H&M GROUP CHEMICAL RESTRICTIONS 2026

Restricted substances list (RSL) & Material restricted substance list (MRSL)

Textile products, accessories, footwear, bags and belts

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

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General Information

General

H&M Group Chemical Restrictions consist of several parts regarding different product types; this document concerns Chemical Restrictions for Textile products, Accessories, Footwear, Bags and Belts.

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

Please note: If other requirements than those listed in H&M Group Chemical Restrictions exist for the same substances and product groups in AFIRM RSL or ZDHC MRSL, the requirements specified in H&M Group Chemical Restrictions take precedence.

This document contains supplemental information that is only relevant to those directly working in H&M Group's supply chain. Please make sure this version and its annexes are not being spread beyond this scope.

Relating documents

This document, *H&M GROUP Chemical Restrictions Textile products, Accessories, Footwear, Bags & Belts 2026 is* complemented with following relevant documents:

H&M GROUP Chemical Restrictions Background Document, that provides details on each substance's usage, the materials in which they may be found, and the regulatory foundations for the requirements.

H&M GROUP Chemical Restrictions Testing Guideline that provides clear instructions for the sampling and testing of H&M Group products.

Definitions

Ban	The substance 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.*
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.
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.
Safety Data Sheet (SDS)	All chemicals used for H&M Group products shall have Safety Data Sheets (SDS) that meet current GHS requirements, please see AFIRM Toolkit Appendix H for guidance.
Component	A part of a product consisting of a material of uniform composition throughout, or a combination of materials that cannot be disjoined or separated into different materials by abrasion, crushing, cutting, grinding, or unscrewing.
Sample	A product component or piece of a product, that represents the bulk, and that can be tested by utilizing the recommended test methods.
Composite Sample	Combinations of two or more samples that may be tested together with a corresponding higher PQL and reporting limit.
Chromium-free leather	EN 15987 defines chromium-free tanned leather. At H&M Group a leather containing <250 ppm is considered as chromium-free tanned leather. The standard EN ISO 17072-2 is applicable to determine chromium in chromium-free tanned leathers.
Metal-free leather	EN 15987 defines metal-free leather (Cr, Al, Ti, Zr, Fe). At H&M Group metal-free leather containing <500 ppm is considered as metal-free leather. The standard EN ISO 17072-2 is applicable to determine the content of tanning metals. EN 15987 defines vegetable-tanned leather. At H&M Group using vegetable tanning agents containing <500 ppm metals (Cr, Al, Ti, Zr, Fe) is considered as vegetable-tanned leather. The standard EN ISO 17072-2 is applicable to determine the content of tanning metals.

Abbreviations

CAS no	Chemical Abstracts Service number, identification number for chemicals.
cl	Centilong
Percentage	Part weight by weight, % w/w.
ppm	Parts per million, which is equivalent to mg/kg.

Chemical Restrictions – Production

For Textile and Leather supply chains, manufacturing shall comply with the Zero Discharge of Hazardous Chemicals Manufacturing Restricted Substance List 3.1 (ZDHC MRSL 3.1). ZDHC MRSL 3.1 is retrieved here: mrsl-30.roadmaptozero.com

Compliance to ZDHC MRSL is a Minimum Requirement (MR). Therefore, if the production unit is found to intentionally use chemicals listed on ZDHC MRSL in the production process, it will result in MR Violation.

Chemical Restrictions – Products

Products within the scope of H&M Group Chemical Restrictions ***Textile products, Accessories, Footwear, Bags and Belts*** shall comply with AFIRM's Restricted Substances List (RSL) 2026, found at www.afirm-group.com/afirm-rsl/

Restricted Substances List (RSL)

In this chapter, you find all the Chemical Requirements for Textile Products, Accessories, Footwear, Bags, and Belts, valid for all brands within the H&M Group.

Please make sure to pay attention to the symbols below that will be indicated in every requirement in the following RSL and MRSL:

AFIRM full aligned requirement

This symbol shows that the chemical families listed in the H&M Group Chemical Restrictions are fully consistent with the AFIRM RSL regarding the included substances, their limits, and the relevant materials. The AFIRM Group Chemistry Toolkit shares valuable information about RSL compliance, RSL failure resolution, chemicals management, SDS and other online educational resources. More information about substances in AFIRM RSL can be found in AFIRM Chemical Information Sheets: https://www.afirm-group.com/publications/.

H&M Group additional requirement

This symbol indicates that the H&M Group has established new, strategic limits for a specific substance. These H&M Group Chemical Restrictions take priority over limits defined in the ZDHC MRSL or AFIRM RSL, reflecting our commitment to higher safety and sustainability standards. By following these limits, suppliers and teams ensure compliance with H&M Group policies while supporting our goal of reducing chemical risks across all products.

AFIRM Chemical Information Sheets

This symbol is presented next to several substances in below RSL and MRSL and is a link to AFIRM Chemical Information Sheets. Click on the icon, and your web browser will open a PDF of the information sheet for that substance.

Acetophenones, 2-Phenyl-2-Propanol & Related Substances

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Acetophenone CAS No. 98-86-2 **2-Phenyl-2-Propanol** CAS No. 617-94-7	50 ppm each	Extraction in acetone or methanol GC/MS, sonication for 30 minutes at 60° C	25 ppm each
Acetophenone Azine CAS No. 729-43-1		Extraction in acetone or methanol GC/MS or LC/MS, sonication for 30 minutes at room temperature.	

Acidic and Alkaline Substances

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
pH value	Textiles: pH 4.0 – 7.5 Leather: Chrome-tanned: pH 3.2 – 5.5 Other: pH 3.5 – 7.5	Textiles and synthetic coated fabrics: EN ISO 3071:2020 Leather: EN ISO 4045:2018	N/A

Alkylphenols (APs) and Alkylphenol Ethoxylates (APEOs) including all isomers

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Nonylphenol (NP), mixed isomers **Octylphenol (OP), mixed isomers**	Total APs: 10 ppm	Textiles and Leather: EN ISO 21084:2019 Polymers and all other materials: 1 g sample/20 mL THF, sonication for 60 minutes at 70° C, analysis according to EN ISO 21084:2019 Down (China market only): GB/T 23322-2018 for compliance with GB/T 14272-2021	Total of NP + OP: 3 ppm
Nonylphenol ethoxylates (NPEOs) **Octylphenol ethoxylates (OPEOs)**	Total APs + APEOs: 100 ppm	All materials except Leather: EN ISO 18254-1:2016 with determination of APEO using LC/MS or LC/MS/MS Leather: Sample prep and analysis using EN ISO 18218-1:2023 with quantification according to EN ISO 18254-1:2016 Down (China market only): GB/T 23322-2018 for compliance with GB/T 14272-2021	Total of NPEOs + OPEOs: 20 ppm

