

Textiles

2021-05-0009

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)	Feathers and downs	Func. finishings / Impregnation	Rubber and elastomers	Wood	Plastics	Leather	Metal	Foams	Packaging	Limit Children	Limit Adult	Unit
<b>Alkylphenols / Alkylphenoethoxylates (AP / APEO)</b>																
Nonylphenoethoxylates NPEO		X	X	X	X									100	100	mg/kg
Octyl- / Nonylphenols (OP, NP) - sum	X	X	X	X	X		X		X	X				10	10	mg/kg
Octyl- / Nonylphenole (OP, NP) and Octyl- / Nonylphenoethoxylates (OPEO, NPEO) - sum	X	X	X	X	X		X		X	X				100	100	mg/kg
<b>Aromatic amines</b>																
Free aromatic amines	X	X	X	X			X		X	X		X		30	30	mg/kg
<b>Azo dyes / Cleavable arylamines</b>																
Azo dyes / Cleavable arylamines		X	X	X						X				30	30	mg/kg
<b>Chlorinated benzenes and toluenes</b>																
α,α,α,4-Tetrachlorotoluene			X	X										1	1	mg/kg
Benzotrichloride			X	X										1	1	mg/kg
Benzyl chloride			X	X										1	1	mg/kg
<b>Chlorinated paraffins</b>																
Short-chain chlorinated paraffins C10 - C13 (SCCP)	X	X				X	X		X	X		X		1500	1500	mg/kg
<b>Chlorinated phenols</b>																
Pentachlorophenol (PCP)	X	X	X	X	X	X	X	X	X		X	X		0,5	0,5	mg/kg
Tetrachlorophenols, sum (TeCP)	X	X	X	X	X	X	X	X	X		X	X		0,5	0,5	mg/kg
Trichlorophenols, sum (TriCP)	X	X	X	X	X	X	X	X	X		X	X		0,5	0,5	mg/kg
<b>Chromium VI in leather</b>																
Chromium VI										X				<3	<3	mg/kg
<b>Dimethylfumarate</b>																
Dimethylfumarate			X	X	X	X		X		X				0,1	0,1	mg/kg
<b>Dyestuffs</b>																
Basic Red 9		X	X	X										3,3	3,3	mg/L
Basic Violet 3		X	X	X										3,3	3,3	mg/L
Disperse Blue 1		X		X										3,3	3,3	mg/L
Disperse dyestuffs, allergenic		X		X										5	5	mg/L
Dyestuffs, carcinogenic		X	X	X										no use		mg/L
<b>Flame retardants</b>																
Hexabromobiphenyl			X	X		X	X		X	X		X		not detectable	not detectable	mg/kg
Hexabromocyclododecane incl. α, β, γ (HBCDD)			X	X		X	X		X	X		X		0,01	0,01	%
Octabromodiphenyl ether			X	X		X	X		X	X		X		0,1	0,1	%
Tetra-, Penta-, Hexa-, Hepta-, Decabromodiphenyl ether - Sum			X	X		X	X		X	X		X		500	500	mg/kg
TRIS, TEPA, PBB			X	X		X	X		X	X		X		no use	no use	mg/kg
<b>Formaldehyde</b>																
Formaldehyde		X	X	X	X	X		X		X				20	75	mg/kg
<b>Harmful Substances</b>																
Harmful Substances acc. to CLP Regulation	X	X	X	X	X	X	X	X	X	X	X	X	X	no use	no use	%
<b>Metals, extractable in perspiration</b>																
Antimony	X	X	X	X			X		X	X		X		30	30	mg/kg
Arsenic	X	X	X	X			X		X	X		X		0,2	0,2	mg/kg
Lead	X	X	X	X			X		X	X		X		0,2	0,8	mg/kg
Cadmium	X	X	X	X			X		X	X		X		0,1	0,1	mg/kg
Chromium	X	X	X	X			X		X			X		1	2	mg/kg
Chromium from leather									X					50	200	mg/kg
Chromium VI	X	X	X	X			X		X	X		X		not detectable	not detectable	mg/kg
Cobalt	X	X	X	X			X		X	X		X		1	4	mg/kg
Copper	X	X	X	X			X		X	X		X		25	50	mg/kg
Nickel	X	X	X	X			X		X	X		X		1	4	mg/kg
Mercury	X	X	X	X			X		X	X		X		0,02	0,02	mg/kg

