



Product Restricted Substances List (PRSL)

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Introduction

Benetton Operations is a globally responsible company committed to maintaining proper and sustainable business practices. It is committed to continually search for processes and products that meet the highest security standards to minimize the impact, both on humans and environment, of all its productive activities.

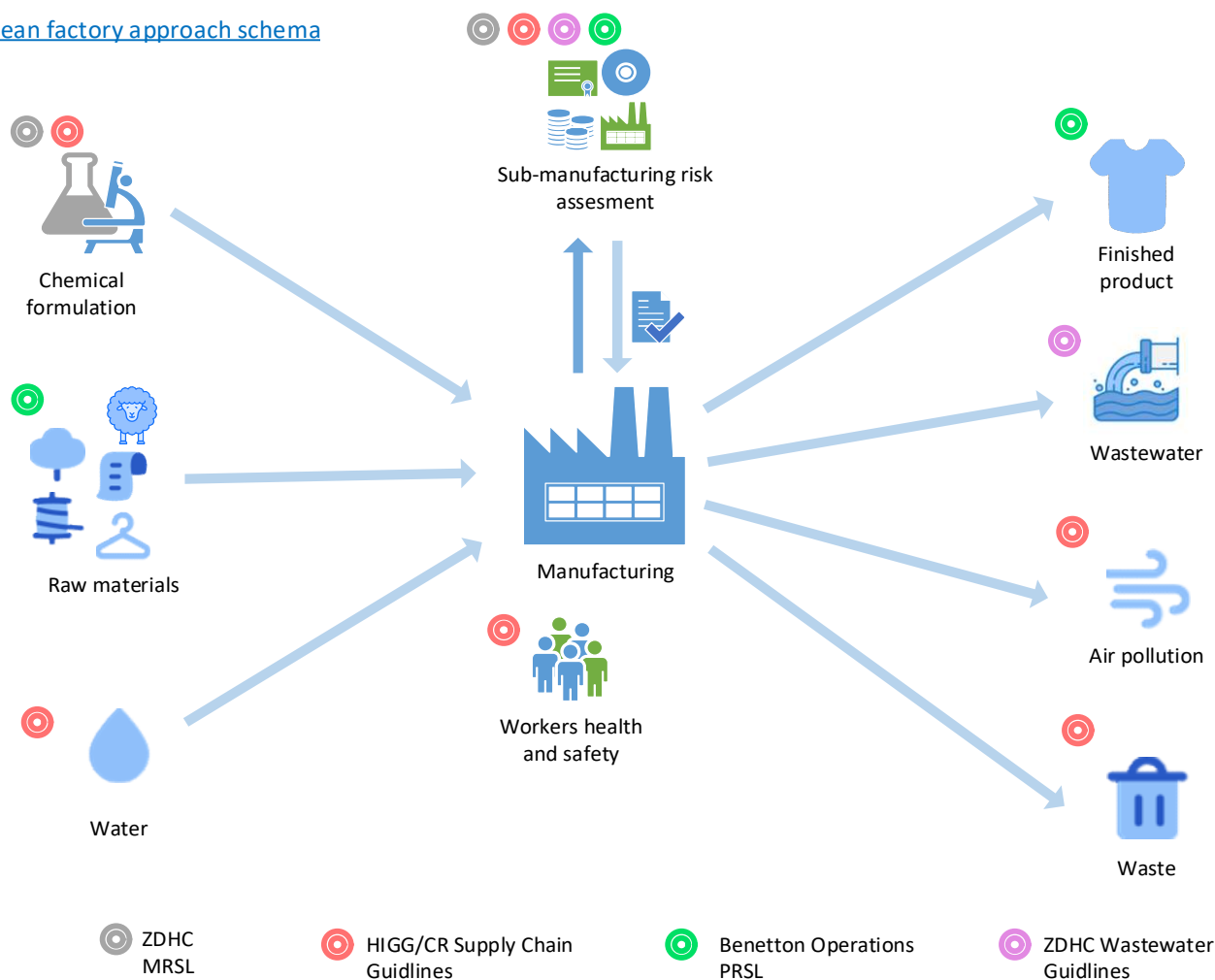
The knowledge of the entire supply chain is an important component to achieve high quality production processes and efficient prevention of possible non-compliance. According to this, Benetton Operations requires all its business partners, including suppliers and sub-suppliers, to sign and implement the *Benetton Group Code of Conduct*, which includes sections referring to:

- Internationally recognized work standards and safe workplaces
- Environmental protection
- Transparency
- Supply chain and compliance.

