




# H&M GROUP CHEMICAL RESTRICTIONS 2022

RESTRICTED SUBSTANCES LIST (RSL)

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NON-COMMERCIAL GOODS (NCG), CONSTRUCTION AND PACKAGING

Group Compliance. Valid for all brands in the H&M Group.





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## General

H&M Group has with concern for the health of customers as well as for the environment and working conditions, established H&M Group Chemical Restrictions for all products. H&M Group Chemical Restrictions consist of several parts with regard to different product types; this document concerns Chemical Restrictions for Non-Commercial Goods (NCG), Construction and Packaging. Each limit in H&M Group Chemical Restrictions is valid for homogeneous parts of the concerned product if not otherwise stated. **Test methods are specified in relevant part in document. In case of undated test method, the latest version is valid.**

All official documents related to chemical compliance are available on the Supplier Portal as well as on [www.hmgroup.com](http://www.hmgroup.com).

Please find out more about H&M Group Chemical Management [here](#).

***The official and valid version of this document is in English. Any translation of the document is prepared for reference only. H&M Group accepts no liability for any mistakes done in the translation.***

## Commitment

By accepting H&M Group Standard Purchase Conditions, the Supplier commits to comply with H&M Group Chemical Restrictions. The Supplier is responsible to assure compliance and to inform all their upstream suppliers and subcontractors about its content.

By accepting H&M Group Standard Purchase Conditions, each Supplier acknowledges that H&M Group reserves the right to:

- Inspect and test any product, any part of production and/or packaging, by any listed or appropriate method, at any time or at any stage of production.
- Cancel the Order, or, if the products are already delivered, return the products to the Supplier if the product, production and/or packaging do not correspond to the H&M Group Chemical Restrictions.
- Hold the Supplier responsible for any damage caused by the ordered product if the product, production and/or packaging do not correspond to the H&M Group Chemical Restrictions.
- Receive Safety Data Sheets (SDS) for all substances and preparations (dyes, colorants, solvents, chemicals, etc.) used in the production of a specific Order.
- Request the Supplier to change substances and preparations (dyes, colorants, solvents, chemicals, etc.) used in the production to comply with H&M Group Chemical Restrictions.

**In the case of contradictory test results, H&M Group test results will prevail.**

## Cosmetic packaging

The primary packaging<sup>1</sup> of all cosmetic products is a part of the cosmetic product. Therefore, primary packaging must comply with EU Cosmetic regulation. Both primary packaging and secondary packaging must comply with below listed restrictions and requirements. In addition, packaging of products aimed for children with play value should also follow the H&M Chemical Restrictions for Toys.

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<sup>1</sup> The primary packaging is the packaging layer coming in direct contact with the cosmetic formulation.

## Definitions

Concentration Limit	The substance must not be present in the product at concentrations above this limit.
Not Detected	The substance must not be present in the finished product at concentrations above the analytical reporting limit.
Usage ban	The substance or material must not be used in production and it must not be added to the product <sup>2</sup> .
Homogeneous	Uniform composition throughout, i.e. a material that cannot be mechanically disjointed into different materials.
Kinematic Limit	Describes how fast a fluid is spread on a flat surface in relation to its mass, i.e. weight.
Reporting limit	Describes the level of detection times a safety factor selected by the laboratory that ensures repeatability and reproducibility.
Self-declaration	All chemicals used should have Safety Data Sheets, SDS, showing that no restricted substance is included. Upon request supplier must be able to present the SDS for the chemicals used in the production of the requested product. Other supporting documents such as certificates from subcontractors etc. can also be considered as a part of the SDS.
Substances defined as hazardous due to intrinsic properties.	Persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB), carcinogenic, mutagenic and toxic for reproduction (CMR), endocrine disruptors (ED) or equivalent concern.

## Abbreviations

CAS no	Chemical Abstracts Service number, an identification number for chemicals in this database.
CI no	Color Index number
cSt	centistokes, which is the same as 1mm <sup>2</sup> /s. This is the unit used for kinematic viscosity.
MRS�	Manufacturing Restricted Substances List
ppm	Parts per million, which is the same as mg/kg.
Percentage	Percentage is weight by weight, % w/w
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
SVHC	Substances of Very High Concern

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<sup>2</sup> Impurities at low concentrations of these substances may be accepted only if technically unavoidable due to e.g. raw materials, formation in the manufacturing process, storage or packaging.

## Examples

All details on your product must comply with H&M group Chemical Restrictions, see examples below. The examples do not claim to be complete.

Product/Material	Material Category
Refrigerant, Water additives for fan coil units Pipe cleaning agents	<ul style="list-style-type: none"> <li>- All materials</li> <li>- CHEMICAL PRODUCTS</li> </ul>
Wiring, Conduits, Electrical outlets Electrical appliances in Back of House (e.g. dishwasher, microwave oven, TV)	<ul style="list-style-type: none"> <li>- All materials</li> <li>- ELECTRICAL &amp; ELECTRONIC EQUIPMENT</li> </ul>
Insulation (glass fiber, rockwool), Mirror glass Window glazing & balustrades (tempered, laminated) etc.	<ul style="list-style-type: none"> <li>- All materials</li> <li>- TERRACOTTA, ENAMEL, CEMENT, PLASTER, STONE, SOAPSTONE, MARBLE, CERAMIC, PORCELAIN, GLASS &amp; CRYSTAL</li> </ul>
Metal studs (galvanized), Nails, screws, nuts, bolts, Rebar, Piping	<ul style="list-style-type: none"> <li>- All materials</li> <li>- METAL</li> </ul>
Rubber or plastic mats, Window stickers, Lightbox cover (stretched ceiling), Tape etc.	<ul style="list-style-type: none"> <li>- All materials</li> <li>- PLASTIC, RUBBER, SILICONE &amp; FOAM</li> </ul>
Plasterboard, Moist-resistant plasterboard, Minerite, Grouting, Fix, Mudding (sand and gypsum based), Screed (sand/cement based), Floor leveling (cement based), Concrete and concrete curing accelerants, Filler agents etc.	<ul style="list-style-type: none"> <li>- All materials</li> <li>- TERRACOTTA, ENAMEL, CEMENT, PLASTER, STONE, SOAPSTONE, MARBLE, CERAMIC, PORCELAIN, GLASS &amp; CRYSTAL</li> </ul>
Water based paint, Oil based paint, Epoxy based paint,	<ul style="list-style-type: none"> <li>- All materials</li> <li>- SURFACE COATING, SURFACE TREATMENT, ADHESIVES &amp; HARDENER</li> <li>- PLASTIC, RUBBER, SILICONE &amp; FOAM</li> </ul>

