



Articles produced for C&A must meet all European legal restrictions regarding forbidden chemical substances.

RESTRICTED SUBSTANCE	CAS NUMBER	RESTRICTED LIMIT	TESTMETHOD
1 ALKYLPHENOLS (AP) / ALKYLPHENOL ETHOXYLATES (APEO)			
NP [Nonylphenol]	25154-52-3	Not detected	Analysis GC-MS or LC-MS
OP [Octylphenol]	27193-28-8		
NPEO [Nonylphenol Ethoxylates]	9016-45-9	100 mg/kg	
OPEO [Octylphenol Ethoxylates]	9063-89-2		
2 AZO Dyes (Which by reductive cleavage of one or more AZO groups may release one or more amines below)			
4-Aminobiphenyl	92-67-1	20 mg/kg	Textiles: EN 14362-1 (without extraction) EN 14362-2 (with extraction) Leather: ISO/TS 17234
Benzidine	92-87-5		
4-Chloro-o-toluidine	95-69-2		
2-Naphthylamine	91-59-8		
o-Aminoazotoluene	97-56-3		
5-Nitro-o-toluidine	99-55-8		
4-Chloroaniline	106-47-8		
2,4-Diaminoanisole	615-05-4		
4,4'-Diaminodiphenylmethane	101-77-9		
3,3'-Dichlorobenzidine	91-94-1		
3,3'-Dimethoxybenzidine (o-dianisidine)	119-90-4		
3,3'-Dimethylbenzidine	119-93-7		
4,4'-Methylenedi-o-toluidine	838-88-0		
p-Cresidine	120-71-8		
4,4'-Methylene-bis-(2-Chloroaniline)	101-14-4		
4,4'-Oxydianiline	101-80-4		
4,4'-Thiodianiline	139-65-1		
o-Toluidine	95-53-4		
2,4-Toluediamine	95-80-7		
2,4,5-Trimethylaniline	137-17-7		
o-Anisidine	90-04-0		
2,4 Xylidine	95-68-1		
2,6 Xylidine	87-62-7		
4-Aminoazobenzene	60-09-3		LFGB 82-02-9
3 DISPERSE DYES (Which are classified to be allergenic)			
Disperse Blue 1	2475-45-8	Not detected	DIN 54231
Disperse Yellow 3	2832-40-8		
Disperse Blue 3	2475-46-9	5 mg/l	
Disperse Blue 7	3179-90-6		
Disperse Blue 26	3860-63-7		
Disperse Blue 35	12222-75-2		
Disperse Blue 102	12222-97-8		
Disperse Blue 106	12223-01-7		
Disperse Blue 124	61951-51-7		
Disperse Brown 1	23355-64-8		
Disperse Orange 1	2581-69-3		
Disperse Orange 3	730-40-5		
Disperse Orange 37/76/59	13301-61-6		
Disperse Orange 149	85136-74-9		
Disperse Red 1	2872-52-8		
Disperse Red 11	2872-48-2		
Disperse Red 17	3179-89-3		
Disperse Yellow 1	119-15-3		
Disperse Yellow 9	6373-73-5		
Disperse Yellow 23	6250-23-3		
Disperse Yellow 39	12236-29-2		
Disperse Yellow 49	54824-37-2		
4 DYES (Which are classified to be carcinogenic)			
Acid Red 26	3761-53-3	Not detected	DIN 54231
Basic Red 9	569-61-9		
Basic Violet 14	632-99-5		
Direct Red 28	573-58-0		
Direct Black 38	1937-37-7		
Direct Blue 6	2602-46-2		
Disperse Blue 1	2475-45-8		
Disperse Orange 11	82-28-0		
Disperse Yellow 3	2832-40-8		



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5 BIOCIDES				
Triclosan	3380-34-5	Usage ban	Extraction using organic solvent (methylene chloride), determination by GC-MS or LC-MS	