The present document translates some of the Benetton Operations Code of Conduct's principles and it is signed by all suppliers that must disclose the information on internal and external processing plants and on all sources of materials and components used to produce Benetton Operations garments.

Suppliers are also required to adopt a Clean Factory Approach: all plants and productions, not only those intended for Benetton Operations, should work and be carried out in accordance with the requirements and the safeguard "best practices". Therefore, suppliers must disclose these practices to all their supply chains.

Clean factory approach schema



Change log for actual version

- **Test package CH-TP12 (page 12/Tab.1):** specified in description that the test package is referred also to multi-component trims.

Benetton Operations PRSL (Product Restricted Substances List)

In response to the increasing consumer and stakeholders demand, Benetton Operations decided to publish a list of restricted and/or prohibited substances in the production of its products; this list, named Product Restricted Substances List (PRSL), consists of two parts, one related to processes and one related to products.

Production process

As member of ZDHC, regarding production processes and the acceptable concentration for the chemicals present in the formulations they used, Benetton Operations decided to adopt the limits defined in the ZDHC MRSL.

The ZDHC MRSL applies to chemicals used in facilities that process materials and trim parts for use in the industry. Chemicals in the ZDHC MRSL include solvents, cleaners, adhesives, paints, inks, detergents, dyestuffs, auxiliaries, coatings and finishing agents used during raw material production, wet-processing, maintenance, wastewater treatment, sanitation and pest control. ZDHC MRSL limits apply to substances in commercially available chemical formulations and not those from earlier stages of chemical synthesis.

Product

The Product Restricted Substances List (PRSL) refers to products, whether they are raw material rather than semi-finished or finished products, and it defines substances and limits to ensure their compliance with the company's requirements.

The Benetton Operations PRSL is regularly updated with information about dangerous substances, by using a precautionary principle and including any substance that is considered dangerous by the most authoritative sources of chemical risk assessment. The inclusion process of a substance in the Benetton Operations PRSL is described in the document titled *Benetton Screening Methodology*.

Benetton Operations performs a considerable number of chemical tests to eliminate or minimize any possible risk and to ensure that parameters are met in this way, only safe products will be placed on the market. The product safety tests, performed only by accredited laboratories and in accordance with the PRSL, are based on technical knowledge, processes and highly problematic substances, risk assessment, materials and quantities used and reliability of suppliers and sub-suppliers.

Screening Methodology

The Benetton Operations PRSL is constituted of a list of various substances groups, with their respective bans/restrictions, and it must be complied by all facilities at any step of the Benetton Operations supply chain.

The PRSL is compiled based on a 3 main steps process:

- Chemical Database definition
- Chemical Inventory definition
- PRSL definition

Chemical Database – Together with the recognized chemical substances, it includes a wide range of publicly available technical information such as national countries regulations and supranational entities, as for example the European Chemical Agency (ECHA)¹, and other official listings of industrial chemicals (e.g., Chem Portal², KEMI Prio³ and others). In particular, the general chemical substance regulations that are continuously consulted are:

- **REACH (Registration, Evaluation, Authorization and Restriction of Chemicals):** it establishes a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and

Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Text with EEA relevance). The regulation details the evaluation process, the authorization, and the restriction process of substances.