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<b>Metals, total content</b>																
Lead	X	X						X	X	X	X	X		100	100	mg/kg
Cadmium	X	X						X	X	X	X	X		75	75	mg/kg
Mercury	X	X						X	X	X	X	X		10	10	mg/kg
<b>Metal release / prolonged skin contact</b>																
Nickel											X			0,5	0,5	µg/cm²/week
<b>Organotin compounds</b>																
Dibutyltin DBT	X	X	X	X	X			X	X	X	X	X	X	1	2	mg/kg
Diocetyl tin DOT	X	X	X	X	X			X	X	X	X	X	X	1	2	mg/kg
Tributyltin TBT	X	X	X	X	X			X	X	X	X	X	X	0,5	1	mg/kg
Triphenyltin TPhT	X	X	X	X	X			X	X	X	X	X	X	0,5	1	mg/kg
Trisubstituted organotin compounds, sum	X	X	X	X	X			X	X	X	X	X	X	1000	1000	mg/kg
<b>Perfluorinated compounds (PFC)</b>																
Perfluorooctanoic acid PFOA (C8)			X	X	X					X				0,025	0,025	mg/kg
PFOA related substances, sum			X	X	X					X				1	1	mg/kg
PFOS (C8), its salts and derivatives, each			X	X	X					X				<1	<1	µg/m²
<b>Pesticides</b>																
Pesticides			X	X	X			X		X				not detectable	not detectable	mg/kg
<b>Phenylmercury compounds</b>																
Phenylmercury compounds	X	X						X		X		X		0,01	0,01	%
<b>Phthalates - Plasticizers</b>																
Phthalates, each	X	X					X	X	X			X		0,05		%
Phthalates, sum	X	X					X	X	X			X		0,1	0,1	%
<b>pH-value</b>																
pH-value in leather										X				3,5 - 8,5		pH
pH-value in textiles			X	X										4,0 - 7,5		pH
<b>Polycyclic Aromatic Hydrocarbons PAH</b>																
Benzo(a)anthracene*	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,5	mg/kg
Benzo(a)pyrene*	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,5	mg/kg
Benzo(b)fluoranthene*	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,5	mg/kg
Benzo(e)pyrene*	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,5	mg/kg
Benzo(g,h,i)-perylene	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,5	mg/kg
Benzo(j)fluoranthene*	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,5	mg/kg
Benzo(k)fluoranthene*	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,5	mg/kg
Chrysene*	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,5	mg/kg
Dibenzo(a,h)anthracene*	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,5	mg/kg
Indeno(1,2,3-cd)pyrene	X	X	X	X	X	X	X	X	X	X	X	X	X	<0,2	<0,5	mg/kg
Naphthalene	X	X	X	X	X	X	X	X	X	X	X	X	X	<1	<2	mg/kg
Sum 15 PAK	X	X	X	X	X	X	X	X	X	X	X	X	X	<1	<10	mg/kg
Sum 4 PAK	X	X	X	X	X	X	X	X	X	X	X	X	X	<1	<10	mg/kg
<b>Quality - Color fastness</b>																
Fastness to rubbing, wet	X	X	X							X				3	2 - 3	Grade
Fastness to rubbing, perspiration										X				3 - 4	3	Grade
Fastness to rubbing, dry	X	X	X							X				4	3 - 4	Grade
Fastness to perspiration	X	X	X							X				3 - 4	3	Grade
<b>Quality - Odour</b>																
Odour	X	X	X	X	X	X	X	X	X	X	X	X	X	3	3	Grade

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<b>Residual chemicals</b>																
Benzene	X	X			X	X		X				X		5	5	mg/kg
Quinoline	X	X	X	X	X		X		X	X		X		50	50	mg/kg
N,N-Dimethylacetamide	X	X		X	X	X		X				X		3000	3000	mg/kg
N,N-Dimethylformamide	X	X		X	X	X		X				X		3000	3000	mg/kg
N-Methyl-2-pyrrolidone (NMP)	X	X		X	X	X		X				X		3000	3000	mg/kg
<b>Fastness to saliva and perspiration</b>																
Fastness to saliva and perspiration	X	X	X	X	X		X	X	X	X		X		5		Grade
<b>Packaging, additional requirements</b>																
Cobalt dichloride in desiccation bags													X	no use	no use	%
Dimethylfumarat in desiccation bags													X	0,1	0,1	mg/kg
Sum Lead, Cadmium, Chromium VI, Mercury													X	100	100	mg/kg

**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).

**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**

Flammability	EN 1101/1102/1103 (no surface flash), EN 13772, ASTM D1230, EN ISO 12952-1, BS 5722
Hygiene of down and feathers	NF EN 1162, NF EN 1164, NF EN 12935

**EU Further requirements for children**

Pull-off force of buttons and small parts	EN 17394-2, CEN/TS 17394-1/-3/-4
Mechanical Safety	BS 7907/BS 4162, UNE 40902
Children's sleep bags	EN 16781
Flammability	EN 14878, BS 5722, CEN/TR 13387
Cords and drawstrings	EN 14682

**EU Marking**

Name and complete contact address of EU distributor	Directive 2001/95/EC
Marking for identification (e.g. article number)	Directive 2001/95/EC
Material labeling	Regulation 1007/2011
Care labeling	ISO 3758

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

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

**EU Conformity**

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

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**Definition of the Product Group**

This requirement profile refers to clothing, textile accessories (like scarfs, gloves, hats and caps) or home textiles for the normal everyday use. For special products, e.g., occupational or protective clothing other requirements must be taken into consideration when indicated.

