

4.2 - Product Specific Requirements (PSR) Chemicals

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4.2.1 Introduction and definitions

This chapter covers requirements for chemical substances of certain concern as they are hazardous and sometimes also regulated. These chemical substances are restricted in products and packaging as delivered to Kid/Hemtex.

Please also note Appendix 4.1 "PSR Quality" regarding restricted substances for food-safe products, EE products, and paper products.

Definitions

Requirements for substances are given in the form of tables as in the example shown below. Headings of columns are given also as below:

Chemical substance	CAS RN	Limit value (mg/kg)	Test method	Target material(s) / Use

Chemical substance

International recognized name of chemical substance or group of substances.

CAS RN, Chemical Abstract Services Registration Number

CAS RN are given for specifically defined chemical substances. Note that some requirements are given for a group or category of substances, where no single CAS RN may be given.

The CAS number included may be for the anhydrous form only, and therefore the CAS No shown does not always describe the entry accurately. See http://echa.europa.eu/

Limit value

A. Total content

Requirements for chemical substances are given as limit values, as measured and calculated in mg/kg from the weight of tested material or component, if not stated differently. Composite testing may be used only if approved by Kid/Hemtex, for complex articles where limit values and analytical method allow.

Limits may be relating to legal limits, or as agreed in business sector. Requirements are given with digits and/or less than digits also taking into account the possible unintended contamination of materials.

B. Migration limit/Extractable limit

For some requirements due to legal reasons, the limit value is given as maximum acceptable migration or extraction of a substance, as tested by the standard. This is the case for food contact materials and toys, but also for example, nickel in skin contact.

C. In case of conflict with eco label criteria:

If the Kid/Hemtex requirement is stricter, then the Kid/Hemtex requirement shall supersede the eco label criteria.

Test Method

Test method is given by one of the following:

- A. International ISO or CEN standardized test method if such exists. Note that the latest edition of every standard shall be used.
- B. Test equipment if no standardized test method exists.
- C. No information given, please check available test method with lab.

Target material(s) / Use

The target material(s) is defined as the type of material(s) where the chemical substance is most likely to be found. Note that this information is only given as guidance. The requirements are valid for all materials. When known, the most relevant use is given for information.



Test equipment abbreviations

GC= Gas chromatography: analyses of organic compounds

Detectors used together with GC:
MS: Mass selective detector: GC-MS
DAD: Diode array detector: GC-DAD
ECD: Electron capture detector: GC-ECD

LC= Liquid chromatography: analyses of organic compounds

HPLC= High Performance Liquid Chromatography.

Detectors used together with LC:
MS: Mass selective detector: LC.MS
DAD: Diode array detector: LC-DAD
ECD: Electron capture detector: LC-ECD

UV/VIS: Ultraviolet/visible spectrophotometric detector: LC-UV/VIS

ICP= Inductively Coupled Plasma Spectrometry: analyses of metals

Detectors together with ICP:

OES: Optical emission spectrometer: ICP-OES

MS: Mass selective detector: ICP-MS Atomic absorption spectrophotometer: AAS

XR= X-ray fluorescence: screening analyses of elements

Guidance on relationship between units

1000	mg/kg	equals	1000	ppm	(parts per million)
			1 000 000	μg/kg	(microgram per kilogram)
			0.1	%	(by weight)
			x	μg/m2	x depends on the thickness of the fabric (kg/m2)
			х	μg/cm2/week	x is a measure of the release of a substance from a surface, and is only partially dependent on the concentration of the substance



4.2.2 General chemical requirements

The supplier is responsible to produce and deliver products and packaging without using and/or having chemical substances that are restricted or prohibited as a result of national or international regulations, or of environmental and/or health concerns. Note that all amendments of all legislation shall be followed. It is the supplier's responsibility to keep updated with the latest legal requirements at all times. This list below is not exhaustive. **Note:** Kid/Hemtex requirements for substances listed in the REACH candidate list must be followed.

Legislation, Policy	Kid/Hemtex Requirements.
General Product Safety Regulation (GPSR) 2023/988 LOV-1976-06-11-79	All products must comply with the EU Regulation 2023/988 and LOV-1976-06-11-79 concerning general product safety. Only safe products, i.e. that do not pose a threat to people's health, property or the environment, shall be supplied to the Kid/Hemtex. This assessment
Lov om kontroll med produkter og forbrukertjenester (produktkontrolloven) Note: Certain products in the sleep	shall be based on a risk analysis.
environment of children - shall fulfill and be tested to fulfill the req. in Decision 2010/376/EU	
Regulation 2025/40 Packaging and Packaging Waste (PPWR)	Full compliance with the Packaging and Packaging Waste Regulation (EU) 2025/40.
Batteries Directive 2006/66/EC as amended; and Regulation (EU) 2023/1542 on Batteries	Full compliance with Directive and new Regulation (EU) 2023/1542 on Batteries. See also the specific Kid/Hemtex requirements for primary batteries in Appendix 4.1, "PSR Quality" chapter 4.1.10 (Specific requirements for EE-products).
Regulation (EU) 528/2012 as amended Biocidal Products	Full compliance with regulation. Note transitional period for certain provisions. Kid/Hemtex does not accept any of its products having: - Antibacterial substances as additives if the active substances remain in the finished product as delivered. - Anti mould finishes Biocides used in production, storage, or transport shall meet requirements in Biocidal Products Regulation (EU) 528/2012 unless stated as limited in this PSR.
Regulation (EC) 1907/2006 (REACH) Candidate list Substances of Very High Concern (SVHC) http://www.echa.europa.eu/web/guest/candidate-list-table	The use in products and packaging of a substance taken into the candidate list shall be phased out within twelve (12) months from the date of publishing the substance in the candidate list. From January 2021, companies will also have to notify products containing SVHCs to ECHA's SCIP database on substances of concern in articles and products. The database aims to ensure transparent information on articles containing hazardous chemicals throughout their whole lifecycle. General limit if not stated differently in this PSR: < 0,1%* w/w each substance *0,1%* w/w each substance *0,1%* alooo ppm = 1000 mg/kg The following lists cover SVHC with known relevance to products and packaging supplied to Kid/Hemtex. However, the requirement covers the entire candidate list.



Legislation, Policy	Kid/Hemtex Requirements.
Regulation (EC) 1907/2006 (REACH)	Products and packaging shall not contain
Annex XIV	authorisation substances according to
Authorisation substances	Regulation (EC) 1907/2006 (REACH),
https://echa.europa.eu/authorisation-list	Annex XIV.
	0 15 57 11 157
	General limit if not stated differently in this PSR:
Damilation (EQ) 4007/0000 (DEAQUI)	< 0,1% w/w each substance
Regulation (EC) 1907/2006 (REACH) Annex XVII	Restricted substances according to Regulation (EC)
Restricted substances	1907/2006 (REACH) may only be used in accordance
	with the provisions in Annex XVII to the regulation.
https://echa.europa.eu/substances- restricted-under-reach	Note: Stricter requirements for some substances exist under the PSR and must be followed.
<u>restricted-under-reach</u>	exist under the FSR and must be followed.
Regulation (EC) 1907/2006 (REACH)	A supplier of products classified as chemical substances
Chemical substance	or preparations shall fulfil all obligations according to
	REACH Regulation 1907/2006/EC, either by itself or
	through a so called "Only Representative" within the EU.
	A copy of the contract with the "Only Representative"
	shall be provided to Kid/Hemtex.
	Candles are defined as a combination of an article and a
	chemical substance/mixture, the wick is the article and
Regulation EC 2019/1021	the wax is the substance / mixture.
Regulation EC 2019/1021 Regulation on Persistent Organic	Full compliance with POPs regulation.
Pollutants (POPs)	
Directive 2011/65/EU	Full compliance with RoHS Directive. Note that RoHS
Restriction of Hazardous Substances	applies for all parts of an EEE as defined by
in electrical and electronic equipment	homogenous material. Kid/Hemtex does not accept
(EEE) (RoHS)	RoHS exemptions. Any proposal to use an
	exemption under RoHS must be approved in
	advance and in writing by Kid/Hemtex.
	See also Kid/Hemtex PSR Quality and specific requirements for EE-products.
Regulation EU 2024/590	Full compliance with regulation.
Substances that deplete the ozone	T dii compilance with regulation.
layer	
Regulation 1272/2008/EC	Full compliance with CLP must be followed. This
Classification, labelling and	includes the amendments to CLP in Reg (EU)
packaging (CLP)	2024/2865.
Directive 2000/49/EC	All toyo must comply with the demands of EU Tay Cofety
Directive 2009/48/EC Toy Safety Directive (TSD)	All toys must comply with the demands of EU Toy Safety Directive 2009/48/EC concerning safety-, chemical- and
loy Salety Directive (13D)	construction requirements of toys. This includes all
	chemical requirements listed in the EN 71-X standards
	series.
Population (EC) No 4222/2000 on	
Regulation (EC) No 1223/2009 on Cosmetic Products	Full compliance with the Regulation on Cosmetic Products, including all annexes.
OSSINGIO I TOUGOIS	i roddoto, inoldding dii dilliekes.
Regulation (EU) 2024/3190 on	Full compliance with Regulation 2024/3190 on the use of
Ban of BPA and other bisphenols and	bisphenol A (BPA) and other bisphenols and bisphenol
bisphenol derivatives in FCM	derivatives in FCM.
Regulation (EU) 2025/351 on	Full compliance with Regulation (EU) 2025/351 and its
Plastic FCMs	amended Regulations (EU) No 10/2011, (EU) 2022/1616
	and (EC) No 2023/2006 concerning matters related to
	quality control and manufacturing of plastic materials
	and articles intended to come into contact with food.



4.2.3 Specific requirements

These lists below include all updates of the REACH candidate list until January 2025. See section 4.2.2 for Kid/Hemtex requirements for phase out period related to Regulation (EC) 1907/2006 (REACH) Candidate List. Note that some chemicals are already restricted by Kid/Hemtex before inclusion in the REACH candidate list.

As a general approach, the substances in the REACH candidate list are included in the most relevant section of this PSR. SVHC containing toxic heavy metals are covered by other requirements in this chapter. Please note that several substances may have multiple uses. Other substances are not listed, but still the same requirements apply to all substances included in the REACH candidate list.

Requirements relating to chemistry but not to specific substances.

Feature	Kid/Hemtex Requirements	Target material(s) / Use
Bleaching	Kid/Hemtex recommends that bleaching of textiles is carried out without use of chlorine and that hydrogen peroxide is used instead.	Textile Paper
pH	Textile: Baby products (0-3 years)*: Between 4,0 and 7,5 All other products: Between 4,0 and 8,5 Leather: Between 3,5 and 6,0	Textile ISO 3071 Leather ISO 4045
Strong smell / odour	Kid/Hemtex do not accept any strong odour products. Note test instruction for VOC.	All
Certification	All children's products, textiles in contact with skin, and in the home shall be certified to OEKO-TEX® STANDARD 100® either product class I or class II as specified.	Textile

^{*&}quot;Items that might come into contact with children" are products, such as bed sheets, bed sets, pillowcases, towels, and similar products from Kid/Hemtex's product assortment.

Chemical requirements concerning EEE product.