DMFu [Dimethylfumarate]	624-49-7	0.1 mg/kg Usage ban	Extraction using organic solvent (ethylacetate), determination by GC-MS or LC-MS	
Boric Acid	10043-35-3 11113-50-1	0.1 % (1000 mg/kg)	Acid digestion followed by ICP analysis	
6 CHLORINATED ORGANIC CARRIERS				
Chlorobenzenes	Various	1.0 mg/kg (total)	Extraction with dichloromethane, determination by GC-MS	
Chlorotoluenes	Various			
7 CHLORINATED PARAFFINS				
Short-chained chlorinated paraffins (SCCP) (C10 - C13)	85535-84-8	100 mg/kg	Extraction with organic solvent, screening with GC-ECD, determination by GC-MS-NCl	
8 FLAME RETARDANTS				
TRIS [Tris-(2,3-dibromopropyl)-phosphate]	126-72-7	< 50 mg/kg	Extraction with MeOH/ LC-MS	
TEPA [Tris(aziridinyl)-phosphineoxide]	545-55-1		Extraction with KOH/ Headspace/ GC-MS	
PBB [Polybromobiphenyls]	59536-65-1		Solvent extraction, GC-MS	
BDBPT [Bis(2,3-dibromopropylether) of tetrabromobisphenol]	21850-44-2			
BBP [Bis(2,3-dibromopropyl)phosphate]	5412-25-9			
OctaBDE [Octabromodiphenyl Ether]	32536-52-0			
PentaBDE [Pentabromodiphenyl Ether]	32534-81-9			
DecaBDE [Decabromodiphenyl Ether]	1163-19-5			
HBCDD [Hexabromocyclododecane]	25637-99-4			
TCEP [Tris-(2-chloroethyl)-phosphate]	115-96-8			
Boric Acid	10043-35-3 11113-50-1	0.1 % (1000 mg/kg)	Acid digestion followed by ICP analysis	
9 FORMALDEHYDE				
Formaldehyde	50-00-0	16 mg/kg	Textiles : baby articles	Japanese Law 112
		75 mg/kg	Textiles : with direct skin contact	
		300 mg/kg	Textiles : without direct skin contact	
		50 mg/kg	Leather & Shoes : children <36 months	ISO/TS 17226-1, analysis with HPLC
		150 mg/kg	Leather & Shoes	
10 HEAVY METALS - EXTRACTABLE				
Antimony	7440-36-0	30 mg/kg	all articles	Extraction with acid perspiration according to DIN EN ISO 105-E04
Arsenic	7440-38-2	0.2 mg/kg	Babywear	
		1.0 mg/kg	With/ without direct skin contact	
Cadmium	7440-43-9	0.1 mg/kg	all articles	
Chromium	7440-47-3	1.0 mg/kg	Babywear	
		2.0 mg/kg	With/ without direct skin contact	
Cobalt	7440-48-4	1.0 mg/kg	Babywear	
		4.0 mg/kg	With/ without direct skin contact	
Copper (no requirement for accessories from inorganic materials, i.e. metal, glass, ceramic)		25 mg/kg	Babywear	
		50 mg/kg	With/ without direct skin contact	
Lead	7439-92-1	0.2 mg/kg	Babywear	
		1.0 mg/kg	With/ without direct skin contact	
Mercury	7439-97-6	0.02 mg/kg	all articles	
Nickel	7440-02-0	1.0 mg/kg	Babywear	
		4.0 mg/kg	With/ without direct skin contact	
11 HEAVY METALS - EXTRACTABLE Applicable for toy materials and accessories/ components on children's clothing (size 44 till size 182) (e.g. lead crystal, zippers, buttons, beads, jewellery, ...)				
