / APEO)																
Nonylphenoethoxylates NPEO		X	X	X											100	mg/kg
Allergenic fragrances																
Allergenic Fragrances, in general	X	X	X	X	X	X	X	X	X	X	X	X	X	X	100	mg/kg
Aromatic amines																
Free aromatic amines	X	X	X	X	X			X	X			X			not detectable	mg/kg
Azo dyes / Cleavable arylamines																
Azo dyes / Cleavable arylamines		X	X	X						X		X			30	mg/kg
Benzene																
Benzene	X	X		X	X	X	X	X	X				X		5	mg/kg
Chlorinated benzenes and toluenes																
α,α,α,4-Tetrachlorotoluene			X	X											1	mg/kg
Benzotrichloride			X	X											1	mg/kg
Benzyl chloride			X	X											1	mg/kg
Chlorinated paraffins																
Short-chain chlorinated paraffins C10 - C13 (SCCP)	X	X			X	X			X	X			X		1500	mg/kg
Chlorinated phenols																
Pentachlorophenol (PCP)	X	X	X	X	X	X	X	X		X		X	X		0,5	mg/kg
Tetrachlorophenols, sum (TeCP)	X	X	X	X	X	X	X	X		X		X	X		0,5	mg/kg
Trichlorophenols, sum (TriCP)	X	X	X	X	X	X	X	X		X		X	X		0,5	mg/kg
Chromium VI in leather																
Chromium VI										X					<3	mg/kg
Dimethylfumarate																
Dimethylfumarate			X	X	X		X			X		X			0,1	mg/kg
Colorants																
Colorants		X	X	X			X			X		X			10	mg/kg
Dyestuffs																
Basic Red 9		X	X	X											3,3	mg/L
Basic Violet 3		X	X	X											3,3	mg/L
Disperse Blue 1		X		X											3,3	mg/L
Disperse dyestuffs, allergenic		X		X											5	mg/L
Flame retardants																
Hexabromobiphenyl			X	X	X	X		X	X			X			not detectable	mg/kg
Hexabromocyclododecane incl. α, β, γ (HBCDD)			X	X	X	X		X	X			X			0,01	%
Octabromodiphenyl ether			X	X	X	X		X	X			X			0,1	%
Tetra-, Penta-, Hexa-, Hepta-, Decabromodiphenyl ether - Sum			X	X	X	X		X	X			X			500	mg/kg
TRIS, TEPA, PBB			X	X	X										no use	mg/kg
Formaldehyde																
Formaldehyde		X	X	X	X										20	mg/kg
Formaldehyde leather									X						30	mg/kg
Formaldehyde paper												X			30	mg/kg
Formaldehyde derived timber products						X									0,1	ml/m³
Formamide																
Formamide													X		200	mg/kg