Azo-amines and Arylamine Salts

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
4-Aminobiphenyl CAS no. 92-67-1	20 ppm each	All materials except leather: EN ISO 14362-1:2017 Leather: EN ISO 17234-1:2024 p-Aminoazobenzene: All materials except leather: EN ISO 14362-3:2017 Leather: EN ISO 17234-2:2011	5 ppm each
Benzidine CAS no. 92-87-5			
4-Chloro-o-toluidine CAS no. 95-69-2			
2-Naphthylamine CAS no. 91-59-8			
o-Aminoazotoluene CAS no. 97-56-3			
2-Amino-4-nitrotoluene CAS no. 99-55-8			
p-Chloraniline CAS no. 106-47-8			
2,4-Diaminoanisole CAS no. 615-05-4			
4,4'-Diaminodiphenylmethane CAS no. 101-77-9			
3,3'-Dichlorobenzidine CAS no. 91-94-1			
3,3'-Dimethoxybenzidine CAS no. 119-90-4			
3,3'-Dimethylbenzidine CAS no. 119-93-7			
3,3'-dimethyl-4,4'-diaminodiphenylmethane CAS no. 838-88-0			
p-Cresidine CAS no. 120-71-8			
4,4'-Methylen-bis(2-chloraniline) CAS no. 101-14-4			
4,4'-Oxydianiline CAS no. 101-80-4			
4,4'-Thiodianiline CAS no. 139-65-1			
o-Toluidine CAS no. 95-53-4			
2,4-Toluenediamine CAS no. 95-80-7			
2,4,5-Trimethylaniline CAS no. 137-17-7			
2,4 Xylidine CAS no. 95-68-1			
2,6 Xylidine CAS no. 87-62-7			
2-Methoxyaniline (= o-Anisidine) CAS no. 90-04-0			

Continue - Azo-amines and Arylamine Salts

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
p-Aminoazobenzene CAS no. 60-09-3 **4-Chloro-o-toluidinium chloride** CAS no. 3165-93-3 **2-Naphthylammoniumacetate** CAS no. 553-00-4 **4-Methoxy-m-phenylene diammonium sulphate** CAS no. 39156-41-7 **2,4,5-Trimethylaniline hydrochloride** CAS No. 21436-97-5	20 ppm each	All materials except leather: EN ISO 14362-1:2017 Leather: EN ISO 17234-1:2024 p-Aminoazobenzene: All materials except leather: EN ISO 14362-3:2017 Leather: EN ISO 17234-2:2011	5 ppm each

Bisphenols

Substance	Limits Component Materials in Finished Product		Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Bisphenol A (BPA) CAS no. 80-05-7	All materials: 1 ppm			
Bisphenol B (BPB) CAS no. 77-40-7 **Bisphenol S (BPS)** CAS no. 80-09-1 **Bisphenol F (BPF)** CAS no. 620-92-8 **Bisphenol AF (BPAF)** CAS no. 1478-61-1	All materials: 25 ppm (total sum of combined Bisphenols in product) 25 ppm (individual) Leather: 800 ppm (total sum of combined Bisphenols in product) 300 ppm (individual)	Polycarbonate (PC): 0.04 mg/L	Textiles: For precipitation, draw the extract to another container and add methanol or acetonitrile. This keeps the extraction process consistent. Extraction: 1g sample/20 ml THF, sonication for 60 minutes at 60° C, then add methanol or acetonitrile for precipitation prior to analysis with LC/MS Leather: EN ISO 11936:2023 Other Materials: Extraction: 1g sample/20 ml THF, sonication for 60 minutes at 60° C, then add methanol or acetonitrile for precipitation prior to analysis with LC/MS Polycarbonate (PC): EN 71-19:2024 (standard on toy safety)	Polycarbonate (PC): 0.005 mg/L All other materials: 1 ppm each

Chlorinated Paraffins

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Short-chain Chlorinated Paraffins (SCCPs) (C10-C13) CAS no. 85535-84-8 **Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)** CAS no. 85535-85-9	1000 ppm	Leather: ISO 18219-1:2021(SCCP) ISO 18219-2:2021(MCCP) Textiles and all other materials: ISO 22818:2021(SCCP + MCCP)	100 ppm

Chlorophenols

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
2,3,4-Trichlorophenol (TriCP) CAS no. 15950-66-0	0.5 ppm each	All materials: EN 17134-2:2023	0.5 ppm each
2,3,5-Trichlorophenol (TriCP) CAS no. 933-78-8			
2,3,6-Trichlorophenol (TriCP) CAS no. 933-75-5			
2,4,5-Trichlorophenol (TriCP) CAS no. 95-95-4			
2,4,6-Trichlorophenol (TriCP) CAS no. 88-06-2			
3,4,5-Trichlorophenol (TriCP) CAS no. 609-19-8			
2,3,4,5-Tetrachlorophenol (TeCP) CAS no. 4901-51-3			
2,3,4,6-Tetrachlorophenol (TeCP) CAS no. 58-90-2			
2,3,5,6-Tetrachlorophenol (TeCP) CAS no. 935-95-5			
Pentachlorophenol (PCP) and its salts and esters CAS no. 87-86-5			

Chlorinated Benzenes and Toluenes

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
2-Chlorotoluene CAS no. 95-49-8			
3-Chlorotoluene CAS no. 108-41-8			
4-Chlorotoluene CAS no. 106-43-4			
2,3-Dichlorotoluene CAS no. 32768-54-0			
2,4-Dichlorotoluene CAS no. 95-73-8			
2,5-Dichlorotoluene CAS no. 19398-61-9			
2,6-Dichlorotoluene CAS no. 118-69-4			
3,4-Dichlorotoluene CAS no. 95-75-0			
2,3,6-Trichlorotoluene CAS no. 2077-46-5			
2,4,5-Trichlorotoluene CAS no. 6639-30-1			
2,3,4,5-Tetrachlorotoluene CAS no. 76057-12-0			
2,3,4,6-Tetrachlorotoluene CAS no. 875-40-1			
2,3,5,6-Tetrachlorotoluene CAS no. 1006-31-1			
Pentachlorotoluene CAS no. 877-11-2	Total: 1 ppm	All materials: EN 17137:2024	0.2 ppm each
1,3-Dichlorobenzene CAS no. 541-73-1			
1,4-Dichlorobenzene CAS no. 106-46-7			
1,2,3-Trichlorobenzene CAS no. 87-61-6			
1,2,4-Trichlorobenzene CAS no. 120-82-1			
1,3,5-Trichlorobenzene CAS no. 108-70-3			
1,2,3,4-Tetrachlorobenzene CAS no. 634-66-2			
1,2,3,5-Tetrachlorobenzene CAS no. 634-90-2			
1,2,4,5-Tetrachlorobenzene CAS no. 95-94-3			
Pentachlorobenzene CAS no. 608-93-5			
Hexachlorobenzene CAS no. 118-74-1			
p-Chlorobenzotrichloride CAS no. 5216-25-1			
Benzotrichloride CAS no. 98-07-7			
Benzyl Chloride CAS no. 100-44-7			
1,2-Dichlorobenzene CAS no. 95-50-1	10 ppm		1 ppm

Cyclosiloxanes

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Octamethylcyclotetrasiloxane (D4) CAS no. 556-67-2 **Decamethylcyclopentasiloxane (D5)** CAS no. 541-02-6 **Dodecamethylcyclohexasiloxane (D6)** CAS no. 540-97-6	1000 ppm each	All materials: Ultrasonic extraction with tert-Butyl methy ether (TBME) or acetone for 30 min at 40° C then GC/MS	50 ppm each

Dimethylfumarate

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Dimethylfumarate (DMFu) CAS no. 624-49-7	0.1 ppm	All materials: ISO 16186:2021	0.05 ppm

Dyes (Forbidden and Disperse)

