



# H&M GROUP CHEMICAL RESTRICTIONS 2020

## RESTRICTED SUBSTANCES LIST (RSL)

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### Toys

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



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## General

H&M Group Chemical Restrictions consists of 12 parts:

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

Applicable for Toys: For 2020, H&M Group has aligned relevant chemical restrictions with the industry: The Manufacturing Restricted Substances List (MRSL) with the *Zero Discharge of Hazardous Chemicals Manufacturing Restricted Substance List 2.0* (ZDHC MRSL 2.0) and the Restricted Substances List (RSL) for Textile products, Accessories, Footwear, Bags and Belts with *Apparel and Footwear RSL Management Group's Restricted Substances List* (AFIRM RSL). Both form the basis of *H&M Group Chemical Restrictions for Textile products, Accessories, Footwear, Bags and Belts* and as such, also for *H&M Group Chemical Restrictions for Toys*.

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

Please find out more about H&M Group Chemical Management [here](#).

## 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's test results will prevail.**

## Examples

All details on your product must comply with H&M Group Chemical Restrictions. The following examples do not claim to be complete.

	<ul style="list-style-type: none"> <li>➤ <b>Soft toys</b> Follow H&amp;M Group Chemical Restrictions Textile Products, Accessories, Footwear, Bags and Belts Follow H&amp;M Group Chemical Restrictions Toys</li> <li>➤ <b>Art material (pens, crayons, paint and fancy sticky tape)</b> Follow H&amp;M Group Chemical Restrictions Textile Products, Accessories, Footwear, Bags and Belts Follow H&amp;M Group Chemical Restrictions Chemical Products Follow H&amp;M Group Chemical Restrictions Toys</li> </ul>
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➤ **Costumes**

Follow H&M Group Chemical Restrictions Textile Products, Accessories, Footwear, Bags and Belts Follow H&M Group Chemical Restrictions Toys

➤ **Accessories for dressing up, i.e. wings and headband used for dressing up as a unicorn.**

Follow H&M Group Chemical Restrictions Textile Products, Accessories, Footwear, Bags and Belts  
Follow H&M Group Chemical Restrictions Toys

➤ **Lip balm in a toy-like packaging**

*Toy-like packaging:*

Follow H&M Group Chemical Restrictions Textile Products, Accessories, Footwear, Bags and Belts  
Follow H&M Group Chemical Restrictions Non-Commercial Goods (NCG), Construction and Packaging  
Follow H&M Group Chemical Restrictions Toys

*Content:*

Follow H&M Group Chemical Restrictions Cosmetic products

➤ **Face/Body/Nail stickers**

*Upper material:*

Follow H&M Group Chemical Restrictions Textile Products, Accessories, Footwear, Bags and Belts  
Follow H&M Group Chemical Restrictions Toys

*Glue:*

Follow specific requirements for *Glue applied on Face/Body/Nail/Hair* stickers in H&M Group Chemical Restrictions Textile Products, Accessories, Footwear, Bags and Belts: Cosmetic Accessories.

## 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 <sup>1</sup> .
Homogeneous	Uniform composition throughout, i.e. a material that cannot be mechanically disjointed into different materials.
Self-declaration	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 <sup>2</sup> , appendix H. 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. may also be considered.
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

<sup>1</sup> 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.

<sup>2</sup> [www.afirm-group.com/toolkit/](http://www.afirm-group.com/toolkit/)

## Requirements

General requirements		
H&M Group Chemical Restrictions – Textile Products, Accessories, Footwear, Bags and Belts	All toys must comply with <i>H&amp;M Group Chemical Restrictions Textile Products, Accessories, Footwear, Bags and Belts</i> , 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&amp;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 H&M Group Chemical Restrictions Cosmetic Products.	
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&amp;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  Method: EN 71-10 and EN 71-11	According to Table 1 in EN 71-9 (contact your testing lab for advice).  Check clauses 4.2 (Liquids) and 4.3 (Formaldehyde) in EN 71-9, as applicable
ASTM F963	All toys must comply with and be <b>tested</b> 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 specific 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 <b>tested</b> according to the latest valid edition of AS/NZS ISO 8124-3.
China	<b>GB 31701-2015</b> <i>Safety Technical Code for Infants and Textile Products (phthalates and total lead and cadmium)</i> <b>and</b> <b>GB 6675.4-2014</b> <i>Migration of certain elements</i>	Disguise costumes including accessories to costumes shall comply with GB 31701-2015 and GB 6675.4-2014.  Soft toys shall comply with GB 6675.4-2014.  Please see separate <i>Test Routine for Soft Toys and Disguise Costumes for China</i> .
Japan	Japanese Food Sanitation Law (JFSL)	All toys for the Japanese market must comply with and be <b>tested</b> according to Japanese Food Sanitation Law (JFSL) Section IV “Toys”. Tests should be performed at an official MHLW registered laboratory <sup>3</sup> who will issue certificate of analysis showing compliance.
Turkey	Phthalates and azo	All toys for the Turkish market must be <b>tested</b> 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 – Toys Shipping Instructions</i> . For limits and test methods see <i>H&amp;M Group Chemical Restrictions Textile Products, Accessories, Footwear, Bags and Belts</i> .
USA	CPSIA	All toys for the US market must be <b>tested</b> 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.
Requirements based on classification		
<b>CMR - Carcinogenic, Mutagenic or toxic for Reproduction</b>		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		
<b>Polycarbonate (PC) Plastic</b>		Usage ban

