H&M GROUP CHEMICAL RESTRICTIONS 2024

RESTRICTED SUBSTANCES LIST (RSL)

Toys

Valid for all brands in the H&M Group.

Group Compliance



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General

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

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

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

Definitions

Concentration Limit	The substance must not be present in the product at concentrations above this limit.
Usage ban	The substance must not be used in production and it must not be added to the product ¹ .
Homogeneous	Uniform composition throughout, i.e. a material that cannot be mechanically disjointed into different materials.
Safety Data Sheets	All chemicals used should have Safety Data Sheets, SDS, showing that they do not contain restricted substances. More information about SDS can be found in the AFIRM Toolkit ² , appendix H.
Substances defined as hazardous due to intrinsic properties.	Persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB), carcinogenic, mutagenic and toxic for reproduction (CMR), endocrine disruptors (ED) or equivalent concern

Abbreviations

CAS no	Chemical Abstracts Service number, an identification number for chemicals in this database.
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
ppm	Parts per million, which is the same as mg/kg.
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
SVHC	Substances of Very High Concern
SDS	Safety Data Sheet

¹ Impurities at low concentrations of these substances may be accepted only if technically unavoidable due to e.g. raw materials, formation in the manufacturing process, storage or packaging.

² www.afirm-group.com/toolkit/

Requirements

General requirements											
H&M Group Chemical Restrictions – Textile Products, Accessories, Footwear, Bags and Belts	All soft toys and costumes/dress-up must comply with H&M Group Chemical Restrictions Textile Products, Accessories, Footwear, Bags and Belts, both with respect to production and product requirements.										
H&M Group Chemical Restrictions – Chemical products	Toys that are also chemical products as pens, crayons and paint must comply with requirements in <i>H&M Group Chemical Restrictions Chemical products</i> .										
H&M Group Chemical Restrictions – Cosmetic products	For toys that are also cosmetic products, the content/formula of the product must comply with requirements in <i>H&M Group Chemical Restrictions Cosmetic Products</i> .										
H&M Group Chemical Restrictions – Non- Commercial Goods (NCG), Construction and Packaging	If the toy is sold in a packaging, this must also comply with <i>H&M Group Chemical Restrictions Non-Commercial Goods (NCG), Construction and Packaging</i> .										
Toy standards – applicable for all markets	·										
European Standards for Safety of Toys EN 71	All toys must comply with and be tested according to the latest valid edition of stated EN 71 Toy standards.	Applicable material and type of toy to be tested									
	EN 71-3; Migration of certain elements	Applicable for all toy material									
	EN 71-12; N-Nitrosamines and N-nitrosatable substances	Applicable for Plastic and Rubber									
	EN 71-9; Organic chemical compounds – Requirements	According to Table 1 in EN 71-9 (contact your testing lab for advice).									
	Method: EN 71-10 and EN 71-11	Check clauses 4.2 (Liquids) and 4.3 (Formaldehyde) in EN 71-9, as applicable									
ASTM F963	All toys must comply with and be tested for valid edition	of US Standard ASTM F963.									
NB-TOYS/2012/26, EC type approval protocol No. 2 Microbiological safety of toys containing aqueous media	All toys containing aqueous media which the child is likely to become exposed to during normal or foreseeable use of the toys must comply with NB-TOYS/2012/26, EC type approval protocol No. 2										

Country sp	pecific standards/test requirements	
Market	Standard/Test/Law	Requirement
Australia	AS/NZS ISO 8124-3	All toys for the Australian market must comply with and be tested according to the latest valid edition of AS/NZS ISO 8124-3.
China	GB 31701-2015 Safety Technical Code for Infants and Textile Products (phthalates and total lead and cadmium)	Disguise costumes including accessories to costumes shall comply with GB 31701-2015 and GB 6675.4-2014.
	And	The Phthalate contents in plasticized material shall comply with GB 6675.1-2014 table 2.
	GB 6675.1-2014 Phthalate content GB 6675.4-2014 Migration of certain	Soft toys shall comply with GB 6675.4-2014.
	elements	Please see separate Test Routine for Soft Toys and Disguise Costumes for China.
Japan	Japanese Food Sanitation Law (JFSL)	All toys for the Japanese market must comply with and be tested according to Japanese Food Sanitation Law (JFSL) Section IV "Toys". Tests should be performed at an official MHLW registered laboratory ³ who will issue certificate of analysis showing compliance.
Turkey	Phthalates and azo	All toys for the Turkish market must be tested for phthalates and azo dyes. Plastic should be tested for phthalates and textile materials should be tested for azo dyes. More information is to be found in <i>TR</i> – <i>Toys Shipping Instructions</i> . For limits and test methods see <i>H&M Group Chemical Restrictions Textile Products, Accessories, Footwear, Bags and Belts</i> .
USA	CPSIA	All toys for the US market must be tested for lead and phthalates according to the <i>CPSIA routine</i> found on Inside. A certificate should be made based on the third-party test results.
Chile	Decree No 114 of 2005 (Regulations on Toys Safety)	Toys and children's articles containing toluene more than 170 ppm are not allowed to be distributed or sold in Chile; Toys and Children's articles importing to Chile shall be accompanied by a certification showing that the content of toluene does not exceed the requirement above
India	IS 9873 (part 3)-Migration of certain elements	All toys shipped to India needs to be BIS certified and the Toys products should be tested as per Indian Standard (IS 9873) for physical & chemical testing from BIS accredited labs.
	IS 9873 (part 9)-Certain Phthalates Esters.	