Primer agents for metal structures, Construction glue, PVA (Poly Vinyl Acetate) Epoxy coating, Silicone, Latex, Acrylic, Sealants (membrane, moist barriers), Surface coating on metal profiles	
Acutex tiles Interior textile	<ul style="list-style-type: none"> <li>- All materials</li> <li>- TEXTILE AND LEATHER</li> </ul>
Textile boards	<ul style="list-style-type: none"> <li>- All materials</li> <li>- TEXTILE AND LEATHER</li> <li>- SURFACE COATING, SURFACE TREATMENT, ADHESIVES &amp; HARDENER</li> </ul>
Laminates Composites (e.g. Corian), Wood (studs, planks etc.) Plywood, OSB board, Chipboard, MDF Masonite Veneer (wood based) Boards made of agricultural material	<ul style="list-style-type: none"> <li>- All materials</li> <li>- BAMBOO, WOOD, COMPOSITE WOOD, CORK, RATTAN and STRAW</li> <li>- SURFACE COATING, SURFACE TREATMENT, ADHESIVES &amp; HARDENER</li> </ul>
Polymer board	<ul style="list-style-type: none"> <li>- All materials</li> <li>- PLASTIC, RUBBER, SILICONE &amp; FOAM</li> <li>- SURFACE COATING, SURFACE TREATMENT, ADHESIVES &amp; HARDENER</li> </ul>
Cosmetic primary packaging (e.g. foundation bottle) and secondary packaging	<ul style="list-style-type: none"> <li>- All materials</li> <li>- Material specific restrictions</li> </ul>
Child Appealing and Children's Cosmetic	<ul style="list-style-type: none"> <li>- All materials</li> <li>- Material specific restrictions</li> <li>- Packaging of products aimed for children with play value should also follow the H&amp;M Chemical Restrictions for Toys</li> </ul>
Aerosol products	<ul style="list-style-type: none"> <li>- All materials</li> <li>- METAL</li> <li>- PLASTIC, RUBBER, SILICONE &amp; FOAM</li> </ul>

	- H&M group Chemical Restrictions for Aerosol Dispensers
Cosmetic pencil (e.g. eyebrow pencil)	- All materials - Material specific restrictions
Chemical product packaging	- All materials - Material specific restrictions
Banderole/ Paper-top Shipping labels	- All materials - PAPER & CARDBOARD - SURFACE COATING, SURFACE TREATMENT & ADHESIVES
E-commerce bags Store bags	- All materials - Material specific restrictions
Care labels, Inside prints and size labels	When permanent on a commercial product the H&M Chemical Restriction for that product applies, e.g. textile labels (care and size label) in a t-shirt must comply with <i>H&amp;M Chemical Restriction Textile products Accessories Footwear bags and belts</i>
Hang tags and Display cards	- All materials - PAPER & CARDBOARD - PLASTIC, RUBBER, SILICONE & FOAM - TEXTILE (Natural & Synthetic), incl. pigment print and LEATHER
Self-adhesive labels	- All materials - PAPER & CARDBOARD - SURFACE COATING, SURFACE TREATMENT & ADHESIVES

## ALL MATERIALS AND GENERAL REQUIREMENTS

These requirements are applicable for all kinds of products

Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
<b>Acrylamide</b>				
	79-06-1	0.1 % (weight)	Self-declaration	-
<b>Antibacterial Treatment</b>				
Silver (Ag) and its salts and compounds	7440-22-4, Various	Usage ban	Self-declaration	-
Triclocarban	101-20-2		Self-declaration	-



ALL MATERIALS AND GENERAL REQUIREMENTS				
These requirements are applicable for all kinds of products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
Triclosan	3380-34-5		Solvent extraction, derivatization followed by GC-MS analysis	10 mg/kg
Other antibacterial treatments			Self-declaration	
Alkylphenol Ethoxylates / Alkylphenols (APEO /AP)				
Nonylphenol Ethoxylates (NPE)	Various e.g. 9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	100 mg/kg	<b>Textiles:</b> ISO 18254-1  <b>Leather:</b> ISO 18218-1  <b>Plastic, rubber, silicone, foam:</b> ISO 18254 Modified: THF/ACN extraction followed by LC-MS EN  <b>Paper, cardboard:</b> EN ISO 18254 Modified: Methanol extraction followed by LC-MS	30 mg/kg
Octylphenol Ethoxylates (OPE)	Various e.g. 9002-93-1 9036-19-5 68987-90-6	100 mg/kg		
Nonylphenol (NP)	Various e.g. 104-40-5 11066-49-2 25154-52-3 84852-15-3	5 mg/kg	<b>Textile:</b> Methanol extraction followed by GC-MS  <b>Leather:</b> ISO 18218-2	5 mg/kg
Octylphenol (OP)	Various e.g. 140-66-9 1806-26-4 27193-28-8	5 mg/kg	<b>Plastic, rubber, silicone, foam:</b> THF/ACN extraction followed by GC-MS  <b>Paper, cardboard:</b> EN ISO 18254 followed by GC/MS	
Asbestos				
	-	Usage ban	Self-declaration	-
Bisphenol A				
	80-05-7	Total content: 1 ppm.	Total content, all materials: Extraction: 1 g sample/20 ml THF,	1 ppm