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
C.I. Disperse Blue 1 CAS no. 2475-45-8 **C.I. Disperse Blue 3** CAS no. 2475-46-9 **C.I. Disperse Blue 7** CAS no. 3179-90-6 **C.I. Disperse Blue 26** CAS no. 3860-63-7 **C.I. Disperse Blue 35A** CAS no. 56524-77-7 **C.I. Disperse Blue 35B** CAS no. 56524-76-6 **C.I. Disperse Blue 102** CAS no. 12222-97-8 **C.I. Disperse Blue 106** CAS no. 12223-01-7 **C.I. Disperse Blue 124** CAS no. 61951-51-7 **C.I. Disperse Brown 1** CAS no. 23355-64-8 **C.I. Disperse Orange 1** CAS no. 2581-69-3 **C.I. Disperse Orange 3** CAS no. 730-40-5 **C.I. Disperse Orange 11** CAS no. 82-28-0 **C.I. Disperse Orange 37/76/59** CAS no. 12223-33-5; CAS no. 13301-61-6; CAS no. 51811-42-8	30 ppm each	All materials: DIN 54231:2022	15 ppm each

Continue - Dyes (Forbidden and Disperse)			
Substance	**Limits** Component Materials in Finished Product	**Suitable Test Method** Sample Preparation & Measurement Reporting	**Reporting Limit** Limits above which test results should be reported
C.I. Disperse Orange 149 CAS no. 85136-74-9	30 ppm each	All materials: DIN 54231:2022	15 ppm each
C.I. Disperse Red 1 CAS no. 2872-52-8			
C.I. Disperse Red 11 CAS no. 2872-48-2			
C.I. Disperse Red 17 CAS no. 3179-89-3			
C.I. Disperse Red 151 CAS no. 61968-47-6			
C.I. Disperse Yellow 1 CAS no. 119-15-3			
C.I. Disperse Yellow 3 CAS no. 2832-40-8			
C.I. Disperse Yellow 7 CAS no. 6300-37-4			
C.I. Disperse Yellow 9 CAS no. 6373-73-5			
C.I. Disperse Yellow 23 CAS no. 6250-23-3			
C.I. Disperse Yellow 39 CAS no. 12236-29-2			
C.I. Disperse Yellow 49 CAS no. 54824-37-2; CAS no. 6858-49-7			
C.I. Disperse Yellow 56 CAS no. 54077-16-6			
C.I. Acid Red 26 CAS no. 3761-53-3			
C.I. Acid Violet 49 CAS No. 1694-09-3			
C.I. Basic Red 9 CAS no. 569-61-9			
C.I. Basic Green 4 CAS no. 569-64-2; CAS no. 2437-29-8; CAS no. 10309-95-2			
C.I. Basic Violet 3 CAS no. 548-62-9			
C.I. Basic Violet 14 CAS no. 632-99-5			
C.I. Basic Blue 26 CAS no. 2580-56-5			
C.I. Direct Black 38 CAS no. 1937-37-7			
C.I. Direct Blue 6 CAS no. 2602-46-2			
C.I. Direct Red 28 CAS no. 573-58-0			
C.I. Direct Brown 95 CAS no. 16071-86-6			
4-Dimethylaminoazobenzene (Solvent Yellow 2) CAS no. 60-11-7			
C.I. Solvent Blue 4 CAS no. 6786-83-0			
4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol CAS no. 561-41-1			

Dyes Navy Blue

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Component 1: $C_{39}H_{23}ClCrN_7O_{12}S.2Na$ CAS no. 118685-33-9 **Component 2: $C_{46}H_{30}CrN_{10}O_{20}S_2.3Na$**	30 ppm each	All materials: DIN 54231:2022	15 ppm each

Flame Retardants

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
All flame retardants	**General usage ban**. See chapter *Manufacturing Restricted Substance List (MRSL).* If contamination is suspected (unintentional), test accordingly:		
Brominated and Phosphonated Substances			
Decabromodiphenyl ethane (DBDPE) CAS no. 84852-53-9 **Pentabromodiphenyl ether (PentaBDE)** CAS no. 32534-81-9 **Octabromodiphenyl ether (OctaBDE)** CAS no. 32536-52-0 **Decabromodiphenyl ether (DecaBDE)** CAS no. 1163-19-5 **All other Polybrominated diphenyl ethers (PBDEs)** **Tetrabromobisphenol A (TBBP A)** CAS no. 79-94-7 **Polybromobiphenyls (PBB)** CAS no. 59536-65-1 **Hexabromocyclododecane (HBCDD)** CAS no. 3194-55-6 **2,2-bis(bromomethyl)-1,3-propanediol (BBMP)** CAS no. 3296-90-0	Not detected	All materials: EN ISO 17881-1:2016	5 ppm each
Tris(1,3-dichloro-isopropyl) phosphate (TDCPP) CAS no. 13674-87-8 **Trixylyl phosphate (TXP)** CAS no. 25155-23-1 **Tris(2,3,-dibromopropyl) phosphate (TRIS)** CAS no. 126-72-7 **Tris(1-aziridinyl) phosphine oxide) (TEPA)** CAS no. 545-55-1 **Tris(2-chloroethyl) phosphate (TCEP)** CAS no. 115-96-8 **Bis(2,3-dibromopropyl) phosphate (BDBPP)** CAS no. 5412-25-9 **Triphenyl Phosphate (TPP)** CAS no. 115-86-6		All materials: EN ISO 17881-2:2016	

Fluorinated Greenhouse Gases

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
See Regulation (EU) 2024/573 for a complete list.	0.1 ppm each	Sample preparation: Purge and trap — thermal desorption or SPME Measurement: GC/MS	0.1 ppm each

Formaldehyde

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Formaldehyde CAS no. 50-00-0	Adults and children: 75 ppm Babies: 16 ppm	All materials except leather: JIS L 1041-2011 A (Japan Law 112) or EN ISO 14184-1:2011 Leather: EN ISO 17226-1:2021 or EN ISO 17226-2:2019. In case of interferences/doubts, proceed with EN ISO 17226-1:2021. EN ISO 17226-1:2021 can be used on its own.	16 ppm

Heavy Metals (Non-Jewelry) Extractable and Total Content

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Metal-free and vegetable-tanned leather (see *definition chapter*)	Total metal content: 500 ppm and; see below for total limit of specific heavy metal substances	Total content according to EN ISO 17072-2:2022	Total: 10 ppm
Antimony (Sb) CAS no. 7440-36-0	Extractable: 30 ppm	All materials except leather: DIN EN 16711-2:2016 Leather: EN ISO 17072-1:2019	Extractable: 3 ppm
Arsenic (As) CAS no. 7440-38-2	Extractable: 0.2 ppm Total: 100 ppm	All materials except leather: Extractable and Total: EN 16711-2:2015 Leather: Extractable: EN ISO 17072-1:2019 Total: EN ISO 17072-2:2022	Extractable: 0.1 ppm Total: 10 ppm