<sup>3</sup> 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>



## Restricted substances

Restricted substance	CAS no	Concentration Limit			Applicable Materials								Test method/ Standard
					Plastic	Rubber	Coating/ Printing	Metal	Natural fibres	Synthetic fibres	Paper Wood	Aqueous material	
Polyaromatic hydrocarbons (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 toluene followed by GC-MS analysis (reporting limit 0.2 ppm)
Benzo[a]anthracene	56-55-3	< 0.2 ppm	< 0.2 ppm	< 0.5 ppm									
Benzo[a]pyrene	50-32-8	< 0.2 ppm	< 0.2 ppm	< 0.5 ppm									
Benzo[b]fluoranthene	205-99-2	< 0.2 ppm	< 0.2 ppm	< 0.5 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									
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									
Acenaphthene	83-32-9	Sum < 1 ppm	Sum < 5 ppm	Sum < 20 ppm									
Acenaphthylene	208-96-8												
Anthracene	120-12-7												
Fluoranthene	206-44-0												
Fluorene	86-73-7												
Phenanthrene	85-01-8												
Pyrene	129-00-0												
Naphthalene	91-20-3	< 1 ppm	< 2 ppm	< 10 ppm									
Sum of 18 PAH		< 1 ppm	< 5 ppm	< 20 ppm									

Restricted substance	CAS no	Concentration Limit	Applicable Materials								Test method/ Standard
			Plastic	Rubber	Coating/ Printing	Metal	Natural fibres	Synthetic fibres	Paper Wood	Aqueous material	
Bisphenol A	80-05-7	0.04 mg/l (migration limit)	•		•			•			EN 71-10 and EN 71-11
Styrene	100-42-5	0.75 mg/l (migration limit)	•	•	•						EN 71-10 and EN 71-11
Formamide	75-12-7	<i>Foam material:</i> 200 mg/kg (total amount)	•	•							Acetone extraction using ultrasound followed by GC/MS analysis.
Formaldehyde	50-00-0	<p><i>Textile components</i> of toys intended for children ≤ 3 years of age. Each part of the product (e.g. main fabric, print, fusing and binding) must comply with the restriction limit: (A-A0) &lt; 0.05 (16 mg/kg). If an order includes products intended for children under 3 years of age, the whole order must fulfil this requirement. Textile components of toys intended for children &gt; 3 years of age must comply with the restriction limit: 75 mg/kg</p> <p><i>Paper components</i> of toys intended for Children ≤ 3 years of age must comply with the restriction limit: 30 mg/kg. Children &gt; 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.</p> <p><i>Resin-bonded wood components</i> of toys shall not release formaldehyde in excess of 75 mg/kg.</p>	•	•	•		•	•	•		<p><i>Textile:</i> JIS L 1041-2011, Method A (Reporting limit: (A-A0) &lt; 0.02 (=5 mg/kg)) or ISO 14184-1 (Reporting limit 16 mg/kg).</p> <p><i>Plastic, Rubber, Coating and Printing:</i> EN 71-10 and EN 71-11</p> <p><i>Paper:</i> EN 645 and EN 1541 (Reporting limit 5 mg/kg)</p> <p><i>Wood:</i> EN 717-3 (Reporting limit 20 mg/kg)</p>
Phenol	108-95-2	<p><i>In polymeric materials including polymeric coating if thicker than 500 µm:</i> 5 mg/l (migration limit)</p> <p><i>As a preservative in water-based toy-material:</i> 10 mg/kg (total amount)</p>	•	•	•					•	EN 71-10 and EN 71-11

Restricted substance	CAS no	Concentration Limit	Applicable Materials								Test method/ Standard
			Plastic	Rubber	Coating/ Printing	Metal	Natural fibres	Synthetic fibres	Paper Wood	Aqueous material	
<b>BIT</b> (1,2-Benzisothiazol-3 (2H) –one)	2634-33-5	≤ 5 mg/kg (total amount) for aqueous material								•	EN 71-10 and EN 71-11
<b>CMI and MI (3:1)</b> (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
<b>CMI</b> (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
<b>MI</b> (2-methylisothiazolin-3 (2H) –one)	2682-20-4	≤ 0.25 mg/kg (total amount) for aqueous material								•	EN 71-10 and EN 71-11

Version history information is available in the separate file History and Sources Toys