ALL MATERIALS AND GENERAL REQUIREMENTS				
These requirements are applicable for all kinds of products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
			sonication for 60 minutes at 60 degrees C, analysis with LC/MS	
Chlorinated paraffins				
Short-chained (SCCP) C10-C13	85535-84-8	100 mg/kg	Combined CADS/ISO 18219:2015 method V1:06/17 (extraction ISO 18219 and analysis by GC/NCI/MS)	30 mg/kg
Medium-chained (MCCP) C14-C17	85535-85-9	1000 mg/kg		
Dimethylfumarate (DMFu)				
	624-49-7	0.03 mg/kg	ISO/TS 16186	0.03 mg/kg
Flame Retardants				
Decabromodiphenyl ethane (DBDPE)	84852-53-9	5 mg/kg <sup>3</sup>	EN ISO 17881-1:2016	5 mg/kg
Pentabromodiphenyl ether (PentaBDE)	32534-81-9			
Octabromodiphenyl ether (OctaBDE)	32536-52-0			
Decabromodiphenyl ether (DecaBDE)	1163-19-5			
Polybrominated diphenyl ethers (PBDE)	Various			
Polybromobiphenyls (PBB)	Various			
Tetrabromobisphenol A (TBBP A)	79-94-7			
Hexabromocyclododecane (HBCDD)	3194-55-6			
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0			
Bis(2,3-dibromopropyl)phosphate (BDBPP/BIS)	5412-25-9		EN ISO 17881-2:2016	
Tris(1,3-dichloro-isopropyl)phosphate (TDCCP)	13674-87-8			
Trixylyl phosphate (TXP)	25155-23-1			
Tris(2,3-dibromopropyl)phosphate (TRIS)	126-72-7			
Tris-(aziridinyl)-phosphine oxide (TEPA)	545-55-1			
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8			

<sup>3</sup> During a transition period until we have a more sustainable material in hangers, recycled polystyrene for use in hangers is exempt provided the flame retardants are unintentionally added. Instead the limit for the sum of PBDE's, TPhP and TBBPA is 1000 mg/kg. The provisional limit is valid until 31 Dec 2023..

ALL MATERIALS AND GENERAL REQUIREMENTS				
These requirements are applicable for all kinds of products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
Tri-o-cresyl phosphate	78-30-8			
Triphenyl phosphate (TPhP)	115-86-6			
Tris(1-chloro-2-propyl)phosphate (TCPP, TMCP)	13674-84-5			
Fluorinated Greenhouse gases				
EU regulation on fluorinated greenhouse gases <sup>4</sup>	-	Fluorinated greenhouse gases of Annex I of the regulation are prohibited		
Odor				
	-	Grade 2 – not unpleasant	Smell test according to SNV 195 651	1. No odor 2. Slight odor, not unpleasant 3. Endurable odor, slightly unpleasant 4. Pestering odor, unpleasant 5. Insufferable odor, very unpleasant
Nanomaterials				
Nanomaterials “‘Nanomaterial’ means a natural, incidental or manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50% or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm100 nm.” <sup>5</sup>	Various	General usage ban	Input control	
Organotin compounds				
Dibutyltin (DBT)	1002-53-5	1 mg/kg	CEN ISO/TS 16179	0.05 mg/kg
Diocetyltn (DOT)	94410-05-6	1 mg/kg		

<sup>4</sup> REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006

<sup>5</sup> European commission recommendation on the definition of nanomaterial (2011/696/EU), Official Journal of the European Union, 20.10.2011.

<b>ALL MATERIALS AND GENERAL REQUIREMENTS</b>				
These requirements are applicable for all kinds of products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
Dimethyltin (DMT)	Various	1 mg/kg		
Tributyltin (TBT)	56573-85-4	0.05 mg/kg		
Tricyclohexyltin (TCyHT)	6056-50-4			
Trioctyltin (TOT)	250252-89-2			
Triphenyltin (TPhT)	668-34-8			
Tripropyltin (TPT)	Various			
Sum of other not listed trisubstituted organotins		1 mg/kg		
<b>Perfluorinated Compounds (PFC/PFAS)</b>				
All per- and polyfluorinated compounds	Various	Usage ban	Input control	
See Appendix A	See Appendix A	For FTOHs: 10 µg/m <sup>2</sup> For Others: 1 µg/m <sup>2</sup>	For FTOHs: Solvent extraction according to CEN/TS 15968 and analysis by Gas Chromatograph Mass Spectrometer (GC-MS-MS)  For Others: CEN/TS 15968 Solvent extraction and analysis by Liquid Chromatograph Tandem Mass Spectrometer (LC-MS-MS)	For FTOHs: 10 µg/m <sup>2</sup> For Others: 1 µg/m <sup>2</sup>
<b>Phthalates – including all other esters of ortho-phthalic acid</b>				
Butyl benzyl phthalate (BBP)	85-68-7	500 mg/kg, per phthalate. The sum of phthalates ≤ 1000 mg/kg	<b>Sample preparation:</b> CPSC-CH-C1001-09.3  <b>Measurement:</b> <b>Textile:</b> GC-MS, ISO 14389 <b>Other materials:</b> GC/MS	Matrix dependent
Dibutyl phthalate (DBP)	84-74-2			
Di(2-ethylhexyl) phthalate (DEHP)	117-81-7			
Diisobutyl phthalate (DIBP)	84-69-5			
Diisodecyl phthalate (DIDP)	26761-40-0			
Diisononyl phthalate (DINP)	28553-12-0			