Continue - Heavy Metals (Non-Jewelry) Extractable and Total Content			
Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Barium (Ba) CAS no. 7440-39-3	Extractable: 1000 ppm	All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019	Extractable: 100 ppm
Cadmium (Cd) CAS no. 7440-43-9	Extractable: 0.1 ppm Total: 40 ppm	All materials except leather: Extractable & Total: EN 16711-2:2015 Leather: Extractable: EN ISO 17072-1:2019 Total: EN ISO 17072-2:2022	Extractable: 0.05 ppm Total: 5 ppm
Chromium (Cr) CAS no. 7440-47-3	Textiles (Extractable): Babies: 1 ppm Adults and children: 2 ppm Chrome-free tanned leather: Total chromium: 250ppm Chromium-free tanned leather (see *definition chapter*): - Children's products (0-3 yr) must be chrome-free leather. - Footwear sold in US must be chrome-free leather.	Textiles: Extractable: EN 16711-2:2015 Leather: Extractable: EN ISO 17072-1:2019 Chrome-free tanned leather: Total: EN ISO 17072-2:2022	Extractable: 0.5 ppm
Chromium VI CAS no. 18540-29-9	Extractable: Leather: 3 ppm Textiles: 1 ppm	Textiles: EN 16711-2:2015 with EN ISO 17075-1:2017 if Cr is detected Leather: EN ISO 17075-1:2017 and EN ISO 17075-2:2017 for confirmation in case the extract causes interference. Alternatively, EN ISO 17075-2:2017 may be used on its own. Ageing test: ISO 10195:2018, always required.	Extractable: Leather: 3 ppm Textiles: 0.5 ppm
Cobalt (Co) CAS no. 7440-48-4	Extractable: Adults: 4 ppm Children and babies: 1 ppm	All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019	Extractable: 0.5 ppm
Copper (Cu) CAS no. 7440-50-8	Extractable: Adults: 50 ppm Children and babies: 25 ppm	All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019	Extractable: 5 ppm

Continue - Heavy Metals (Non-Jewelry) Extractable and Total Content			
Substance	**Limits** Component Materials in Finished Product	**Suitable Test Method** Sample Preparation & Measurement Reporting	**Reporting Limit** Limits above which test results should be reported
Lead (Pb) CAS no. 7439-92-1	Extractable: Adults: 1 ppm Children and babies: 0.2 ppm Total: 90 ppm	Extractable: All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019 Total: Non-metal: CPSC-CH-E1002-08.3 Metal: CPSC-CH-E1001-08.3 Lead in paint and surface coatings: CPSC-CH-E1003-09.1	Extractable:0.2 ppm Total: 10 ppm
Mercury (Hg) CAS no. 7439-97-6	Extractable: 0.02 ppm Total: 0.5 ppm	All materials except leather: Extractable & Total: EN 16711-2:2015 Leather: Extractable: EN ISO 17072-1:2019 Total: EN ISO 17072-2:2022	Extractable: 0.02 ppm Total: 0.1 ppm
Nickel (Ni) CAS no. 7440-02-0	Extractable: 1 ppm Release (metal parts): Prolonged skin contact: 0.5 µg/cm²/week Eyewear frames: 0.5 µg/cm²/week	Extractable: All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019 Release: EN 12472:2020 and EN 1811:2023 Release (eyewear frames): EN 16128:2015	Extractable: 0.1 ppm Release: 0.5 µg/cm²/ week
Selenium (Se) CAS no. 7782-49-2	Extractable: 500 ppm	All materials except leather: EN 16711-2:2016 Leather: EN ISO 17072-1:2019	Extractable: 50 ppm

Heavy Metals (Jewelry) Sample preparation for jewellery and wearables: Wax areas not intended for skin- contact: EN 1811:2023

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Antimony (Sb) CAS no. 7440-36-0	Paints & Coatings: Extractable: 60 ppm	ASTM F963-23 as referenced in ASTM F2923:2020	Extractable: 5 ppm
Arsenic (As) CAS no. 7440-38-2	Paints & Coatings: Extractable: 25 ppm	ASTM F963-23 as referenced in ASTM F2923:2020	Extractable: 5 ppm
Barium (Ba) CAS no. 7440-39-3	Paints & Coatings: Extractable: 1000 ppm	ASTM F963-23 as referenced in ASTM F2923:2020	Extractable: 100 ppm
Cadmium (Cd) CAS no. 7440-43-9	Substrates, Paints & Coatings: Total: Adults: 75 ppm Children: 40 ppm	ASTM F963-23 as referenced in ASTM F2923:2020	Total: 5 ppm
Chromium (Cr) CAS no. 7440-47-3	Paints & Coatings: Extractable: 60 ppm	ASTM F963-23 as referenced in ASTM F2923:2020	Extractable: 5 ppm
Lead (Pb) CAS no. 7439-92-1	Substrates, Paints & Coatings: Total: 90 ppm	ASTM F963-23 as referenced in ASTM F2923:2020	Total: 10 ppm
Mercury (Hg) CAS no. 7439-97-6	Paints & Coatings: Extractable: 60 ppm	ASTM F963-23 as referenced in ASTM F2923:2020	Extractable: 5 ppm
Nickel (Ni) CAS no. 7440-02-0	Release (metal parts): Prolonged skin contact: 0.5 µg/cm²/week Pierced part: 0.2 µg/cm²/week	EN 12472:2020 and EN 1811:2023	Release: Prolonged skin contact: 0.5 µg/cm²/week Pierced part: 0.2 µg/cm²/week
Selenium (Se) CAS no. 7782-49-2	Paints & Coatings: Extractable: 500 ppm	ASTM F963-23 as referenced in ASTM F2923:2020	Extractable: 50 ppm

Monomers

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Styrene, Free CAS no. 100-42-5	500 ppm	Extraction in Methanol GC/MS, sonication at 60° C for 60 minutes	50 ppm
Vinyl Chloride CAS no. 75-01-4	1 ppm	EN ISO 6401:2022	1 ppm

N-Nitrosamines

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
N-nitrosodimethylamine (NDMA) CAS no. 62-75-9	0.5 ppm each	EN ISO 19577:2019 with LC/MS/MS verification if positive	0.5 ppm each
N-nitrosodiethylamine (NDEA) CAS no. 55-18-5			
N-nitrosodipropylamine (NDPA) CAS no. 621-64-7			
N-nitrosodibutylamine (NDBA) CAS no. 924-16-3			
N-nitrosopiperidine (NPIP) CAS no. 100-75-4			
N-nitrosopyrrolidine (NPYR) CAS no. 930-55-2			
N-nitrosomorpholine (NMOR) CAS no. 59-89-2			
N-nitroso N-methyl N-phenylamine (NMPhA) CAS no. 614-00-6			
N-nitroso N-ethyl N-phenylamine (NEPhA) CAS No. 612-64-6			

Ortho-phenylphenol

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Ortho-phenylphenol (OPP) CAS no. 90-43-7	1000 ppm	All materials: EN 17134-2:2023	100 ppm

Organotin Compounds

FULLY ALIGNED AFIRM REQUIREMENT

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Tributyltin (TBT) Triphenyltin (TPhT) CAS no. various	0.5 ppm each	All materials: ISO 16179:2025 or EN ISO 22744-1:2020	0.1 ppm each
Dibutyltin (DBT) Dioctyltin (DOT) Monobutyltin (MBT) Monooctyltin (MOT) Tricyclohexyltin (TCyHT) Trimethyltin (TMT) Trioctyltin (TOT) Tripropyltin (TPT) CAS no. various	1 ppm each		
Dimethyltin (DMT) Diphenyltin (DPhT) Dipropyltin (DPT) Monomethyltin (MMT) Monophenyltin (MPhT) Tetrabutyltin (TeBT) CAS no. 1461-25-2 Tetraethyltin (TeET) CAS no. 597-64-8 Tetraoctyltin (TeOT) CAS no. 3590-84-9	Other Organotins: 1 ppm each		

Ozone-depleting Substances

FULLY ALIGNED AFIRM REQUIREMENT

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
See Regulation (EU) 2024/590 for a complete list.	5 ppm	All materials: GC/MS headspace 120° C for 45 minutes	5 ppm

Per- and polyfluoroalkyl substances (PFAS)