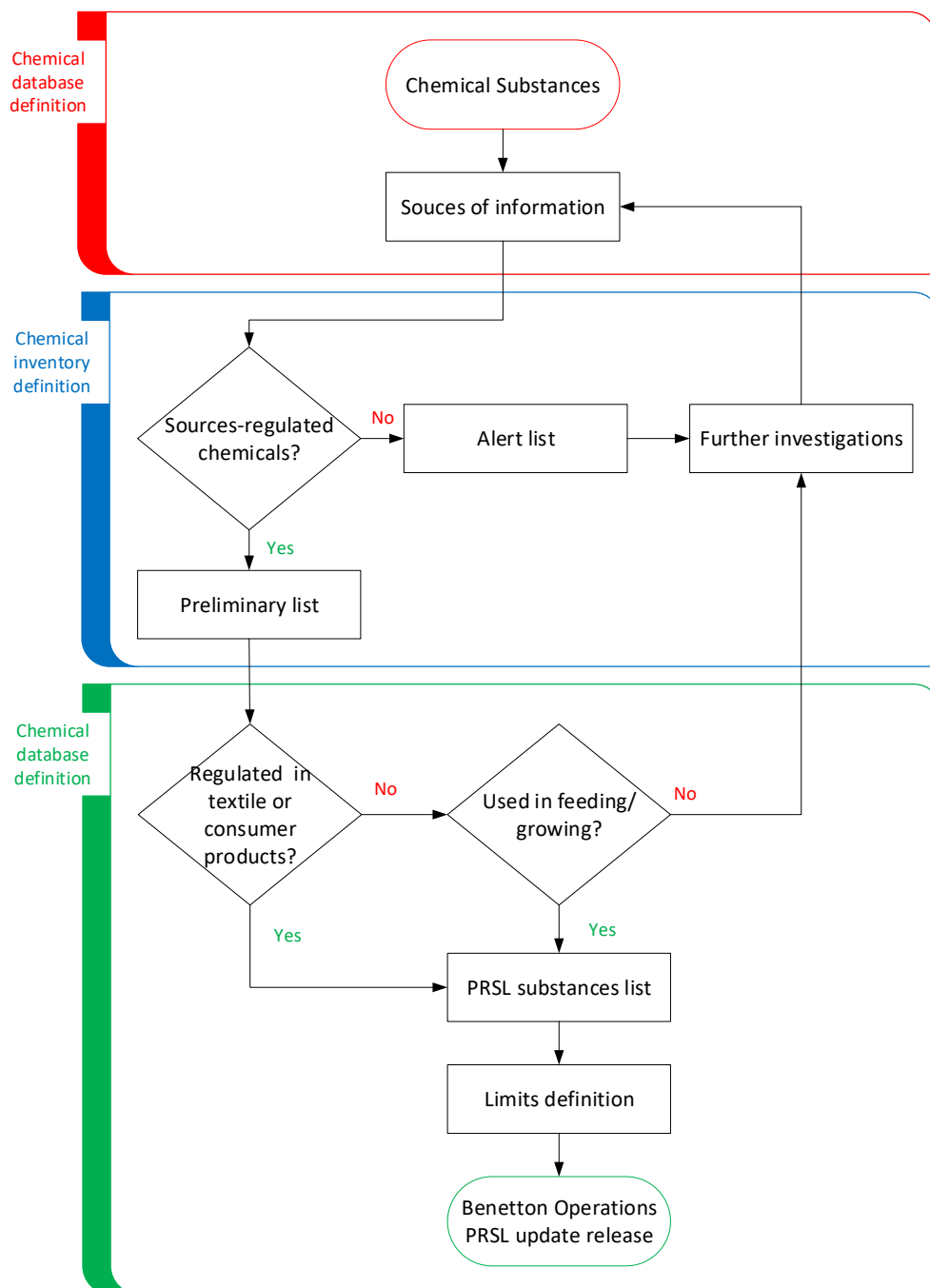
- **AFIRM Apparel and Footwear International RSL Management (AFIRM) Group** : is an apparel and footwear industry body focused on chemistry.
- **CLP (Classification, Labelling and Packaging of substances and mixture Regulation)**: it harmonizes the criteria for classification of substances and mixtures, and the rules on labelling and packaging for hazardous substances and mixtures to align the European Union system of classification, labelling and packaging of chemical substances and mixtures to the Globally Harmonized System (GHS), that is the set of the classification criteria and labelling rules agreed at the EN level. It also aims at establishing classification and labelling inventory of substances.
- **POP (Persistent Organic Pollutants)**: it creates a legal framework to protect human health and the environment by prohibiting, phasing out as soon as possible or restricting production, placing on the market and use of POPs (Persistent Organic Pollutants). It also lays down rules for dealing with stockpiles and waste containing POPs.
- **EU Biocides Regulation**: it concerns the placing on the market and use of biocidal products, which are used to protect humans, animals, materials or articles against harmful organisms, like pests or bacteria, by the action of the active substances contained in the biocidal product.
- **OEKO-TEX Standard 100 Class I certification**: it is an independent testing and certification system for textile products from all stages of production along the whole value chain.
- **EU Ecolabel Directive for textiles**: it promotes the production and consumption of products with a reduced environmental impact along the life cycle and is awarded only to the best (environmental) performing products in the market.
- **CEN GUIDE 16 Guide for addressing chemicals in standards for consumer-relevant products**: this guide is intended for use by anyone involved in drafting standards for consumer-relevant products other than chemical mixtures (i.e. the guide covers “articles” as defined in REACH) with the aim of minimizing exposure to chemicals which may constitute a health risk while also bearing in mind environmental burdens.
- **UNI Safety management of textiles, clothing, furniture, footwear, leather and accessories**: it describes in detail hazardous chemicals potentially present in textiles and their respective risks, by indicating the acceptability limits based on the use categories (children, contact with skin, no contact with skin).
- **Textiles and textile products - Guidance on health and environmental issues related to chemical content of textile products intended for clothing, interior textiles, and upholstery**: it specifies environmental and health recommendations for textile products (including accessories) with direct skin contact and in the surroundings of the human body. It is a technical report that facilitates the understanding of chemicals with intended uses in the manufacturing of goods in the fields of textile products intended to be clothing, interior textiles, and upholstery, to comply with the European chemical regulations and recommendations in force in EU.

