

H&M GROUP CHEMICAL RESTRICTIONS 2025

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

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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	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-(aziridinyl)-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	
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				

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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	All Materials					
Requirement	CAS no	Limit/ Requirement	Test method	Reporting limit		
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		
Nanomaterials	Various	Usage ban⁴	Input control	N/A		
"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						
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		1.001 102			
Perfluoroheptane Sulfonate (PFHpS)	375-92-8					
Perfluorooctane Sulfonate (PFOS)	56773-42-3					
Perfluorodecane Sulfonate (PFDS)	126105-34- 8					
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					

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 $^{^3}$ 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
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			
Perfluo-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			
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	Various	·		
partially fluorinated compounds) Ammoniumpentadecafluor	3825-26-1	1000 ppm	Solvent extraction	100 ppm
ootanoate (APFO)	3023 20-1	1000 ρριτί	and analysis by	100 ρριιι

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Requirement CAS no Limit/ Test method Reporting					
Requirement	CAS IIO	Requirement	rest method	limit	
Polycarbonate (PC)	80-05-7	Usage ban will come into force by OPD Feb 1st 2030. Applies to both virgin and recycled material.	Input control	N/A	
Polystyrene (PS) Expanded Polystyrene (EPS) High Impact Polystyrene (HIPS)	9003-53-6, 9003-55-8, etc.	Usage ban will come into force by OPD Feb 1st 2030. Applies to both virgin and recycled material.	Input control	N/A	
Styrene-based Thermoplastic Rubber (TPR) Styrene-based Thermoplastic Elastomer (TPE)	Various	Usage ban will come into force by OPD Feb 1st 2030. Applies to both virgin and recycled material.	Input control	N/A	
Acrylonitrile Styrene/Styrene Acrylonitrile (AS/SAN)	Various	Usage ban will come into force by OPD Feb 1st 2030. Applies to both virgin and recycled material.	Input control	N/A	
Polyvinylchloride (PVC) and similar chlorinated polymers, e.g.					
Polyvinylchloride (PVC)	9002-86-2	Not detected	Beilstein's test and infrared spectroscopy (IR) with or without	Qualitative	
Polyvinylidenchloride	9002-85-1				
Polychloroprene	9010-98-4		chemical separation		
Phthalates					
Butyl benzyl phthalate (BBP)	85-68-7	500 ppm	CPSC-CH-C1001-	50 ppm	
Dibutyl phthalate (DBP)	84-74-2	500 ppm	. 09.3 Analysis by GC-MS		
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	1		
Diisodecyl phthalate (DIDP)	26761-40-0	500 ppm	1		
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			

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All Materials	All Materials				
Requirement	CAS no	Limit/ Requirement	Test method	Reporting limit	
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	
Dioctyltin (DOT)	94410-05-6	1 ppm		For High	
Tributyltin (TBT)	56573-85-4			matrix samples: 0.5 ppm	
Tricyclohexyltin (TCyHT)	6056-50-4	- Sum = Not			
Trioctyltin (TOT)	250252-89- 2	detected			
Triphenyltin (TPhT)	668-34-8				
Other not listed trisubstituted organotins	Various	Sum<1 ppm			
SVHC		1000 ppm in each	Combined		
Check the ECHA website for the updated Candidate List of Substances of Very High Concern for Authorisation ⁶		homogenous part of the product, except if lower limit applies as per other parts of this document.	Screening using ICP-MS, GC-MS and LC-TOF		
Substances defined as		1000 ppm, except if lower limit			
hazardous due to intrinsic properties		applies as per			
Criteria for hazardous as defined in REACH Article 577		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, Su	ırface treatm	nent & 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) Hexamethylene	101-68-8 822-06-0	Not detected, sum of listed isocyanates	ISO 10283 (modified)	3 ppm
diisocyanate (HMDI) Isophorone diisocyanate (IPDI)	4098-71-9			
Tetramethylxylene diisocyanate (TMXDI)	2778-42-9			
2,4-Toluene diisocyanate (2,4 TDI) 2,6-Toluene diisocyanate	584-84-9 91-08-7			
(2,6 TDI) Metals, Total Amou	unt .			
Cadmium (Cd)	7440-43-9	100 ppm	DIN EN 16711-	1 ppm
Mercury (Hg)	7439-97-6	0.5 ppm	1/DIN EN 14602	0.1 ppm
Polyaromatic Hydro	carbons (PA	AH)		•
Benz[a]anthracene	56-55-3	0.5 ppm	AfPS GS 2019	0.2 ppm
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	1	
Benzo[k]fluoranthene	207-08-9	0.5 ppm	1	
Benzo[a]pyrene	50-32-8	0.5 ppm	1	
Benzo[e]pyrene	192-97-2	0.5 ppm	1	
Dibenzo[a,h]anthracene	53-70-3	0.5 ppm	1	
Benzo(g,h,i)perylene	191-24-2	0.5 ppm	1	
Indeno(1,2,3-c,d)pyrene	193-39-5	0.5 ppm	1	
Acenaphthene	83-32-9	The sum < 10 ppm	1	
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		

