

## GUIDANCE ON THE RESTRICTION ON CMRs 1A and 1B IN TEXTILES AND CLOTHING

The restriction intends to cover

- Clothing and related accessories, such as:
  - tops, shirts, blouses,
  - underwear,
  - nightwear,
  - hosiery (e.g. socks, pantyhose, stockings, leggings),
  - trousers, pants,
  - jackets, coats, rain coats, capes,
  - dresses, skirts,
  - suits,
  - sportswear,
  - swimwear (e.g. swimsuits, bikinis, swimming trunks),
  - gloves (including latex gloves not covered by Regulation (EU) 2016/425 of the European Parliament and of the Council on personal protective equipment or Regulation (EU) 2017/745 of the European Parliament and of the Council on medical devices ), mittens, muffs,
  - scarves, shawls, stoles,
  - ties, cravats,
  - hats, caps, bonnets, veils,
  - bags, like handbags, backpacks, briefcases,
  - wristwatch straps
  - fancy dress and disguise costumes<sup>1</sup>
- textiles other than clothing which come into contact with the human skin under normal or reasonably foreseeable condition of use to an extent similar to clothing, such as
  - bed linen (e.g. sheets, duvet covers, pillow cases),
  - blankets, throws,
  - upholstery (fabric covering chairs, armchairs and sofas etc.)
  - cushion covers
  - bathrobes, towels
  - re-usable nappies and sanitary towels
  - sleeping bags
  - yarn and fabrics intended for use by the final consumer
- footwear

Examples of situations where these products are placed on the market for consumer use include their supply or making the products available within the context of a service (e.g. upholstery in the seats of a restaurant, in a public library, public transport, or bedlinen in a hospital).

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<sup>1</sup> If the Toy Safety Directive 2009/48/EC establishes lower limits for the substances covered in this restriction, those limits would apply.

The following are not intended to be covered by the restriction

- jewellery
- glasses and sunglasses
- curtains
- carpets, mats and rugs
- textile lampshades and wall decorations
- napkins and table linen
- filling materials in chairs, armchairs and sofas
- clothing, related accessories or footwear, or parts thereof, made exclusively of natural leather, fur or hide
- non-textile fasteners or decorative attachments (other than prints) , such as buttons, zips, Velcro, rivets, press studs, clasps or buckles, fasteners, eye(let)s, snap fasteners, toggles, hooks, rings, sequins, beads, pearls, stones, glitter or metallic mesh.
- second hand articles
- disposable nappies and sanitary towels
- articles within the scope of Regulation (EU) 2016/425 of the European Parliament and of the Council on personal protective equipment
- articles within the scope of Regulation (EU) 2017/745 of the European Parliament and of the Council on medical devices

Where different concentration limits are set in other entries in Annex XVII to REACH or in other EU legislation the stricter limits always apply. This refers, amongst other, to the limits set in entry 50 on Polycyclic-aromatic hydrocarbons (PAH) and in the Toy Safety Directive 2009/48/EC.

The following analytical methods are recommended:

CAS No.	EC No.	Substances	Concentration limit by weight	
50-00-0	200-001-8	Formaldehyde	75 mg/kg	<b>EN ISO 14184-1:2011</b> Textiles - Determination of formaldehyde Part 1: Free and hydrolysed formaldehyde (water extraction method)  Possible alternative: <b>ISO 17226-1:2008</b>
-	-	Cadmium and its compounds (listed in Annex XVII, Entry 28, 29, 30, Appendices 1-6)	1 mg/kg (expressed as Cd metal that can be extracted from the material)	<b>EN 16711-2:2015</b> Textiles Determination of metal content - Part 2: Determination of metals extracted by acidic artificial perspiration solution
-	-	Chromium VI compounds (listed in Annex XVII, Entry 28, 29, 30, Appendices 1-6)	1 mg/kg (expressed as Cr VI that can be extracted from the material)	<b>EN ISO 17075-1:2017</b> Leather -- Chemical determination of chromium(VI) content in leather - Part 1: Colorimetric method <b>EN ISO 17075-2 :2017</b>