- **Footwear - Critical Substances Potentially Present In Footwear And Footwear Components:** it establishes a list of critical chemical substances potentially present in footwear and footwear components, their potential risks, the materials in which they could be found, and which test method(s) can be used to quantify them.
- **Food Contact Materials (FCM) Regulation:** it lays down a general safety requirement aimed at ensuring that the substances migrating from the material into the food do not endanger human health or change the food itself.
- **Greenpeace's Eleven Hazardous Chemicals (11 Detox Chemical Groups):** they represent the priority list of hazardous chemicals that brands in the textile industry shall eliminate in the supply chain.
- **GOTS, Global Organic Textile Standard:** it is the world's leading processing standard for textiles made from organic fibers. It defines high-level environmental criteria along the entire organic textiles supply chain, and it also requires compliance with social criteria.
- **ZDHC Manufacturing Restricted Substances List:** it is a list of chemical substances banned from intentional use in facilities that process textile materials and trim parts in apparel and footwear. It also establishes acceptable concentration limits for substances in chemical formulations used within manufacturing facilities.
- **ZDHC Wastewater Guideline:** it is a harmonized set of wastewater parameters (i.e., conventional parameters and original priority chemical groups included in the ZDHC MRSL), limit values and test methods, to ensure brands and suppliers are working to the same set of expectations.

Chemical Inventory: it is the result of the previous step, and it is constituted by two list, namely the Preliminary List and the Alert List. In particular, the Chemical Inventory is defined by evaluating all substances based on their hazardous level, according to the classifications reported by

- REACH → <https://echa.europa.eu/it/regulations/reach/understanding-reach>
 - CLP → <https://echa.europa.eu/it/regulations/clp/understanding-clp>
 - GreenScreen® List Translator™ → <https://www.greenscreenchemicals.org/assess/list-translator>
1. **Preliminary List:** it contains all substances, including the hazardous or potentially hazardous ones, resulting from the revision of the regulations grouped in the Chemical Database; they are all substances that are classified in any of the hazardous categories listed in the regulations and they constitute the candidates' substances to be included in the Benetton's PRSL.
 2. **Alert List:** it includes all the substances that are not yet regulated and that, therefore, need further investigations.

The whole process for the PRSL definition is described by the flow chart reported here below:



PRSL Definition

This, in turn, is based on three steps:

1. PRSL Substances List: in this step all substances in the Preliminary List are evaluated depending on their use and/or regulation in the textile industry. If they are neither used nor regulated in textile industry, their use in growing and/or feeding is evaluated since they could have affected both animal and vegetal fibers. All other substances that do not belong to these “categories” are momentarily not considered and left for future investigations.
2. Limits definition: in this step limits are defined.

Detection Limits: information given by laboratories concerning instruments’ detection limits to minimize the presence of any regulated (hazardous) substance. It is settled on the minimum detection limit that even one of the selected laboratories can guarantee in all its sites all over

2.1. The world.

Limit value and methods: information resulting from the Chemical Database have compared each other. When they are regulated, the most restrictive limit is chosen with the related methods; on the contrary, when fixed limits do not exist, they are defined on experience on testing results. Methods are carefully screened selecting those that ensure stronger guarantees. Based on improved results, both limits and methods are yearly reduced and revised respectively.

- 2.2. Usage BAN: this refers to substances that must not be intentionally used, due to their hazardousness, at every stage of production. Even if they are banned, in some cases tolerability of them is granted since residual traces could be present caused by inevitable impurities in the input.