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
All Per- and Polyfluoroalkyl Substances	**General usage ban**. See chapter *Manufacturing Restricted Substance List (MRSL).*		
All PFAS as measured by total organic fluorine	Not detected	Total fluorine test method: EN 14582:2016 or ASTM D7359:2018	20 ppm for individual sample only
Perfluorooctane Sulfonate (PFOS) and its salts CAS no. various **Perfluorooctanoic Acid (PFOA) and its salts** CAS no. various **Perfluorohexane-1-sulphonic acid (PFHxS) and its salts** CAS no. various **PFHxA and its salts** CAS no. various **C9-C14 Perfluorocarboxylic acids (PFCAs) and their salts** CAS no. various	Not detected	Textiles, synthetic coated fabrics (excluding leather and polymers): EN 17681-1:2025 alkaline hydrolysis Leather: EN ISO 23702-1:2023 Polymers: EN ISO 23702-1:2023 using THF extraction followed by methanol precipitation (1:1). Significantly higher findings of PFAS analytes are possible with EN 17681-1:2025, especially FTOHs, which does not necessarily mean PFAS were intentionally used.	0.025 ppm
C9-C14 PFCA-related substances CAS no. various			0.26 ppm
PFOS-related substances CAS no. various **PFOA-related substances** CAS no. various **PFHxS-related substances** CAS no. various **PFHxA-related substances** CAS no. various			1 ppm
Additional H&M Group substances:			
Perfluoroheptane Sulfonate (PFHpS) CAS no. 375-92-8 **Perfluorodecane Sulfonate (PFDS)** CAS no. 335-77-3; CAS no. 2806-15-7; CAS no. 2806-16-8 **Perfluorobutane Acid (PFBA)** CAS no. 375-22-4 **Perfluoropentane Acid (PFPA)** CAS no. 2706-90-3 **Perfluoroheptane Acid (PFHpA)** CAS no. 375-85-9 **Perfluorobutanesulfonic Acid PFBS** CAS no. 375-73-5			0.025 ppm
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) CAS no. 2043-47-2			1 ppm

Pesticides and Herbicides, Agricultural

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
See Appendix 2. Pesticides and Herbicides, Agricultural for a complete list.	0.5 ppm each	All materials: EN ISO 15913:2003 or EPA 8081/EPA 8151A or BVL L 00.00-34:2010-09	0.5 ppm each

Phthalates

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Di-Iso-nonylphthalate (DINP) CAS no. 28553-12-0	500 ppm each Total: 1000 ppm	Sample preparation for all materials: CPSC-CH-C1001-09.4 Measurement: Textiles: GC/MS, EN ISO 14389:2022 (8.1 Calculation based on weight of print only; 8.2 Calculation based on weight of print and textile if print cannot be removed). All materials except textiles: GC/MS	50 ppm each
Di-n-octylphthalate (DNOP) CAS no. 117-84-0			
Di(2-ethylhexyl)-phthalate (DEHP) CAS no. 117-81-7			
Diisodecylphthalate (DIDP) CAS no. 26761-40-0			
Butylbenzylphthalate (BBP) CAS no. 85-68-7			
Dibutylphthalate (DBP) CAS no. 84-74-2			
Diisobutylphthalate (DIBP) CAS no. 84-69-5			
Di-n-hexylphthalate (DnHP) CAS no. 84-75-3			
Diethylphthalate (DEP) CAS no. 84-66-2			
Dimethylphthalate (DMP) CAS no. 131-11-3			
Di-n-pentyl phthalate (DPENP) CAS no. 131-18-0			
Dicyclohexyl phthalate (DCHP) CAS no. 84-61-7			
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich CAS no. 71888-89-6			
Bis(2-methoxyethyl) phthalate CAS no. 117-82-8			
Diisopentyl phthalate (DIPP) CAS no. 605-50-5			
Dipropyl phthalate (DPRP) CAS no. 131-16-8			
Diisooctyl phthalate (DIOP) CAS no. 27554-26-3			
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear CAS no. 68515-50-4			

Continue - Phthalates

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Diisohexyl phthalate (DIHxP) CAS no. 71850-09-4	500 ppm each Total: 1000 ppm	Sample preparation for all materials: CPSC-CH-C1001-09.4 Measurement: Textiles: GC/MS, EN ISO 14389:2022 (8.1 Calculation based on weight of print only; 8.2 Calculation based on weight of print and textile if print cannot be removed). All materials except textiles: GC/MS	50 ppm each
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) CAS no. 68515-42-4			
1,2-Benzenedicarboxylic acid Dipentyl ester, branched and linear CAS no. 84777-06-0			
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters; 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters CAS no. 68648-93-1; CAS no. 68515-51-5			
n-Pentyl-isopentylphthalate (nPIPP) CAS no. 776297-69-9			
Bis(2-ethylhexyl) tetrabromophthalate CAS no. 26040-51-7			
Bis(2-propylheptyl) phthalate (DPHP) CAS no. 53306-54-0	For informational purposes only. Report detections.		

Polycyclic Aromatic Hydrocarbons (PAHs)

Substance	Limits Component Materials in Finished Product		Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Acenaphtene CAS no. 83-32-9 **Acenaphthylene** CAS no. 208-96-8 **Anthracene** CAS no. 120-12-7 **Benzo(g,h,i)perylene** CAS no. 191-24-2 **Fluorene** CAS no. 86-73-7 **Fluoranthene** CAS no. 206-44-0 **Indeno(1,2,3-cd)pyrene** CAS no. 193-39-5 **Naphthalene**** CAS no. 91-20-3 **Phenanthrene** CAS no. 85-01-8 **Pyrene** CAS no. 129-00-0	No individual restriction	Total: 10 ppm	All materials: AFPS GS 2019 or EN 17132:2019 or ISO 16190:2021	0.2 ppm each

Continue - Polycyclic Aromatic Hydrocarbons (PAHs)

Substance	Limits Component Materials in Finished Product		Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Benzo(a)anthracene CAS no. 56-55-3 **Benzo(a)pyrene** CAS no. 50-32-8 **Benzo(b)fluoranthene** CAS no. 205-99-2 **Benzo[e]pyrene** CAS no. 192-97-2 **Benzo[j]fluoranthene** CAS no. 205-82-3 **Benzo(k)fluoranthene** CAS no. 207-08-9 **Chrysene** CAS no. 218-01-9 **Dibenzo(a,h)anthracene** CAS no. 53-70-3	1 ppm each Child care articles: 0.5 ppm each	Total: 10 ppm	All materials: AFPS GS 2019 or EN 17132:2019 or ISO 16190:2021	0.2 ppm each

Quinoline

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Quinoline CAS no. 91-22-5	50 ppm	All materials: DIN 54231:2022 with methanol extraction at 70° C	10 ppm

Recycled Natural & Synthetic Textile Materials

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Recycled natural and synthetic textile materials.	Products made of **recycled** fibers should meet H&M Group Chemical restrictions.	Testing requirement according to section “H&M RSL TESTING MATRIX FOR RECYCLED TEXTILES” listed in H&M Group Chemical Testing Guideline for Textile products, Accessories, Footwear, Bags and Belts must be followed for each article in the product. Product testing according to methods specified in AFIRM RSL.	-

