

H&M GROUP CHEMICAL RESTRICTIONS 2026

Restricted Substances List (RSL)

Furniture

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

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General

H&M Group Chemical Restrictions consist of several parts regarding different product types; this document concerns Chemical Restrictions for Furniture.

An introduction to and general information about the H&M Group Chemical Restrictions are available in a separate document: H&M Group Restricted Substance List (RSL) Introduction and Commitment - All Product Types, document ID 00432. Please read that document and refer to the examples provided there, before proceeding with the product specific restrictions.

Each limit specified in this document is valid for homogeneous parts of the concerned product if not otherwise stated. Test methods are specified when relevant in this document. In case of undated test method, the latest version is valid.

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 must not be used in production and it must not be added to the product. ¹
Homogeneous	Uniform composition throughout, i.e. a material that cannot be mechanically disjointed into different materials.
Furniture	All furniture products such as small tables, shelves, cabinets, stools and large mirrors.
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.
CFR	Code of Federal Regulations
ppm	Parts per million, which is the same as mg/kg.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SVHC	Substances of Very High Concern

¹ 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.

Requirements – All Materials

All Materials				
Requirement	CAS no	Limit/ Requirement	Test method	Reporting limit
Biocidal compounds	Various	Are not allowed to be used without approval by H&M Group	Input control	N/A
Flame retardants ²				
Tris(2,3-dibromopropyl)phosphate (TRIS)	126-72-7	Not detected	EN ISO 17881-2	5 ppm
Tris(1,3-dichloroisopropyl)phosphate (TDCPP)	13674-87-8			
Trixylyl phosphate (TXP)	25155-23-1			
Tris-(aziridiny)-phosphine oxide (TEPA)	545-55-1			
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8			
Bis(2,3-dibromopropyl)phosphate (BDBPP)	5412-25-9			
Tri-o-cresyl phosphate	78-30-8			
Tris(1-chloro-2-propyl)phosphate (TCPP)	13674-84-5			
Triphenyl phosphate (TPhP)	115-86-6			
2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	Not detected	EN ISO 17881-1	5 ppm

² H&M Global Product Compliance Department must approve the usage of flame retardant on any kind of product. Any other flame retardant must be approved by H&M Global Product Compliance Department before using.

All Materials				
Requirement	CAS no	Limit/ Requirement	Test method	Reporting limit
Hexabromocyclododecane (HBCDD)	3194-55-6 25637-99-4, 134237-50-6, 134237-51-7, 134237-52-8			
Decabromodiphenyl ether (DecaBDE)	1163-19-5			
Octabromodiphenyl ether (OctaBDE)	32536-52-0			
Pentabromodiphenyl ether (PentaBDE)	32534-81-9			
Tetrabromobisphenol A (TBBP A)	79-94-7			
Polybrominated Diphenyl Ethers (PBDE)	Various			
Polybrominated Biphenyls (PBB)	Various			
Decabromodiphenyl ethane (DBDPE)	84852-53-9			
Lead (Pb), Total Amount	7439-92-1	90 ppm	Coating: CPSC- CH-E1003-09.1 Metal: CPSC-CH- E1001-08.3 Non-metal: CPSC- CH-E1002-08.3	1 ppm

All Materials				
Requirement	CAS no	Limit/Requirement	Test method	Reporting limit
<p>Nanomaterials</p> <p>“Nanomaterial” means a natural, incidental or manufactured material consisting of solid particles that are present, either on their own or as identifiable constituent particles in aggregates or agglomerates, and where 50 % or more of these particles in the number-based size distribution fulfil at least one of the following conditions:(a) one or more external dimensions of the particle are in the size range 1 nm to 100 nm;(b) the particle has an elongated shape, such as a rod, fibre or tube, where two external dimensions are smaller than 1 nm and the other dimension is larger than 100 nm;(c) the particle has a plate-like shape, where one external dimension is smaller than 1 nm and the other dimensions are larger than 100 nm.³</p>	Various	Usage ban ⁴	Input control	N/A
Perfluorinated Compounds (PFCs) ⁵				
Perfluorobutane Sulfonate (PFBS)	29420-49-3	Not detected	ISO 23702-1 / EN 17681-1&2	1 ppm
Perfluorohexane Sulfonate (PFHxS)	3871-99-6			
Perfluoroheptane Sulfonate (PFHpS)	375-92-8			
Perfluorooctane Sulfonate (PFOS)	56773-42-3			
Perfluorodecane Sulfonate (PFDS)	126105-34-8			

³ European commission recommendation on the definition of nanomaterial ((2022/C 229/01), Official Journal of the European Union, 14.06.2022.

⁴ The substance(s) must not be used in production and must not be added to the product

⁵ Impurities of Perfluorinated Compounds (PFCs) in functional finishes are accepted if technically unavoidable in the manufacturing process.