PRSL Publication: After the limits’ definition for each substance/group of substances, the PRSL can be officially published by listing all substances, grouped by family, with respective limits, methods, and bans.

PRSL updating

Benetton Operations is continuously monitoring all public sources where chemicals are listed to keep its database updated whenever there is change or newly published information, to ensure the most up-to-date version.

Benetton Operations periodically updates the PRSL and it makes available its detailed reports.

Updates are typically made in January of each year and are effective after February 31st. It is the provider's responsibility to review and comply with all PRSL updates.

Since the method used to define the PRSL is based on a multi-criteria analysis, that is a very versatile technique, periodic checks of changes (and updating when necessary) in the classification of compounds are made by Benetton Operations; this means that there is continuous monitoring of the screening procedure.

Moreover, Benetton Operations encourages its suppliers and sub-suppliers to transparency.

Supplier Responsibilities

On an annual basis, the PRSL will be updated by Benetton Operations; it is the responsibility of the supplier to review and comply with all updates to the PRSL.

Suppliers must ensure all materials, components, and packaging materials used for Benetton Operations products meet the Product Restricted Substances List (PRSL) requirements. The materials must be tested according to the PRSL to ensure compliance.

Suppliers' manufacturing processes must comply with the requirements related to substances banned or limited by Benetton Operations in production as defined in the Manufacturing Restricted Substances List (MRSL)

In cases where banned or restricted substances are found in Benetton Operations products, the supplier shall be held liable for all loss and damage suffered by Benetton Operations or its direct and indirect customers.

Benetton Operations reserves the right to reject products and materials that may contain or may have come in contact with substances that are banned or restricted.

Benetton Operations Approved PRSL Testing Laboratories

Ensuring that only safe products are produced, Benetton Operations relies on the quality and authenticity of testing data only from approved laboratories.

For its testing program, Benetton Operations has chosen Intertek as its primary global quality assurance partner.

We recommend that all suppliers refer only to local Intertek laboratories for all testing required by the Benetton Operations testing program.

Upon specific and motivated request, subject to written authorization from Benetton Operations, the supplier can refer to SGS laboratories for testing.

Laboratories Responsibility

The expected responsibilities of Benetton Operations approved laboratories include:

- Training all technicians about the requirements and limits of Benetton Operations PRSL.
- The following test evaluations must always be used in reports, both for overall evaluation and specific tests:
 - ✓ Pass → If meets all Benetton Operations requirements for the required product category.
 - ✓ Fail → If does not meet some or all of Benetton Operations requirements for the required product category.
- Ensuring test reports are consistent and conform to the Benetton Operations test reporting format.
- Benetton Operations test reports must always contain the following information:
 - ✓ Benetton Operations style number and, if available, specific Benetton Operations material or component code
 - ✓ Product description
 - ✓ Product category
 - ✓ Photo of finished product, materials and components submitted for testing.
 - ✓ Summary of tests performed with results by component tested and detail of each substance tested

Testing Guidelines

All materials used in Benetton Operations goods (apparel, accessories, footwear, equipment and manufacturing processes) must comply with all PRSL requirements.

Table 1 -Test Packages Application and Table 2 -Test Packages Details provide testing and risk guidance for most materials commonly used in Benetton Operations products.