EEE product shall **not** contain the substances in the **Declarable Substances List (DSL)** in the International Electrotechnical Commission's database 'IEC 62474 - Material Declaration for Products of and for the Electrotechnical Industry'. Note that IEC 62474 consists of two parts: the main document part of the standard that describes the material declaration requirements (this may be purchased from IEC and resellers) and the free online database that specifies information that is regularly updated with legally restricted substances relevant for EEE products. The list is not exhaustive, and substances with legal requirements and/or Kid/Hemtex policy requirements still need to be acknowledged.Kid/Hemtex EEE product **must comply** with the limits in the RoHS Directive. **Kid/Hemtex does not accept the use of any RoHS Directive exemptions.** Any proposal to use an exemption under the RoHS Directive **must** be approved in advance and in writing by Kid/Hemtex.

Chemical requirements concerning synthetic polymer microparticles (microplastics). Kid/Hemtex does not accept substances, mixtures, or articles that contain intentionally-added synthetic polymer microparticles as defined in entry 78 of Annex XVII to Regulation (EC) No. 1907/2006 (REACH). Note OEKO-TEX® STANDARD 100® restricts intentional use of synthetic polymer microparticles in all product classes. Any proposal to use an exemption under entry 78 must be approved in advance and in writing by Kid/Hemtex. Degradable polymers for purposes of entry 78 must meet the rules on proving degradability in Appendix 15 to Annex XVII of REACH. Soluble polymers for purposes of entry 78 must meet the rules on proving solubility in Appendix 16 to Annex XVII of REACH. The test report(s) evidencing degradability/solubility and the invoice(s) for the purchase of any degradable/soluble polymers shall be provided to Kid/Hemtex by all producers/factories that produce the products and shall clearly reflect that the polymer meets the relevant rules on degradability/solubility in Appendix 15 and 16, respectively.

4.2.4 Process Chemicals

Process chemicals are used in the manufacturing process but have no function in the finished product. Remains may however be found in the finished product and cause health and environmental problems.

4.2.4.1 Alkylphenol Ethoxylates and Alkylphenols

Requirements based on Water Framework Directive, REACH Annex XVII, Annex XIV and Candidate list.

Chemical substance	CAS No	Limit value (mg/kg)	Test method	Target material(s) / Use
Alkylphenoletoxylates, APEO, such as: - Nonylphenol ethoxylates (NPEO) -Octylphenolethoxylates (OPEO) - Heptylphenol ethoxylates (HpPEO) - Hexylphenol ethoxylates (HxPEO) - Pentaphenol ethoxylates (PePEO)	Several	not be used in processes. Verification by testing sum < 100 mg/kg in ISO 18254-1, - (APEO) (APEO) (APEO) (APEO)	ISO 18254-1, - 2 (APEO) ISO 21084:2019 (AP)	Textile PU Coatings Down/feather Leather Electric- equipment
Alkylphenols (AP), such as: - Nonylphenol, (NP) - Octylphenol (OP) - Heptylphenol (HpP) - Hexylphenol (HxP) - Pentaphenol (PeP) -4-tert-butylphenol -Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	Several	<10 mg/kg for sum	ISO 18218-1, ISO 18218-2	

4.2.4.2 **Bisphenols**

Requirements based on REACH annex XVII (entry 66 thermal paper) and Candidate list. Regulation (EU) 2024/3190 on the use of bisphenol A (BPA) and other bisphenols and bisphenol derivatives in FCM.

Chemical substance	CAS No	Limit value	Test method	Target material(s) / Use
Bisphenol-A; BPA (4,4'-isopropylidenediphenol)	80-05-7	0,04 mg/l from migration	EN71-10 and EN71-11	Toys in polycarbonate, Leather
		Not detected Note: EU ban	GC-MS LC-MS	Plastic, paper, Leather
		on BPA in FCM	EN ISO 11936 (leather)	Food contact materials
				Packaging
2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807- 17-6	10	GC-MS LC-MS	Plastic, paper, polycarbonate, Leather
			EN ISO 11936 (leather)	



Chemical substance	CAS No	Limit value	Test method	Target material(s) / Use
Bisphenol B; BPB (4,4'-(1-ethylpropylidene)bisphenol)	77-40-7	10	GC-MS LC-MS EN ISO 11936 (leather)	Plastic, paper, polycarbonate, Leather
Bisphenol S; BPS (4,4'-sulphonyldiphenol)	80-09-1	10	GC-MS LC-MS EN ISO 11936 (leather)	Plastic, paper, polycarbonate, Leather
Bis(4-chlorophenyl) sulphone (BPCS)	80-07-9	10	GC-MS LC-MS EN ISO 11936 (leather)	Plastic, paper, Leather Mainly polycarbonate epoxy resins and thermal prints. Catalyst and antioxidant for processing PVC, also used in the production of flame retardants, and as intermediates in the manufacture of fungicides and dyes.

4.2.4.3 Chlorinated organic solvents and carriers

Requirements based on REACH annex XVII, Candidate list, EU **regulation** 2037/2000, IED 2010/75/EU and Substances that deplete the ozone layer

Chemical substance	CAS No	Limit value	Test method	Target
		(mg/kg)		material(s)
Chlorinated organic solvents (a	liphatic):	Not detected	GC-MS	Leather
Trichloromethane, (Chloroform)	1 67-66-3		GC-ECD	Paints, prints,
Trichloroethylene	79-01-6			stain removers,
Tetrachloroethylene	127-18-4		No	textile fibres
1,1-Dichloroethylene	75-35-4		standardised	washed, dyed
1,2-dichloroethane	107-06-2		test method	and /or printed,
1,4-Dichlorobenzene	106-46-7		available.	PU, synthetic
1,1,1-Trichloroethane	71-55-6		Detection limit	rubber.
1,1,2-Trichloroethane	79-00-5		0,1 mg/kg	
1,2,3- Trichloropropane	96-18-4			
1,1,2,2,-Tetrachlorethane	79-34-5			
1,1,1,2-Tetrachloroethane	630-20-6			
Carbon tetrachloride	56-23-5			
Pentacholorethane	76-01-7			
Chlorinated Toluenes:		1	EN 17137	
α,α,α,4- tetrachlorotoluene:	5216-25-1			
p-clorobenzotrichlorid				
α,α,α- trichlorotoluene;	98-07-7			
benzotrichloride				
α-chlorotoluene: benzyl chloride	100-44-7			
Chlorinated organic carriers (aromatic):		1,0 for sum	DIN 54232	
Chlorinated benzenes	Several			
Chlorinated toluenes	Several		Extraction GC-	
Chlorinated naphthalenes	Several		MS	
Chlorinated xylenes	Several			

4.2.4.4 **Isocyanates**

Requirements based on annex XVII (EC) No 1907/2006 (REACH)

Chemical substance	CAS No	Limit value (mg/kg)	Test method	Target material(s)
2,2'-Methylenediphenyl diisocyanate (MDI)	2536-05-2	< 200	EN 13999- 4:2007+A1:20	Rigid foams, fibers, coatings
2,4'-Methylenediphenyl diisocyanate (MDI)	5873-54-1		09 (adhesives)	such as paints and varnishes,
4,4'-Methylenediphenyl diisocyanate (MDI)	101-68-8		EN ISO 10283:2007	and elastomers
Methylenediphenyl diisocyanate (MDI)	26447-40- 5		(paints and varnishes)	
2,4-Toluene diisocyanate (2,4 TDI)	584-84-9		EN ISO	
m-tolylidene diisocyanate (TDI)	26471-62- 5		14896:2009 (Polyurethane	
Hexane, 1,6-diisocyanato (HDI)	822-06-0		materials)	
Isophorone diisocyanate (IPDI)	4098-71-9			
Tetramethylxylene diisocyanate (TMXDI)	2778-42-9			
Benzene, 1,3-diisocyanato-2- methyl	91-08-7			

4.2.4.5 Pesticides used in the supply chain

Chemical substances listed in the Rotterdam Convention, annex III and recommended for listing in annex III, and chemical substances listed in annexes to the Stockholm Convention shall not be intentionally formed/used in agricultural or production processes or in products/packaging delivered to Kid/Hemtex.

Residues below Level of Quantification, (LOQ) based on Mass Spectroscopy analysis of products/packaging are regarded as unintentional formation/use.

For more information, please see the following URL: http://www.pic.int/

4.2.4.6 Polycyclic aromatic hydrocarbons, PAH

Requirement based on REACH Candidate list, annex XVII entry 50, amended by EU Regulation 1272/2013 (eight first substances in the table)

For products with direct, prolonged or multiple short, skin contact.

Chemical substance	CAS RN	Limit value		Test method	Target
		(mg/kg)			material(s)
Benzo(a)pyrene	50-32-8	0,2		ISO 21461	Rubber
Benzo(e)pyrene	192-97-2	Each PAH		(NMR) (rubber)	Leather
Benzo(a)anthracene	56-55-3				Black plastic
Benzo(a)phenanthrene	218-01-9	Toys and		EN 17132	materials
(Chrysene)		childcare		(textile)	PU-elastane
Benzo(b)fluoranthene	205-99-2	articles; 0,2			Neoprene
Benzo(j)fluoranthene	205-82-3	each PAH		Footwear:	
Benzo(k)fluoranthene	207-08-9			AfPS GS 2019-	
Dibenzo(a,h)anthracene	53-70-3			01 PAK	
Benzo(ghi)perylene	191-24-2			ISO/TS 16190	
Fluoranthene	206-44-0			Detection limit:	
Anthracene (Also biocid)	120-12-7			0.2 mg/kg	
(Also anthracene oil					
distillation fractions)					
Phenanthrene	85-01-8				
Acenaphthene	83-32-9				
Acenaphtylene	208-96-8	10 of sum	1		
Fluorene	86-73-7	of all 18 PAI	Hs		
Indeno(1,2,3-cd)pyrene	193-39-5				
Naphthalene	91-20-3				
Pyrene	129-00-0				

	CATEGORY 1	CATEGORY	2	CATEGORY 3		
	Materials intended to be placed in the mouth or materials in toys (Directive 2009/48/EC) or articles for	foreseeable contact (> 30	with intended or long-term skin d seconds) or epetitive contact	Materials not Category 1 or intended or fr short-term sk 30 seconds)	2, with preseeable	
	children up to 3 years of age with intended long- term skin contact (> 30 seconds) (mg/kg)	2a Use by children under 14 (mg/kg)	2b Other consumer products (mg/kg)	3a Use by children under 14 (mg/kg)	3b Other consumer products (mg/kg)	
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(b)fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1.	
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Indeno[1,2,3-od]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Anthracene, fluoranthene, phenanthrene, pyrene	< 1 (sum)	< 5 (sum)	< 10 (sum)	< 20 (sum)	< 50 (sum)	
Naphthalene	<1	< 2	< 2	< 10	< 10	
Total 15 PAHs	<1	< 5	< 10	< 20	< 50	



4.2.4.7 Quaternary ammonium compounds

Requirements based on PARCOM Recommendation 93/4 for complete phase-out

Chemical substance	CAS No	Limit value (mg/kg)	Test method	Target material(s)
DSDMAC	107-64-2	Not detected	LC-MS	Textile
DTDMAC	68783-78-8		Detection limit	Leather
DHTDMAC	61789-80-8		10 mg/kg	Cosmetics

4.2.4.8 **Solvents**

Kid/Hemtex does not accept any strong odour products. Assurance shall, if requested, be verified by the following general set up:

A. Odour test:

- a. result pass; no further test and product is accepted
- b. inconclusive result. Continue with GC-MS Headspace according to table VOC, named substances
 - i. GC-MS test pass all limit values; no further test and product is accepted even if inconclusive result from odour test.
 - ii. GC-MS test do not pass all limit values; no further test and product is not accepted.
- c. result fail; no further test and product is not accepted
- B. Kid/Hemtex may also request VOC to be tested according Tenax method; ISO 16000-6
- C. For specific products, as described in inquiry, tests for individual substances from lists VOC may be requested.