ALL MATERIALS AND GENERAL REQUIREMENTS				
These requirements are applicable for all kinds of products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
Di-n-octyl phthalate (DNOP)	117-84-0			
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8			
Di-n-hexyl phthalate (DnHP)	84-75-3			
Dinonyl phthalate (DNP)	84-76-4			
Diethyl phthalate (DEP)	84-66-2			
Di-n-propyl phthalate (DPRP)	131-16-8			
Diisopentylphthalate (DIPP)	605-50-5			
n-Pentylisopentylphthalate (NPIPP)	776297-69-9			
Di-cyclohexyl phthalate (DCHP)	84-61-7			
Di-iso-octyl phthalate (DIOP)	27554-26-3			
Di-n-pentylphthalate (DPP)	131-18-0			
Dihexylphthalate, branched and linear	68515-50-4			
Dimethylphthalate (DMP)	131-11-3			
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0			
1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4			
1,2-benzenedicarboxylic acid,di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6			
Polymers				
Polystyrene (PS) Expanded Polystyrene (EPS) High Impact Polystyrene (HIPS)	9003-53-6, 9003-55-8, etc.	Total ban in packaging including hangers will come into force end of 2023	Input control	
Acrylonitrile Butadiene Styrene (ABS)	9003-56-9	H&M Group aim to ban the use of these polymers end of 2025, in packaging material including hangers. Both virgin and recycled		
Acrylonitrile Styrene/Styrene Acrylonitrile (AS/SAN)	9003-54-7			
Methyl Methacrylate Acrylonitrile Butadiene Stvrene (MABS)	Various			

ALL MATERIALS AND GENERAL REQUIREMENTS				
These requirements are applicable for all kinds of products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
Styrene Methyl Methacrylate (SMMA)		polymers are in scope of upcoming restriction.		
Acrylonitrile Ethylene Propylen Styrene (AES)				
Other Styrene based polymers				
Styrene based Thermoplastic Rubber (TPR)				
Polycarbonate (PC)	Various			
	80-05-7			
Polyvinylchloride (PVC) and similar chlorinated polymers, e.g. Polyvinylchloride and Polychloroprene (neoprene)				
Polyvinylchloride (PVC)	9002-86-2	Usage ban	Input control or Beilstein’s test and infrared spectroscopy (IR) with or without chemical separation	Qualitative
Polyvinylidenchloride	9002-85-1			
Polychloroprene	9010-98-4			
REACH SVHC Check the ECHA website for the updated list <sup>6</sup>	-	1000 mg/kg in each homogeneous part of the product, except if lower limit applies as per other part of this document.		
Substances defined as hazardous due to intrinsic properties Criteria for hazardous as defined in REACH Article 57 <sup>7</sup>	-	1000 mg/kg in each homogeneous part of the product, except if lower limit applies as per other part of this document.		
Primary container/package for cosmetic products		Package shall not release any substance to, and/or react with the content, i.e. package must be inert.		
Carpets and Mats all material				
4-Phenylcyclohexene	4994-16-5	≤ 0.050 mg/m2/h	GB 18587-2001  Grade B (products qualified in respect of limitations of emitted harmful substances)	Specified in test method
Formaldehyde	50-00-0	≤ 0.050 mg/m2/h		
Styrene	100-42-5	≤ 0.500 mg/m2/h		
Volatile Organic Compounds, Total (TVOC)	-	≤ 0.600 mg/m2/h		

<sup>6</sup> [http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)

<sup>7</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:02006R1907-20150601&from=EN>



## SURFACE COATING, SURFACE TREATMENT, ADHESIVES AND HARDENERS

Restrictions is applicable for surface coating, surface treatment, adhesive and hardeners used in production of NCG products and packaging as well as during construction. The supplier shall make sure that only adhesives, hardeners, surface coating and treatments which are guaranteed by the producer to fulfil the requirements are used in the production. All products shall be used in accordance with process instructions established by the adhesive producer.

Restricted substance	CAS	Limit	Test method	Reporting limit
<b>Chromium VI (Cr6+)</b>				
	18540-29-9	Usage ban	EN ISO 17075	3 mg/kg
<b>Formaldehyde</b>				
Shall not be added to the surface coating/treatment, adhesive and hardener or be formed during curing	50-00-0	Usage ban	ISO 14184-1	16 ppm
<b>Diisocyanates</b>				
Diphenylmethane diisocyanate (MDI)	101-68-8	<p>H&amp;M Group aim to as far as possible use safer alternatives to Diisocyanates containing adhesives, hardeners and surface coatings in the production or as far as possible use adhesives and hardeners with a concentration of diisocyanates individually and in combination less than 0,1 % by weight.</p> <p>Shall not be used as substances on their own, as a constituent in other substances or in mixtures in production or by contractors unless:</p> <ul style="list-style-type: none"> <li>- The concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or</li> <li>- Suppliers ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s). Training shall be according to requirements in EU regulation 2020/1149<sup>8</sup> (amending Annex XVII in REACH) unless stricter local requirements are applied.</li> </ul>	ISO 10283 Extraction with a dried solvent, derivatization followed by LC/MS determination.	3 mg/kg
Hexamethylene diisocyanate (HMDI)	822-06-0			
Isophorone diisocyanate (IPDI)	4098-71-9			
Tetramethylxylene diisocyanate (TMXDI)	2778-42-9			
2,4-Toluene diisocyanate (2,4 TDI)	584-84-9			
2,6-Toluene diisocyanate (2,6 TDI)	91-08-7			
3,3'-dimethylbiphenyl-4,4'-diyl diisocyanate	91-97-4			
2,4,6-triisopropyl-m-phenylene diisocyanate	2162-73-4			
m-tolylidene diisocyanate	26471-62-5			
4,4'-methylenedicyclohexyl diisocyanate	5124-30-1			
2,4'-Methylenediphenyl diisocyanate	5873-54-1			
1,5-naphthylene diisocyanate	3173-72-6			
1,3- bis(isocyanatomethyl)benzene	3634-83-1			
2,2'-Methylenediphenyl diisocyanate	2536-05-2			

<sup>8</sup> <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32020R1149&from=EN>

### SURFACE COATING, SURFACE TREATMENT, ADHESIVES AND HARDENERS

Restrictions is applicable for surface coating, surface treatment, adhesive and hardeners used in production of NCG products and packaging as well as during construction. The supplier shall make sure that only adhesives, hardeners, surface coating and treatments which are guaranteed by the producer to fulfil the requirements are used in the production. All products shall be used in accordance with process instructions established by the adhesive producer.

