

List of restricted Substances for Europeans Customer

Purpose

The following list of chemical substances describes legal respectively customer requirements and restrictions in terms of limits to adhere.

Note:

All legal directives and standards mentioned in this document are a subject of change in terms of new releases by the Customer requirements
Hence this document cannot be used as a reference for latest legal norms and directives.
Latest legal norms and directives must be verified in any case from official sources

Substance	CAS No	Requirement	Limit	Remark
Flame retardants				
Polybromobiphenyls (PBB)		2011/65/EC RoHS	1000mg/kg	
Brominated biphenyl ether (PBDE)		2011/65/EC RoHS	1000mg/kg	
Hexabromocyclododecane (HBCDD)	25637-99-4	1907/2006 REACH	<0,1% per article	<0,1% per component
Tris-(2,3-dibromopropyl-) Phosphate (TRIS)	126-72-7	1907/2006 Annex XVII (76/769/EEC)	No use of	No use of
Tris-(aziridinyl)-phosphin oxide (TEPA)	5455-55-1	1907/2006 Annex XVII (76/769/EEC)	No use of	No use of
Bis-(2,3-dibromopropylether) of Tetrabromobisphenol (BDBPT)	21850-44-2	1907/2006 Annex XVII (76/769/EEC)	No use of	No use of
Bis(2,3-dibromopropyl) phosphate	5412-25-9	1907/2006 Annex XVII (76/769/EEC)	No use of	No use of

TinOrganicCompounds				
Monobutyltin(MBT)			1,0 mg/kg	
Dibutyltin(DBT)	1002-53-5 77-58-7		1,0 mg/kg	
Tributyltin	56573-85-4 1461-22-9- 688-73-3	1907/2006 REACH	0,5 mg/kg	

Metal				
Chromium VI	18450-29-9	2011/65/EC RoHS Fake leather	1000 mg/kg <3 mg/kg	
Mercury and his compounds	7439-97-6	RoHS BatteryVO (BattG)	1000 mg/kg 0,0005%	
Lead	7439-92-1	2011/65/EC RoHS BatteryVO (BattG)	1000 mg/kg 0,004%	
Cadmium and his compounds	7440-43-9	2011/65/EC RoHS BatteryVO (BattG)	100 mg/kg 0,002%	
Arsenic		1907/2006 REACH	<0,1 %	
Nickel		1907/2006 REACH	Nickel-rubbing-test <0,5µg/cm2/week	All metal surfaces with longer skin contact

PAH		GS mark AfPS GS 2014:01PAK (18 PAH) Mandatory from 01.07.2015	GS Carcinogenic PAH (10)	GS Non-carcinogenic PAH (7)	REACH 1907/2006 EU PAK (8)
Naphthalene	91-20-3	x			
Acenaphthalene	83-32-9	x		x	
Fluorene	86-73-7	x		x	
Phenanthrene	85-01-8	x		x	
Anthracene	120-1 2-7	x		x	
Fluoranthene	206-44-0	x		x	
Pyrene	129-00-0	x		x	
Acenaphthylene	208-96-8	x		x	
Chrysene	218-01-9	x	x		x
Indenol(1,2,3-cd)pyrene	193-39-5	x	x		
Benzo(b)fluoranthene	205-99-2	x	x		x
Benzo(k)fluoranthene	207-08-9	x	x		x
Dibenz(a,h)anthracene	53-70-3	x	x		x
Benzo(g,h,i)perylene	191-24-2	x	x		
Benzo(a)anthracene	56-55-3	x	x		x
Benzo(j)fluoranthene	205-82-3	x	x		x
Benzo(e)pyrene	192-97-2	x	x		x
Benzo(a)pyrene	50-32-8	x	x		x

Parameter	Category 1	Category 2		Category 3	
		Values in mg/kg	Other Products according to ProdSG	Values in mg/kg	Other Products according to ProdSG
	Materials, intended to be put into the mouth, or materials in toys with longer-term skin contact in their intended use (longer than 30 s)	Materials, that do not fall into category 1, with foreseeable skin contact of longer than 30s (longer-term skin contact) or repeated short-term skin contact		Materials that do not fall into category 1 or 2, with foreseeable skin contact up to 30s (short-term skin contact)	
Values in mg/kg		Toys according to Directive 2009/48/EG	Other Products according to ProdSG	Toys according to Directive 2009/48/EG	Other Products according to ProdSG
Carcinogenic PAH	< 0,2	< 0,2	<0,5	<0,5	<1
Non carcinogenic PAH Sum	<1	<5	<10	<20	<50
Naphthalene	<1	<2		<10	
Sum 18 PAH	<1	<5	<10	<20	<50