³ A list of the official MHLW registered laboratories can be found at the following MHLW website: http://www.mhlw.go.jp/english/topics/importedfoods/1-10.html

Requirements based on classification	
CMR - Carcinogenic, Mutagenic or toxic for Reproduction	Substances that are classified as carcinogenic, mutagenic or toxic for reproduction (CMR) of category 1A, 1B or 2 shall not be used in toys, in components of toys or in micro-structurally distinct parts of toys.
Material requirements	
Polycarbonate (PC) plastic	Usage ban

					Арр	licab	le Ma	teria	s																														
Restricted substance	CAS no	Concentration Limit			Plastic	Rubber	Coating/ Printing	Metal	Natural fibres	Synthetic fibres	Paper Wood	Aqueous material	Test method/ Standard																										
Polyaromatic hydrocarbo	ons (PAH)																																						
		Toys which are intended to be taken in the mouth or intended to have long-term skin contact (longer than 30 seconds)	Toys with predictable skin contact longer than 30 seconds (long- term skin contact) or repeated short- term skin contact	All other toys									AfPS Extraction with																										
Benzo[a]anthracene	56-55-3	< 0.2 ppm	< 0.2 ppm	< 0.5 ppm									toluene followed by GC-																										
Benzo[a]pyrene	50-32-8	< 0.2 ppm	< 0.2 ppm	< 0.5 ppm	•	•	•						MS analysis (reporting																										
Benzo[b]fluoranthene	205-99-2	< 0.2 ppm	< 0.2 ppm	< 0.5 ppm				r.											l			l																	limit 0.2 ppm)
Benzo[e]pyrene	192-97-2	< 0.2 ppm	< 0.2 ppm	< 0.5 ppm																																			
Benzo(g,h,i)perylene	191-24-2	< 0.2 ppm	< 0.2 ppm	< 0.5 ppm																																			
Benzo[j]fluoranthene	205-82-3	< 0.2 ppm	< 0.2 ppm	< 0.5 ppm																																			
Benzo[k]fluoranthene	207-08-9	< 0.2 ppm	< 0.2 ppm	< 0.5 ppm			1																																
Chrysene	218-01-9	< 0.2 ppm	< 0.2 ppm	< 0.5 ppm																																			
Dibenzo[a,h]anthracene	53-70-3	< 0.2 ppm	< 0.2 ppm	< 0.5 ppm																																			
Indeno(1,2,3- c,d)pyrene	193-39-5	< 0.2 ppm	< 0.2 ppm	< 0.5 ppm																																			

				Арр	licab	le Ma	terial	s					
Restricted substance	CAS no	Concentration L	Concentration Limit		Plastic	Rubber	Coating/ Printing	Metal	Natural fibres	Synthetic fibres	Paper Wood	Aqueous material	Test method/ Standard
Acenaphthene	83-32-9												
Acenaphthylene	208-96-8												
Anthracene	120-12-7			Sum < 20									
Fluoranthene	206-44-0	Sum < 1 ppm	Sum < 5 ppm	ppm									
Fluorene	86-73-7												
Phenanthrene	85-01-8												
Pyrene	129-00-0				_								
Naphthalene	91-20-3	< 1 ppm	< 2 ppm	< 10 ppm	_								
Sum of 18 PAH		< 1 ppm	< 5 ppm	< 20 ppm									
Bisphenol A	80-05-7	0.04 mg/l (migrati	on limit)		•		•			•			EN 71-10 and EN 71-11
Styrene	100-42-5	0.75 mg/l (migrati	on limit)		•	•	•						EN 71-10 and EN 71-11
Styrene-based polymers	Various	Upcoming restrict extended to all pro 2030.	ion for Toys. The re oduct categories b		•	•							Input control
Formamide	75-12-7	Foam material: 20	00 mg/kg (total am	ount)	•	•							Acetone extraction using ultrasound followed by GC/MS analysis.
Formaldehyde	50-00-0	with the restrictio The whole order n components of to of age must comp mg/kg. Leather componen 3 years of age must 30 mg/kg	part of the produc g and binding) mus n limit: (A-AO) < 0.0 nust fulfil this requ ys intended for chi ly with the restrict hts of toys intended st comply with the s of toys intended	ct (e.g., main st comply 05 (16 mg/kg). irrement. Textile Idren > 3 years ion limit: 75 d for Children ≤ restriction limit: for Children ≤ 3	•	•	•		•	•	•		Textile: JIS L 1041-2011, Method A (Reporting limit: (A-A0) < 0.02 (=5 mg/kg)) or ISO 14184-1 (Reporting limit 16 mg/kg). Leather: EN ISO 17226-1 Plastic, Rubber, Coating and Printing: EN 71-10 and EN 71-11