All Materials				
Requirement	CAS no	Limit/ Requirement	Test method	Reporting limit
Perfluorooctane Sulfonamide (PFOSA) 1H,1H,2H,2H H4PFOS; 6:2	754-91-6			
Perfluorobutane Acid (PFBA)	375-22-4			
Perfluoropentane Acid (PFPA)	2706-90-3			
Perfluorohexane Acid (PFHxA)	307-24-4			
Perfluoroheptane Acid (PFHpA)	375-85-9			
Perfluorooctanoic Acid (PFOA)	335-67-1			
Perfluorononane Acid (PFNA)	375-95-1			
Perfluorodecane Acid (PFDA)	335-76-2			
Perfluoroundecanoic Acid (PFUnA)	4234-23-5, 2058-94-8			
Perfluorododecanoic Acid (PFDoA)	307-55-1			
Perfluorotridecanoic Acid (PFTrA)	72629-94-8			
Perfluorotetradecanoic Acid (PFTeA)	376-06-7			
Perfluoro-3,7-dimethyloctanoic Acid (PF- 3,7-DMOA)	172155-07-6			
7H-Dodecanefluoroheptane Acid (HPFHpA)	-			
2H,2H-perfluorodecane Acid (H2PFDA)	-			
2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnA)	34598-33-9			
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6			

All Materials				
Requirement	CAS no	Limit/ Requirement	Test method	Reporting limit
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9			
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5			
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2			
1H,1H,2H,2H-Perfluoro-1-oktanol (6:2 FTOH)	647-42-7			
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7			
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1			
2-(N-methylperfluoro-FASE 1 octanesulfonamido)-ethanol (MeFOSE)	24448-09-7			
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2			
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8			
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2			
All other Perfluorinated or Polyfluorinated compounds (fully or partially fluorinated compounds)	Various			
Ammoniumpentadecafluorootoate (APFO)	3825-26-1	1000 ppm	Solvent extraction and analysis by LC-MS-MS	100 ppm
Polyvinylchloride (PVC) and similar chlorinated polymers, e.g.				
Polyvinylchloride (PVC)	9002-86-2	Not detected	Beilstein's test and infrared spectroscopy (IR)	Qualitative
Polyvinylidenchloride	9002-85-1			

All Materials				
Requirement	CAS no	Limit/ Requirement	Test method	Reporting limit
Polychloroprene	9010-98-4		with or without chemical separation	
Phthalates				
Butyl benzyl phthalate (BBP)	85-68-7	500 ppm	CPSC-CH- C1001-09.3 Analysis by GC- MS	50 ppm
Dibutyl phthalate (DBP)	84-74-2	500 ppm		
Diethyl phthalate (DEP)	84-66-2	500 ppm		
Di-(2-ethylhexyl) phthalate (DEHP)	1cv-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) including phthalates included in the Candidate List of REACH regulation (EC) No 1907/2006 as SVHC	Various	500 ppm		
Sum of phthalates		≤ 1000 ppm		
Chloroparaffins				
Short chained chloroparaffins (SCCPs) C10-C13	85535-84-8	1000 ppm (in each homogenous part of the product)	ISO 22818	30 ppm
Organotin Compounds				
Dibutyltin (DBT)	1002-53-5	1 ppm	ISO/TS 16179	0.05 ppm
Diocetyl tin (DOT)	94410-05-6	1 ppm		

All Materials				
Requirement	CAS no	Limit/ Requirement	Test method	Reporting limit
Tributyltin (TBT)	56573-85-4	Sum = Not detected		For High matrix samples: 0.5 ppm
Tricyclohexyltin (TCyHT)	6056-50-4			
Trioctyltin (TOT)	250252-89-2			
Triphenyltin (TPHT)	668-34-8			
Other not listed trisubstituted organotins	Various	Sum<1 ppm		
SVHC Check the ECHA website for the updated Candidate List of Substances of Very High Concern for Authorisation ⁶		1000 ppm in each homogenous part of the product, except if lower limit applies as per other parts of this document.	Combined Screening using ICP-MS, GC-MS and LC-TOF	
Substances defined as hazardous due to intrinsic properties Criteria for hazardous as defined in REACH Article 57 ⁷		1000 ppm, except if lower limit applies as per other parts of this document.		