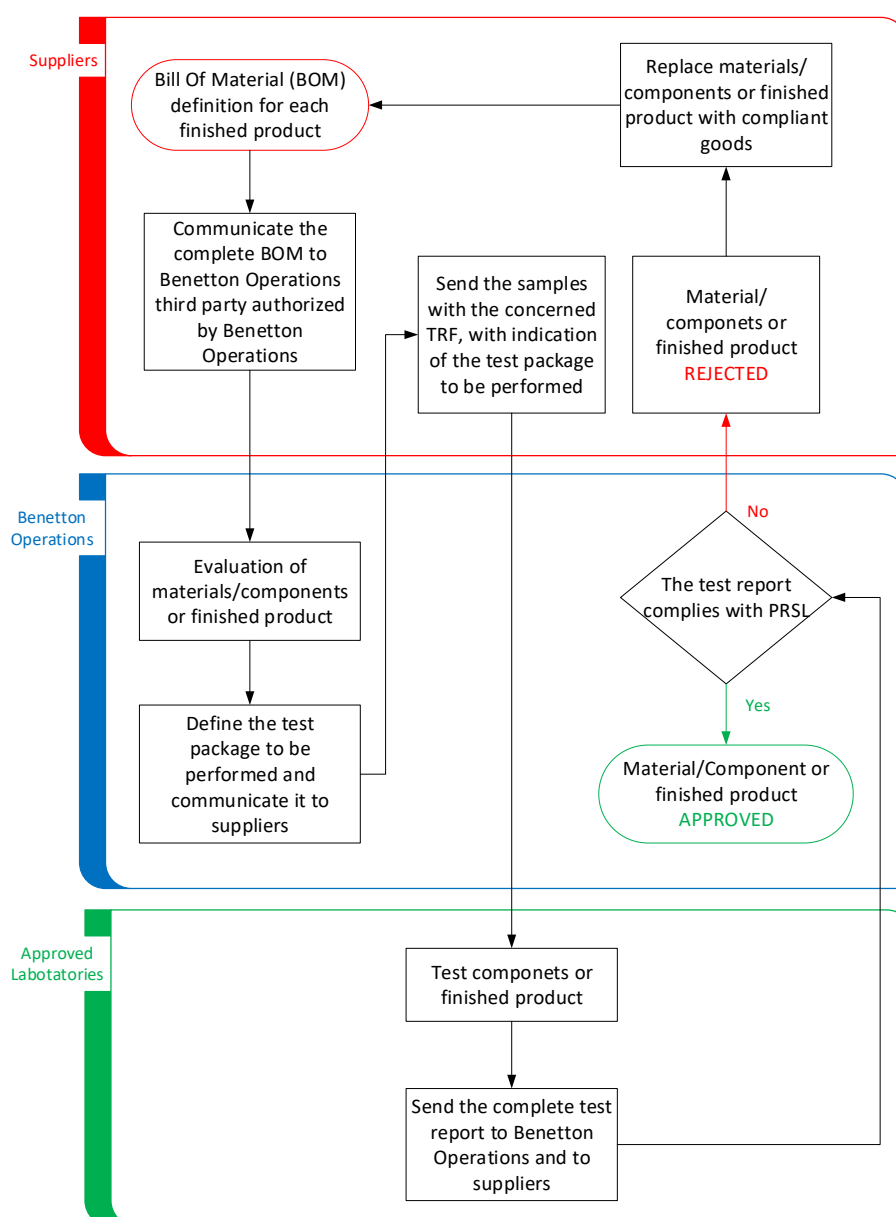
Commonly tested material types are listed in Table 1 -Test Packages Application of the Benetton Operations PRSL manual. Mandatory tests for all material types are listed in Table 2 -Test Packages Details; mandatory tests have been defined with a specific risk assessment for materials/components and following the process below described.

However, it is always the responsibility of the suppliers to ensure that even non-mandatory tests comply with the PRSL.

Details of the individual substances to analyze and relative limits are listed in Table 4 – Product Restricted Substances List (PRSL).

If any test results in a failure, production must be stopped; all suspect products must be segregated.

Do not ship products non-conforming



Test Packages Application

Table 1

Composition		Application	Test package
Natural fibers, Semi-synthetic fibers and all their blends - Cotton - Wool - Silk - Hemp - Cashmere - Linen - Fur hair - Viscose (semi- synthetic) - Lyocell (semi- synthetic) - Modal (semi-synthetic) - Others		Fibers, Yarns, Fabrics, Fibrous Trims	CH-TP1
Synthetic fibers, blends Natural/Synthetic fibers and Semi-Synthetic/Synthetic fibers - Polyester - Acrylic - Polyamide - Wool/Polyamide - Cotton/Polyester - Viscose/Polyester - Others		Fibers, Yarns, Fabrics, Fibrous Trims	CH-TP2
Synthetic Coated Fabrics - Polyvinyl Chloride coating - Polyurethane coating - Others		Coated Fabrics	CH-TP3
Natural Leather and Fur Skin - Leather - Fur Skin - Recycled/ leather - Bonded leather - Others		Leather, Fur Skin, Natural Leather Trims	CH-TP4
Feather and Down - Feather - Down		Feather and Down	CH-TP5
Printing Techniques - Heat transfers - Dye sublimation printing - Screen printing - Direct-to- garment printing - Discharge printing - Plastisol transfers - Coatings such as: - Polyvinyl chloride (PVC) - Polyurethane (PU) - UV-cured - Others		Coatings, Prints	CH-TP6
Metal and metal alloys - Stainless steel - Brass - Copper - Gold - Silver - Aluminum - Others		Metal trims, Metal components	CH-TP7
Non fibrous natural materials - Horn - Bone - Cork - Wood - Paper - Straw - Stone - Shell (e.g. coconut or mother of pearl) - Jacron (a semi- synthetic paper product) - Others		Natural materials trims, Natural materials components	CH-TP8

