



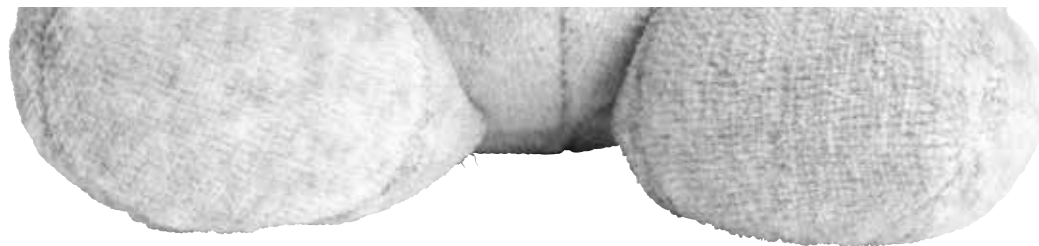
# H&M GROUP CHEMICAL RESTRICTIONS 2018

## RESTRICTED SUBSTANCES LIST (RSL)

---

### Toys

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



## Table of Contents

General.....	3
Commitment.....	3
Examples .....	4
Definitions.....	6
Abbreviations.....	6
Requirements.....	7
H&M Requirements .....	7
Toy Standards – Applicable for all markets .....	7
Country specific standards/test requirements .....	8
Requirements based on classification .....	8
Material requirements.....	9
Restrictions Substances .....	10

## General

H&M has with concern for the health of customers as well as for the environment and working conditions, established H&M Chemical Restrictions for all products. H&M Chemical Restrictions consist of several parts with regard to product types. This document concerns all toys. Each limit in H&M Chemical Restrictions is valid for homogeneous parts of the concerned product. Test methods and standards are specified but in case of undated test method or standard, the latest version is valid.

If the product is sold in a packaging, it must comply with *H&M Chemical Restrictions Packages*<sup>1</sup>. All toys should also follow restrictions for respective material in *H&M Chemical Restrictions Apparel / Accessories / Footwear / Home Interior Textile Products*<sup>1</sup>. Toys which also are chemical products as pens, crayons and paint have to meet additional requirements in *H&M Chemical Restrictions Chemical products*<sup>1</sup>.

In addition to the H&M Chemical Restrictions, production of Toys must also fulfill H&M Chemical Restrictions regarding the Manufacturing Restricted Substance List (MRSL). These documents are to be found on the Supplier Portal as well as on [www.hm.com/chemical-restrictions](http://www.hm.com/chemical-restrictions). The official and valid version of this document is in English. Any translation of the document is prepared for reference only. H&M accepts no liability for any mistakes done in the translation.

## Commitment

By accepting H&M Standard Purchase Conditions, the Supplier commits to comply with H&M Chemical Restrictions. It is the Supplier's responsibility to assure compliance with H&M Chemical Restrictions and to inform all their downstream suppliers and subcontractors about the content of H&M Chemical Restrictions.

By accepting H&M Standard Purchase Conditions, each Supplier acknowledges that H&M 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 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 Chemical Restrictions.*

---


<sup>1</sup> Publicly available

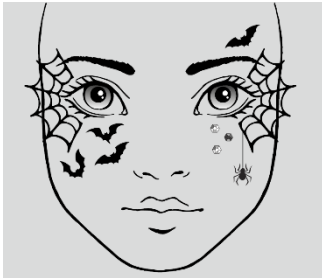
- *Receive the Safety Data Sheets (SDS) for all substances and preparations (dyes, colorants, solvents, chemicals etc.) used in the production of a specific Order.*

In the case of contradictory test results, H&M test results will prevail.

## Examples

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

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



- **Accessories for dressing up, i.e. wings and headband used for dressing up as a unicorn.**  
Follow H&M Chemical Restrictions Toys  
Follow H&M Chemical Restrictions Apparel / Accessories / Footwear / Home Interior Textile Products

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

*Packaging:*

Follow H&M Chemical Restrictions Toys

Follow H&M Chemical Restrictions Apparel / Accessories / Footwear / Home Interior Textile Products

Follow H&M Chemical Restriction Packaging

*Content:*

Follow H&M Chemical Restrictions Cosmetics

- **Face/Body/Nail stickers**

*Upper material:*

Follow H&M Chemical Restrictions Toys

Follow H&M Chemical Restrictions Apparel / Accessories / Footwear / Home Interior Textile Products

*Glue:*

Follow specific requirements for *Glue applied on Face/Body/Nail/Hair* stickers in H&M Chemical Restrictions Apparel / Accessories / Footwear / Home Interior Textile Products

- **Others**

## 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>2</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 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 SD.
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>2</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.