Parameter	Requirement	Test method
Odour test	< 3; Pass	Panel test with
	3 - 3,5; Inconclusive; shall be followed by VOC test, Table	reference to SNV
	VOC, GC-MS Headspace as below	195651 / DIN 10955
	> 3,5; Fail	Scale 1 to 5
	Kid/Hemtex accept only panel tests for odour performed at	
	labs in Hong Kong or Shanghai or European Locations.	
	Accepted labs are ITS, SGS, UL or TUV Rheinland	



Solvents requirements in this section are based on REACH Annex XVII and Candidate list, Product safety directive IED 2010/75/EU. Some of listed substances may also function as biocides.

Chemical substance	voc	CAS No	Limit	Test method	Target material(s) /
Chemical substance	VOC	CASINO	value	rest method	Use
			(mg/kg)		USC
Aromatic organic solver	nts		(5/1.5/		
Benzene	Yes	71-43-2	1	GC/MS	Paints, Lacquers,
Ethylbenzene	Yes	100-41-4	20	VOC;	Textiles, Plastics,
Styrene	Yes	100-42-5	10	Headspace	Adhesives
Toluene	Yes	108-88-3	5		
Total Xylenes	Yes	1330-20-7	20		
		Various			
Cyclohexane	Yes	108-94-1	100		
Acetophenone	Yes	98-86-2	Sum		Polymer foam except
			< 300		PU
2 phenyl-2-propanol	Yes	617-94-7			EVA foam
Phenol		108-95-2	50	HPLC-DAD	Rubber, Polymeric
					material, Adhesives
Glycols					
2-ethoxietylacetate		111-15-9	100	GC/MS	Paints, Lacquers
2,2'dimethyldiether,		111-96-6	100	VOC;	Textiles, Plastics
DEGDME				Headspace	Adhesives
Other organic solvents	1	T		T	T
DMFa,	Yes	68-12-2	500	EN 17131:2019	PU, Acrylic, Paper
N,N-Dimethylformamide				(textile)	
NMP	Yes	872-50-4		GC/MS	PU, Styrene-
N-methylpyrrolidone	165	072-30-4		VOC;	butadiene, latex
DMAC		127-19-5	1	Headspace	PU, Acrylic,
N,N-dimethylacetamide,		127-19-5		Псаазрасс	Polyamide
Formamide	Yes	75-12-7		prEN 17131-1	EVA foam, PU,
Tomamac	100	70 12 7		(textile)	paper
				(**************************************	ραροι
				Detection limit 1	
				mg/kg	
ADCA	Yes	123-77-3	Not	GC-MS	Plastics, rubber,
Azodicarbonamide			detected		foaming agent in
					EVA, PE and PVC*
Hydrazine	Yes	302-01-2	1000	UV-VIS	Foaming agent in
		7803-57-8		Or GC-MS	polymer foams, EVA
1,4 dioxane	1	123-91-1	< 10	-	Foaming agent,
					wetting agent in
					textiles

^{*}See separate requirement for PVC in this chapter and in PAR 3.5.8

4.2.4.9 Tin organic compounds

Requirements based on REACH, Candidate list, Annex XVII; OEKO-TEX STANDARD 100.

Chemical substance	CAS RN	Limit value (mg/kg)	Test method	Target material(s)
Dibutyltin compounds DBT, DBTC and various DBTs	1002-53-5 683-18-1, 818-08-6 1067-33-0, 3349-36-8 15546-11-9, 4731-77-5 85702-74-5, 15546-16-4 2781-10-4, 77-58-7 13323-63-2, 5847-55-2 13323-62-1, 85391-79-3 95873-60-2	Not detected	GC-MS Detection limit: 0,2 mg/kg Possible reference to; EN ISO 22744- 1 (textile)	PU Coatings PVC* Rubber TPR
Tributyltin compounds (TBT)	688-73-3, 56573-85-4		ISO/TS 16179 (footwear)	
Bis(Tributyltin)Oxide, TBTO (also biocid)	56-35-9		DIN 38407 F13:2001 U ISO 17353	
Dioctyltin compounds (DOT) (DOTE, MOTE)	870-08-6 15571-58-1 27107-89-7		(Water and sediment)	
Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety Dibutylbis(pentane-	22673-19-4			
2,4-dionato-O,O') tin				
Triphenyltin compounds (TPhT)	900-95-8, 379-52-2, 892-20-6, 76-87-9, 668-34-8, 639-58-7			
Trimethyltin (TMT)	1631-73-8			
Tricyclohexyltin (TCyHT)	6056-50-4			
Trioctyltin (TOT)	250252-89-2			
Tripropyltin (TPT)	-			

^{*}See separate requirement for PVC in this chapter and in PAR 3.5.8.



4.2.4.10 Other process chemicals

Requirements based on REACH Candidate List and Kid/Hemtex policy.

Chemical substance	CAS No	Limit value (mg/kg)	Test method	Target material(s) / Use
3-ethyl-2-methyl-2-(3- methylbutyl)-1, 3- oxazolidine	143860-04-2	1000	No specified	PU, Moisture scavenger
Triglycidyl isocyanurate,TGIC	2451-62-9	1000	LC-MS	Hardener, Coatings, Prints
β-Triglycidyl isocyanurateβ-TGIC	59653-74-6	1000	LC-MS	Solder mask ink, Coatings on metal
Technical MDA	25214-70-4	1000	GC-MS	Hardener in hardware
Ethylenethiourea	96-45-7	1000	LC-MS	Accelerator in rubber
Ethylenediamine, EDA	107-15-3	Not detected	GC-MS	Textiles, PU, Epoxy resins (in glues, adhesives, paints)
N-nitrosamines	Several	0.5 mg/kg	GB/T 24153: determination using GC/MS with LC/MS/MS verification if positive. Alternatively, LC/MS/MS may be performed on its own.	Natural and synthetic rubber
Quinoline	91-22-5	50	GC-MS LC-MS prEN ISO 13144	Textiles
2-methoxyethyl acetate	110-49-6	100	GC-MS LC-MS	Solvent for celluloseacetete and textile printing, laquers
Bis(2-(2- methoxyethoxy)ethyl)e ther	143-24-8	1000	-	Solvent/extracti on agent. Can be used in inker prints.



Chemical substance	CAS No	Limit value	Test method	Target
		(mg/kg)		material(s) / Use
Bis(α,α-dimethylbenzyl) peroxide (also called Dicumyl peroxide)	80-43-3*	1000	GC-MS	Cross-linking agent for polymers, elastomers. Polymers cross-linked with organic peroxides produce hose, wires, tires, rubber seals, etc. Dicumyl peroxide is a flame-retardant synergist in expanded polystyrene (EPS).
tris(2- methoxyethoxy)vinylsil ane	1067-53-4	1000		Polymers (Rubbers, plastics, sealants) Can be used in plating agent and surface treating agent.
Imidazoles: 1-vinylimidazole	1072-63-5 693-98-1	< 200	No standardised test method	Adhesives, epoxy resins,
2-methylimidazole Hydroxymethyl acrylamide	924-42-5	500	available. LC-MS, GC-MS	textiles Textile, paper
Melamine	108-78-1	1000	LC-MS, GC-MS	Polymers, leather, textile finishes and coatings
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)	75980-60-8*	1000	GC-MS	A surfactant and photo-initiator used in printing inks and toners, UV coatings, other coating products, photo-chemicals, polymers, adhesives and sealants, and fillers, putties, plasters, modelling clay. Commonly in electronics, printed circuit board manufacturing.

Chemical substance	CAS No	Limit value (mg/kg)	Test method	Target material(s) / Use		
6-[(C10-C13)-alkyl- (branched, unsaturated)-2,5- dioxopyrrolidin-1- yl]hexanoic acid	2156592-54-8*	1000	LC-MS	Used in hydraulic oils, greases, and metalworking		
Triphenylthiophosphat e and tertiary butylated phenyl derivatives (reaction mass of)	192268-65-8*	1000	GC-MS	Used in various industrial applications, including as additives in lubricants and hydraulic fluids.		
* SVHC substances ** CMR fast track substances						

4.2.5 Product Related (property lending) Chemicals

Product related substances that are used with intended function in the finished product.

4.2.5.1 Aromatic Amines from Azo Dyes

Requirements based on REACH annex XVII, entry 43 and entry 72, as well as the Candidate list.

Chemical substance	CAS No	Limit value (mg/kg)	Test method	Target material(s)			
Benzidine	92-87-5	Not	EN ISO 14362-1/ -	Textile			
Biphenyl-4-ylamine	92-67-1*	detected	3 for textiles	Leather			
4-Chloro-o-toluidine	95-69-2		Note: Part 1	Feathers			
2-Naphthylamine	91-59-8		analyses all	Paper			
o-Aminoazotoluene	97-56-3*		regulated				
5-Nitro-o-toluidine	99-55-8		arylamines, except				
4-Chloroaniline	106-47-8]	4-				
4-methoxy-m-phenylenediamine	615-05-4		Aminoazobenzene,				
4,4-Methylenedianiline	101-77-9		CAS 60-09-3 that				
3,3-Dichlorobenzidine	91-94-1		is analysed in part				
o-Dianisidine	119-90-4		3.				
4,4'-bi-o-toluidine	119-93-7]	ENTICO				
4,4-Methylenedi-o-toluidine	838-88-0*]	EN ISO 17234-1, -2				
p-Cresidine	120-71-8*]	for leather				
4,4'-Methylene-Bis-(2-	101-14-4		Note: Part 1				
Chloroaniline)			analyses all				
4,4'-Oxydianiline	101-80-4*		regulated				
4,4'-Thiodianiline	139-65-1		arylamines, except				
o-Toluidine	95-53-4*		4-				
2,4,5-Trimethylaniline	137-17-7		Aminoazobenzene,				
4-methyl-m-phenylenediamine	95-80-7*]	CAS 60-09-3 that				
o-Anisidine	90-04-0*		is analysed in part				
2,4-xylidine	95-68-1]	2.				
2,6-xylidine	87-62-7						
4-Aminoazobenzene	60-09-3*		Detection limit 20				
4-chloro-o-toluidinium chloride	3165-93-3**		mg/kg				
2-Naphthylammoniumacetate	553-00-4**		(per each of the				
4-methoxy-m-phenylene	39156-41-7**		arylamine				
diammonium sulphate; 2,4-			breakdown				
diaminoanisole sulphate]	product)				
2,4,5-trimethylaniline hydrochloride	21436-97-5**						
	* SVHC substances ** CMR fast track substances						

4.2.5.2 Borate compounds

Requirements based on REACH Candidate list

Chemical substance	CAS No	Limit value (mg/kg)	Test method	Target material(s)
Boric Acid	10043-35-3 11113-50-1	Not detected	AAS Detection as	Wood, Slime,
Tetraboron disodium heptaoxid, hydrate	12267-73-1	(LOQ: 25	100 µg /kg as Boron	Biocides, Glue,
Diboron trioxide	1303-86-2	mg/kg for		Detergents,
Disodium tetraborate anhydrous	1330-43-4, 12179-04-3 1303-96-4	individual compounds (10 mg/kg	ICP-MS and ICP-OES Detection limit	Flame retardant, Paper,
Sodium peroxometaborate	7632-04-4	for total	as 1 µg/kg as Boron	Rubber,
Sodium perborate; perboric acid, sodium salt	239-172-9, 234-390-0	- Boron content))	BOION	Plastic, Ceramic
Disodium octaborate,	12008-41-2			
Orthoboric acid, sodium salt, e.g	13840-56-7			
Barium diboron tetraoxide	13701-59-2			

4.2.5.3 **UV Stabilizers**

Requirements based on REACH Candidate list and Persistent Organic Pollutants (POPs) Regulation under the UN Stockholm Convention.

