



H&M GROUP CHEMICAL RESTRICTIONS 2023

RESTRICTED SUBSTANCES LIST (RSL)

NON-COMMERCIAL GOODS (NCG), CONSTRUCTION MATERIAL 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.

H&M Group Chemical Restrictions consists of 12 part:

- i. Aerosol Dispensers
- ii. Textile products, Accessories, Footwear, Bags and Belts (including ZDHC MRSL 2.0 and AFIRM RSL)
- iii. Candles
- iv. Chemical Products
- v. Cosmetic Products
- vi. Electrical and Electronic Products and Batteries
- vii. Food Contact Products
- viii. Furniture
- ix. Hardline
- x. **Non-Commercial Goods (NCG), Construction and Packaging**
- xi. Toys

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.

Definitions

Concentration Limit	The substance must not be present in the product at concentrations above this limit.
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.
Not detected	The substance must not be present in the finished product at concentrations above the analytical reporting limit.
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.
Usage ban	The substance or material must not be used in production and it must not be added to the product. 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.

Abbreviations

AFIRM	Apparel and Footwear International RSL Management
AfPS	The German Product safety Commission
CAS no	Chemical Abstracts Service number, an identification number for chemicals in this database.
CI no	Color Index number
CSPIA	The Consumer Product Safety Improvement Act
cSt	centistokes, which is the same as $1\text{mm}^2/\text{s}$. This is the unit used for kinematic viscosity.
ECHA	European Chemicals agency
FCM	Food contact material. The RSL for food contact products can be found under the webpage for chemical restrictions.
ISO	International Organization for Standardization
MRSL	Manufacturing Restricted Substances List
MOAH	Mineral oil aromatic hydrocarbon
MOSH	Mineral oil saturated hydrocarbon
PFAS	Per- and polyfluoroalkyl substances are a group of persistent organic substances that all consist of a carbon chain in which hydrogen atoms are entirely or partly replaced by fluorine atoms. eg. Gore-Tex, SCOTCHGARD
PFC	An organofluorine compound containing only carbon-fluorine and carbon-carbon bonds. eg. PTFE (Teflon)
ppm	Parts per million, which is the same as mg/kg ($1\text{ ppm} = 1\text{ mg}/\text{kg}$).
Percentage (%)	Percentage is weight by weight, % w/w
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
RSL	Restricted substance list. Please find the H&M Group RSLs under the web page for chemical restrictions.
SVHC	Substances of Very High Concern
VOC	Volatile organic compounds. Organic compounds with low boiling points that therefore emit from solid material at room temperature.

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"> - All materials - CHEMICAL PRODUCTS
Wiring, Conduits, Electrical outlets Electrical appliances in Back of House (e.g. dishwasher, microwave oven, TV)	<ul style="list-style-type: none"> - All materials - ELECTRICAL & ELECTRONIC EQUIPMENT
Insulation (glass fiber, rockwool), Mirror glass Window glazing & balustrades (tempered, laminated) etc.	<ul style="list-style-type: none"> - All materials - TERRACOTTA, ENAMEL, CEMENT, PLASTER, STONE, SOAPSTONE, MARBLE, CERAMIC, PORCELAIN, GLASS & CRYSTAL
Metal studs (galvanized), Nails, screws, nuts, bolts, Rebar, Piping	<ul style="list-style-type: none"> - All materials - METAL
Rubber or plastic mats, Window stickers, Lightbox cover (stretched ceiling), Tape etc.	<ul style="list-style-type: none"> - All materials - PLASTIC, RUBBER, SILICONE & FOAM
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"> - All materials - TERRACOTTA, ENAMEL, CEMENT, PLASTER, STONE, SOAPSTONE, MARBLE, CERAMIC, PORCELAIN, GLASS & CRYSTAL
Water based paint, Oil based paint, Epoxy based paint,	<ul style="list-style-type: none"> - All materials - SURFACE COATING, SURFACE TREATMENT, ADHESIVES & HARDENER - PLASTIC, RUBBER, SILICONE & FOAM