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Wood preservatives																
Cyfluthrin							X								10	mg/kg
Cypermethrin							X								10	mg/kg
Deltamethrine							X								10	mg/kg
Lindan							X								2	mg/kg
Pentachlorophenol (PCP)							X								2	mg/kg
Permethrin (cis/trans)							X								10	mg/kg
Preservatives																
1,2-Benzisothiazol-3-on										X					5	mg/kg
2-Methyl-4-isothiazolin-3-on									X						10	mg/kg
5-Chlor-2-methyl-4-isothiazolin-3-on									X						10	mg/kg
Formaldehyde									X						0,05	%
Phenol									X						10	mg/kg
Sum 5-Chlor-2-methyl-4-isothiazolin-3-on + 2-Methyl-4-isothiazolin-3-on									X						15	mg/kg
Solvents, inhalation																
1,3,5-Trimethylbenzene (Mesitylene)	X	X	X	X	X	X	X	X				X			2500	µg/m³
3,5,5-Trimethyl-2-cyclohexen-1-one	X	X	X	X	X	X	X	X				X			200	µg/m³
Cyclohexanone	X	X	X	X	X	X	X	X				X			136	µg/m³
Dichloromethane	X	X	X	X	X	X	X	X				X			3000	µg/m³
Ethylbenzene	X	X	X	X	X	X	X	X				X			5000	µg/m³
n-Hexane	X	X	X	X	X	X	X	X				X			1800	µg/m³
Nitrobenzene	X	X	X	X	X	X	X	X				X			1	µg/m³
Toluene	X	X	X	X	X	X	X	X				X			260	µg/m³
Trichlorethylene	X	X	X	X	X	X	X	X				X			1	µg/m³
Xylene (all isomeres)	X	X	X	X	X	X	X	X				X			870	µg/m³
Solvents, migration																
3,5,5-Trimethyl-2-cyclohexen-1-one	X	X			X	X	X					X			3	mg/L
Cyclohexanone	X	X			X	X	X					X			46	mg/L
Dichloromethane	X	X			X	X	X					X			0,06	mg/L
Ethylbenzene	X	X			X	X	X					X			1	mg/L
Glycol ethers, sum	X	X			X	X	X					X			0,5	mg/L
Methanol	X	X			X	X	X					X			5	mg/L
Nitrobenzene	X	X			X	X	X					X			0,02	mg/L
Toluene	X	X			X	X	X					X			2	mg/L
Trichlorethylene	X	X			X	X	X					X			0,02	mg/L
Xylene (all isomeres)	X	X			X	X	X					X			2	mg/L
Metals, extractable in hydrochloric acid																
Heavy metals in toy materials	X	X	X	X	X	X	X	X	X	X	X	X	X	X	EN 71-3	mg/kg
Metals, extractable in perspiration																
Antimony	X	X	X	X	X			X	X			X			30	mg/kg
Arsenic	X	X	X	X	X			X	X			X			0,2	mg/kg
Lead	X	X	X	X	X			X	X			X			0,2	mg/kg
Cadmium	X	X	X	X	X			X	X			X			0,1	mg/kg
Chromium	X	X	X	X	X			X				X			1	mg/kg
Chromium from leather									X						200	mg/kg
Chromium VI	X	X	X	X	X			X	X			X			not detectable	mg/kg
Cobalt	X	X	X	X	X			X	X			X			1	mg/kg
Copper	X	X	X	X	X			X	X			X			25	mg/kg
Nickel	X	X	X	X	X			X	X			X			1	mg/kg
Mercury	X	X	X	X	X			X	X			X			0,02	mg/kg

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Metals, total content																
Cadmium	X	X				X	X	X	X	X	X				75	mg/kg
Mercury	X	X				X	X	X	X	X	X				10	mg/kg
Metal release / prolonged skin contact																
Nickel											X				0,5	µg/cm ² /week
Monomers, migration toys																
Acrylamide	X					X		X				X			0,02	mg/L
Bisphenol A / BPA	X					X		X				X			0,04	mg/L
Formaldehyde	X					X		X				X			1,5	mg/L
Phenol	X					X		X				X			5	mg/L
Styrene	X					X		X				X			0,75	mg/L
Nitrosamines																
N-Nitrosamines						X									0,01	mg/kg
N-Nitrosatable substances						X									0,1	mg/kg
Organophosphates: Flame Retardants																
Organophosphates	X	X	X	X	X	X			X	X			X		5	mg/kg
Organophosphates: Plasticizer, migration																
Organophosphates	X	X				X	X		X				X		0,03	mg/L
Organotin compounds																
Dibutyltin DBT	X	X	X	X		X	X	X	X	X		X	X		1	mg/kg
Dioctyltin DOT	X	X	X	X		X	X	X	X	X		X	X		1	mg/kg
Monobutyltin MBT	X	X	X	X		X	X	X	X	X		X	X		1	mg/kg
Tributyltin TBT	X	X	X	X		X	X	X	X	X		X	X		0,5	mg/kg
Triphenyltin TPhT	X	X	X	X		X	X	X	X	X		X	X		0,5	mg/kg
Trisubstituted organotin compounds, sum	X	X	X	X		X	X	X	X	X		X	X		1000	mg/kg
Perfluorinated compounds (PFC)																
Perfluorooctanoic acid PFOA (C8)			X	X	X					X					0,025	mg/kg
PFOA related substances, sum			X	X	X					X					1	mg/kg
PFOS (C8), its salts and derivatives, each			X	X	X					X					<1	µg/m ²
Pesticides																
Pesticides			X	X			X			X		X			not detectable	mg/kg
Phenylmercury compounds																
Phenylmercury compounds	X	X				X		X	X				X		0,01	%
Phthalates - Plasticizers																
Phthalates, each	X	X				X	X		X				X		0,05	%
Phthalates, sum	X	X				X	X		X				X		0,1	%
pH-value																
pH-value in leather										X					3,5 - 8,5	pH
pH-value in textiles			X	X											4,0 - 7,5	pH