Chemical substance	CAS No	Limit value (mg/kg)	Test method	Target material(s) / Use
Benzotriazoles				
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) 2,4-di-tert-butyl-6-(5-chlorobenzo triazol-2-yl)phenol (UV-327) 2-(2H-benzotriazol-2-yl)-4,6-ditert pentylphenol (UV-328) 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	3846-71-7 3864-99-1 25973-55-1 36437-37-3	Not be present and not detected in products. 50 is the LOQ for benzotriazoles, UV-328 is a SVHC and a POP with limit value of 1 mg/kg	ISO 24040:2022	Plastics, PU, Rubber, Wood Coatings
Other UV Stabilizers				
3-benzylidene camphor (1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1] heptan-2-one) (3-BC) 6,6'-di-tert-butyl-2,2'-methylenedip-cresol (DBMC)	15087-24-8	< 100 Not be present and not detected in products. 100 mg/kg is LOQ for 3-BC and DBMC	GC MS LC-MS GC-ECD	Cosmetics, polymeric materials Rubber, plastic, adhesives, inks,

4.2.5.4 **Dyes pigments colorants**

Requirements based on Commission Decision 2009/567/EC, EU flower, REACH Annex XVII, REACH Candidate list.

Chemical substance	CAS No	Limit value (mg/kg)	Test method	Target material(s)
CMR, Carcinogenic Mutage	nic Reproductiv		uffs	material(s)
C.I. Disperse Orange 11	82-28-0	Not	Extractable dyestuff	Textile
C.I. Basic Red 9	569-61-9**	Detected	EN ISO 16373	Leather
C.I Direct Red 28*	573-58-0*	-		Feather,
C.I. Disperse Violet 14	632-99-5		DIN 54231:2022-09	Paper inks,
C.I. Direct Black 38	1937-37-7*			Packaging
C.I. Disperse Blue 1*	2475-45-8**	-	Detection limit	
C.I. Direct Blue 6	2602-46-2		20 mg/kg	
C.I. Acid Red 26	3761-53-3	-	(per substance)	
C.I. Direct Brown 95	16071-86-6	1		
C.I. Disperse Orange 149	85136-74-9	1		
Michlers base*	101-61-1*	1		
Michlers ketone	90-94-8	1		
C.I. Solvent Blue 4*	6786-83-0*	1		
C.I. Basic Blue 26*	2580-56-5*, **	1		
C.I. Basic Violet 3*	548-62-9*	1		
4,4'-bis(dimethylamino)-4"-	561-41-1*	1		
(methylamino)trietylalcohol*				
C.I. Disperse Yellow 3	2832-40-8			
				* SVHC substances
				**CMR fast track
Allergenic Dyestuffs:	T	T	I =	· - · · · ·
C.I. Disperse Blue 1*	2475-45-8	Not	DIN 54231	Textile
C.I. Disperse Blue 3	2475-46-9	Detected	Method to be	Leather
C.I. Disperse Blue 7	3179-90-6	4	followed strictly	Feather
C.I. Disperse Blue 26	3860-63-7		including methanol	
	100357-99-1		extraction	
O.I. Diamana Diva 05	13324-23-7	_	Detection limit	
C.I. Disperse Blue 35	12222-75-2	_	50 mg/kg	
C.I. Disperse Blue 102	12222-97-8	4	(per substance)	
C.I. Disperse Blue 106	12223-01-7		(per substance)	
C.I. Diaparas Plus 124	68516-81-4	-	Extractable	
C.I. Disperse Blue 124 C.I. Disperse Brown 1	61951-51-7 23355-64-8	-	dyestuffs	
C.I. Disperse Brown 1 C.I. Disperse Orange 1	2581-69-3	-	EN ISO 16373	
C.I. Disperse Orange 3	730-40-5	-		
		-		
C.I. Disperse Orange 37 C.I. Disperse Orange 59**	12223-33-5	-		
C.I. Disperse Orange 76**	13301-61-6	-		
C.I. Disperse Change 76	51811-42-8 2872-52-8	-		
		-		
C.I. Disperse Red 11 C.I. Disperse Red 17	2872-48-2	-		
	3179-89-3	4		
C.I. Disperse Yellow 1 C.I. Disperse Yellow 3	119-15-3 2832-40-8	-		
		-		
C.I. Disperse Yellow 9	6373-73-5	-		
C.I. Disperse Yellow 23	6250-23-3	-		
C.I. Disperse Yellow 39	12236-29-2	-		
	54824-37-2	1	I	
C.I. Disperse Yellow 49				
Navy Blue	405-665-4 118685-33-9			



Chemical substance	CAS No	Limit value (mg/kg)	Test method	Target material(s)
Pigment salts				
All lead and chromate pigment salts		See section toxic heavy metals	1. XRF 2. AAS 3. ICP-MS ICP- OES	Enamel coated metal Colored plastic Colored rubber
Cobalt(II)sulphate	10124-43-3	1000		Plastisol Prints Ceramics

4.2.5.5 Electrolyte

Requirements based on REACH Candidate list and REACH authorization list (Annex XIV)

Chemical substance	CAS No	Limit value	Target material(s)
1,3-propanesultone	1120-71-4	1000 mg/kg	Electrolyte in
1,2-bis(methoxy) ethane (TEGDME)	112-49-2		Li ion
1,2-dimethoxyethane (EGDME)	110-71-4		batteries
Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8		
(tetraglyme/TEGDME)			May be
Bis(2-methoxyethyl) ether	111-96-6	Not detected	found in
(diglyme/DEGDME)			printing inks

4.2.5.6 Flame retardants, FR

Requirements based on REACH, Water Framework Directive, and POPs Regulation Some substances listed under flame retardants may also have other use in processes or products. See also chapter Boron compounds

Chemical substance	CAS No	Limit value (mg/kg)	Test method	Target material(s)
Antimony based FR				
Antimony(III) Oxide	1309-64-4	10 Polyester: 200	XRF screening GC MS ICP-OES	Plastics Textile Gypsum
Brominated, Chlorinated FR				
Tetrabromodiphenyl ether, TetraBDE	5436-43-1	Not detected	EN ISO 17881-1	Plastics Textile
Polybrominated Biphenyls (Mix) PBB	59536-65-1 Various		(textiles).	Foam Coatings,
Pentabromodiphenyl ether, PBDE	32534-81-9 60348-60-9		EN16377 for PBB (plastics)	Electronics
Hexabromobiphenyl Hexabromodiphenyl ether,	36355-01-8 68631-49-2	-	XRF Screening*	
HexaBDE Heptabromodiphenyl ether, HeptaBDE	207122-15-4 207122-16-5 446255-22-7	_	GC-MS, LC-MS	
Octabromodiphenyl ether, OctaBDE	32536-52-0	-	For LC-MS recommended	
Decabromobiphenyl ether, DecaBDE	1163-19-5		detection limit 1 mg/kg	
Tetrabromobisphenol A TBBPA	79-94-7			
Hexabromocyclododecane HBCDD	25637-99-4 3194-55-6			
	134237-50-6 134237-51-7 134237-52-8			



Chemical substance	CAS No	Limit value (mg/kg)	Test method	Target material(s)
Dechlorane Plus™	13560-89-9; 135821-74-8; 135821-03-3	Not detected		
1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene] (BTBPE)	37853-59-1			
Bis(2-ethylhexyl) tetrabromophthalate (TBPH)	26040-51-7 (several)	100		Plasticizer, Adhesives & sealants
Chlorinated Paraffins				
Short chained chlorinated paraffin, SCCP (C10-C13),	85535-84-8	100	EN ISO 22818 (textile)	Rubber Leather
Medium-chain chloroparaffins, MCCP (C14-C17)	85535-85-9	1000	ISO 18219	Paints PU
Long-chain chloroparaffins, LCCP (C18-)	85535-86-0	1000	(leather) Plastic	PVC**
Phosphate and phosphonium based	I FR			
Tri-O-Cresylphosphate (TOCP)	78-30-8	10	For non-textile	Plastics
Tris(2-Chloroethyl) Phosphate	115-96-8	Not	materials:	Textile
(TCEP)		detected	XRF	Rubber
Phosphonium Tetrakis (Hydroxymethyl)-Chloride	124-64-1	10	Screening*, GC-MS	Foam
Tris(2,3-Dibromopropyl) Phosphate (TBPP)	126-72-7	10	LC-MS Detection limit	
Tris(1-Aziridinyl)-Phosphine Oxide (TEPA)	545-55-1	10	for LC-MS 1 mg/kg	
Dimethyl Methylphosphonate (DMMP)	756-79-6	10	For textiles:	
Tricresyl Phosphate (TCP)	1330-78-5	10	EN ISO	
2-Propanol, 1-Chloro-, Phosphate (3:1) (TCPP)	13674-84-5	5	17881-2	
Tris(1,3-Dichloro-2-Propyl) Phosphate (TDCPP)	13674-87-8	5		
Phosphoric Acid, Methylphenyl	26444-49-5	10		
Phosphoric Acid, (1,1-Dimethylethyl) Phenyl Diphenylester	56803-37-3	10		
Triphenyl phosphate	115-86-6	10		
Trixylyl phosphate	25155-23-1	10		
Isopropylated phenyl phosphate (3:1)	68937-41-7			
O,O,O-triphenyl phosphorothioate (TPPT)	597-82-0			

^{*}Requirement XRF screening test: substances that contain bromine, chlorine, heavy metals may be screened with XRF for a first indication of presence of elements in the sample. For quantitative determination of listed substances GC-MS or LC- MS may be requested.

^{*}See separate requirement for PVC in this chapter and in PAR 3.5.8.

4.2.5.7 Formaldehyde

Requirement based on REACH, Annex XVII, entries 28-30, 72, 77, and other legal requirements. **Note:** additional legal requirements apply to toys, cosmetics, chemicals, food contact materials, electricals, PPE, and other product categories, see section 4.2.2 regarding General Chemical Requirements.