Solvents and Residuals

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Dimethylformamide (DMFa) CAS no. 68-12-2	**General usage ban**. See chapter *Manufacturing Restricted Substance List (MRSL).* If contamination is suspected (unintentional), test accordingly:		
	Not detected	Textiles: EN 17131-1:2025 All other materials: ISO 16189:2021	5 ppm
Formamide CAS no. 75-12-7	200 ppm	Textiles: EN 17131-1:2025 All other materials: ISO 16189:2021	50 ppm each
Dimethylacetamide (DMAC) CAS no. 127-19-5	1000 ppm each		
N-Methyl-2-pyrrolidone (NMP) CAS no. 872-50-4			

UV Absorbers / Stabilizers

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
UV 320 CAS no. 3846-71-7	Not detected	ISO 24040:2022 with extraction in THF, analysis by GC/MS Note: Stabilized THF should be used for extraction.	50 ppm each
UV 327 CAS no. 3864-99-1			
UV 326 CAS no. 3896-11-5			
UV 329 CAS no. 3147-75-9			
UV 350 CAS no. 36437-37-3			
UV 328 CAS no. 25973-55-1			
Drometrizole CAS no. 2440-22-4			

Volatile Organic Compounds (VOCs)

FULLY ALIGNED AFIRM REQUIREMENT

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Benzene CAS no. 71-43-2	Benzene: 5 ppm	For general VOC screening: GC/MS headspace 45 minutes at 120° C	5 ppm
Other: See Appendix 3. Volatile Organic Compounds (VOCs) in H&M Group Chemical Restrictions 2026 Textile, Acc., FBB for a complete list.	Total: 500 ppm		100 ppm each

Manufacturing Restricted Substances List (MRSL)

Below you can find all the Chemical Requirements (chemicals banned from intentional use in the manufacturing process) for Textile Products, Accessories, Footwear, Bags, and Belts, valid for all brands within the H&M Group.

Biocidal compounds and biocidal claims

Substance	Requirement
Biocidal compounds, treatments, and claims, or any substance used for this purpose	General usage ban. Input control – check SDS on all chemical products used for H&M Group products. This is secured through checking the Chemical Inventory List (CIL) through incoming chemical tool. Some biocidal substances are restricted in ZDHC MRSL (chapter 1B) and AFIRM RSL; test methods for those are specified there. For products: Biocide-treated articles according to definition in European Biocidal Products Regulation (BPR, Regulation (EU) 528/2012), including biocidal claims “antimicrobial”, “antibacterial”, “anti-odour”, etc.

Chlorinated Bleaching Agents

Substance	Requirement
Chlorinated bleaching agents	General usage ban. Input control – check SDS on all chemical products used for H&M Group products. This is secured through checking the Chemical Inventory List (CIL) through incoming chemical tool. Finishing treatments with chlorinated bleaching agents can only be used in denim production.

Dimethylformamide (DMFa)

Substance	Requirement
Dimethylformamide (DMFa) CAS no. 68-12-2	General usage ban. Input control – check SDS on all chemical products used for H&M Group products. This is secured through checking the Chemical Inventory List (CIL) through incoming chemical tool. DMFa is included in ZDHC MRSL 3.1. If a material or product is assessed to have an increased risk of DMFa, test according to chapter *RSL Solvents and Residuals – DMFa.*

Flame Retardants

Substance	Requirement
All flame retardants	General usage ban. Input control – check SDS on all chemical products used for H&M Group products. This is secured through checking the Chemical Inventory List (CIL) through incoming chemical tool. If contamination is suspected (unintentionally), see *chapter RSL Flame Retardants.* Certain Flame Retardants are included in the ZDHC MRSL (chapter 1H).

Fluorinated Greenhouse Gases

Substance	Requirement
See Regulation (EU) 2024/573 for a complete list.	General usage ban. Input control – check SDS on all chemical products used for H&M Group products. This is secured through checking the Chemical Inventory List (CIL) through incoming chemical tool. For specific substances included in this category, see chapter *RSL Fluorinated Greenhouse Gases* for testing.

Nanomaterials

Substance	Requirement
Nanomaterials	General usage ban. Input control – check SDS on all chemical products used for H&M Group products. This is secured through checking the Chemical Inventory List (CIL) through incoming chemical tool.

Per- and polyfluoroalkyl substances (PFAS)

Substance	Requirement
All Per- and Polyfluoroalkyl Substances	General usage ban. Input control – check SDS on all chemical products used for H&M Group products. This is secured through checking the Chemical Inventory List (CIL) through incoming chemical tool. Certain PFAS are included in the ZDHC MRSL. For specific substances included in this category, see chapter *RSL Per- and polyfluoroalkyl substances (PFAS).*

Polyvinylchloride (PVC) and other chlorinated polymers

Substance	Requirement
Polyvinyl chloride (PVC), polychloroprene (e.g. Neoprene) and other similar chlorinated polymers	General usage ban. Input control – check SDS on all chemical products used for H&M Group products. This is secured through checking the Chemical Inventory List (CIL) through incoming chemical tool.

Potassium Permanganate

Substance	Requirement
Potassium permanganate CAS no. 7722-64-7	General usage ban. Input control – check SDS on all chemical products used for H&M Group products. This is secured through checking the Chemical Inventory List (CIL) through incoming chemical tool. Certain substances are included in ZDHC MRSL (chapter 2E).

REACH SVHC

Substance	Requirement
REACH SVHC and Substances defined as hazardous due to intrinsic properties Criteria for hazardous as defined in REACH Article 57.	General restriction of 0.1% (w/w) for all SVHC substances. Certain substances may be subjected to additional, stricter limits according to H&M Group Chemical Restrictions. Make sure such limits are met. Confirmation is required. Input control – check SDS on all chemical products used for H&M Group products. This is secured through checking the Chemical Inventory List through incoming chemical tool. Safety Data Sheet (SDS) according to Reach Regulation 1907/2006 article 31. Each chemical substance and/or chemical mixture must be classified according to the CLP Regulation, Regulation (EC) No 1272/2008.

UV Absorbers/Stabilizers/Filters

Substance	Requirement
UV absorbers/stabilizers/filters, or any substance used for this purpose	General usage ban for textile products. Input control – check SDS on all chemical products used for H&M Group products. This is secured through checking the Chemical Inventory List (CIL) through incoming chemical tool. Also check the Technical Data Sheet and other product information for "anti-UV"/SPF claims. Certain substances are included in ZDHC MRSL (chapter 1S) and AFIRM RSL. *For specific substances included in this category, see chapter RSL UV Absorbers/Stabilizers.*

Additional Requirements

GOTS-certified product

In addition to H&M Group Chemical Restrictions for Textile Products and for Production (H&M Group Requirements, AFIRM RSL and ZDHC MRSL 3.1), GOTS-certified products shall also comply with requirements in the latest version of Global Organic Textile Standard, in particular the requirements specified in Table 5.2.7.2 (Limit values for residues in GOTS Goods) and 5.2.8.1 (Limit values for residues in additional fibers materials and accessories).

Products: Where H&M Group Chemical Restrictions, AFIRM RSL and GOTS-tables list requirements for the same substances, the strictest requirement shall always take precedence.

Production: Where H&M Group Chemical Restrictions, ZDHC MRSL and GOTS-tables list requirements for the same substances, the strictest requirement shall always take precedence.

Direct link to version 7 (current latest version) of the standard: GOTS_7.0__SIGNED_.pdf (global-standard.org)

Self-adhesive products for skin contact - Including, but not limited to body tape, self-adhesive bras, and nipple covers.