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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		Octylphenoethoxylates OPEO		Octylphenols OP	
Nonylphenols NP					

#### 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		

#### 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	$\alpha,\alpha,\alpha,4$ -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				

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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 Verbrucherprodukten: 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
<span style="color: red;">■</span> 2,3,4,5-Tetrachlorophenol	4901-51-3	<span style="color: yellow;">■</span> 2,3,5-Trichlorophenol	933-78-8	<span style="color: yellow;">■</span> 2,4,6-Trichlorophenol	88-06-2
<span style="color: red;">■</span> 2,3,4,6-Tetrachlorophenol	58-90-2	<span style="color: yellow;">■</span> 2,3,6-Trichlorophenol	933-75-5	<span style="color: yellow;">■</span> 3,4,5-Trichlorophenol	609-19-8
<span style="color: yellow;">■</span> 2,3,4-Trichlorophenol	15950-66-0	<span style="color: yellow;">■</span> 2,4,5-Trichlorophenol	95-95-4	<span style="color: red;">■</span> Pentachlorophenol (PCP)	87-86-5
<span style="color: red;">■</span> 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: &lt;3 mg/kg

Parameter	CAS No	Parameter	CAS No	Parameter	CAS No
<span style="color: red;">■</span> 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
<span style="color: red;">■</span> Dimethylfumarate	624-49-7				

**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
<span style="color: red;">■</span> Acid Red 26	3761-53-3	<span style="color: red;">■</span> Disperse Blue 124	61951-51-7	<span style="color: red;">■</span> Disperse Yellow 3	2832-40-8
<span style="color: red;">■</span> Basic Red 9	569-61-9	<span style="color: red;">■</span> Disperse Blue 35	12222-75-2	<span style="color: red;">■</span> Solvent Yellow 1	60-09-3
<span style="color: red;">■</span> Basic Violet 3	548-62-9	<span style="color: red;">■</span> Disperse Orange 3	730-40-5	<span style="color: red;">■</span> Solvent Yellow 2	60-11-7
<span style="color: red;">■</span> Disperse Blue 1	2475-45-8	<span style="color: red;">■</span> Disperse Orange 37/59/76	13301-61-6	<span style="color: red;">■</span> Solvent Yellow 3	97-56-3
<span style="color: red;">■</span> Disperse Blue 106	12223-01-7	<span style="color: red;">■</span> Disperse Red 1	2872-52-8		

**Flame retardants**

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

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

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

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

## Textiles

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

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Netto

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### Formaldehyd

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: 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 begrensnng 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
Formaldehyd	50-00-0				

### 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.

### 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		

### 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 ≤ 0,05 µg/cm<sup>2</sup>/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	Lead	7439-92-1	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 µg/cm<sup>2</sup>/week

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

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#### 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		Tributyltin TBT		Triphenyltin TPhT	
Diocetyl tin DOT					

#### 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-, 1,1,2,2,3,3,3,4,4,5,5,6,6,7,7,8,8,8-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-Perfluorodecane sulfonic 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)perfluorooctyl sulfonamide EtFOSE	1691-99-2	Perfluorooctanesulfonamide PFOSA (C8)	754-91-6
1H,1H,2H,2H-Perfluorodecyl methacrylate 8:2 FTMA	1996-88-9	N-Ethyl-Perfluorooctanesulfonamid 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		

#### 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 alkyphthalates, 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



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**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

**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

**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
Benzene	71-43-2	N,N-Dimethylformamide	68-12-2	Quinoline	91-22-5
N,N-Dimethylacetamide	127-19-5	N-Methyl-2-pyrrolidone (NMP)	872-50-4		

**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

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The substances or groups of substances are specifically named in laws, ordinances, or other regulations and are subject to corresponding limit values.

In addition, a product that is placed on the market must be safe for the user and the environment.

Therefore, further national and international legal regulations that regulate product safety and those superordinate, must be considered (for example ProdSG, General Product Safety Directive 2001/95/EC). This may lead to further testing requirements regarding additional substances. This is product specific and can be clarified based on a detailed assessment of components and materials.

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