Chemical substance	CAS No	Limit value	Test method	Target material(s) / Use
Formaldehyde 50-00-0		16 mg/kg	ISO 14184-1	Textiles in direct contact with skin Textiles for children <36 months*
		75 mg/kg	ISO 14184-1	Other textiles
			ISO 17226-2; and ISO 17226-1; confirmation method in case of interferences Note requirements for sampling in standard**	Leather
		0,062 mg/m³	EN 717-1 EN ISO 12460-1 EN ISO 12460-3	Furniture and wood-based articles***
		0,080 mg/m ³	EN 717-1 EN 12460-1 EN 16516	Articles other than furniture and wood-based articles***
		<3,5 mg/m2 xh		Adhesives

^{* &}quot;Items that might come into contact with children" are products such as bed sheets, bed sets, pillowcases, towels, and similar products from Kid/Hemtex's assortment.

^{**}Due to its volatility, formaldehyde is "contagious". For example, if an article containing formaldehyde is placed on top of an article without formaldehyde, the latter article will be contaminated ("infected"). Therefore, samples for testing must be packed in air dense plastic bags of polyethylene (PE) or polypropylene (PP) to prevent sample contamination.

^{***} See ECHA Guidelines for the measurement of formaldehyde releases from articles and formaldehyde concentrations in the interior of vehicles dated April 2025.



4.2.5.8 Heavy metals and their compounds in textile and leather

Requirements based on General Product Safety Regulation (EU) 2023/988.

Note that several salts related with these requirements are included in the REACH candidate list.

Chemical substance	CAS No		lue (mg/kg)	Test method
		adults	children	
A 11 OI	- 440.00.0		<36 months*	
Antimony, Sb	7440-36-0	30	30	Extraction in accordance
Arsenic, As, and arsenic	7440-38-2	1,0	0,2	with
compounds:	1000 00 0			ISO 105 E04, 40°C 1 h
Diarsenic Pentoxide	1303-28-2			and analysis AAS, or ICP-
Diarsenic Trioxide	1327-53-3			MS, ICP-OES
Triethyl arsenate	15606-95-8			(For children up to 36
Arsenic acid	7778-39-4			months: saliva solution.
Calcium arsenate	7778-44-1	0.4	0.4	For other products: sweat
Cadmium, Cd	7440-43-9	0,1	0,1	solution)
and cadmium compounds	1306-19-0			ŕ
	1306-23-6			EN 16711-1 (total content
	10108-64-2			in textiles).
	7790-79-6			EN 16711-2 (extractable
	10124-36-4 31119-53-6			content in textile)
	10325-94-7			
	513-78-0			Leather;
	21041-95-2			EN ISO 17072-1
Cobalt, Co	7440-48-4	4,0	1,0	(extractable)
Copper, Cu	7440-50-8	50	25	ISO 17072-2 (total content)
Lead, Pb and lead salts (see	7439-92-1	1,0	0,2	content)
appendix Lead compounds)		, -	- ,	
Mercury, Hg, and mercury	7439-97-6	0,02	0,02	
compounds:				
Phenylmercury neodecanoat	26545-49-3			
Phenylmercury octanoate	13864-38-5			
Phenylmercury 2-	13302-00-6			
ethylhexanoate				
Phenylmercury propionate	103-27-5			
Phenylmercury acetate	62-38-4			
Nickel, Ni	4770-02-0	4,0	1,0	
Chromium, Cr	18540-29-9	0,5	0,5 Not detected	For loothor:
Hexavalent Chrome, Cr +6	18540-29-9	Not	Not detected	For leather: EN ISO 17075-1,
(see appendix Chromium compounds)		detect ed		(Colorimetric method),
compounds)		eu		EN ISO 17075 -2
				(Chromatographic
				method)
				Detection limit: 3 mg/kg.
				ISO 19071 (in chromium
				tanning agents)
				EN ISO 10195 (pre-aged
				leather)
				,
				For textiles.
				UV-VIS Spectrometer,
				ICP-MS
				Detection limit: 0.5 mg/kg

^{* &}quot;Items that might come into contact with children" are products such as bed sheet, bed set, pillow cases, towels and similar products from Kid/Hemtex's assortment.

Substances that contain bromine, chlorine, heavy metals may be screened with XRF for a first indication of presence in the sample. Stated test methods should be used for quantitative determination where applicable.



Appendix Chromium compounds

See requirements for Chromium in list Toxic Heavy metals.

Requirements based on Candidate list of Substances of Very High Concern, SVHC, Regulation (EC) No 1907/2006 (REACH) and Annex XIV

Chemical substance	CAS No
Ammonium dichromate	7789-09-05
Potassium chromate	7789-00-6
Potassium dichromate	7778-50-9
Sodium chromate	7775-11-3
Sodium dichromate dehydrate	7789-12-0, 10588-01-9
Strontium chromate	7789-06-2
Chromium trioxide	133-82-0
Chromic acid	7738-94-5
Dichromic acid	13530-68-2
Lead chromate	7758-97-6
Lead sulfochromate	1344-37-2
Lead chromate molybdate sulphate	12656-85-8
Dichromium tris(chromate)	24613-89-6
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9
Pentazinc chromate octahydroxide	49663-84-5

Appendix Lead compounds

See requirements for Lead in list Toxic Heavy metals. Requirements based on Candidate list of Substances of Very High Concern, SVHC, Regulation (EC) No 1907/2006 (REACH)

Chemical substance	CAS No
Lead chromate	7758-97-6
Lead sulfochromate	1344-37-2
Lead chromate molybdate sulphate	12656-85-8
Lead(II)picrate	6477-64-1
Lead styphnate	15245-44-0
Lead diazide	13424-46-9
Lead hydrogen arsenate	7784-40-9
Lead monoxide (Lead oxide)	1317-36-8
Orange lead (Lead tetroxide)	1314-41-6
Lead bis(tetrafluoroborate)	13814-96-5
Trilead bis(carbonate)dihydroxide	1319-46-6
Lead titanium trioxide	12060-00-3
Lead titanium zirconium oxide	12626-81-2
Lead(II)bis(methanesulfonate	17570-76-2
Silicic acid, lead salt	11120-22-2
Silicic acid (H2Si2O5), barium salt (1:1), leaddoped	68784-75-8
Acetic acid, lead salt, basic	51404-69-4
Lead oxide sulfate	12036-76-9
[Phthalato(2-)]dioxotrilead	69011-06-9
Dioxobis(stearato)trilead	12578-12-0
Fatty acids, C16-18, lead salts	91031-62-8
Lead cynamidate	20837-86-9
Lead dinitrate	10099-74-8
Pentalead tetraoxide sulphate	12065-90-6
Pyrochlore, antimony lead yellow	8012-00-8
Sulfurous acid, lead salt, dibasic	62229-08-7
Tetraethyllead	78-00-2
Tetralead trioxide sulphate	12202-17-4
Trilead dioxide phosphonate	12141-20-7
Lead di(acetate)	301-04-2



4.2.5.9 Heavy metals in hardware (non-textile and non-leather products)

Requirements based on REACH. Several substances of relevance in the Candidate list.

Chemical substance	CAS No	Limit value	Test method	Target
		(mg/kg)		material(s)
Areania Areandarania	7440 20 2	Total content	Microsso	Motol
Arsenic, As and arsenic	7440-38-2	25	Microwave	Metal, Plastic,
compounds: Diarsenic Pentoxide	1303-28-2	Wood: not	assisted acidic digestion,	Glass,
Diarsenic Feritoxide Diarsenic Trioxide	1327-53-3	detected	determination with	Wood
Triethyl arsenate	15606-95-8	detected	ICP/MS, AAS or	vvood
Arsenic acid	7778-39-4		ICP-OES	
Calcium arsenate	7778-44-1		ICF-UES	
Cadmium, Cd	7440-43-9	75 in		Plastic
and cadmium compounds	1306-19-0	plastic material		Metal
and cadmidin compounds	1306-23-6	or paint.		iviciai
	10108-64-2	Not detected		
	7790-79-6	in brazing		
	10124-36-4	fillers or in		
	31119-53-6	jewellery.		
	10325-94-7	,		
	513-78-0			
	21041-95-2			
Lead, Pb and lead salts	7439-92-1	90		Metal,
(see appendix Lead	Various			Plastic,
compounds)				Glass,
. ,				Ceramics
Mercury, Hg, and mercury	7439-97-6	0,5		Gypsum,
compounds:				Metal,
Phenylmercury neodecanoat	26545-49-3			Plastic
Phenylmercury octanoate	13864-38-5			
Phenylmercury 2-	13302-00-6			
ethylhexanoate				
Phenylmercury propionate	103-27-5			
Phenylmercury acetate	62-38-4			
Nickel, Ni	7440-02-0	0.5 µg per cm2	Screening test	Metal,
In metal with intended		and week for	with dimethyl	Plastic,
prolonged** skin contact.		products	glyoxime and	Metal-
>10 min on three or more		intended to	ammonium	coatings
occasions or, >30 min on one		come into	hydroxide, if	
or more occasions within two		direct and	positive:	
weeks		prolonged contact with	Part with agating	
		the skin.	Part with coating	
		the skin.	or plating: EN 12472:2020	
			(simulation of	
			accelerated wear	
			and corrosion)	
			and corrosion)	
			EN 1811:2023	
			(migration test of	
			coated or non-	
			coated items)	
			Part without	
			coating or	
			plating:	
			EN 1811:2023	



Chemical substance	CAS No	Limit value (mg/kg) Total content	Test method	Target material(s)
Hexavalent Chrome, Cr +6 (see appendix Chromium compounds)	18540-29-9 Various	3*, Cr VI substances shall not be used	Alkaline digestion and colorimetric analysis Possible reference to IEC 62321	Plastic Wood Metal Cement

Articles may be screened with XRF for a first indication of presence of heavy metals in the sample. Stated test methods should be used for quantitative determination where applicable.

http://echa.europa.eu/documents/10162/13641/nickel_restriction_prolonged_contact_skin_en.pdf

4.2.5.10 Heavy metals in packaging

Requirement based on **Regulation (EU) 2025/40 on Packaging and Packaging Waste (PPWR)**. Wood preservatives regulated in Annex XVII. Note also requirements for PVC, DMFu, and other biocides.

Chemical substance	CAS No	Limit value (mg/kg) Total content	Test method	Target material(s)
Cadmium, Cd and cadmium compounds	7440-43-9, 1306-19-0, 1306-23-6, 10108-64-2, 7790-79-6, 10124-36-4,	Sum < 100	CEN/CR 13695-1:2000 CEN/TR 13695-2:2004	Packaging
	31119-53-6 10325-94-7 513-78-0 21041-95-2			
Hexavalent Chrome, Cr +6 (see appendix Chromium compounds)	18540-29-9, Various			
Lead, Pb and lead salts (see appendix Lead compounds) Mercury, Hg, and mercury	7439-92-1, Various 7439-97-6			
compounds: Phenylmercury neodecanoat Phenylmercury octanoate Phenylmercury 2-ethylhexanoate Phenylmercury propionate	26545-49-3 13864-38-5 13302-00-6 103-27-5			
Phenylmercury acetate	62-38-4	A LONG CONTRACTOR	for the Production of a	

Substances that contain heavy metals may be screened with XRF for a first indication of presence in the sample. Stated test methods should be used for quantitative determination where applicable.

^{*}Limit for unintentional occurrence. Compliance may be shown by total chrome content.