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"> - All materials - TEXTILE AND LEATHER
Textile boards	<ul style="list-style-type: none"> - All materials - TEXTILE AND LEATHER - SURFACE COATING, SURFACE TREATMENT, ADHESIVES & HARDENER
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"> - All materials - BAMBOO, WOOD, COMPOSITE WOOD, CORK, RATTAN and STRAW - SURFACE COATING, SURFACE TREATMENT, ADHESIVES & HARDENER
Polymer board	<ul style="list-style-type: none"> - All materials - PLASTIC, RUBBER, SILICONE & FOAM - SURFACE COATING, SURFACE TREATMENT, ADHESIVES & HARDENER
Cosmetic primary packaging (e.g. foundation bottle) and secondary packaging	<ul style="list-style-type: none"> - All materials - Material specific restrictions
Child Appealing and Children’s Cosmetic	<ul style="list-style-type: none"> - All materials - Material specific restrictions - Packaging of products aimed for children with play value should also follow the H&M Chemical Restrictions for Toys
Aerosol products	<ul style="list-style-type: none"> - All materials - METAL - PLASTIC, RUBBER, SILICONE & FOAM

	- 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&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 final products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
Acrylamide				
Acrylamide	79-06-1	1000 ppm	Self-declaration	-
Antibacterial Treatment				
Silver (Ag) and its salts and compounds	7440-22-4, Various	Usage ban	Self-declaration	-
Triclocarban	101-20-2		Self-declaration	-
Triclosan	3380-34-5		Solvent extraction, derivatization followed by GC-MS analysis	10 ppm
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 ppm	Textiles: ISO 18254-1 Leather: ISO 18218-1 Plastic, rubber, silicone, foam: ISO 18254 Modified: THF/ACN extraction followed by LC-MS EN Paper, cardboard: EN ISO 18254 Modified: Methanol extraction followed by LC-MS	30 ppm
Octylphenol Ethoxylates (OPE)	Various e.g. 9002-93-1 9036-19-5 68987-90-6	100 ppm		
Nonylphenol (NP)	Various e.g. 104-40-5 11066-49-2 25154-52-3 84852-15-3	5 ppm	Textile: Methanol extraction followed by GC-MS Leather: ISO 18218-2 Plastic, rubber, silicone, foam: THF/ACN extraction followed by GC-MS	5 ppm
Octylphenol (OP)	Various e.g. 140-66-9 1806-26-4 27193-28-8	5 ppm		

ALL MATERIALS AND GENERAL REQUIREMENTS				
These requirements are applicable for all kinds of final products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
			Paper, cardboard: 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, sonication for 60 minutes at 60 degrees C, analysis with LC/MS	1 ppm
Chlorinated paraffins				
Short-chained (SCCP) C10-C13	85535-84-8	100 ppm	Combined CADS/ISO 18219:2015 method V1:06/17 (extraction ISO 18219 and analysis by GC/NCI/MS)	30 ppm
Medium-chained (MCCP) C14-C17	85535-85-9	1000 ppm		
Dimethylfumarate (DMFu)				
DMFu	624-49-7	0.03 ppm	ISO/TS 16186	0.03 ppm
Flame Retardants				
See Appendix A – Table 2	See Appendix A – Table 2	5 ppm ¹	Brominated flame retardants: EN ISO 17881-1:2016 Phosphorus flame retardants: EN ISO 17881-2:2016	5 ppm
Fluorinated Greenhouse gases				

¹ 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 final products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
EU regulation on fluorinated greenhouse gases	-	Fluorinated greenhouse gases of Annex I of the regulation are prohibited 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		
Formaldehyde				
Plastic or polymeric compounds	50-00-0	150 ppm	ISO 14184-1	16 ppm
Surface coating, Surface treatment, Adhesives and hardeners		Usage ban Shall not be added to the surface coating/treatment, adhesive and hardener or be formed during curing	ISO 14184-1	16 ppm
Paper & cardboard		150 ppm	EN 645 and EN 1541	5 ppm
In all wood-based products		150 ppm	EN 717-3	20 ppm
		≤0.124 mg/m ³ air	EN 717-1 EN 717-2 EN 120	0.03 mg/m ³ Shall not exceed the E1 limit described in EN 13986 or similar
Heavy Metals				
Surface Coating, Surface Treatment, Adhesives & Hardeners				
Chromium VI (Cr6+)	18540-29-9	Usage ban	EN ISO 17075	3 ppm
Cadmium (Cd)	7440-43-9	Usage ban Contamination limit value: 75 ppm	EN 14602 and EN 16711-1	1 ppm
Lead (Pb)	7439-92-1	Usage ban Contamination limit value: 90 ppm	CPSC-CH-E1003-09.1	1 ppm
Mercury (Hg)	7439-97-6	Usage ban Contamination limit value: 0.5 ppm		0.1 ppm
Plastic, Rubber, Silicone & Foam				