Component/Area	Required Documentation & Testing
Adhesive/Glue	All compliance documents must be submitted for approval to **dlcompliancechemicalspecialistsconsumerarticles@hm.com** at the development stage for all articles, minimum once per season. In addition to normal chemical compliance assurance (risk assessment and related testing), the following documents are required: 1. Full Material Declaration (FMD). 2. Safety Data Sheet (SDS) according to Reach Regulation 1907/2006 article 31. Each chemical substance and/or chemical mixture must be classified according to the CLP Regulation (EC) No 1272/2008. 3. Third-party Toxicological Risk Assessment (TRA) according to General Product Safety Regulation (GPSR) (EC) No 2023/988. 4. Third-party Use Test - Product applied to a defined skin area with volunteers selected by sex, age, and skin type. Includes: — Auto-evaluation (Questionnaire) — Dermatological examination

Preglued stickers/decorations/stencils - For use on eye, face, body, and hair

Component/Area	Required Documentation & Testing
Adhesive/Glue	All compliance documents must be submitted for approval to **dlcompliancechemicalspecialistsconsumerarticles@hm.com** at the development stage for all articles, minimum once per season. In addition to normal chemical compliance assurance (risk assessment and related testing), the following documents are required: 1. Full Material Declaration (FMD). 2. Safety Data Sheet (SDS) according to Reach Regulation 1907/2006 article 31. Each chemical substance and/or chemical mixture must be classified according to the CLP Regulation (EC) No 1272/2008. 3. All the stickers must be produced according to the latest version of GMP ISO 22716. 4. Cosmetic Product Safety Report (CPSR) according to the EU Cosmetic Regulation (EC) No 1223/2009. 5. Third-party Use Test - Product applied to a defined skin area with volunteers selected by sex, age, and skin type. Includes: — Auto-evaluation (Questionnaire) — Dermatological examination

Preglued false nails/nail decorations/nail wraps

Component/Area	Required Documentation & Testing
Adhesive/Glue	All compliance documents must be submitted for approval to **dlcompliancechemicalspecialistsconsumerarticles@hm.com** at the development stage for all articles, minimum once per season. In addition to normal chemical compliance assurance (risk assessment and related testing), the following documents are required: 1. Full Material Declaration (FMD). 2. Safety Data Sheet (SDS) according to Reach Regulation 1907/2006 article 31. Each chemical substance and/or chemical mixture must be classified according to the CLP Regulation (EC) No 1272/2008. 3. Third-party Toxicological Risk Assessment (TRA) according to the CLP Regulation (EC) No 1272/2008.

Cosmetic accessories - Cotton swabs and pads, sheet mask, pimple patch and wet wipes.

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
Plastic materials	General usage ban		
Fluorescent brightening agent	General usage ban	UV-lamp	
Total viable count of yeast and mold	< 300 CFU/g	EN ISO 16212 / European Pharmacopeia (Ph. Eur.), 2.6.12. "Microbiological examination of non-sterile products."	
Total viable count of aerobic mesophilic bacteria	< 300 CFU/g	EN ISO 21149 / European Pharmacopeia (Ph. Eur.), 2.6.12. "Microbiological examination of non-sterile products."	
Other cosmetic accessories			
Metals extractable amount			
Antimony (Sb) CAS no. 7440-36-0	30 ppm	EN ISO 16711-2	3 ppm
Arsenic (As) CAS no. 7440-38-2	0.2 ppm		0.1 ppm
Barium (Ba) CAS no. 7440-39-3	1000 ppm		100 ppm
Cadmium (Cd) CAS no. 7440-43-9	0.1 ppm		0.02 ppm
Chromium (Cr) CAS no. 7440-47-3	1 ppm		0.3 ppm
Lead (Pb) CAS no. 7439-92-1	0.2 ppm		0.1 ppm
Mercury (Hg) CAS no. 7439-97-6	0.02 ppm		0.02 ppm
Selenium (Se) CAS no. 7782-49-2	460 ppm		50 ppm

Carpets and Mats (all materials)

Substance	Limits Component Materials in Finished Product	Suitable Test Method Sample Preparation & Measurement Reporting	Reporting Limit Limits above which test results should be reported
4-Phenylcyclohexene CAS no. 4994-16-5	≤ 0.050 mg/m^2/h	GB 18587-2001 Grade B (products qualified in respect of limitations of emitted harmful substances)	As specified in test standard
Formaldehyde CAS no. 50-00-0	≤ 0.050 mg/m^2/h		
Styrene CAS no. 100-42-5	≤ 0.500 mg/m^2/h		
Volatile Organic Compounds, Total (TVOC)	≤ 0.600 mg/m^2/h		

Appendix 1. Per- and Polyfluoroalkyl Substances (PFAS)

A Converted to PFOS
B Converted to PFOA
C Converted to 8:2 FTOH
D Converted to PFHxS
E Converted to 10:2 FTOH
F Converted to 6:2 FTOH

NOTE: This list is a subset of PFAS and is not exhaustive. Findings would indicate intentional use or significant contamination.

CAS No.	PFAS Name
	PFOS and its Salts
1763-23-1	Perfluorooctanesulfonic acid (PFOS)
2795-39-3	Perfluorooctanesulfonic acid, potassium salt (PFOS-K) [A]
29457-72-5	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li) [A]
29081-56-9	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH4) [A]
70225-14-8	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH)2) [A]
56773-42-3	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C2H5)4) [A]
251099-16-8	Didecyldimethyl ammonium perfluorooctane sulfonate (PFOS-N(C10H21)2(CH3)2) [A]
	PFOS-related Substances
4151-50-2	N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)
31506-32-8	N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)
1691-99-2	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)
24448-09-7	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)
307-35-7	Perfluoro-1-octanesulfonyl fluoride (POSF) [A]
754-91-6	Perfluorooctane sulfonamide (PFOSA)
	PFOA and Its Salts
335-67-1	Perfluorooctanoic acid (PFOA)
335-95-5	Sodium perfluorooctanoate (PFOA-Na) [B]
2395-00-8	Potassium perfluorooctanoate (PFOA-K) [B]
335-93-3	Silver perfluorooctanoate (PFOA-Ag) [B]
335-66-0	Perfluorooctanoyl fluoride (PFOA-F) [B]
3825-26-1	Ammonium pentadecafluorooctanoate (APFO) [B]
	PFOA-related Substances
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)
376-27-2	Methyl perfluorooctanoate (Me-PFOA) [B]
3108-24-5	Ethyl perfluorooctanoate (Et-PFOA) [B]
678-39-7	2-Perfluorooctylethanol (8:2 FTOH)
27905-45-9	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) [C]
1996-88-9	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) [C]
27854-31-5	2H,2H-Perfluorodecanoic acid (H2PFDA) *

NOTE: The substances in red are included as they appear in the regulation. However, as they are hydrolysed during the testing, they will never be detected or reported. Instead, they will be reported as the related substances as shown, each of which is also included in the regulation.
* Cannot be detected by the 17681-1:2025 method and it is important to check your supply chain to make sure it is not present in input chemistry.