Chlorinated Phenols				
Pentachlorophenol (PCP)	87-86-5	ChemVerbots VO	0,5mg/kg	
Tetrachlorophenol (TeCP)	935-95-5 4901-51-3	Common requirements		
Trichlorophenol (TriCP)	25167-82-2	Common requirements		

Azo Dyes				
(4)p-aminoazobenzene	60-09-3	2002/61/EG Aldi 1907/2006 REACH	<30mg/kg	
Disperse Dyeses & carcinogenic Dyestuffs				
		§ 64 LFGB B 82.02-10 DIN 54321	<75mg/kg	

Plasticizer (phthalates)				
DEHP	117-81-7	1907/2006 REACH	<0,1% per article	<0,1% per component
DMEP	117-82-8	1907/2006 REACH	<0,1% per article	<0,1% per component
DPP	131-18-0	1907/2006 REACH	<0,1% per article	<0,1% per component
DBP	84-74-2	1907/2006 REACH	<0,1% per article	<0,1% per component
DiPP	605-50-5	1907/2006 REACH	<0,1% per article	<0,1% per component
PiPP	776297-69-9	1907/2006 REACH	<0,1% per article	<0,1% per component
DnHP	84-75-3	1907/2006 REACH	<0,1% per article	<0,1% per component
BBP	85-68-7	1907/2006	<0,1% per article	<0,1% per component
DIBP	84-69-5	1907/2006 REACH	<0,1% per article	<0,1% per component
DHNUP	68515-50-4	1907/2006 REACH	<0,1% per article	<0,1% per component
DIHP	71888-89-6	1907/2006 REACH	<0,1% per article	<0,1% per component
1,2 Benzendicarboxylic acid, dipentyester, branched and linear	84777-06-0	1907/2006 REACH	<0,1% per article	<0,1% per component

Plasticizer (phthalates), Restriction by toys and long skin contact (articles like ear phones, BPMs, toys, headsets etc.) permitted use for PVC-power cords				
Substance	CAS No	Requirement	Limit	Remark
DINP	28553-12-0	ALDI-SÜD 1907/2006 REACH	<0,1% per component	Restriction by toys and long skin contact
DIDP	26761-40-0	ALDI-SÜD 1907/2006 REACH	<0,1% per component	Restriction by toys and long skin contact
DNOP	117-84-0	ALDI-SÜD 1907/2006 REACH	<0,1% per component	Restriction by toys and long skin contact
DPHP	53306-54-0	LGA tested Toys	<0,1% per component	Criteria catalogue of LGA for toys

Formaldehyde (Textile, Leather)	50-00-0	BGVO	1500 mg/kg	
Formaldehyd (wood)	50-00-0	76/769/EEC	0,1 ml/m3	
Chlorinated organic carriers		§30 LFGB	10mg /kg	
SCCP Short-chain chlorinated paraffins (C10 to C13)	85535-84-8	1907/2006 REACH ALDI-SÜD 519/2012 (EU)	0,1%	0,1% per component
Alkylphenoethoxylates		2003/53/EC 1907/2006 REACH		
Nonylphenol ethoxylates	9016-45-9 26027-38-3 68412-54-4 127087-87-0 37205-87-1		0,1%	
Nonylphenol		ALDI-SÜD Hofer	0,01%	
Octylphenol ethoxylates	9002-93-1 9036-19-5 68987-90-6		0,1%	
Octylphenol		Hofer	0,01%	
PFOS Perfluorooctane sulfonate	1763-23-1	2006/122/EC	0,1% 1µg/m2 textile	
VOC - Volatile organic compounds	Only low smell permitted			
ECHA Candidate list SVHC update version see http://echa.europa.eu/candidate-list-table		1907/2006 REACH	0,1% per article	0,1% per component
Dimethylfumarat Fake leather, biocide	624-49-7	2009/251/EG	0,1mg/kg	
Cobalt 60 activity Stainless steel with food contact	7440-48-4	ALDI	500µBq/g	