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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	mg/kg
Benzo(a)pyrene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	mg/kg
Benzo(b)fluoranthene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	mg/kg
Benzo(e)pyrene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<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	mg/kg
Benzo(j)fluoranthene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	mg/kg
Benzo(k)fluoranthene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	mg/kg
Chrysene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	mg/kg
Dibenzo(a,h)anthracene*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<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	mg/kg
Naphthalene	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<1	mg/kg
Sum 15 PAK	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<10	mg/kg
Sum 4 PAK	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<10	mg/kg
Primary aromatic amines in toys																
Primary aromatic amines	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5	mg/kg
Quality - Color fastness																
Fastness to rubbing, wet	X	X	X						X						3	Grade
Fastness to rubbing, perspiration									X						3 - 4	Grade
Fastness to rubbing, dry	X	X	X						X						4	Grade
Fastness to perspiration	X	X	X						X						3 - 4	Grade
Quality - Odour																
Odour	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3	Grade
Residual chemicals																
Quinoline	X	X	X	X	X	X	X	X	X	X	X	X	X	X	50	mg/kg
N,N-Dimethylacetamide	X	X		X	X	X			X				X		3000	mg/kg
N,N-Dimethylformamide	X	X		X	X	X			X				X		3000	mg/kg
N-Methyl-2-pyrrolidone (NMP)	X	X		X	X	X			X				X		3000	mg/kg
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	Grade
Packaging, additional requirements																
Cobalt dichloride in desiccation bags													X		no use	%
Dimethylfumarat in desiccation bags													X		0,1	mg/kg
Sum Lead, Cadmium, Chromium VI, Mercury													X		100	mg/kg
Vinylchloride monomer																
Vinylchloride	X	X			X			X				X			1	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.

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).

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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 Further requirements

Toys Directive	Directive 2009/48/EG
Safety of toys	EN 71-1
Flammability	EN 71-2
Finger paints	EN 71-7
Activity toys	EN 71-8
Trampolines for domestic use	EN 71-14
Electrical toys	EN 62115
Cords and drawstrings	EN 14682
Soother holder	EN 12586
Single-use plastic products	Directive 2019/904, Regulation 2020/2151 (from 03.07.2021)

EU Marking

Name and complete contact address of EU distributor	Directive 2009/48/EC
Marking for identification (e.g. article number)	Directive 2009/48/EC
CE mark	Directive 2009/48/EC
CE declaration of conformity	Directive 2009/48/EC

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.
 Deviant from EU regulations an other conformity mark is mandatory. But from 01.01.2022 it is mandatory.

UKCA mark	UKCA regulations
UKCA declaration of conformity	UKCA regulations

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 the Product Group

This requirement profile refers to all kind of toys: toys for babys (<3 years), toys intended to be mouthed by children, toys worn over mouth or nose, toys which childs can enter. Excluded are toys with preparations (e.g. colour pencils, pens, felt pen, ink, modeling clays and toys with accessible liquids).

For electrical toys further requirements for hardware articles have to be fulfilled. Toys that can be uses with food have to fulfill requirements for food contact materials.