CAS No.	PFAS Name
	PFHxS and Its Salts
355-46-4	Perfluorohexane Sulfonic acid (PFHxS)
3871-99-6	Perfluorohexane Sulfonic acid, potassium salt (PFHxS-K) [D]
55120-77-9	Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li) D [D]
68259-08-5	Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH4) [D]
82382-12-5	Perfluorohexane Sulfonic acid, sodium salt (PFHxS-Na) [D]
	PFHxS-related Substances
68259-15-4	N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA)
41997-13-1	Perfluorohexane sulfonamide (PFHxSA)
	C9 – C14 PFCAs and Their Salts
375-95-1	Perfluorononanoic Acid (PFNA, C9-PFCA)
335-76-2	Perfluorodecanoic Acid (PFDA, C10-PFCA)
2058-94-8	Perfluoroundecanoic Acid (PFUnA, C11-PFCA)
307-55-1	Perfluorododecanoic Acid (PFDoA, C12-PFCA)
72629-94-8	Perfluorotridecanoic Acid (PFTrDA, C13-PFCA)
376-06-7	Perfluorotetradecanoic Acid (PFTeDA, C14-PFCA)
172155-07-6	Perfluoro-3-7-dimethyloctanecarboxylate (PF-3,7-DMOA)
	C9 – C14 PFCA-related Substances
17741-60-5	1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA) [E]
2144-54-9	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) [E]
865-86-1	1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)
34598-33-9	2H,2H,3H,3H-Perufloroundecanoic acid (H4PFUnA)
678-39-7	2-Perfluorooctylethanol (8:2 FTOH)
39239-77-5	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)
120226-60-0	1H,1H,2H,2H-Perfluorododecanesulphonic acid (10:2 FTS)
2043-54-1	1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI) *
30046-31-2	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI) *
	PFHxA and Its Salts
307-24-4	Perfluorohexanoic Acid (PFHxA, C6-PFCA)
	PFHxA-related Substances
17527-29-6	1H,1H,2H,2H-Perfluorooctyl acrylate (6:2 FTA) [F]
2144-53-8	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA) [F]
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)
647-42-7	1H,1H,2H,2H-Perfluorooctanol (6:2 FTOH)

Appendix 2. Pesticides and Herbicides, Agricultural

CAS No.	Pesticide Name	CAS No.	Pesticide Name	CAS No.	Pesticide Name
93-72-1	2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds; 2,4,5-TP	333-41-5	Diazinone	465-73-6	Isodrine
		1085-98-9	Dichlofluanide	4234-79-1	Kelevane
93-76-5	2,4,5-T	120-36-5	Dichloroprop	143-50-0	Kepone
94-75-7	2,4-D	115-32-2	Dicofol	58-89-9	Lindane
309-00-2	Aldrine	141-66-2	Dicrotophos	121-75-5	Malathione
86-50-0	Azinophosmethyl	60-57-1	Dieldrine	94-74-6	MCPA
2642-71-9	Azinophosethyl	60-51-5	Dimethoate	94-81-5	MCPB
4824-78-6	Bromophos-ethyl	88-85-7	Dinoseb, its salts and acetate	93-65-2	Mecoprop
2425-06-1	Captafol	63405-99-2	DTTB (4, 6-Dichloro-7 (2,4,5-trichloro- phenoxy) -2-Trifluoro methyl benz imidazole)	10265-92-6	Metamidophos
63-25-2	Carbaryl			72-43-5	Methoxychlor
510-15-6	Chlorbenzilat	115-29-7	Endosulfan	2385-85-5	Mirex
57-74-9	Chlordane	959-98-8	Endosulfan I (alpha)	6923-22-4	Monocrotophos
6164-98-3	Chlordimeform	33213-65-9	Endosulfan II (beta)	298-00-0	Parathion-methyl
470-90-6	Chlorfenvinphos	72-20-8	Endrine	1825-21-4	Pentachloroanisole
1897-45-6	Chlorthalonil	66230-04-4	Esfenvalerate	7786-34-7	Phosdrin/Mevinphos
56-72-4	Coumaphos	106-93-4	Ethylendibromid	72-56-0	Perthane
68359-37-5	Cyfluthrin	56-38-2	Ethylparathione; Parathion	31218-83-4	Propethamphos
91465-08-6	Cyhalothrin	51630-58-1	Fenvalerate	41198-08-7	Profenophos
52315-07-8	Cypermethrin	Various	Halogenated naphthalenes, including polychlorinated naphthalenes (PCNs)	13593-03-8	Quinalphos
78-48-8	S,S,S-Tributyl phosphorotrithioate (Tribufos)			82-68-8	Quintozene
52918-63-5	Deltamethrin	76-44-8	Heptachlor	8001-50-1	Strobane
53-19-0	DDD	1024-57-3	Heptachloroepoxide	297-78-9	Telodrine
72-54-8		36355-01-8	Hexabromobiphenyl	8001-35-2	Toxaphene
3424-82-6	DDE	319-84-6	a-Hexachlorocyclohexane with & without Lindane	731-27-1	Tolylfluanide
72-55-9		319-85-7	b-Hexachlorocyclohexane with & without Lindane	1582-09-8	Trifluraline
50-29-3	DDT	319-86-8	g-Hexachlorocyclohexane with & without Lindane		
789-02-6		118-74-1	Hexachlorobenzene		

Appendix 3. Volatile Organic Compounds (VOCs)

Existing VOCs from Previous Versions of the AFIRM RSL		VOCs Restricted in Other Sections of the RSL		VOCs Added in the 2025 AFIRM RSL	
CAS No.	VOC Name	CAS No.	VOC Name	CAS No.	VOC Name
75-15-0	Carbon Disulfide	95-50-1	1,2-Dichlorobenzene	96-18-4	1,2,3-trichloropropane
56-23-5	Carbon Tetrachloride	106-46-7	1,4-Dichlorobenzene	78-87-5	1,2,Dichloropropane
67-66-3	Chloroform	872-50-4	1-Methyl-2-pyrrolidione	111-15-9	2-Ethoxyethyl acetate
108-94-1	Cyclohexanone	617-94-7	2-phenyl-2-propanol	149-57-5	2-Ethylhexane acid
107-06-2	1,2-Dichloroethane	98-86-2	Acetophenone	62-53-3	Aniline
75-35-4	1,1-Dichloroethylene	75-12-7	Formamide	111-96-6	Bis(2-methoxyethyl)ether
100-41-4	Ethylbenzene	127-19-5	N,N-Dimethylacetamide (DMAC)	78-59-1	Isophorone
76-01-7	Pentachloroethane	91-20-3	Naphthalene	108-95-2	Phenol
630-20-6	1,1,1,2- Tetrachloroethane	68-12-2	N-N-Dimethylformamide (DMFa)	109-99-9	THF
79-34-5	1,1,2,2- Tetrachloroethane	100-42-5	Styrene	106-94-5	1-bromopropane
127-18-4	Tetrachloroethylene (PERC)			70657-70-4	1-PG2MEA 1-Propanol,2-methoxy-, acetate)
108-88-3	Toluene			111-77-3	2-(2-Methoxyethoxy)ethanol
71-55-6	1,1,1- Trichloroethane			110-80-5	2-ethoxyethanol
79-00-5	1,1,2- Trichloroethane			109-86-4	2-Methoxyethanol EGME (ethylene glycol monomethyl ether)
79-01-6	Trichloroethylene			1589-47-5	2-Methoxypropan-1-ol
1330-20-7	Xylenes (meta-, ortho-, para-)			110-71-4	EGDME (Ethylene glycol dimethyl ether)
108-38-3				110-49-6	EGMEA EGMEA (Ethylene glycol monomethyl ether acetate)
95-47-6				67-72-1	Hexachloroethane
106-42-3				75-09-2	Merhylene chloride (dichloromethane)
				110-54-3	n-hexane
				112-49-2	TEGDME (Triethylene glycol dimethyl ether)