Restricted substance	CAS	Limit	Test method	Reporting limit
Triglycidyl isocyanurate (TGIC)	2451-62-9	Powder coating shall not contain TGIC hardener. Contamination limit 0.1% by weight	Self-declaration	
<b>Metals, total amount</b>				
Cadmium (Cd)	7440-43-9	Usage ban Contamination limit value: 75 mg/kg	EN 14602 and EN 16711-1	1 mg/kg
Lead (Pb)	7439-92-1	Usage ban Contamination limit value: 90 mg/kg	CPSC-CH-E1003-09.1	1 mg/kg
Mercury (Hg)	7439-97-6	Usage ban Contamination limit value: 0.5 mg/kg		0.1 mg/kg
<b>VOCs in surface treatment</b>	Various	Applied amounts of actual VOC components should not exceed: 35 g/m <sup>2</sup> for domestic furniture	GC-MS screening for VOC content	

### TEXTILE (Natural & Synthetic), including pigment print and LEATHER

Restricted substance	CAS	Limit/Requirement	Test method	Reporting limit
All textile material, Natural and Synthetic including pigment prints and leather shall comply with AFIRM's Restricted Substances List (RSL), found at <a href="http://www.afirm-group.com/afirm-rsl/">www.afirm-group.com/afirm-rsl/</a>				

PLASTIC, RUBBER, SILICONE & FOAM				
Restricted substance	CAS	Limit	Test Method	Reporting Limit
Bisphenols in Polycarbonate (PC)	80-05-7	Extractable amount: 1 ppm	Extraction with artificial sweat solution ISO 105 E04 and LC/MS analysis.	1 ppm
Butylhydroxytoluen (BHT)	128-37-0	25 ppm	ASTM D4275	5 ppm
Chlorofluorocarbons (CFCs), Hydrochlorofluorocarbons (HCFCs)	Various	Usage ban	Self-declaration	-
Chlorophenols				
Pentachlorophenol (PCP) and its salts and esters	87-86-5	Sum 0.5 mg/kg	BVL B 82.02-08 (modified) Potassium Hydroxide extraction direct LC-MS analysis or derivatization followed by GC-MS analysis	0.05 mg/kg
Tetrachlorophenol (TeCP) and its salts and esters				
2,3,4,6-Tetrachlorophenol (2,3,4,6 TeCP)	58-90-2	Sum 0.5 mg/kg		
2,3,5,6 Tetrachlorophenol (2,3,5,6 TeCP)	935-95-5			
2,3,4,5-Tetrachlorophenol (2,3,4,5 TeCP)	4901-51-3			
Trichlorophenol (TrCP) and its salts and esters				
2,3,4-Trichlorophenol (2,3,4 TriCP)	15950-66-0	Sum 2 mg/kg		
2,3,5-Trichlorophenol (2,3,5 TriCP)	933-78-8			
2,3,6-Trichlorophenol (2,3,6 TriCP)	933-75-5			
2,4,5-Trichlorophenol (2,4,5 TriCP)	95-95-4			
2,4,6-Trichlorophenol (2,4,6 TriCP)	88-06-2			
3,4,5-Trichlorophenol (3,4,5 TriCP)	609-19-8			
Dimethylformamide (DMFa)	68-12-2	1000 mg/kg	Ultrasound extraction using ethylacetate followed by GC-MS analysis	10 mg/kg

PLASTIC, RUBBER, SILICONE & FOAM				
Restricted substance	CAS	Limit	Test Method	Reporting Limit
Formaldehyde	50-00-00	150 mg/kg	ISO 14184-1	16 mg/kg
Diisocyanates				
Diphenylmethane diisocyanate (MDI)	101-68-8	Not detected: sum of listed diisocyanates	ISO 10283 Extraction with a dried solvent, derivatization followed by LC/MS determination.	3 mg/kg
Hexamethylene diisocyanate (HMDI)	822-06-0			
Isophorone diisocyanate (IPDI)	4098-71-9			
Tetramethylxylene diisocyanate (TMXDI)	2778-42-9			
2,4-Toluene diisocyanate (2,4 TDI)	584-84-9			
2,6-Toluene diisocyanate (2,6 TDI)	91-08-7			
3,3'-dimethylbiphenyl-4,4'-diyl diisocyanate	91-97-4			
2,4,6-triisopropyl-m-phenylene diisocyanate	2162-73-4			
m-tolylidene diisocyanate	26471-62-5			
4,4'-methylenedicyclohexyl diisocyanate	5124-30-1			
2,4'-Methylenediphenyl diisocyanate	5873-54-1			
1,5-naphthylene diisocyanate	3173-72-6			
1,3- bis(isocyanatomethyl)benzene	3634-83-1			
2,2'-Methylenediphenyl diisocyanate	2536-05-2			
Metals, Total amount				
Cadmium (Cd)	7440-43-9	75 mg/kg	EN 146lead 02 and EN 16711-1	1 mg/kg
Lead (Pb)	7439-92-1	90 mg/kg		1 mg/kg
Mercury (Hg)	7439-97-6	0.5 mg/kg		0.1 mg/kg
Phenols				
o-Phenylphenol (OPP)	90-43-7			
Soft Home Interior Products/Interior products	-	100 mg/kg	BVL B 82.02-08 (modified) Acetone extraction, derivatization followed by GC-MS analysis	5 mg/kg
Polyaromatic Hydrocarbons (PAH)				
Benzo(a)anthracene	56-55-3	1 mg/kg	AfPS GS 2014:01 Extraction with toluene followed by GC-MS analysis	0.2 mg/kg
Benzo(a)pyrene	50-32-8	1 mg/kg		
Benzo(b)fluoranthene	205-99-2	1 mg/kg		
Benzo(e)pyrene	192-97-2	1 mg/kg		
Benzo(g,h,i)perylene	191-24-2	1 mg/kg		