⁶ http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

⁷ REACH Regulation (EC) No 1907/2006 <http://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:02006R1907-20150601&from=EN>

Surface coating, Surface treatment & Adhesives

Surface coating, Surface treatment & Adhesives				
Requirement	CAS no	Limit/Requirement	Test method	Reporting limit
Chromium VI	7440-47-3	Not detected	EN ISO 17075	3 ppm
Formaldehyde Shall not be added to the surface coating of the product or be formed during curing (for textiles only)	50-00-0	Usage ban	ISO 14184-1	16 ppm
Isocyanates				
Diphenylmethane diisocyanate (MDI)	101-68-8	Not detected, sum of listed isocyanates	ISO 10283 (modified)	3 ppm
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			
Metals, Total Amount				
Cadmium (Cd)	7440-43-9	100 ppm	DIN EN 16711-1/DIN EN 14602	1 ppm
Mercury (Hg)	7439-97-6	0.5 ppm		0.1 ppm
Polyaromatic Hydrocarbons (PAH)				
Benz[a]anthracene	56-55-3	0.5 ppm	AfPS GS 2019	0.2 ppm

Surface coating, Surface treatment & Adhesives				
Requirement	CAS no	Limit/Requirement	Test method	Reporting limit
Chrysene	218-01-9	0.5 ppm		
Benzo[b]fluoranthene	205-99-2	0.5 ppm		
Benzo[j]fluoranthene	205-82-3	0.5 ppm		
Benzo[k]fluoranthene	207-08-9	0.5 ppm		
Benzo[a]pyrene	50-32-8	0.5 ppm		
Benzo[e]pyrene	192-97-2	0.5 ppm		
Dibenzo[a,h]anthracene	53-70-3	0.5 ppm		
Benzo(g,h,i)perylene	191-24-2	0.5 ppm		
Indeno(1,2,3-c,d)pyrene	193-39-5	0.5 ppm		
Acenaphthene	83-32-9	The sum < 10 ppm		
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 ppm		
Sum of 18 PAH		<10 ppm		
Triglycidyl isocyanurate (TGIC)	2451-62-9	Powder coating shall not contain hardener.	Self-declaration	
Dimethylfumarate	624-49-7	0.1 ppm For leather only	ISO 16186	0.1 ppm

Surface coating, Surface treatment & Adhesives				
Requirement	CAS no	Limit/Requirement	Test method	Reporting limit
VOCs in surface treatment	Various	Applied amounts of actual VOC components should not exceed: 35 g/m ² for domestic furniture	Input control	

Metal

Metal				
Requirement	CAS no	Limit/Requirement	Test method	Reporting limit
Total metal				
Cadmium (Cd)	7440-43-9	100 ppm	DIN EN 16711-1/DIN EN 14602	10 ppm
Mercury (Hg)	7439-97-6	0.5 ppm		0.1 ppm
Lead	7439-92-1	200 ppm		10 ppm
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/cm ² /week	Nickel release by EN 1811 (uncoated surfaces) Nickel release by EN 12472 (coated surfaces)	0.05 µg/cm ² /week

Plastic & Rubber including Foam and Silicone

Plastic & Rubber including Foam and Silicone				
Restricted substance	CAS no	Limit/Requirement	Test method	Reporting limit
Bisphenol A - Extractable Amount	80-05-7	3 ppm	Extractable Amount: Extraction with artificial sweat solution (ISO 105 E04) and BPA Determination by LC-MS	0.1 ppm
Chlorofluorocarbons (CFCs), Hydrochlorofluorocarbons (HCFCs)	several	Usage ban	Self-declaration	-
Chlorophenols				
Pentachlorophenol (PCP) and its salts and esters	Various, e.g. 87-86-5	0.5 ppm	EN 17134-2	0.05 ppm
Tetrachlorophenol (TeCP) and its salts and esters	58-90-2	0.5 ppm		0.05 ppm
Dimethylformamide (DMFa)	68-12-2	For products and in production process: General usage ban	EN 17131	5 ppm
Isocyanates				
Diphenylmethane diisocyanate (MDI)	101-68-8	Sum= Not detected	ISO 10283 (modified)	3 ppm
Hexamethylene diisocyanate (HMDI)	822-06-0			
Isophorone diisocyanate (IPDI)	4098-71-9			

Plastic & Rubber including Foam and Silicone				
Restricted substance	CAS no	Limit/Requirement	Test method	Reporting limit
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			
Metals, Total Amount				
Cadmium (Cd)	7440-43-9	100 ppm	EN 14602 and EN 16711-1	1 ppm
Mercury (Hg)	7439-97-6	0.5 ppm		0.1 ppm
Polyaromatic Hydrocarbons (PAH)				
Benzo[a]anthracene	56-55-3	0.5 ppm	AFPS GS 2019	0.2 ppm
Benzo[a]pyrene	50-32-8	0.5 ppm		
Benzo[b]fluoranthene	205-99-2	0.5 ppm		
Benzo[e]pyrene	192-97-2	0.5 ppm		
Benzo(g,h,i)perylene	191-24-2	0.5 ppm		
Benzo[j]fluoranthene	205-82-3	0.5 ppm		
Benzo[k]fluoranthene	207-08-9	0.5 ppm		
Chrysene	218-01-9	0.5 ppm		
Dibenzo[a,h]anthracene	53-70-3	0.5 ppm		
Indeno(1,2,3-c,d)pyrene	193-39-5	0.5 ppm		
Acenaphthene	83-32-9	The sum < 10 ppm		
Acenaphthylene	208-96-8			