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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					

Allergenic fragrances

Test Method: EN 71-13

EU: Directive 2009/48/EC; Limit: Toys shall not contain allergenic fragrances (traces up to 100 mg/kg allowed)

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
(DL)-Limonene	138-86-3	Cananga odoranta and Ylan-ylan-oil	83863-30-3 et al.	Jasminum grandiflorum/officinale	84776-64-7 et al.
1-(p-Methoxyphenyl)-1-penten-3-one	104-27-8	Carvone	99-49-0 et al.	Juniperus virginiana	8000-27-9 et al.
2,4-Dihydroxy-3-methylbenzaldehyde	6248-20-0	Cedrus atlantica bark oil	92201-55-3 et al.	Laurus nobilis fruit oil	8007-48-5
2-Pentylidene-cyclohexanone	25677-40-1	Chenopodium oil	8006-99-3	Laurus nobilis leaf oil	8002-41-3
3,6,10-Trimethyl-3,5,9-undecatrien-2-one	1117-41-5	Cinnamal	104-55-2	Laurus nobilis seed oil	84603-73-6
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	127-51-5	Cinnamomum cassia leaf oil	8007-80-5	Lavandula hybrida	91722-69-9
3-methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	67801-20-1	Cinnamomum zeylanicum bark oil	84649-98-9	Lavandula officinalis	84776-65-8
4 tert-Butylphenol	98-54-4	Cinnamyl alcohol	104-54-1	Lilial	80-54-6
4-(p-Methoxyphenyl)-3-butene-2-one	943-88-4	cis-beta-Damascone	23726-92-3	Linalool	78-70-6
4,6-Dimethyl-8-tert-butylcoumarin	17874-34-9	Citral	5392-40-5	Linalyl acetate	115-95-7
4-Ethoxy-phenol	622-62-8	Citronellol	106-22-9 et al.	Mentha piperita	8006-90-4 et al.
4-Methoxyphenol	150-76-5	Citrus aurantium amara flower oil	8016-38-4	Mentha spicata	84696-51-5
4-Phenyl-3-buten-2-one	122-57-6	Citrus aurantium amara peel oil	72968-50-4	Menthol	1490-04-6 et al.
5-Methyl-2,3-hexanedione	13706-86-0	Citrus bergamia peel oil expressed	89957-91-5	Methyl heptane carbonate	111-12-6
6,10-Dimethyl-3,5,9-undecatrien-2-one	141-10-6	Citrus limonum peel oil expressed	84929-31-7	Methyl salicylate	119-36-8
6,7-Dihydrogeraniol	40607-48-5	Citrus sinensis (syn.: Aurantium dulcis) peel oil expressed	97766-30-8 et al.	Methyl trans-2-butenolate	623-43-8
6-Isopropyl-2-decahydronaphthalenol	34131-99-2	Costus root oil (Saussurea lappa Clarke)	8023-88-9	Musk ambrette (4-tert-Butyl-3-methoxy-2,6-dinitrotoluene)	83-66-9
6-Methylcoumarin	92-48-8	Coumarin	91-64-5	Narcissus spp.	90064-25-8 et al.
7,11-Dimethyl-4,6,10-dodecatrien-3-one	26651-96-7	Cyclamen alcohol	4756-19-8	Oakmoss extracts	90028-68-5
7-Ethoxy-4-methylcoumarin	87-05-8	Cymbopogon citratus/schoenanthus oils	89998-14-1 et al.	Palargonium graveolens	90082-51-2 et al.
7-Methoxycoumarin	531-59-9	delta-Damascone	57378-68-4	Peru balsam, crude (Exudation of Myroxylon pereirae (Royle)	8007-00-9
7-Methylcoumarin	2445-83-2	Diethyl maleate	141-05-9	Pinus mugo	90082-72-7
Acetylcedrene	32388-55-9	Dihydrocoumarin	119-84-6	Pinus pumila	97676-05-6
Alanroot oil (Inula helenium)	97676-35-2	Dimethyl citraconate	617-54-9	Pogostemon cablin	8014-09-3 et al.
Allylthiocyanate	57-06-7	Dimethylbenzyl carbonyl acetate (DMBCA)	151-05-3	Propylidene phthalide	17369-59-4
alpha-Damascone (TMCHB)	43052-84-5 et al.	Diphenylamine	122-39-4	Rose flower oil (Rosa spp.)	8007-01-0 et al.
alpha-Pinene	80-56-8	d-Limonene	5989-27-5	Rose ketone-4 (Damasconone)	23696-85-7
alpha-Santalol	115-71-9	Ethyl acrylate	140-88-5	Salicylaldehyde	90-02-8
alpha-Terpineol	10482-56-1 et al.	Eucalyptus spp. leaf oil	92502-70-0 et al.	Santalum album	84787-70-2 et al.
Amyl cinnamal	122-40-7	Eugenia caryophyllus leaf/flower oil	8000-34-8	Sclareol	515-03-7
Amyl salicylate	2050-08-0	Eugenol	97-53-0	Terpineol (mixture of isomers)	8000-41-7
Amylcinnamyl alcohol	101-85-9	Farnesol	4602-84-0	Terpinolene	586-52-9
Anisyl alcohol	105-13-5	Fig leaf, fresh and preparations	68916-52-9	Tetramethyl acetyloctahydro naphthalenes	54464-57-2 et al.
Benzaldehyde	100-52-7	Geraniol	106-24-1	trans-2-Heptenal	18829-55-5
Benzyl alcohol	100-51-6	Hexadecanolactone	109-29-5	trans-2-Hexenal diethyl acetal	67746-30-9
Benzyl benzoate	120-51-4	Hexahydrocoumarin	700-82-3	trans-2-Hexenal dimethyl acetal	18318-83-7
Benzyl cinnamate	103-41-3	Hexamethylindanopyran	1222-05-5	trans-Anethole	4180-23-8
Benzyl cyanide	140-29-4	Hexyl cinnamaldehyde	101-86-0	Treemoss extracts	90028-67-4
Benzyl salicylate	118-58-1	Hydroabietyl alcohol	13393-93-6	Trimethyl benzenepropanol (Majantol)	103694-68-4
beta-Caryophyllene (ox.)	87-44-5	Hydroxy-citronellal	107-75-5	Turpentine (oil)	8006-64-2
beta-Pinene	127-91-3	Hydroxy-methylpentylcyclohexene-carboxaldehyde	31906-04-4	Vanillin	121-33-5
beta-Santalol	77-42-9	Isoeugenol	97-54-1	Verbena oil (Lippia citriodora Kunth)	8024-12-2
Camphor	76-22-2, 464-49-3				