PLASTIC, RUBBER, SILICONE & FOAM				
Restricted substance	CAS	Limit	Test Method	Reporting Limit
Benzo(j)fluoranthene	205-82-3	1 mg/kg		
Benzo(k)fluoranthene	207-08-9	1 mg/kg		
Chrysene	218-01-9	1 mg/kg		
Dibenzo(a,h)anthracene	53-70-3	1 mg/kg		
Indeno(1,2,3-c,d)pyrene	193-39-5	1 mg/kg		
Acenaphthene	83-32-9	No individual restriction		
Acenaphthylene	208-96-8			
Anthracene	120-12-7			
Fluoranthene	206-44-0			
Fluorene	86-73-7			
Phenanthrene	85-01-8			
Pyrene	129-00-0			
Naphthalene	91-20-3	<2 mg/kg		
Sum of 18 PAH	-	<10 mg/kg		
Polychlorinated Biphenyls (PCB)	1336-36-3	The sum < 0.5 mg/kg	Solvent extraction and analysis by GC-MS	0.1 mg/kg
Polychlorinated Triphenyls (PCT)	61788-33-8			

METAL				
Restricted substance	CAS	Limit	Test method	Reporting limit
<b>Metals, Total amount</b>				
Cadmium (Cd)	7440-43-9	40 mg/kg	Total metal content by microwave digestion with HNO <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and ICP-MS analysis	1 mg/kg
Lead (Pb):	7439-92-1	300 mg/kg		
Mercury (Hg)	7439-97-6	0.5 mg/kg	Total metal content by microwave digestion with HNO <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and ICP-MS analysis	0.1 mg/kg
Chromium VI	18540-29-9	Usage ban		
<b>Nickel (Ni), Extractable amount</b>				
In metal products or part of products in direct and prolonged skin contact	-	Maximum release: 0.5 µg/cm <sup>2</sup> /week	Nickel release by EN 1811 + A1 Abrasion of coated items by EN 12472	0.05 µg/cm <sup>2</sup> /week

PAPER & CARDBOARD				
Restricted substance	CAS	Limit	Test Method	Reporting Limit
Bisphenols in thermal paper, e.g. Receipts				
Bisphenol A (BPA)	80-05-7	Usage ban	Organic solvent extraction (ACN) followed by LC/MS determination.	
Bisphenol S (BPS)	80-09-1			
Bisphenol F (BPF)	620-92-8			
Chlorophenols				
Pentachlorophenol (PCP) and its salts and esters	87-86-5	0.5 mg/kg	BVL B 82.02-08 (modified)	0.05 mg/kg



PAPER & CARDBOARD				
Restricted substance	CAS	Limit	Test Method	Reporting Limit
			Potassium Hydroxide extraction direct LC-MS analysis or derivatization followed by GC-MS analysis	
Formaldehyde	50-00-0			
All products excluding carpets and mats	-	150 mg/kg	Paper: EN 645 and EN 1541	5 mg/kg
Metals, Total amount				
Cadmium (Cd)	7440-43-9	Sum ≤ 100 mg/kg	Total metal content by microwave digestion with HNO <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and ICP- MS analysis	1 mg/kg
Lead (Pb)	7439-92-1			20 mg/kg
Mercury (Hg)	7439-97-6			0.1 mg/kg
Chromium VI (Cr <sup>6+</sup> )	18540-29-9			1 mg/kg
Elemental chlorine bleach				
	-	Usage ban		

BAMBOO, WOOD, COMPOSITE WOOD <sup>9</sup> , CORK, RATTAN and STRAW				
Restricted substance	CAS no	Limit/Requirement	Test method	Reporting limit
<b>Arsenic</b>				
	7440-38-2	10 ppm	US EPA 3052	10 ppm
<b>Creosote</b>				
As wood preservative	-	Usage ban	Self-declaration	
<b>Chromated copper arsenate</b>				

<sup>9</sup> Includes furniture made from hardwood, plywood, particleboard, medium density fiberboard, thin medium density fiberboard (thickness ≤ 8mm)

<b>BAMBOO, WOOD, COMPOSITE WOOD<sup>9</sup>, CORK, RATTAN and STRAW</b>				
<b>Restricted substance</b>	<b>CAS no</b>	<b>Limit/Requirement</b>	<b>Test method</b>	<b>Reporting limit</b>
As wood preservative		Usage ban	Self-declaration	
<b>Formaldehyde</b>				
In all wood based products	50-00-0	150 ppm	EN 717-3	20 ppm
		≤0.124 mg/m <sup>3</sup> air	EN 717-1 <sup>10</sup>	0.03 mg/m <sup>3</sup>
In all composite wood products for North America		Composite wood products <sup>11</sup> should comply with TSCA Title IV		-
In all composite wood products for Japan		Composite wood products should comply with Building Standard Law (BSL) in Japan		-
<b>Lindane</b>	58-89-9	Not detected	U.S. EPA Method 8081a, 8151a, 8141a and 8270c or Analysis of organochloro pesticides by GC-MS or LC-MS	0.05 ppm
<b>Pentachlorophenol and its salt and esters (PCP)</b>	Various	0.5 ppm	DIN EN ISO 17070 (modified)	0.5 ppm