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Surface coating, Surface treatment & Adhesives					
Requirement	CAS no	Limit/Requirement	Test method	Reporting limit	
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	
VOCs in surface treatment	Various	Applied amounts of actual VOC components should not exceed: 35 g/m² 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), Ex	tractable Am	ount		
In metal products or parts of products in direct and prolonged skin contact	7440-02-0	Maximum release: 0.5 μg/cm²/week	Nickel release by EN 1811 (uncoated surfaces) Nickel release by EN 12472 (coated surfaces)	0.05 μg/cm²/week

Plastic & Rubber including Foam and Silicone

Plastic & Rubber including Foam and Silicone					
Restricted substance	CAS no	Limit/Require ment	Test method	Reporting limit	
Bisphenol A	80-05-7	3 ppm	Extractable Amount:	0.1 ppm	
- Extractable Amount			Extraction with artificial sweat solution (ISO 105 E04) and BPA		
			Determination by LC-MS		
Chlorofluorocarb	several	Usage ban	Self-declaration	-	
ons (CFCs),					
Hydrochlorofluo					
rocarbons (HCFCs)					
Chlorophenols	<u>I</u>	L			
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	
Dimethylformam ide (DMFa)	68-12-2	For products and in production process: General usage ban	EN 17131	5 ppm	
Isocyanates	-		1	-1	
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				
Tetramethylxylene diisocyanate (TMXDI)	2778-42-9				
2,4-Toluene diisocyanate (2,4 TDI)	584-84-9				
2,6-Toluene	91-08-7				
diisocyanate (2,6 TDI) Metals, Total Amo	ount				
Cadmium (Cd)	7440-43-9	100 ppm	EN 14602 and EN	1 ppm	
			16711-1		
Mercury (Hg)	7439-97-6	0.5 ppm		0.1 ppm	
Polyaromatic Hyd					
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			

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Plastic & Rubber including Foam and Silicone							
Restricted substance	CAS no	Limit/Require ment	Test method	Reporting limit			
Benzo[k]fluoranthene	207-08-9	0.5 ppm					
Chrysene	218-01-9	0.5 ppm					
Dibenzo[a,h]anthracen e	53-70-3	0.5 ppm					
Indeno(1,2,3- c,d)pyrene	193-39-5	0.5 ppm					
Acenaphthene	83-32-9		"				
Acenaphthylene	208-96-8						
Anthracene	120-12-7						
Fluoranthene	206-44-0	The sum < 10 ppm					
Fluorene	86-73-7						
Phenanthrene	85-01-8						
Pyrene	129-00-0						
Naphthalene	91-20-3	<2 ppm					
Sum of 18 PAH		<10 ppm	1				
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			

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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 Composite wood	50-00-0	150 ppm ≤0.124 mg/m³ air Composite wood products¹0 must comply with TSCA Title VI	EN 717-3 EN 717-1° ASTM E1333 ASTM D6007	20 ppm 0.03 mg/m ³			
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 ¹¹	Self declaration	-			

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

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⁹ The emissions of free formaldehyde from wood-based panels shall not exceed the E1 emissions limit as described in BS EN 13986.

¹⁰ Hardwood, plywood, particleboard, medium density fiberboard, thin medium density fiberboard (thickness ≤ 8mm), and also furniture and other finished products made with composite wood products

¹¹ Please contact your local production office.

Terracotta, Enamel, Concrete, Soapstone¹², Marble¹², 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				

 $^{^{12}}$ It is important to ascertain the mining region as it can contain asbestos depending mining location.