Toys

2021-05-0002

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

Release date: 21.05.2021

Netto

Update recommended on: 31.05.2022

Aromatic amines

Test Method: Inhouse-method: Extraction with dichloromethane or tetrahydrofuran, 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-Toluylenediamine	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

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'-Dimethoxybenzidine	119-90-4	4-Chloro-o-toluidine	95-69-2
2,4,5-Trimethylaniline hydrochloride	21436-97-5	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	4-Chloro-o-toluidine chloride	3165-93-3
2,4-Diaminoanisole	615-05-4	3,3'-Dimethylbenzidine	119-93-7	Benzidine	92-87-5
2,4-Diaminoanisole sulphate	39156-41-7	4,4'-Diaminodiphenylmethane	101-77-9	o-Aminoazotoluene	97-56-3
2,4-Toluylenediamine	95-80-7	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	o-Anisidine	90-04-0
2-Amino-4-nitrotoluene	99-55-8	4,4'-Oxydianilin	101-80-4	o-Toluidine	95-53-4
2-Naphthylamine	91-59-8	4,4'-Thiodianiline	139-65-1	p-Chloroaniline	106-47-8
2-Naphthylammoniumacetate	553-00-4	4-Aminoazobenzene	60-09-3	p-Cresidine	120-71-8
3,3'-Dichlorobenzidine	91-94-1	4-Aminobiphenyle	92-67-1		