Plastic & Rubber including Foam and Silicone				
Restricted substance	CAS no	Limit/Requirement	Test method	Reporting limit
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 ppm		
Sum of 18 PAH		<10 ppm		
Polychlorinated Biphenyls (PCB)	1336-36-3	The sum < 0.5 ppm	Solvent extraction and analysis by GC-MS	0.1 ppm
Polychlorinated Triphenyls (PCT)	61788-33-8			0.1 ppm

Wood, Composite Wood⁸, Cork, Rattan, Bamboo

Wood & Composite Wood				
Restricted substance	CAS no	Limit/Requirement	Test method	Reporting limit
Formaldehyde				
In all wood based products	50-00-0	150 ppm	EN 717-3	20 ppm
		≤0.062 mg/m ³ air	According to REACH Annex XVII, Appendix XIV	0.03 mg/m ³
Composite wood		Composite wood products ⁹ must comply with TSCA Title VI	ASTM E1333 ASTM D6007	-
Lindane	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	0.5 mg/kg
Pentachlorophenol and its salt and esters (PCP)	Various, e.g. 87-86-5	0.5 ppm	CEN/TR 14823	0.5 ppm
Arsenic (As) compounds	Various, e.g. 7440-38-2	Not detected	US EPA 3052	10 ppm
Wood preservatives	-	Cannot be used without approval by H&M group ¹⁰	Self declaration	-

⁸ Includes furniture made from hardwood, plywood, particleboard, medium density fiberboard, thin medium density fiberboard (thickness ≤ 8mm)

⁹ Hardwood, plywood, particleboard, medium density fiberboard, thin medium density fiberboard (thickness ≤ 8mm), and also furniture and other finished products made with composite wood products

¹⁰ Please contact your local production office.

Terracotta, Enamel, Concrete, Soapstone¹¹, Marble¹¹, Ceramic, Porcelain, Glass & Crystal

Terracotta, Enamel, Concrete, Soapstone, Marble, Ceramic, Porcelain Glass & Crystal				
Restricted substance	CAS no	Limit/Requirement	Test method	Reporting limit
Bisphenol A - Extractable Amount	80-05-7	3 ppm	Extraction with artificial sweat solution (ISO 105 E04), analysis by LC-MS	0.1 ppm
Cadmium (Cd)	7440-43-9	40 ppm	Total digestion, analysis with ICP-MS.	1 ppm
Mercury (Hg)	7439-97-6	2,5 ppm	Total digestion, analysis with ICP-MS. Using HF if silica based pigment is encountered.	1 ppm
Arsenic (As)	7440-38-2	100 ppm	EN 16711-1, analysis by ICP-MS	

¹¹ It is important to ascertain the mining region as it can contain asbestos depending on mining location.

Version	Date	Valid from	Changes made	Page or Chapter
1	January 2019	January 2019	Adapted to new document template	–
2	February 2020	February 2020	Introductory text, Limit on lead on plastics & rubber, and Terracotta, enamel ... products.	3, 12, 14
3	January 2021	January 2021	Reviewed, only minor changes	
4	February 2022	February 2022	Examples added Mold and Odor requirements moved to QS&R Part 17: Furniture & Mirrors Biocidal compounds added Nanomaterials added	Examples chapter Requirements – All materials Requirements – All materials Requirements – All materials
5	February 2023	February 2023	ID number updated Polymers added: PC, PS, TPR, AS Test method VOC in surface treatment changed Formaldehyde TSCA requirement added DMFa updated to usage ban	Requirements – All Materials Surface coating, Surface treatment & Adhesives Wood, Composite Wood, Cork, Rattan, Bamboo Plastic & Rubber
6	February 2024	February 2024	General section updated Commitment section removed Examples section removed Nanomaterial definition updated Polymers (PC, PS, TPR, AS) requirement postponed Flame retardants (DBDPE, TXP, TPhP, DecaBDE, OctaBDE, PentaBDE) added SCCP requirement updated	General Commitment Examples Requirements – All Materials Requirements – All Materials Requirements – All Materials

				Requirements – All Materials
7	February 2025	February 2025	Flame retardants, PFCs and Chloroparaffins test methods updated	Requirements – All Materials
			PAH test method updated	Plastic & Rubber
8	February 2026	February 2026	Information regarding planned restriction of PC, PS, EPS, HIPS, TPR, TPE, AS/SAN removed Formaldehyde limit lowered, Formaldehyde test method updated	Requirements- All materials Wood, Composite Wood, Cork, Rattan, Bamboo