		Concentration Limit	Арр	licab	le Ma	teria					
Restricted substance	CAS no		Plastic	Rubber	Coating/ Printing	Metal	Natural fibres	Synthetic fibres	Paper Wood	Aqueous material	Test method/ Standard
		30 mg/kg. Children > 3 years of age must comply with the restriction limit: 75 mg/kg. If an order includes products intended for children under 3 years of age, the whole order must fulfil this requirement. <i>Resin-bonded wood components</i> of toys shall not release formaldehyde more than 0.1 ml/m3 Water based Toy material shall not exceed 10mg/kg <i>Polymeric components</i> of toys intended for children ≤ 3 years of age must comply with the restriction limit: 1.5 mg/l (migration limit).									Paper: EN 645 and EN 1541 (Reporting limit 5 mg/kg) <i>Wood:</i> EN 717-3
Phenol	108-95-2	In polymeric materials including polymeric coating if thicker than 500 μ m: 5 mg/l (migration limit) As a preservative in water-based toy-material: 10 mg/kg (total amount)	•	•	•					•	EN 71-10 and EN 71-11
BIT (1,2-Benzisothiazol-3 (2H) –one)	2634-33-5	≤ 5 mg/kg (total amount) for aqueous material								•	EN 71-10 and EN 71-11
CMI and MI (3:1) (5-Chloro-2-methyl-4- isothiazolin-3-one and 2-methyl-2H-isothiazol- 3-one (3:1))	55965-84-9	≤ 1 mg/kg (total amount) for aqueous material								•	EN 71-10 and EN 71-11
CMI (5-Chloro-2- methylisothiazolin-3 (2H) –one)	26172-55-4	≤ 0.75 mg/kg (total amount) for aqueous material								•	EN 71-10 and EN 71-11
MI (2-methylisothiazolin-3 (2H) –one)	2682-20-4	≤ 0.25 mg/kg (total amount) for aqueous material								•	EN 71-10 and EN 71-11

			Арр	licab	le Ma	terial					
Restricted substance	CAS no	Concentration Limit		Rubber	Coating/ Printing	Metal	Natural fibres	Synthetic fibres	Paper Wood	Aqueous material	Test method/ Standard
Flame retardants		_				_					_
ТСЕР											
(Tris (2-chloroethyl) phosphate)	115-96-8	.5-96-8									
TDCP		Find/lig each for shildren under 26 months and in									
(Tris(1,3-dichloro- isopropyl) phosphate)	13674-87-8	-8 5 mg/kg each for children under 36 months and in other toys intended to be placed in the mouth					•	•			EN ISO 17881-1/2
ТСРР											
(Tris(1-chloro-2- propyl)phosphate)	13674-84-5										
		30 mg/kg after reductive cleavage in textile toy									EN ISO 14362-1 (textile)
Aniline	62-53-3	material and leather toy material					•	•		•	EN ISO 17234-1 (leather)
		30 mg/kg after reductive cleavage in finger paints									
Toluene	ne 108-88-3 170 ppm All Materials types used for Toys and meant to be shipped to Chile.							Headspace GC/MS analytic method			

Version history table

Version	Date	Valid from	Changes made	Page or Chapter
6	1/12/2023	21-Aug-23	Toluene tests added for Chile market	Page 6,10
6	1/12/2023	01-Feb-24	Indian Standard test method added for India market	Page 6
			Formaldehyde test requirement updated for resin-bonded wood	
6	29/1/2023	01-Feb-24	component	Page 9
			Formaldehyde test requirement added for water-based Toy	
6	29/1/2023	01-Feb-24	material	Page 9
6	29/1/2023	01-Feb-24	TCPP test has been added under Flame retardants	Page 10