^{**}See definition of prolonged skin contact in the case of Nickel restriction;



4.2.5.11 Heavy metals in EE products, except batteries

Requirements based on **RoHS Directive**.EEE product shall **not** contain the substances in the **Declarable Substances List (DSL)** in the <u>International Electrotechnical Commission's database 'IEC 62474 - Material Declaration for Products of and for the Electrotechnical Industry'</u>. See section 4.2.3. Kid/Hemtex EEE product **must comply** with the limits in the RoHS Directive.

Kid/Hemtex does not accept the use of any RoHS Directive exemptions. Any proposal to use an exemption under the RoHS Directive **must** be approved in advance and in writing by Kid/Hemtex.

Still, if levels from exceptions exceed 1000 mg/kg, then the supplier must inform Kid/Hemtex. The supplier shall in that case also provide SCIP-registration number to Kid/Hemtex for the item containing SVHC above 0,1%.

If there is a conflict between a specific requirement in other parts of this PSR and a requirement or provision in RoHS, then the requirement in the RoHS directive shall apply.

Note the requirements for PVC in section 4.2.5.16.

Note also requirements for flame retardants, and other restricted chemical substances.

Chemical substance	CAS No	Limit value (mg/kg)	Test methods
Cadmium, Cd and cadmium salts	7440-43-9, 1306- 19-0, 1306-23-6, 10108-64-2, 7790-79-6, 10124-36-4, 31119-53-6	100	The harmonized standard EN 50581 shall be followed for showing full compliance with directive. XRF, screening* Note also the EN 62321 series for showing compliance.
Hexavalent Chrome, Cr +6	18540-29-9	1000	Valid for all homogenous materials in EE
Lead, Pb Mercury, Hg	7439-92-1 7439-97-6	1000	products. Note that articles shall not be placed on the market, if the concentration of lead is equal to or greater than 0,1 % by weight of the PVC material. Note also the requirements related to PVC in section 4.2.5.16.

^{*}Materials may be screened with XRF for an indication of presence of heavy metals.

4.2.5.12 Heavy metals in batteries

Requirements based on Regulation (EU) 2023/1542 on Batteries and EU Ecolabel. Note also substances of relevance included in the Candidate list. For example 1,2-dimethoxyethane.

Chemical substance	CAS No	Limit value w/w% (x ppm)	Limit value Mid/ high prize product, ppm (Nordic Ecolabel)	Test methods
Mercury, Hg	7439-97-6	0,0005w/w% (5 ppm)	< 0,1 ppm	Battery Industry Standard Analytical Method. For the
Cadmium, Cd	7440-43-9	0,002w/w % (20 ppm)	< 1,0 ppm	determination of Mercury, Cadmium and Lead in Alkaline
Lead, Pb	7439-92-1	0,004w/w % (40 ppm)	< 10 ppm	Manganese Cells Using AAS, ICP-AES and Cold Vapour, European Portable Battery association (EPBA), Battery Association of Japan (BAJ), National Electrical Manufactures Association (NEMA; USA) April 1998 Comparable test method can be approved if it, by an independent party, has been valued and estimated as equal to the recommended methods.

4.2.5.13 Nickel in metals with intended contact with skin

Requirement based on REACH. Annex XVII. entry 27.

Chemical substance	CAS No	Limit value µg/cm² and week	Test method
Nickel, Ni, in metal with intended prolonged* skin contact. >10 min on three or more occasions or, >30 min on one or more occasions within two weeks	7440-02-0	0,5 Note result interpretation in standard.	Screening test with dimethyl glyoxime and ammonium hydroxide, if positive: Part with coating or plating: EN 12472:2005 +A1:2009 and EN 1811:2023
For metal accessories pierced from the skin, such as the pin at an earring	7440-02-0	0,2 Note result interpretation in standard.	Part without coating or plating: EN 1811:2023

^{*}See definition of prolonged skin contact in the case of Nickel restriction; http://echa.europa.eu/documents/10162/13641/nickel restriction prolonged contact skin en.pdf



4.2.5.14 PFAS, Per and polyfluorinated alkyl substances*

Requirement based on REACH Candidate list, REACH Annex XVII, Stockholm Convention on Persistant Organic Pollutants (POPs), and Kid/Hemtex policy.

Persistant Organic Pollutants (POPs), and Kid/Hemtex policy. Chemical substance						
Chemical substance	Acronym	Number	rest method	Target material		
PFSA related substances			Not detected	Textile,		
Perfluoroctane sulfonate	PFOS	1763-23-1	in product or	Coatings and		
Perfluoroctanesulfonamide	PFOSA	754-91-6	packaging.	impregnations, Paints		
			1. Start with	Fairits		
N-Methyl-Perfluoroctanesulfonamide	N-Me-FOSA	31506-32-8	non-targeted	Note		
N-Ethyl-Perfluoroctanesulfonamide	N-Et_FOSA	4151-50-2	analysis: EN	requirements in		
N-Methyl- Perfluoroctanesulfonamidoethanol	N-Me-FOSE	24448-09-7	14582:2016	Appendix 4.1		
N-Ethyl-	IN MIC I COL	24440 03 7	and/or EN 17813:2023,	"PSR Quality" regarding Food		
Perfluoroctanesulfonamidoethanol	N-Et-FOSE	1691-99-2	(Total	contact		
Perfluorohexane sulfonate and its			fluorine)	products		
related substances	PFHxS	355-46-4	analysis.			
Perfluorobutane sulfonic acid and its salts	PFBS	various	2. Follow with	Note: PFHxA		
Perfluamine	PFA	338-83-0	targeted	including its related		
	PFA	330-03-0	analyses for	substances are		
PFCA related substances		T	specific PFAS	REACH		
Perfluoroctane acid	PFOA	335-67-1	substances	restricted in		
Perfluorononanoic acid	PFNA	375-95-1	regardless of the obtained	entry 79.		
Perfluorodecanoic acid	PFDA	335-76-2	total fluorine			
Perfluoroundecanoic acid	PFUnA	2058-94-8	test result.			
Heptacosafluorotetradecanoic acid	PFTA	376-06-7	Targeted			
Tricosafluorododecanoic acid	PFDoA	307-55-1	analyses:			
Pentacosafluorotridecanoic acid	PFTrDA	72629-94-8	EN 17681-			
Ammonium pentadecafluorooctanoate	APFO	3825-26-1	1:2025			
Sodium perfluorooctanoate	Na-PFO	335- 95-5	(textile)			
Potassium perfluorooctanoate	Ca-PFO	2395-00-8	EN ISO			
Silver perfluorooctanoate	Ag-PFO	335-93-3	23702-1:2023			
Perfluorooctanoyl fluoride	F-PFO	335-66-0	(leather)			
Methyl pentadecafluorooctanoate	Me-PFO	376-27-2				
Ethyl perfluorooctanonate	Et-PFO	3108-24-5				
Perfluorobutanoic acid	PFBA	375-22-4				
Perfluoropentanoic acid	PFPeA	2706-90-3				
Perfluorohexanoic acid and its related	1110/1	270000	1			
substances	PFHxA	307-24-4				
Perfluoroheptanoic acid	PFHpA	375-85-9				
2,3,3,3-tetrafluoro-2-						
(heptafluoropropoxy)propionic acid 2,3,3,3-tetrafluoro-2-	HFPO-DA	13252-13-6				
(heptafluoropropoxy) propionyl		2062-98-8				
fluoride		2002 00 0				
Ammonium 2,3,3,3-tetrafluoro-2-]			
(heptafluoropropoxy)propanoate		62037-80-3	-			
Potassium 2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionate		67118-55-2				
reaction mass of 2,2,3,3,5,5,6,6-		07 110-00-2	1			
octafluoro-4-(1,1,1,2,3,3,3-						
heptafluoropropan-2-yl)morpholine		Several				



Chemical substance	Acronym	CAS Number	Test method	Target material
and 2,2,3,3,5,5,6,6-octafluoro-4- (heptafluoropropyl)morpholine				
Flourtelomers (precursors)				
4:2 fluorotelomer sulfonate	4:2 FTS	757124-72-4		
6:2 fluorotelomer sulfonate	6:2 FTS	27619-97-2		
8:2 fluorotelomer sulfonate	8:2 FTS	39108-34-4		
1H,1H,2H,2H-Perfluorooctylacrylat	6:2 FTA	17527-29-6		
1H,1H,2H,2H-Perfluorodecylacrylat	8:2 FTA	27905-45-9		
1H,1H,2H,2H-Perfluorohexanol	4:2 FTOH	2043-47-2		
1H,1H,2H,2H-Perfluoro-1-octanol	6:2 FTOH	647-42-7		
1H,1H,2H,2H-Perfluoro-1-decanol	8:2 FTOH	678-39-7		
1H,1H,2H,2H-Perfluorododecane-1-ol	10:2 FTOH	865-86-1		

^{*}Note the general ban of PFAS in Kid/Hemtex assortment and in packaging, given in section 3.5.8 of the PAR. Kid/Hemtex approves Bionic Finish Eco from Rudolf Group, OrganoTex from OrganoClick, Arkophob by Acroma, and Phobotex PFC-free products from Huntsman as alternatives for water repellent treatments.

4.2.5.15 Phthalates

Requirements based on REACH Annex XVII, Annex XIV, Candidate list, RoHS directive and Kid/Hemtex policy.

Chemical substance	CAS RN	Required Limit value (mg/kg)	Test method	Target material(s)
DIBP*	84-69-5	Sum of all	Extraction and GC-	PVC**
DBP*	84-74-2	listed <1000	MS, with possible	PU
BBP*	85-68-7		reference to	EVA
DEHP*	117-81-7		standards:	Rubber
DMEP	117-82-8		EN ISO 14389:2022	Paint
DNOP	117-84-0		EN ISO 18856:2005	Lacquers
DIDP	26761-40-0,		CPSC-CH-C1001-	
	68515-49-1		09.3	
DINP	28553-12-0,		ISO 8124-6	
	68515-48-0		EN 100 40404	
DHNUP	68515-42-4		EN ISO 16181-	
DIHP	71888-89-6		1:2021 (footwear, Determination of	
1,2-Benzenedicarboxylic	84777-06-0		phthalate with	
acid, dipentylester, branched			solvent extraction)	
and linear			Solveni extraction)	
DIPP	605-50-5		EN ISO 16181-	
N-pentyl-iso pentylphthalate	776297-69-9		2:2021 (footwear,	
DPP	131-18-0		Determination of	
Dihexyl phthalate (DnHP)	84-75-3		phthalate without	
1,2-Benzenedicarboxylic	68515-50-4		solvent extraction)	
acid, dihexyl ester, branched and linear			,	
1,2-Benzenedicarboxylic	68515-51-5			
acid, di-C6-10-alkyl esters	68648-93-1			
with,1,2-benzenedicarboxylic				
acid, mixed decyl and hexyl				
and octyl diesters with ≥				
0.3% of dihexyl phthalate				
DCHP (dicyclohexyl	84-61-7			
phthalate)				
Diisohexyl phthalate	71850-09-4			

^{*}Regulated in RoHS directive for electrical and electronic equipment

**See separate requirement for PVC in this chapter and in PAR 3.5.8 and 4.2.5.16.

4.2.5.16 **PVC, Polyvinylchloride**

Requirement based on Kid/Hemtex policy, section 3.5.8 of PAR.