ALL MATERIALS AND GENERAL REQUIREMENTS				
These requirements are applicable for all kinds of final products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
Cadmium (Cd)	7440-43-9	75 ppm	EN 14602	1 ppm
Lead (Pb)	7439-92-1	90 ppm	and lead EN 16711-1	1 ppm
Mercury (Hg)	7439-97-6	0.5 ppm		0.1 ppm
Metal products				
Cadmium (Cd)	7440-43-9	40 ppm	Total metal content by microwave digestion with HNO ₃ /H ₂ O ₂ and ICP-MS analysis	1 ppm
Lead (Pb)	7439-92-1	300 ppm	Lead (Pb):	Lead (Pb):
Mercury (Hg)	7439-97-6	0.5 ppm	Total metal content by microwave digestion with HNO ₃ /H ₂ O ₂ and ICP-MS analysis	0.1 ppm
Chromium VI (Cr ⁶⁺)	18540-29-9	Usage ban		
Nickel (Ni), Extractable amount	7440-02-0	Maximum release: 0.5 µg/cm ² /week In metal products or part of products in direct and prolonged skin contact	Nickel release by EN 1811 + A1 Abrasion of coated items by EN 12472	0.05 µg/cm ² /week
Paper & Cardboard				
Cadmium (Cd)	7440-43-9	Sum ≤ 100 ppm	Total metal content by microwave digestion with HNO ₃ /H ₂ O ₂ and ICP-MS analysis	1 ppm
Lead (Pb)	7439-92-1			20 ppm
Mercury (Hg)	7439-97-6			0.1 ppm
Chromium VI (Cr ⁶⁺)	18540-29-9			1 mg/kg
Bamboo, Wood, Composite Wood², Cork, Rattan & Straw				
Arsenic (As)	7440-38-2	10 ppm	US EPA 3052	10 ppm

² Includes furniture made from hardwood, plywood, particleboard, medium density fiberboard, thin medium density fiberboard (thickness ≤ 8mm)

ALL MATERIALS AND GENERAL REQUIREMENTS				
These requirements are applicable for all kinds of final products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
Chromated copper arsenate (CCA) As wood preservative		Usage ban		Self-declaration
Terracotta, Enamel, Cement, Plaster, Stone, Soapstone, Marble, Ceramic, Porcelain, Glass & Crystal				
Arsenic (As)	7440-38-2	Usage ban	EN 16711-1, analysis by ICP-MS	
Cadmium (Cd)	7440-43-9	40 ppm	Total digestion and analyze with ICPAES/ICPMS. Using HF if silica based pigment is encountered.	1 ppm
Lead (Pb) 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
Lead (Pb) Total amount, crystal glass excluded ³		90 ppm		
Chromium VI (Cr6+)	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	
Mercury (Hg)	7439-97-6	2.5 ppm	Total digestion, analysis with ICP-MS. Using HF if silica based pigment is encountered.	1 ppm
Odor & emitted substances				
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

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

ALL MATERIALS AND GENERAL REQUIREMENTS				
These requirements are applicable for all kinds of final products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
4-Phenylcyclohexene	4994-16-5	≤ 0.050 mg/m ² /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/m ² /h		
Styrene	100-42-5	≤ 0.500 mg/m ² /h		
Volatile Organic Compounds, Total (TVOC)	Various	≤ 0.600 mg/m ² /h		
VOCs surface coating, surface treatment, adhesives and hardeners	Various	Applied amounts of actual VOC components should not exceed: 35 g/m ² for domestic furniture	GC-MS screening for VOC content	
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 nm-100 nm. (2011/696/EU)	Various	General usage ban	Input control	
Organotin compounds				
Dibutyltin (DBT)	1002-53-5	1 ppm	CEN ISO/TS 16179	0.05 ppm
Dioctyltin (DOT)	94410-05-6	1 ppm		
Dimethyltin (DMT)	Various	1 ppm		
Tributyltin (TBT)	56573-85-4	0.05 ppm		
Tricyclohexyltin (TCyHT)	6056-50-4			
Trioctyltin (TOT)	250252-89-2			
Triphenyltin (TPhT)	668-34-8			
Tripropyltin (TPT)	Various			