## Requirements

<b>H&amp;M Requirements</b>		
<b>H&amp;M Chemical Restrictions Apparel / Accessories / Footwear / Home Interior Textile Products</b>	All toys must comply with and be tested for risky chemicals in H&M Chemical Restrictions Apparel / Accessories / Footwear / Home Interior Textile Products	
<b>H&amp;M Chemical Restrictions Chemical products</b>	Toys which also are chemical products as pens, crayons and paint have to comply with requirements in H&M Chemical Restrictions Chemical products.	
<b>H&amp;M Chemical Restrictions Packaging</b>	If a food contact product is sold in a packaging, it must also comply with H&M Chemical Restrictions Packaging.	
<b>Toy Standards – Applicable for all markets</b>		
<b>European Standards for Safety of Toys EN 71</b>	<b>All Toys must comply with and be tested according to the latest valid edition of stated EN 71 Toy standards.</b>	<b>Applicable material and type of toy to be tested</b>
	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	Check Table 1 in EN 71-9 to find out what toys and toy components testing is applicable for or contact your testing lab for advice.  Check clauses 4.2 (Liquids) and 4.3 (Formaldehyde) in EN 71-9, as applicable
<b>ASTM F963</b>	All Toys must comply with and be <b>tested</b> for valid edition of US Standard ASTM F963.	

<b>NB-TOYS/2012/26, EC type approval protocol No. 2 Microbiological safety of toys containing aqueous media</b>		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
<b>Country specific standards/test requirements</b>		
<b>Market</b>	<b>Standard/Test/Law</b>	<b>Requirement</b>
<b>USA</b>	<b>CPSIA</b>	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.
<b>Australia</b>	<b>AS/NZS ISO 8124-3</b>	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.
<b>Japan</b>	<b>Japanese Food Sanitation Law (JFSL)</b>	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.
<b>Turkey</b>	<b>Phthalates and AZO</b>	All toys for the Turkish market must be <b>tested</b> for Phthalates and AZO dyes. Plastic should be tested for phthalates and textile material should be tested for AZO dyes. More information is to be found in <i>TR – Toys Shipping Instructions</i> . For limit's and test methods see <i>H&amp;M Chemical Restriction Apparel/Accessories/Footwear/Home Interior Textile Products</i> .
<b>Requirements based on classification</b>		
<b>SVHC</b> Check the ECHA website for the updated Candidate List of Substances of Very High Concern for Authorisation <sup>4</sup>	1000 ppm in each homogenous part of the product, except if lower limit as per other part of this document.	

<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>

<sup>4</sup> [http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)



<b>Substances defined as hazardous due to intrinsic properties</b> Criteria for hazardous as defined in REACH Article 57 <sup>5</sup>	1000 ppm, except if lower limit applies as per other parts of this document
<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.
<b>Material requirements</b>	
<b>Polycarbonate (PC) Plastic</b>	Usage ban

---

<sup>5</sup> REACH Regulation (EC) No 1907/2006 <http://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:02006R1907-20150601&from=EN>

## Restrictions Substances

Restricted substance	CAS no	Concentration Limit			Applicable Materials							Test method/Standard	
					Plastic	Rubber	Coating/ Printing	Metal	Natural Fibers	Synthetic fibers	Paper and Wood		Aqueous material
<b>Polyaromatic hydrocarbons (PAH)</b>													
		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									

Restricted substance	CAS no	Concentration Limit			Applicable Materials							Test method/Standard	
					Plastic	Rubber	Coating/ Printing	Metal	Natural Fibers	Synthetic fibers	Paper and Wood		Aqueous material
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									
<b>Bisphenol A</b>	80-05-7	0.04 mg/l (migration limit)			•		•			•			EN 71-10 and EN 71-11
<b>Styrene</b>	100-42-5	0.75 mg/l (migration limit)			•	•	•						EN 71-10 and EN 71-11
<b>Formamide</b>	75-12-7	<i>Foam material:</i> 200 mg/kg (total amount)			•	•							Acetone extraction using ultrasound followed by GC/MS analysis.

Restricted substance	CAS no	Concentration Limit	Applicable Materials								Test method/Standard
			Plastic	Rubber	Coating/ Printing	Metal	Natural Fibers	Synthetic fibers	Paper and Wood	Aqueous material	
<b>Formaldehyde</b>	50-00-00	<i>Plastic, Rubber, Coating and Printing:</i> 2.5 mg/l (migration limit)  <i>Textile, Paper and Wood:</i> Limits according to clause 4.2 in EN 71-9		•	•	•		•	•	•	<i>Plastic, Rubber, Coating and Printing:</i> EN 71-10 and EN 71-11  <i>Textile, Paper and Wood:</i> Test methods referred to in clause 4.2 in EN 71-9
<b>Phenol</b>	108-95-2	<i>In polymeric materials including polymeric coating if thicker than 500 µm:</i> 5 mg/l (migration limit) <i>As a preservative in water based toy-material:</i> 10 mg/kg (total amount)	•	•	•					•	EN 71-10 and EN 71-11
<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

Restricted substance	CAS no	Concentration Limit	Applicable Materials								Test method/Standard	
			Plastic	Rubber	Coating/ Printing	Metal	Natural Fibers	Synthetic fibers	Paper and Wood	Aqueous material		
<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
<b>Nickel</b>	7440-02-0	1000 mg/kg (total amount) <sup>6</sup>				•						Self-declaration

<sup>6</sup> Nickel is permitted in higher concentration in stainless steel and in components which are intended to conduct an electric current. For products in contact with skin migration limit of Nickel in H&M Chemical Restrictions Apparel/Accessories/Footwear/Home Interior Textile Products applies.