Benzene

Test Method: Headspace GC-MS

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

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Benzene	71-43-2				

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 1907/2006; Limit for 4-Tetrachlorotoluene, Benzenetrichloride, Benzyl chloride: 1 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Benzotrichloride	98-07-7	Benzyl chloride	100-44-7	α,α,α,4-Tetrachlorotoluene	5216-25-1

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				

Toys

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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

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				

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	Parameter	CAS No	Parameter	CAS No
■ Chromium VI					

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				

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

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 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
■ Basic Red 9	569-61-9	■ Disperse Blue 124	61951-51-7	■ Disperse Orange 37/59/76	13301-61-6
■ Basic Violet 3	548-62-9	■ Disperse Blue 35	12222-75-2	■ Disperse Red 1	2872-52-8
■ Disperse Blue 1	2475-45-8	■ Disperse Orange 3	730-40-5	■ Disperse Yellow 3	2832-40-8
■ Disperse Blue 106	12223-01-7				

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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; Hexabromocyclodocane (incl. α , β , γ): 0,01%; SCCP: 0,15%; Hexabrombiphenyl 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 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; 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

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

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 $\mu\text{g}/\text{m}^3$ is valid

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Formamide	75-12-7				

Wood preservatives

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

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

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
Cyfluthrin	68359-37-5	Deltamethrin	52918-63-5	Pentachlorophenol (PCP)	87-86-5
Cypermethrin	52315-07-8	Lindan	58-89-9	Permethrin (cis/trans)	52645-53-1

Preservatives

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

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

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
1,2-Benzisothiazol-3-on	2634-33-5	5-Chlor-2-methyl-4-isothiazolin-3-on	26172-55-4	Phenol	108-95-2
2-Methyl-4-isothiazolin-3-on	2682-20-4	Formaldehyde	50-00-0		

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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	Parameter	CAS No	Parameter	CAS No
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	Ethylbenzene	100-41-4	Toluene	108-88-3
3,5,5-Trimethyl-2-cyclohexen-1-one	78-59-1	n-Hexane	110-54-3	Trichlorethylene	79-01-6
Cyclohexanone	108-94-1	Nitrobenzene	98-95-3	Xylene (all isomers)	
Dichloromethane	75-09-2				

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

Metals, extractable in hydrochloric acid

Test Method: EN 71-3

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

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 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	Parameter	CAS No	Parameter	CAS No
Antimony	7440-36-0	Chromium from leather	7440-47-3	Lead	7439-92-1
Arsenic	7440-38-2	Chromium VI		Mercury	7439-97-6
Cadmium	7440-43-9	Cobalt	7440-48-4	Nickel	7440-02-0
Chromium	7440-47-3	Copper	7440-50-8		

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Metals, total content

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

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

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
Cadmium	7440-43-9	Mercury	7439-97-6		

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: 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				

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	Parameter	CAS No	Parameter	CAS No
Acrylamide	79-06-1	Formaldehyde	50-00-0	Styrene	100-42-5
Bisphenol A / BPA	80-05-7	Phenol	108-95-2		

Nitrosamines

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

EU: Directive 2009/48/EG; Limit Nitrosamines: 0,02 mg/kg (finger paints) and 0,05 mg/kg (toys); Nitrosatable substances: 1 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
N-Nitrosamines		N-Nitrosodiethylamine (NDEA)	55-18-5	N-Nitrosodipropylamine (NDPA)	621-64-7
N-Nitrosatable substances		N-Nitrosodiisobutylamine (NDiBA)	997-95-5	N-Nitrosomorpholine (NMOR)	59-89-2
N-Nitrosodibenzylamine (NDBZA)	5336-53-8	N-Nitrosodiisononylamine (NDiNA)	1207995-62-7	N-Nitroso-N-ethyl-N-phenylamine (NEPhA)	612-64-6
N-Nitrosodibutylamine (NDBA)	924-16-3	N-Nitrosodiisopropylamine (NDiPA)	601-77-4	N-Nitroso-N-methyl-N-phenylamine (NMPhA)	614-00-6
N-Nitrosodiethanolamine (NDELA)	1116-54-7	N-Nitrosodimethylamine (NDMA)	62-75-9	N-Nitrosopiperidine (NPIP)	100-75-4