ALL MATERIALS AND GENERAL REQUIREMENTS				
These requirements are applicable for all kinds of final products				
Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
Sum of other not listed trisubstituted organotins		1 ppm		
Perfluorinated Compounds (PFC/PFAS)				
All per- and polyfluorinated compounds	Various	Usage ban	Input control	
See Appendix A – Table 1		For FTOHs: 10 µg/m ² For Others: 1 µg/m ²	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 ² For Others: 1 µg/m ²
Phthalates – including all other esters of ortho-phthalic acid				
See Appendix A – Table 3		500 ppm , per phthalate. The sum of phthalates ≤ 1000 ppm	Sample preparation: CPSC-CH-C1001-09.3 Measurement: Textile: GC-MS, ISO 14389 Other materials: GC/MS	Matrix dependent
SVHC				
REACH SVHC Check the ECHA website for the updated list ⁴	-	1000 ppm in each homogeneous part of the product, except if lower limit applies as per other part of this document.		

⁴ http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

ALL MATERIALS AND GENERAL REQUIREMENTS

These requirements are applicable for all kinds of final products

Restricted substance/material/property	CAS	Limit/Requirement	Test method	Reporting limit
Substances defined as hazardous due to intrinsic properties Criteria for hazardous as defined in REACH Article 57 ⁵	-	1000 ppm in each homogeneous part of the product, except if lower limit applies as per other part of this document.		

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
Diisocyanates				
Diphenylmethane diisocyanate (MDI)	101-68-8	H&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. Shall not be used as substances on their own, as a constituent in other substances or in mixtures in production or by contractors unless: <ul style="list-style-type: none"> - The concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or - 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 	ISO 10283 Extraction with a dried solvent, derivatization followed by LC/MS determination.	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			
3,3'-dimethylbiphenyl-4,4'-diyl diisocyanate	91-97-4			
2,4,6-triisopropyl-m-phenylene diisocyanate	2162-73-4			
m-tolidene diisocyanate	26471-62-5			
4,4'-methylenedicyclohexyl diisocyanate	5124-30-1			

⁵ <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
2,4'- Methylene diphenyl diisocyanate	5873-54-1	mixture(s). Training shall be according to requirements in EU regulation 2020/1149 ⁶ (amending Annex XVII in REACH) unless stricter local requirements are applied.		
1,5-naphthylene diisocyanate	3173-72-6			
1,3- bis(isocyanatomethyl)benzene	3634-83-1			
2,2'-Methylene diphenyl diisocyanate	2536-05-2			
Triglycidyl isocyanurate (TGIC)	2451-62-9	Powder coating shall not contain TGIC hardener. Contamination limit 0.1% by weight	Self-declaration	

PLASTIC, RUBBER, SILICONE & FOAM

Restricted substance	CAS	Limit	Test Method	Reporting Limit
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 polymers are in scope of upcoming restriction.		
Acrylonitrile Styrene/Styrene Acrylonitrile (AS/SAN)	9003-54-7			
Methyl Methacrylate Acrylonitrile Butadiene Styrene (MABS)	Various			
Styrene Methyl Methacrylate (SMMA)				

⁶ <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32020R1149&from=EN>

PLASTIC, RUBBER, SILICONE & FOAM				
Restricted substance	CAS	Limit	Test Method	Reporting Limit
Acrylonitrile Ethylene Propylen Styrene (AES)				
Other Styrene based polymers				
Styrene based Thermoplastic Rubber (TPR)	Various			
Polycarbonate (PC)	80-05-7			
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			
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 ppm	BVL B 82.02-08 (modified) Potassium Hydroxide extraction direct LC-MS analysis or derivatization followed by GC-MS analysis.	0.05 ppm
Tetrachlorophenol (TeCP) and its salts and esters				
2,3,4,6-Tetrachlorophenol (2,3,4,6 TeCP)	58-90-2	Sum 0.5 ppm		
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 ppm		

PLASTIC, RUBBER, SILICONE & FOAM				
Restricted substance	CAS	Limit	Test Method	Reporting Limit
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 ppm	Ultrasound extraction using ethylacetate followed by GC-MS analysis	10 ppm
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 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			
3,3'-dimethylbiphenyl-4,4'-diyl diisocyanate	91-97-4			
2,4,6-triisopropyl-m-phenylene diisocyanate	2162-73-4			
m-tolyldiene 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			
Phenols				
o-Phenylphenol (OPP)	90-43-7			
Soft Home Interior Products/Interior products	-	100 ppm	BVL B 82.02-08 (modified) Acetone extraction, derivatization followed by GC-MS analysis	5 ppm
Polyaromatic Hydrocarbons (PAH)				