<sup>10</sup> The emissions of free formaldehyde from wood-based panels shall not exceed the E1 emissions limit as described in BS EN 13986

<sup>11</sup> Hardwood, plywood, particleboard, medium density fiberboard, thin medium density fiberboard (thickness ≤ 8mm), and furniture and other finished products made with composite wood products

<b>TERRACOTTA, ENAMEL, CEMENT, PLASTER, STONE, SOAPSTONE<sup>12</sup>, MARBLE<sup>12</sup>, CERAMIC, PORCELAIN, GLASS &amp; CRYSTAL</b>				
<b>Restricted substance</b>	<b>CAS</b>	<b>Limit</b>	<b>Test method</b>	<b>Reporting limit</b>
<b>Arsenic (As)</b>	7440-38-2	Usage ban	EN 16711-1, analysis by ICP-MS	
<b>Cadmium (Cd)</b>	7440-43-9	40 ppm	Total digestion and analyze with ICPAES/ICPMS. Using HF if silica based pigment is encountered.	1 ppm
<b>Lead (Pb)</b>				
In stains or pigment	7439-92-1	Maximum contamination level in stains or pigment is 600 ppm (calculated on the raw stain or pigment before it is mixed into glaze).	Total digestion, analysis with ICP-MS. Using HF if silica based pigment is encountered	1 ppm
Total amount, crystal glass excluded <sup>13</sup>		90 ppm		
<b>Chromium VI (Cr6+)</b>	18540-29-9	2 ppm of the total dry weight of the cement. Limit applies to Cement and cement-containing mixtures when hydrated	DIN EN 196-10:2016-11 part 10	
<b>Mercury (Hg)</b>	7439-97-6	2.5 ppm	Total digestion, analysis with ICP-MS. Using HF if silica based pigment is encountered.	1 ppm

<sup>12</sup> It is important to ascertain the region of mining for soapstone as it can contain asbestos depending on where it originates from

<sup>13</sup> The excluded crystal glass is category 1, 2, 3 and 4 in annex 1 of Council Directive 69/493/EEC

ELECTRIC AND ELECTRONIC EQUIPMENT				
Restricted substance/property	CAS	Limit/Requirement	Test method	Reporting limit
EU Directive 2011/65/EU with its amendments – RoHS <sup>14</sup>	-	All electrical and electronic equipment must comply with EU directive 2011/65/EU including its amendments. Valid test reports and certificates must be available.	IEC 62321-x	
China RoHS <sup>15</sup>	-	All electrical and electronic equipment destined for China must be tested and comply with China RoHS.	GB/T 26572	
Flame retardants				
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	1000 ppm	Methanol extraction and analysis by GC-MS and LC-MS	
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8	1000 ppm		
Hexabromocyclododecane	3194-55-6 25637-99-4, 134237-50-6, 134237-51-7, 134237-52-8	50 ppm	Methanol extraction and analysis by GC-MS and LC-MS	
Organotin Compounds				
Dibutyltin (DBT)	1002-53-5	1 ppm	ISO/TS 16179 (modified) Methanol/Ethanol extraction, derivatization and analysis by GC-MS	
Dioctyltin (DOT)	94410-05-6	1 ppm		
Tributyltin (TBT)	56573-85-4	Sum = Not detected		
Tricyclohexyltin (TCyHT)	6056-50-4			
Trioctyltin (TOT)	250252-89-2			
Triphenyltin (TPhT)	668-34-8			
Other not listed trisubstituted organotins	Various	Sum < 1 ppm		
Bisphenol A in Polycarbonate (PC)				

<sup>14</sup> Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

<sup>15</sup> Administrative Measure on the Control of Pollution Caused by Electrical and Electronic Products.

ELECTRIC AND ELECTRONIC EQUIPMENT				
Restricted substance/property	CAS	Limit/Requirement	Test method	Reporting limit
	80-05-7	Extractable amount: 1 ppm	Extraction: artificial sweat solution ISO 105 E04. Analysis by LC-MS	
Polyvinylchloride (PVC) and similar chlorinated polymers, e.g. Polyvinylchloride and Polychloroprene (neoprene)				
Polyvinylchloride (PVC)	9002-86-2	Usage ban	Beilstein’s test and infrared spectroscopy (IR) with or without chemical separation	Qualitative
Polyvinylidenchloride	9002-85-1			
Polychloroprene	9010-98-4			
Phthalates				
Butyl benzyl phthalate (BBP)	85-68-7	500 ppm	Extraction with THF/CAN and analysis by HPLC-DAD-MS, confirmation test for DBP using GC-MS (reporting limit 50 ppm)	
Dibutyl phthalate (DBP)	84-74-2	500 ppm		
Diethyl phthalate (DEP)	84-66-2	500 ppm		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	500 ppm		
Diisobutyl phthalate (DIBP)	84-69-5	500 ppm		
Diisodecyl phthalate (DIDP)	26761-40-0	500 ppm		
Diisononyl phthalate (DINP)	28553-12-0	500 ppm		
Di-n-hexyl phthalate (DnHP)	84-75-3	500 ppm		
Di-n-octyl phthalate (DnOP)	117-84-0	500 ppm		
All other phthalates (all other esters of o-phthalic acid)	Various	500 ppm		
Sum of phthalates		≤ 1000 ppm		
Chloroparaffins				
Short chained chloroparaffins (SCCPs) C10-C13	85535-84-8	Not detected	N-hexane extraction, ultra sound 40°C, 30 min) and analysis by GC-MS using NCI (Negative Chemical Ionization) Draft EN ISO 18219:2012-12 (modified)	
Nickel (Ni), Extractable Amount In metal products or parts of products in direct and prolonged skin contact	7440-02-0	Maximum release: 0.5 µg/cm2/week	EN 1811+A1	