				Leather -- Chemical determination of chromium(VI) content in leather - Part 2: Chromatographic method (in case of interferences as confirmation method)
-	-	Arsenic compounds (listed in Annex XVII, Entry 28, 29, 30, Appendices 1-6)	1 mg/kg (expressed as As metal that can be extracted from the material)	<b>EN 16711-2:2015</b> Textiles Determination of metal content - Part 2: Determination of metals extracted by acidic artificial perspiration solution
-	-	Lead and its compounds (listed in Annex XVII, Entry 28, 29, 30, Appendices 1-6)	1 mg/kg (expressed as Pb metal that can be extracted from the material)	<b>EN 16711-2:2015</b> Textiles Determination of metal content. Part 2: Determination of metals extracted by acidic artificial perspiration solution
5216-25-1	226-009-1	$\alpha$ , $\alpha$ , $\alpha$ , 4-tetrachlorotoluene; p-chlorobenzotrifluoride	1 mg/kg	<b>DIN 54232:2010</b> Textiles - Determination of the content of bonds based on chlorobenzene and chlorotoluene
98-07-7	202-634-5	$\alpha$ , $\alpha$ , $\alpha$ -trichlorotoluene; benzotrifluoride	1 mg/kg	<b>DIN 54232:2010</b> Textiles - Determination of the content of bonds based on chlorobenzene and chlorotoluene
100-44-7	202-853-6	$\alpha$ -chlorotoluene; benzyl chloride	1 mg/kg	<b>DIN 54232:2010</b> Textiles - Determination of the content of bonds based on chlorobenzene and chlorotoluene
71888-89-6	276-158-1	1,2-benzenedicarboxylic acid; di-C 6-8-branched alkylesters, C 7-rich	1000 mg/kg (individually or in combination with other phthalates in this entry)	<b>EN ISO 14389:2014</b> Textiles -Determination of the phthalate content - Tetrahydrofuran method
117-82-8	204-212-6	Bis(2-methoxyethyl) phthalate	1000 mg/kg (individually or in combination with other phthalates in this entry)	<b>EN ISO 14389:2014</b> Textiles -Determination of the phthalate content - Tetrahydrofuran method
605-50-5	210-088-4	Diisopentylphthalate	1000 mg/kg (individually or in combination with other phthalates in this entry)	<b>EN ISO 14389:2014</b> Textiles -Determination of the phthalate content - Tetrahydrofuran method
131-18-0	205-017-9	Di-n-pentyl phthalate (DPP)	1000 mg/kg (individually or in combination with other phthalates in this entry)	<b>EN ISO 14389:2014</b> Textiles -Determination of the phthalate content - Tetrahydrofuran method
84-75-3	201-559-5	Di-n-hexyl phthalate (DnHP)	1000 mg/kg (individually or in combination with other phthalates in this entry)	<b>EN ISO 14389:2014</b> Textiles -Determination of the phthalate content - Tetrahydrofuran method
872-50-40	212-828-1	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone (NMP)	3000 mg/kg	<b>CEN ISO/TS 16189:2013</b> Footwear - Critical substances potentially present in footwear and