Antimony	7440-36-0	60 mg/kg	Extraction with simulated gastric solution acc. to EN 71-3	
Arsenic	7440-38-2	25 mg/kg		
Barium	7440-39-3	1000 mg/kg		
Cadmium	7440-43-9	75 mg/kg		
Chromium	7440-47-3	60 mg/kg		
Lead	7439-92-1	90 mg/kg		
Mercury	7439-97-6	60 mg/kg		
Selenium	7782-49-2	500 mg/kg		



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11A HEAVY METALS - TOTAL CONTENT & RELEASABLE				
Cadmium	7440-43-9	Usage ban 100 mg/kg	for polymers for jewellery	EN 1122
Chromium VI	18540-29-9	3 mg/kg		DIN EN ISO 17075
Lead	7439-92-1	90 mg/kg	after aging procedure Textiles, leather, plastic, electronics, packaging	Aging conditions : 24 H/ 80 degrees C./ 20% r.H. Total metal content by microwave digestion
Nickel	7440-02-2	0.2 µg/cm ² /week	In metal products or parts of products intended to be used for body piercings	Nickel release by EN 1811 Abrasion of coated items by EN 12472
		0.5 µg/cm ² /week	In metal products or parts of products in direct and prolonged skin contact	Nickel release according to EN 16128 Abrasion of coated items by EN 12472
			Spectacle frames and sunglasses intended to come into close and prolonged contact with the skin	
	Nickel indication		Rubbing test by CR 12471	
Cobalt dichloride (only for desiccants)	7646-79-9	1 mg/kg Usage ban		Microwave digestion followed by ICP/MS, calculated from the cobalt content
12 ISOCYANATES				
HDI [Hexamethylene diisocyanate]	822-06-0	50 mg/kg		DIN EN 13130-8 (BVL B 80.30-26) Sample preparation: 30 minutes ultrasonic extraction with methylen- chloride (40°C) followed by HPLC detection
IPDI [Isophorone diisocyanate]	4098-71-9	20 mg/kg		
TDI [2,4-Toluene diisocyanate]	584-84-9	5 mg/kg		
TDI [2,6-Toluene diisocyanate]	91-08-7	5 mg/kg		
MDI [Diphenylmethane diisocyanate]	101-68-8	5 mg/kg		
TMXD [Tetramethylxylene diisocyanate]	2778-42-9	20 mg/kg		
13 ORGANOTIN COMPOUNDS				
DBT [Dibutyltin]	1448-53-0	1.0 mg/kg	baby articles	Extraction with ethanol/ dithioethylcarbamate, determination acc. to ISO 17353
		2.0 mg/kg	all other articles	
DOT [Dioctyltin]		1.0 mg/kg	baby articles	
		2.0 mg/kg	all other articles	
TBT [Tributyltin]	56573-85-4	0.5 mg/kg	baby articles	
		1.0 mg/kg	all other articles	
TPhT [Triphenyltin]	668-34-8	0.5 mg/kg	baby articles	
		1.0 mg/kg	all other articles	
14 pH VALUE				
pH value		4.0 - 7.5	baby articles	Textiles : ISO 3071 Leather : ISO 4045
			articles with direct skin contact	
		4.0 - 9.0	articles without direct skin contact	
15 PHENOLS				
PCP [Pentachlorophenol]	87-86-5	0.5 mg/kg		Printed Polyester : 1. extraction with ASE or alkaline extraction 2. sample preparation according to method Par. 64 LFGB 82.02-08 3.determination according to method Par. 64 LFGB 82.02-08 with GC-MS Textiles and Leather : 1. extraction and sample preparation acc. to method Par. 64 LFGB 82.02-08 2. determination according to method Par. 64 LFGB 82.02-08 with GC-MS
TeCP [Tetrachlorophenol]	58-90-2			
	935-95-5 4901-51-3			
OPP [o-Phenylphenol]	90-43-7	50 mg/kg		
16 PHTHALATES (This restriction is valid for all articles, for all ages and whether or not designed for, or indeed capable of, being placed in the mouth)				