PLASTIC, RUBBER, SILICONE & FOAM				
Restricted substance	CAS	Limit	Test Method	Reporting Limit
Benzo(a)anthracene	56-55-3	1 ppm	AfPS GS 2014:01 Extraction with toluene followed by GC-MS analysis	0.2 ppm
Benzo(a)pyrene	50-32-8	1 ppm		
Benzo(b)fluoranthene	205-99-2	1 ppm		
Benzo(e)pyrene	192-97-2	1 ppm		
Benzo(g,h,i)perylene	191-24-2	1 ppm		
Benzo(j)fluoranthene	205-82-3	1 ppm		
Benzo(k)fluoranthene	207-08-9	1 ppm		
Chrysene	218-01-9	1 ppm		
Dibenzo(a,h)anthracene	53-70-3	1 ppm		
Indeno(1,2,3-c,d)pyrene	193-39-5	1 ppm		
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 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			

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 ppm	BVL B 82.02-08 (modified) Potassium Hydroxide extraction direct LC-MS analysis or derivatization followed by GC-MS analysis	0.05 ppm
Elemental chlorine bleach				
	-	Usage ban	Self-declaration	
Printing ink				
Printing ink consisting of mineral oil (MOAH) with 1 to 7 aromatic rings	Various (eg. Paraffin oils: 64742-46-7, 72623-86-0, 8042-47-5, 9862-82-3)	≤ 1 % (w/w) MOAH Requirement limited to printing ink to be used for paper packaging and printed material provided to the public. As specified in French law 2020-105 of 10 February 2020, Article 112	Self-Declaration	1,0 % w/w

BAMBOO, WOOD, COMPOSITE WOOD, CORK, RATTAN and STRAW				
Includes furniture made from hardwood, plywood, particleboard, medium density fiberboard, thin medium density fiberboard (thickness ≤ 8mm)				
Restricted substance	CAS no	Limit/Requirement	Test method	Reporting limit
Creosote				
As wood preservative	-	Usage ban	Self-declaration	
In all composite wood products for North America	-	Wood & composite wood products 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		-
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	0.05 ppm
Pentachlorophenol and its salt and esters (PCP)	Various	0.5 ppm	DIN EN ISO 17070	0.5 ppm

Appendix A

Table 1 - List of restricted PFC/PFAS

Perfluorinated Compounds (PFC/PFAS) - This list does not claim to be complete of restricted perfluorinated compounds			
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

Table 2 – List of flame retardants

Flame retardants				
Restricted substance	CAS no	Limit/Requirement	Test method	Reporting limit
Decabromodiphenyl ethane (DBDPE)	84852-53-9		EN ISO 17881-1:2016	5 ppm
Pentabromodiphenyl ether (PentaBDE)	32534-81-9			

Octabromodiphenyl ether (OctaBDE)	32536-52-0	5 ppm ⁷		
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			
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			
Tri-o-cresyl phosphate	78-30-8			
Triphenyl phosphate (TPhP)	115-86-6			
Tris(1-chloro-2-propyl)phosphate (TCPP, TMCP)	13674-84-5			
			EN ISO 17881-2:2016	

Table 3 – List of phthalates

Phthalates – including all other esters of ortho-phthalic acid				
Restricted substance	CAS no	Limit/Requirement	Test method	Reporting limit
Butyl benzyl phthalate (BBP)	85-68-7	500 ppm, per phthalate. The sum of phthalates ≤ 1000 ppm	Sample preparation: CPSC-CH-C1001-09.3 Measurement: Textile: GC-MS, ISO 14389 Other materials: 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			
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			

⁷ 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.

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			

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
4	January 2023	January 2023	General formatting changes, all mg/kg changed to ppm	All
			Referred to all H&M Group RSLs in General	3
			Electronics requirements removed referred to separate RSL	3
			Textiles requirement removed referred to separate RSL	3
			Updated abbreviations and definitions	5, 6
			Emitted substance and odor, merged category	13
			All heavy metal requirements moved into general requirements	11-13
			All polymer requirements moved to plastic requirements	18
			New tables created in appendix for phthalates and flame retardants	25, 26