ELECTRIC AND ELECTRONIC EQUIPMENT				
Restricted substance/property	CAS	Limit/Requirement	Test method	Reporting limit
<b>Polyaromatic hydrocarbons (PAH)<sup>16</sup></b>				
Benzo[a]anthracene	56-55-3	<1 ppm	AfPS Extraction with toluene followed by GC-MS analysis (reporting limit 0.2 ppm)	
Benzo[a]pyrene	50-32-8			
Benzo[b]fluoranthene	205-99-2			
Benzo[e]pyrene	192-97-2			
Benzo[j]fluoranthene	205-82-3			
Benzo[k]fluoranthene	207-08-9			
Chrysene	218-01-9			
Dibenzo[a,h]anthracene	53-70-3			

BATTERIES				
Restricted substance/property	CAS	Limit/Requirement	Test method	Reporting limit
All Batteries must comply with EU Directive 2006/66/EU and 2013/56/EU including its amendments <sup>17</sup>				
Cadmium (Cd)	7440-43-9	20 ppm	Digestion with aqua regia and determination by ICP/MS	
Lead (Pb)	7439-92-1	40 ppm		
Mercury (Hg)	7439-97-6	5 ppm		

<sup>16</sup> Only for articles with direct as well as prolonged or short-term repetitive contact with the human skin, made of plastic or rubber.

<sup>17</sup> <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2013:329:0005:0009:EN:PDF>



CHEMICAL PRODUCTS	
Restricted classification	
All classifications that results in Pictogram GHS06 “Skull over crossed bones”	
All classifications that results in Pictogram GHS08 “Severe health hazard”	
All classifications that results in Pictogram GHS09 “Dead fish and tree”	

FOOD CONTACT PRODUCTS				
Restricted substance/property	CAS	Limit/Requirement	Test method	Reporting limit
Food Contact Products Framework Regulation	-	All Food Contact products must comply with EU Framework Regulation concerning Food Contact Products no 1935/2004 <sup>18</sup> and all regulations, directives and amendments under this framework regulation <sup>19</sup> .	-	-

<sup>18</sup> Regulation (EC) No 1935/2004 on materials and articles intended to come into contact with food

<sup>19</sup> [http://ec.europa.eu/food/food/chemicalsafety/foodcontact/index\\_en.htm](http://ec.europa.eu/food/food/chemicalsafety/foodcontact/index_en.htm)

FOOD CONTACT PRODUCTS				
Restricted substance/property	CAS	Limit/Requirement	Test method	Reporting limit
Good Manufacturing Practice (GMP)	-	All food contact products shall be produced according to GMP. The GMP for food contact products is defined in EU GMP Regulation 2023/2006 <sup>20</sup> .	-	-

<sup>20</sup> Regulation (EC) No 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food

## Appendix A List of restricted PFC/PFAS

Perfluorinated Compounds (PFC/PFAS) - <i>This list does not claim to be complete of restricted perfluorinated compounds</i>			
Substance	CAS	Substance	CAS
Perfluorobutane Sulfonate (PFBS)	29420-49-3	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7
Perfluorohexane Sulfonate (PFHxS)	3871-99-6	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1
Perfluoroheptane Sulfonate (PFHpS)	375-92-8	2-(N-methylperfluoro-FASE 1 octanesulfonamido)-ethanol (MeFOSE)	2448-09-7
Perfluorooctane Sulfonate (PFOS)	56773-42-3	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2
Perfluorodecane Sulfonate (PFDS)	126105-34-8	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8
Perfluorooctane Sulfonamide (PFOSA) 1H,1H,2H,2H H4PFOS; 6:2	754-91-6	N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2
Perfluorobutane Acid (PFBA)	375-22-4	7H-dodecanefluoroheptane Acid (HPFHpA)	1546-95-8
Perfluoropentane Acid (PFPA)	2706-90-3	2H,2H-perfluorodecane Acid (H2PFDA)	-
Perfluorohexane Acid (PFHxA)	307-24-4	2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnA)	34598-33-9
Perfluoroheptane Acid (PFHpA)	375-85-9	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6
Perfluorooctanoic Acid (PFOA)	335-67-1	1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9
Perfluorononane Acid (PFNA)	375-95-1	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5
Perfluorodecane Acid (PFDA)	335-76-2	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2
Perfluoroundecanoic Acid (PFUnA)	4234-23-5	1H,1H,2H,2H-Perfluoro-1-oktanol (6:2 FTOH)	647-42-7
Perfluorododecanoic Acid (PFDoA)	307-55-1	Perfluorotetradecanoic Acid (PFTeA)	376-06-7
Perfluorotridecanoic Acid (PFTrA)	72629-94-8	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6

Version history table

Version	Date	Valid from	Changes made	Page or Chapter
1	January 2020	January 2020	Implemented in the HIQS	-
2	January 2021	January 2021	Care label, size labels and inside prints clarified	10
			Exception for flame retardants in recycled PS	13
			Polystyrene (PS) is banned as a packaging material	16
			Cationic Surfactants restriction removed to align with CR Commercial goods	16
			Aniline restriction removed to align with CR Commercial goods	18
			Octamethylcyclotetrasiloxane is removed but is still regulated as SVHC	19
			Butylhydroxytoluen (BHT) is restricted in plastic	21
			Bisphenol F is banned in receipts	25
3	February 2022	February 2022	Examples of products and what sections should be followed are added	7
			BPA restriction added to all material	9
			Exception for flame retardants in recycled PS extended until end of 2023	10
			Nanomaterial restriction added	11
			Clarifies that all perfluorinated compounds are banned	12
			Upcoming material restrictions for polymers added.	14
			End date of allowed usage of PS in packaging and hangers added.	14
			Restrictions for Carpets and Mats moved to section All material	14
			Restrictions for Surface coating/treatment, adhesive and hardeners are applicable for production.	14
			Training requirement for workers handling Diisocyanates added	14
			All textiles shall comply with AFIRM RSL	15