DIBP [Di-isobutyl phthalate]	84-69-5	0.1 % (1000 mg/kg)	The sum of 11 Phthalates may not exceed the limit	Extraction with organic solvents, analysis with GC/LC-MS
DINP [Di-isononyl phthalate]	28553-12-0			
DEHP [Di(ethylhexyl) phthalate]	117-81-7			
DNOP [Di-n-octyl phthalate]	117-84-0			
DIDP [Di-iso-decyl phthalate]	26761-40-0			
BBP [Butyl benzyl phthalate]	85-68-7			
DBP [Dibutyl phthalate]	84-74-2			
DHNUP [Di(C7-C11 alkyl) phthalate] linear + branched	68515-42-4			
DIHP [Di(C6-C8 alkyl) phthalate] branched	71888-89-6			
BMEP [Bis(2-methoxyethyl) phthalate]	117-82-8			
DHP [Di-n-hexyl phthalate]	84-75-3			



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17 PERFLUORINATED ALKYLATED SUBSTANCES			
PFOS [Perfluoro-octane sulphonate]	2795-39-3	1 µg/m ²	on textiles and other coated materials
PFOA [Perfluoro-octanoic acid]	335-67-1		Solvent extraction, analysis by LC-MS
18 POLYCYCLIC AROMATIC HYDROCARBONS (PAH)			
Benzo[a]pyrene	50-32-8	1.0 mg/kg	for all products
Sum of 18 PAH*		10 mg/kg	for all products
Solvent extraction, analysis by GC-MS, DIN ISO 18287			
* Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)pyrene, Benzo(e)pyrene, Dibenzo(a,h)anthracene, Benzo(b)fluoranthene, Benzo(j)fluoranthene, Benzo(k)fluoranthene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Phenanthrene, Pyrene, Benzo(a)anthracene, Benzo(g,h,i)perylene, Chrysene			
19 POLYMERS & POLYMER AUXILIARIES			
Polystyrene	9003-53-6	Not to be used	components made of polystyrene which are intended to be dry cleaned
Polyvinyl chloride	9002-86-2	Forbidden in all clothing (Men, Women, Juvenile)	ISO 3175-1
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	20 mg/kg	Beilsteintest/ Infrared Spectroscopy (FTIR)
BPA [Bisphenol A]	80-05-7	Usage ban	for pacifiers and teethingers
Solvent extraction followed by LC-DAD-MS and/ or LC-Q-TOF			
20 SOLVENTS (VOC)			
Benzene	71-43-2	1 mg/kg	GC-MS Headspace
Ethylbenzene	100-41-4	20 mg/kg	
Styrene	100-42-5	10 mg/kg	
Toluene	108-88-3	5 mg/kg	
Xylene	1330-20-7	20 mg/kg	
Orthoxylene	95-47-6	20 mg/kg	
Metaxylene	108-38-3	20 mg/kg	
Paraxylene	106-42-3	20 mg/kg	
Trichloroethylene	79-01-6	50 mg/kg	
Tetrachloroethylene	127-18-4	20 mg/kg	
Cyclohexanone	108-94-1	100 mg/kg	
MEK [Methyl-Ethyl-Ketone]	78-93-3	100 mg/kg	
DMFa [N,N-Dimethylformamide]	68-12-2	30 mg/kg	
Naphthalene	91-20-3	10 mg/kg	
2-Ethoxyethylacetate	111-15-9	1000 mg/kg	
1-Methyl-2-pyrrolidone	872-50-4	1000 mg/kg	
1,2,3-Trichloropropane	96-18-4	1000 mg/kg	
Acetophenone	98-86-2	20 mg/kg	
2-Phenyl-2-propanole	617-94-7	20 mg/kg	
1,2-Dichloroethane	107-06-2	1000 mg/kg	
Bis-(2-methoxyethyl)ether	111-96-6	1000 mg/kg	
DMAC [N,N-dimethylacetamide]	127-19-5	1000 mg/kg	
21 N-NITROSAMINE & N-NITROSAMINE CONVERTIBLE SUBSTANCES			
N-Nitrosamine	various	0.01 mg/kg	for a) silencer (e.g. teethingers) and baby - soother from elastomer or rubber, b) toys from natural or synthetic rubber (e.g. balloons) for child < 36 months, which are intended to take into the mouth
N-Nitrosamine convertible substances	various	0.1 mg/kg	Solvent extraction followed by GC-TEA