Chemical	CAS No	Requirement	Test method
substance			
PVC	9002-86-2	Packaging and products shall	Screening test: Beilstein/Flame test
		not contain PVC.	or XRF.
		Exceptions decided by	(In case of positive screening test,
		Kid/Hemtex Management can be	FTIR test shall be performed)
		made if specific technical and/or	
		quality requirements exist, and if	If decided exception, test:
		there are no equivalent materials	DINP, DIDP, DNOP, and any
		on the market. If exception is	plasticizers.
		given, plasticizers DINP, DIDP,	See also chapters Bisphenoles,
		DNOP, and any plasticizers in the	Short Chain Chlorinated Paraffines,
		REACH candidate list,	Flame retardants, metal-based
		Bisphenols, SCCP, and the metal-	stabilizers tin (Sn), cadmium (Cd)
		based stabilizers tin (Sn),	and lead (Pb) and Organotin
		cadmium (Cd) and lead (Pb) are	compounds for testing methods.
		not allowed in the PVC.	

4.2.5.17 **Siloxanes**

Requirements based on REACH Candidate list and the Regulation (EC) No 1223/2009 on cosmetic products

Chemical substance	CAS No	Required Limit value (mg/kg)	Test method	Target material(s)
Octamethyltrisiloxane (D3)	107-51-7	Sum <1000	GC-MS	Textiles
Octamethylcyclotetrasiloxane (D4)	556-67-2			Cosmetic and
Decamethylcyclopentasiloxane (D5)	541-02-6			personal care
Dodecamethylcyclohexasiloxane	540-97-6			Paper and
(D6)				cardboard
, ,				Polymers

4.2.5.18 Other product related chemicals

Chemical substance	CAS No	Required Limit value (mg/kg)	Test method	Target material(s)
2-(4-tert-butylbenzyl)propionaldehyde (BMHCA or Butylphenyl Methylpropional) and its individual stereoisomers Commonly known as <i>Lilial</i> , a synthetic fragrance with floral scent reminiscent of lily of the valley	75166-31-3 80-54-6 75166-30-2	Not detected		Cleaning agents, scented products, cosmetics Note: Cosmetics Reg. bans BMHCA
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1] heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	1782069-81-1 95342-41-9 852541-25-4 36861-47-9 741687-98-9 852541-30-1 852541-30-1	Sum < 1000		Cosmetics, sunscreen preparations.
Perchlorates	14797-73-0	60 mg/kg	LC-MS	Batteries (Lithium, coin cell)



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Chemical substance	CAS No	Required Limit value (mg/kg)	Test method	Target material(s)
Aniline	62-53-3	< 10 mg/kg in toys intended for children under 36 months		Toys (textile, leather, polymers)

4.2.6 Biocidal agents

Biocidal agents are both used as process chemicals to prohibit growth of microbes in supply chain and as product related chemicals to render biocidal property to the finished article.

Kid/Hemtex do not accept any if its products having.

- Antibacterial treatment as additives if the active substances remain in the finished product as delivered.
- Anti mould finishes

Biocides used in production, storage or transport shall meet requirements in biocide regulation 528/2012 unless stated as limited in this PSR.

Requirements based on Biocidal Products Regulation BPR (EU) 528/2012, (existing biocides), REACH (restricted biocides) POPs Regulation, Water framework directive and Kid/Hemtex Policy and guidelines.

Biocidal substances with decision of non-approval shall be phased out within 180 days from the day of decision. http://echa.europa.eu/regulations/biocidal-products-regulation/treated-articles

Note requirements for other substances also with biocide function, such as: Borate compounds, Toxic heavy metals, Organotin compounds

Chemical substance	CAS No	adults	lue (mg/kg) children <36 months*	Test method	Target materials(s)
PHMB	27083-27-8 32289-58-0	Not dete	cted	No standardised test method	Leather Textile Wood
Carbendazim	10605-21-7			GC-MS, LC- MS.	Polymers
Permethrin	52645-53-1			Textile: GC-MS, LC-MS	
				Leather: EN ISO 22517	
Zincpyrithion	13463-41-7			LoQ 5 mg/kg GC-MS, LC-MS.	
				Detection limit 0,1 mg/kg	
Silver and its compounds	Several			ICP-MS, ICP- OES or AAS.	
				Detection limit 0,1 mg/kg	
Methyl Bromide	74-83-9	1,0	0,5	EN 17134-	
Ortho-phenyl phenol (OPP), (2-Phenyl phenol)	90-43-7	100	50	1:2024 2- phenylphenol	



Chamical autotopes	CAS No	1 ::4		To at weath a d	Taynot	
Chemical substance	CAS NO	adults	ilue (mg/kg) children	Test method	Target materials(s)	
		dadits	<36 months*		matorialo(o)	
Sodium Methyldithiocarbamate	137-42-8	1,0	0,5	(OPP) in textile materials GC-MS, LC- MS		
Dimethylfumurate, DMFu	624-49-7	0,1	0,1	ISO/TS 16186		
Triclosan and Triclocarban	Triclosan: 3380-34-5, Triclocarban: 101-20-2	Not dete	ected	EN 17134 (textiles) GC- MS, LC-MS Detection limit 10 mg/kg		
Cu-HDO	312600-89-8	1,0	1,0	ICP- AES		
Glutaral (Glutaraldehyd)	111-30-8	Not dete	ected	LC-UV, GC-UV		
Kathone	55965-84-9	10	1,0	GC-MS analysis	Preservative	
5-Chloro-2-methyl- isothiazolin-3(2H)-one	26172-55-4	7,5	0,75	after extraction with ethyl	aqueous materials,	
2-methylisothiazolin-3(2H)- one	2682-20-4	2,5	0,25	acetate	Cosmetics, Detergents	
1,2,Benzisothiazol 3(2h)One	2634-33-5	1,0	0,5			
2-Octyl-2h-Isothiazol-3-One	26530-20-1	1,0	0,5			
Parabenes (various) incl. Butyl 4-hydroxybenzoate (Butylparaben) and Isobutyl 4-hydroxybenzoate (isobutylparabene (IBP))	94-26-8 4247-02-3	100	Not detected	GC-MS, LC-MS		
Chlorinated Phenols						
Pentachlorophenol, PCP	87-86-5, 131-52-2	Not dete	ected	ISO 17070 (leather)	Textile Leather	
Tetrachlorophenols TeCP	935-95-5 58-90-2 4901-51-3 And other isomers TeCP			EN 17134- 2:2023 (textiles) LOQ 0.1 mg/kg CEN/TR 14823 (wood) EN ISO 15320 (Pulp, paper and board)	Wood	
Tributyltin compounds	<u> </u>	<u> </u>		and bodiuj		
Tributyltin oxide (TBTO)	56-35-9	Not dete	ected	EN ISO	Textile	
Tributyltin chloride	1461-22-9	1		22744-1, -2	Leather	
Tributyltin fluoride	1983-10-4	1		(textiles)		
Tributyltin methacrylate	2155-70-6	1				
Tributyltin benzoate	4342-36-3	†		Possible		
Tributyltin linoleate	24124-25-2	1		reference to;		

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Chemical substance	CAS No	Limit value (mg/kg) adults children <36 months*	Test method	Target materials(s)
Tributyltin naphthenate	85409-17-2		ISO/TS 16179 EN ISO 17353 (water and sediment)	

^{*&}quot;Items that might come into contact with children" are products such as bed sheets, bed sets, pillowcases, towels, and similar products from Kid/Hemtex's assortment.



4.2.7 Chemical testing procedure

The maximum limits shall never be exceeded in any product supplied to Kid/Hemtex. It is the supplier's responsibility to make sure that all chemical requirements are met.

Kid/Hemtex will on regular basis ask for test reports according to the below specified procedure. Kid/Hemtex reserve the right to perform inspections and tests on any ordered products, at any time and at any stage of production.

If any deviations from the requirements are found, Kid/Hemtex reserve the right to

- cancel the order,
- claim compensation or
- take any other action in accordance with the General Agreement.

All chemical testing shall be done according to instructions given in PSR Appendix 4.1, chapter 4.1.1 at laboratories approved and listed in chapter 4.1.2

Kid/Hemtex routine for testing chemicals is **based on two different way of work** and Kid/Hemtex will on regular basis ask for test reports according to below specified procedures:

- One way is random chemical testing where one nominated chemical is tested each quarter.
 The target materials to be tested are defined in the instruction sent out each quarter.
 Approximately 10% of the orders placed by Kid/Hemtex at each supplier should be tested for the specified chemical each quarter, maximum 3 orders per supplier and quarter.
- 2. The other way is that Kid/Hemtex for every order test **the basic chemicals** included in the testing chart for quality requirements in Appendix 4.1.

In addition to above two ways of working, if there in Kid/Hemtex assortment are products that could have an increased risk of finding one of the restricted chemicals, Kid/Hemtex will choose specific chemicals for these products which is required to be tested on a regular basis during the year.

If a failed test report is received a decision how to handle the actual order will be taken and an action plan will be established. Three follow up tests on suppliers following orders will be included in the action plan.



4.2.7.1 Checklist for laboratories

This checklist is to be used by the laboratories performing tests for Kid/Hemtex items. The selected test methods in this PSR shall be used to the utmost extent.

If there are published EN or EN ISO or ISO methods available always use that method and clearly report in the test protocol. If other methods are used e.g., in-house test methods, always carefully answer each section below.

In case the applied EN, EN ISO or ISO method is modified by the test laboratory, always report these modified procedures in the test report.

All test reports should be signed by an authorised person at the laboratory.

Testing

For those chemical substances to be tested, where no official international standard test method exists, the test report should include the following:

4.2.7.1.1 Sample preparation

- Amount of specimen for preparation, weight, and size
- procedure of extraction, solvents used, and equipment used for extraction e.g., Soxhlet

4.2.7.1.2 Instrumental performance

- instrument used e.g GC-MS etc.
- lab specific detection limit(s) where preferably LOQ (limit of quantification) are reported
- standard deviation in analytical results

4.2.7.1.3 Other information of importance

- describe modified procedures from applied established ISO/EN standard methods if available.
- always present test results in mg/kg
- description of the recalculation from mg/kg if the test result is presented in another unit e.g ppm, ppb, ug/kg etc

4.2.7.1.4 Instruction to the laboratory

- always present the actual test result of the analysis and not any letter combinations if not properly described e.g N/A
- if not detected, report always below the actual LOQ (< LOQ) values



4.2.8 Chemical guideline overview

Below are examples and guidelines of what chemicals can most probably be found in which materials to help minimize the risk of product failure. Please note that the restricted and limited substances should not be found in quantities higher than stated in our requirement list in any of Kid/Hemtex products.