				footwear components - Test method to quantitatively determine dimethylformamide in footwear materials
127-19-5	204-826-4	<i>N,N</i> -dimethylacetamide (DMAC)	3000 mg/kg	<b>CEN ISO/TS 16189:2013</b> Footwear - Critical substances potentially present in footwear and footwear components - Test method to quantitatively determine dimethylformamide in footwear materials
68-12-2	200-679-5	<i>N,N</i> -dimethylformamide; dimethyl formamide (DMF)	3000 mg/kg	<b>CEN ISO/TS 16189:2013</b> Footwear - Critical substances potentially present in footwear and footwear components - Test method to quantitatively determine dimethylformamide in footwear materials
71-43-2	200-753-7	Benzene	5 mg/kg	e.g. <b>VDA 278</b> - Thermal Desorption Analysis of Organic Emissions for the Characterization of Non-Metallic Materials for Automobiles
56-55-3	200-280-6	Benz[ <i>a</i> ]anthracene	1 mg/kg	<b>AFPS GS 2014</b> Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of GS mark certification
205-99-2	205-911-9	Benz[ <i>e</i> ]acephenanthrylene	1 mg/kg	<b>AFPS GS 2014</b> Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of GS mark certification
50-32-8	200-028-5	benzo[ <i>a</i> ]pyrene; benzo[ <i>def</i> ]chrysene	1 mg/kg	<b>AFPS GS 2014</b> Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of GS mark certification
192-97-2	205-892-7	Benzo[ <i>e</i> ]pyrene	1 mg/kg	<b>AFPS GS 2014</b> Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of GS mark certification
205-82-3	205-910-3	Benzo[ <i>j</i> ]fluoranthene	1 mg/kg	<b>AFPS GS 2014</b> Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of GS mark certification
207-08-9	205-916-6	Benzo[ <i>k</i> ]fluoranthene	1 mg/kg	<b>AFPS GS 2014</b>

				Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of GS mark certification
218-01-9	205-923-4	Chrysene	1 mg/kg	<b>AFPS GS 2014</b> Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of GS mark certification
53-70-3	200-181-8	Dibenz[ <i>a,h</i> ]anthracene	1 mg/kg	<b>AFPS GS 2014</b> Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of GS mark certification
548-62-9	208-953-6	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride; C.I. Basic Violet 3 with $\geq 0,1$ % of Michler's ketone (EC no. 202-027-5)	50 mg/kg	<b>EN ISO 16373-2:2014</b> Textiles - Dye-stuffs - Part 2: General method for the determination of extractable dye-stuffs including allergenic and carcinogenic dye-stuffs (method using pyridine-water) <b>DIN 54231:2005</b> Textiles - Detection Of Disperse Dye-stuffs
2475-45-8	219-603-7	1,4,5,8-tetraaminoanthraquinone; C.I. Disperse Blue 1	50 mg/kg	<b>DIN 54231:2005</b> Textiles - Detection Of Disperse Dye-stuffs
569-61-9	209-321-2	Benzenamine, 4,4'-(4-iminocyclohexa-2,5-dienylidene)methylene)dianiline hydrochloride; C.I. Basic Red 9	50 mg/kg	<b>EN ISO 16373-2:2014</b> Textiles - Dye-stuffs - Part 2: General method for the determination of extractable dye-stuffs including allergenic and carcinogenic dye-stuffs (method using pyridine-water) <b>DIN 54231:2005</b> Textiles - Detection Of Disperse Dye-stuffs
3165-93-3	221-627-8	4-chloro- <i>o</i> -toluidinium chloride	30 mg/kg	<b>EN ISO 14362:2017</b> Textiles -- Methods for determination of certain aromatic amines derived from azo colorants -- Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres
553-00-4	209-030-0	2-Naphthylammonium acetate	30 mg/kg	<b>EN ISO 14362:2017</b> Textiles -- Methods for determination of certain aromatic amines derived from azo colorants -- Part 1: Detection of the use of certain azo colorants accessible with and without

				extracting the fibres
39156-41-7	254-323-9	4-methoxy- <i>m</i> -phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	30 mg/kg	<b>EN ISO 14362:2017</b> Textiles -- Methods for determination of certain aromatic amines derived from azo colorants -- Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres
21436-97-5	-	2,4,5-trimethylaniline hydrochloride	30 mg/kg	<b>EN ISO 14362:2017</b> Textiles -- Methods for determination of certain aromatic amines derived from azo colorants -- Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres
91-22-5	202-051-6	Quinoline	50 mg/kg	Extraction with methanol or THF, analysis by HPLC-MS/MS or HPLC-DAD