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	Parameter	CAS No	Parameter	CAS No
Tri-o-cresylphosphate	78-30-8	Tris(2-chlorethyl)-phosphate (TCEP)	115-96-8	Tris(2-chloroisopropyl)phosphat (TCPP)	13674-84-5
Tris(1,3-dichloroisopropyl)phosphate (TDPCP)	13674-87-8				

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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	Parameter	CAS No	Parameter	CAS No
Tri-m-cresylphosphate	563-04-2	Tri-p-cresylphosphate	78-32-0	Triphenylphosphate	115-86-6
Tri-o-cresylphosphate	78-30-8				

Organotin compounds

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

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-heptadecafluoro-1-octanesulfonate	251099-16-8	Ethyl perfluorooctanoate Et-PFOA	3108-24-5	N-Methyl perfluorooctanesulfonamide MeFOA (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 EtFOA (C8)	4151-50-2	Perfluorooctanesulfonyl fluoride PFOSF (C8)	307-35-7

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		

Toys

2021-05-0002

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

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Netto

Update recommended on: 31.05.2022

Phthalates - Plasticizers

Test Method: EN ISO 14389 (mod.)

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: 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 DIHP, DMEP, DIPP, DPP, DHP: 0,1% (each and sum of all limited phthalates through REACh annex XVII)

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-C6-8-branched alkylphthalates, C7-rich / DIHP	71888-89-6	Diisopentylphthalate / DIPP	605-50-5
Di-(2-ethylhexyl)-phthalate / DEHP	117-81-7	Di-iso-butylphthalate / DIBP	84-69-5	Di-n-hexylphthalate / DnHP	84-75-3
Di-(2-methoxyethyl)-phthalate / DMEP	117-82-8	Di-iso-decylphthalate / DIDP	26761-40-0 et al	Di-n-octylphthalate / DNOP	117-84-0
Dibutyl phthalate / DBP	84-74-2	Di-iso-nonylphthalate / DINP	28553-12-0 et al	Di-n-pentylphthalate / DNPP	131-18-0

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

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

Primary aromatic amines in toys

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

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

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
2-Naphthylamine	91-59-8	3,3'-Dimethylbenzidine	119-93-7	o-Anisidine	90-04-0
3,3'-Dichlorobenzidine	91-94-1	Aniline	62-53-3	o-Toluidine	95-53-4
3,3'-Dimethoxybenzidine	119-90-4	Benzidine	92-87-5	p-Chloroaniline	106-47-8

Quality - Color fastness

Test Method: EN ISO 105 X12, E01, E04; Leather: EN ISO 11641 / 11642 / 11640; dry: 50 cycles, wet and perspiration solution: 20 cycles; 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 for toys and children products made of textile or leather: fastness to rubbing, dry: grade: 4; fastness to rubbing, wet: grade 3; fastness to perspiration: grade 3 - 4

SK: Decree 635/2005; Limits for textiles with skin contact: fastness to rubbing, dry: grade 3-4; fastness to rubbing, wet: grade 2-3; fastness to rubbing, sweat: grade 3; fastness to perspiration: grade 3

Quality - Odour

Test Method: SNV 195 651; Inhouse method: Storage of article (time and temperature according to intended use) and subsequent odour evaluation by 6 test persons.

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)

EU: 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	Parameter	CAS No	Parameter	CAS No
N,N-Dimethylacetamide	127-19-5	N-Methyl-2-pyrrolidone (NMP)	872-50-4	Quinoline	91-22-5
N,N-Dimethylformamide	68-12-2				

Toys

2021-05-0002

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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

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

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

Disclaimer:

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