	Textile Material									Miscellaneous									
	Natural	material	Synthetic material									Pla	stic		Min	nerals			
Substance	Cellulosic textile (e.g., Cotton, Viscose, Flax)	Proteinic natural textile (e.g., Wool, Silk)	PU- elastane	PES	PA	Acrylic, Modacrylic	Prints for textile		Down	Metal	Rubber	EVA	PU/ TPU	PVC (material or print)	Melamine	Ceramic & Glass	Gipsym	Wood	Adhesives and glues
								Process I	related che	emicals									
AP, APEO	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х			Х					
Bisphenols							X Thermal	Х			Х		Х	Х					
Chlorinated Organic Solvents and Carriers				Х		Х	X	Х		х				х					Х
Pesticides	Х	Х						Х	Х										
PAH			Х				Х	Х			X Black	X Black	X Black	Х	X Black				
Quaternary ammonium compounds	Х			Х	х	Х	Х							х					
Solvents			х			Х	Х	X Printed, coated			Х	Х	Х	Х					Х
Organotin compounds			Х	Х	Х	Х	Х	Х			Х	Х	Х	Х					Х
Melamine	Х							Х						Х	Х				
								Product i	elated che	emicals									
Aromatic Amines	Х	Х	Х	Х	Х	Х	Х	Х						Х					
Borate compounds														Х				Х	
Benzotriazoles					Х	Х					Х	Х	Х	Х					
Dyes Pigment Colorants														Х				X Coloured paper	





				Textil	le Mat	erial									Miscella	neous			
	Natural	material	,	Synthetic material									Pla	stic		Min	erals		
Substance	Cellulosic textile (e.g., Cotton, Viscose, Flax)	Proteinic natural textile	PU- elastane	PES	PA	Acrylic, Modacrylic	Prints for textile	Leather	Down	Metal	Rubber	EVA	PU/ TPU	PVC (material or print)	Melamine	Ceramic & Glass	Gipsym	Wood	Adhesives and glues
CMR	Х	Х	Х	Х	Х	Х	Х	Х						Х					
Allergenic Dyes				Х	Х	Х	Х							Х					
Pigment Salts							Х			Х	Х	Х	Х	Х	Х	Х			
Flame retardants	Х	Х	Х	Х	Х		Х						Х	Х					
Formaldehyde	Х	Х					Х	Х						Х	Х			Х	Х
Toxic Heavy Metals & their compounds:														х					
- Antimony, Sb				Х										X					
- Arsenic, As																X	Χ	X	
- Cadmium, Cd			Х	Х	Х		Х	X Coated		X Enameld	Х	Х	Х	Х		Х		Х	
- Chromium VI and its compounds		Х			Х			X		X Chromating				х					
- Chromium, Cr										Х				Х					
- Cobalt, Co		Х			Х					X Deep blue green				х		X Deep blue green			
- Copper, Cu		Х			Х									Χ				Х	
- Lead, Pb							Х			X Brass	Х	Х	Х	Х		X Black			
- Mercury, Hg							Х			X	Х	Х	Х	Х		Diack	Х	Х	
- Nickel, Ni										Х				Х					
PFAS	X Water repellent anti-pilling	X Anti-pilling		Water Ant	X repelle i-pilling	nt	X Surfactant	X Coated	Х	X Chromating				х					
Phthalates			Х				X	Х			Χ		Х	Х					Χ
Biocidal agents	Х	Х	Х	X	Х	Х	Х	Х	Х		Х	Х	Х	Х				Х	Х





4.2.9 Revision log ver. 2.0 - 2025: Chapter 4.2 PSR Chemical.

Version 1.5	Change
4.2.1	- Non-substantive edit to the text
	- Throughout the document, replace old abbreviation 'HPI' with 'PSR'
4.2.2	- Minor formatting update to table rows.
	- Added General Product Safety Regulation 2023/988.
	- Added Batteries Directive 2006/66/EC as amended and new Batteries Regulation (EU) 2023/1542.
	- Added Packaging and Packaging Waste Regulation 2025/40 (PPWR).
	- Added Ban on BPA and other bisphenols and bisphenol derivatives in FCM per Regulation (EU) 2024/3190
	- Added Commission Regulation (EU) 2025/351 on plastic FCMs
	- Removed information about exceptions for sensitizing substances.
4.2.3	- Updated date in first sentence of first paragraph, and reference to section 4.2.2 in first paragraph.
	- Added clarity on certification requirement that all textiles in contact to skin and in the home shall be certified to OEKO-TEX® STANDARD 100®
	- Added bold formatting to section on 'Chemical requirements concerning EEE product; updated link to the Declarable Substances List (DSL) on the
	International Electrotechnical Commission website 'EC 62474 - Material Declaration for Products of and for the Electrotechnical Industry'; and added text
	for additional clarity.
	- Added information on that Kid/Hemtex EEE product must comply with the limits in the RoHS Directive. Kid/Hemtex does not accept the use of any RoHS
	Directive exemptions. Any proposal to use an exemption under the RoHS Directive must be approved in advance and in writing by Kid/Hemtex.
	- Added REACH, Annex XVII, entry 78 restriction on synthetic polymer microparticles.
4.2.4.1	- Update for clarity on EN ISO 18218-1 and 18218-2 for APEO in leather
	- Added full chemical name of TNPP
4.2.4.2	- Added Bis(4-chlorophenyl) sulphone (BPCS)
	- Updated the test methods to EN ISO 11936 (leather) and minor formatting
4044	- Added ban of BPA in FCM per Commission Regulation (EU) 2024/3190
4.2.4.4	- Updated the test methods for all Isocyanates to: EN 13999-4:2007+A1:2009 (adhesives); EN ISO 10283:2007 (paints and varnishes) and EN ISO
4040	14896:2009 (Polyurethane materials)
4.2.4.8	- Added prEN 17131-1 (textile) for testing DMAC and NMP
4.0.4.40	- Updated 1,4-dioxane, CAS 123-91-1 to 10 mg/kg per OEKO-TEX STANDARD 100 new limitations on SVHCs
4.2.4.10	- Added Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO); CAS 75980-60-8
	- Added Bis(α,α-dimethylbenzyl) peroxide (also called Dicumyl peroxide) as SVHC
	 Added 6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid as SVHC Added Reaction mass of triphenylthiophosphate and tertiary butylated phenyl derivatives as SVHC
4.2.5.1	 Added prEN ISO 13144 for testing quinoline Added clarity on test method for 4-Aminoazobenzene, CAS 60-09-3
4.2.5.3	- Updated to reflect POPs requirement for UV-328 and LOQs for all substances
4.2.5.4	
4.2.3.4	 Updated test methods for CMR dyes and allergenic dyes where the method valid since 2014 for extractable dyes is EN ISO 16373-2:2014 (textile), but the solvent used in this method is pyridine, which is very dangerous and unpleasant to handle for many labs, whereby these labs refused to perform this
	analysis according to EN ISO 16373-2:2014. Thus, Germany has proposed an alternative method, DIN 54231:2022-09, which uses methanol, which is
	analysis according to EN 150 10575-2.2014. Thus, Germany has proposed an alternative method, Din 54251.2022-09, Which uses methanol, Which is





	considered "kinder" than pyridine. DIN 54231:2022-09 is available in both English and German and has been proposed as a new EN standard and
	would thus replace EN ISO 16373-2:2014 (textile) when approved.
4.2.5.6	- Updated to clearly reflect POPs requirement for Dechlorane™ Plus as not detected
	- Added O,O,O-triphenyl phosphorothioate (TPPT), CAS 597-82-0 as SVHC
4.2.5.7	- Formaldehyde release – new restriction in entry 77 regarding the following: Formaldehyde shall not be placed on the market in articles, after 6 August 2026, if, under Chamber method test conditions, the concentration of formaldehyde released from those articles exceeds:
	0,062 mg/m3 for furniture and wood-based articles
	0,080 mg/m3 for articles other than furniture and wood-based articles
	Note: Exceptions apply, such as PPE, FCM, and content of formaldehyde in textiles within EU/EEA applies to REACH annex XVII entry 72 since 1
	November 2020. This restriction replaces several national restrictions in EU/EEA, such as emissions from resin-bonded wooden toys in the Toy Safety
	Directive (TSD), so follow entry 77 in that case.
4.2.5.8	- Updated reference to the General Product Safety Regulation (EU) 2023/988 (GPSR)
4.2.5.9	- Updated test method to:
	EN 12472:2020 (simulation of accelerated wear and corrosion)
	EN 1811:2023 (migration test of coated or non-coated items) for nickel-plated objects
4.2.5.10	- Updated to reflect new EU Packaging and Packaging Waste Regulation (PPWR)
4.2.5.11	- Updated to reflect RoHS policy in section 4.2.3.
	- Updated for lead in PVC, where articles shall not be placed on the market, if the concentration of lead is equal to or greater than 0,1 % by weight of the
	PVC material, which shall apply with effect from 29 November 2024.
	- Updated related to PVC policy in section 4.2.5.16.
4.2.5.13	- Updated test method to EN 1811:2023 for nickel-plated objects
4.2.5.14	- Updated PFHxS and its related substances for further clarity.
	 Updated test schedule for PFAS per Textile Importers recommended test schedule and RISE new test standard to measure PFAS in textiles EN 17681-1:2025
	- Per RISE Jan 2025 Update, EN/TS 15968 for testing PFOS was removed as it was withdrawn 1 May 2024, and replaced by EN 17681-1:2025, which
	introduces significant changes in the extraction method, leading to greater detection of PFAS compounds. Specifically, EN 17681-1:2025 uses alkaline
	hydrolysis, which breaks covalent bonds in certain side chain fluorinated polymers, resulting in the release and detection of additional PFAS compounds
	such as fluorotelomer alcohols (FTOHs) compared to previous method.
	- Removed the text related to 'PFAS impurities are accepted'
	- Noted the new PFHxA restriction in REACH, Annex XVII, entry 79.
	- Added Perfluamine, CAS 338-83-0 as SVHC, included in the Candidate list 21 January 2025
	- Added clarity that PFAS ban applies to both product and packaging.
	- Formatting updated
4.2.5.15	- Clarification regarding analysis of phthalates in footwear
	EN ISO 16181-1:2021 (footwear, Determination of phthalate with solvent extraction)
	EN ISO 16181-2:2021 (footwear, Determination of phthalate without solvent extraction)
4.2.5.16	- Formatting updated
4.2.5.17	- Added Octamethyltrisiloxane (D3), CAS 107-51-7
4.2.5.18	- Updated to reflect Cosmetics Regulation ban of BMHCA per March 2022, additional names of BMHCA, and new Kid Group policy for it not to be
ı	detected in any product (household cleaning agent, candles, etc., as well as cosmetics) due to it being found by the Scientific Committee on Consumer
	Safety to be harmful to the reproductive system, affecting fertility and posing risk to an unborn child's health. It could also lead to skin sensitisation and is





	being studied as a substance that could disrupt the endocrine (hormone) system. New Kid Group policy also due to significant (thousands) of product recalls alerted on EU Safety Gate, which as of 2024 the number of alerts are steadily increasing each year since 2022 for both high-priced, trusted brands and lesser-known, low-priced brands.
4.2.6	 Updated test method for PCP and TeCP to EN 17134-2:2023 for textiles LOQ 0.1 mg/kg. Removed test method for PCP and TeCP 'XP G 08-015 (PCP in textiles) with detection limit: 0.05 mg/kg'. Updated (update marked yellow) test method for the biocides OPP and triclosan in textile materials EN 17134-1:2024 (2-phenylphenol (OPP) and triclosan in textile materials)
4.2.8	- Updated the table to reflect PVC in the materials on the y-axis
4.2.9	- Update Revision Log to reflect changes in version 1.5 in May 2025