Composition		Application	Test package
Polymers, Plastics, Foams, Natural Rubber and Synthetic Rubber - Ethylene vinyl acetate (EVA) - Polystyrene (PS) - Polyethylene (PE) - Acrylonitrile butadiene styrene (ABS) - Neoprene - Polypropylene (PP) - Polycarbonate (PC) - Polyamide (PA) - Polyurethane (PU) - Polyvinyl chloride (PVC) - Thermoplastic polyurethane (TPU) - Thermoplastic elastomer (TPE)- - Styrene ethylene butylene styrene (SEBS) - Others		Non fibrous trims (e.g. buttons...), Non fibrous fabrics, others components	CH-TP9
Glue - Hot melt adhesive - Powdered adhesive - Flock adhesive - Contact adhesive - Latex glue - Polyurethane glue - Neoprene cement - Epoxies - Silicone adhesive - UV-cured adhesive - Others		Adhesive labels	CH-TP10
Other Materials - Glass - Synthetic stone - Porcelain - Ceramic - Crystal - Others		Non fibrous trims, Strass	CH-TP11
Packaging or Multi-Component Trims - Natural fibers (wool, cotton, hemp...) - Blended fibers (viscose/cotton.....) - Synthetic fibers (polyester) - Natural materials (paper, wood,) - Polymers - Plastics - Foams - Natural Rubber - Synthetic Rubber - Metal - Glue - Synthetic coated fabrics - Leather - Coatings, dyes and prints (Foil stamping, Hot-stamp printing, Spot UV, Soft-touch coatings)		Hang Tags: Cords, Foil stamps, Hot stamp prints, Paper hang tags, Plastic hang tags, Price tags, Spot UV hang tags, UPC tags, others Stickers : Antimicrobial stickers, Labels, adhesive, Price tags, Tape, others Protective coverings, Lamination (matte or gloss), Foam material, Suit bags, Plastic cases, Poly bags, Poly bags zippered, others Trimmings : Bead chain, Collar bands, Clips metal or plastic, Eyelets/grommets, Magnets, Pins, , Zippers, J-hooks, Plastic fasteners, others Sales Packaging : Boxes/cartons, Gift boxes, Retail carry bags, Hangers, Spot UV boxes, Suit bags, Thermal receipt paper, Tissue paper, UV coated boxes, Varnished coated boxes, Water-based (aqueous) lacquer coated boxes, others Transport Packaging : Antimicrobial stickers, Boxes/cartons, Shipping boxes/cartons, J board, Silica gel/desiccant sachets, Stuffing materials, expanded foam materials Water-based (aqueous) lacquer-coated boxes, Tissue paper, others	CH-TP12
Finished products Max 8 components to be tested. <u>For further details, refer to Table 3</u>		Apparels, Shoes, Bags, Belts, Hats, Gloves, Suitcases.....	CH-TP00

Test Packages Details

Table 2

Substances	Test Packages												
	CH TP1	CH TP2	CH TP3	CH TP4	CH TP5	CH TP6	CH TP7	CH TP8	CH TP9	CH TP10	CH TP11	CH TP12	CH TP00
Acetophenone & 2-Phenyl-2-Propanol									●				
Acidic & Alkaline Substances	●	●	●	●									●
Alkylphenols (APs) - Alkylphenol Ethoxylates (APEOs) including all isomers	●	●	●	●	●	●		●	●	●		●	●
Azo-amines & Arylamine Salts	●	●	●	●	●	●		●				●	●
Bisphenols		●	●	●								●	●
Brominated and Organophosphorus Substances - Formerly Flame Retardants	●	●	●	●	●	●	●	●					●
Chlorinated Paraffins			●	●									
Chlorophenols	●	●		●									●
Chlorinated Benzenes & Toluenes		●	●										●
Cyclosiloxanes	●	●				●							●
Dimethylfumarate				●									●
Dyes (Forbidden and Disperse)		●	●			●							●
Dyes (Navy Blue)		●											●
Fluorinated Greenhouse Gases													
Formaldehyde	●	●	●	●		●		●		●		●	●
Heavy Metals extractable and total content (Non Jewelry)	●	●	●	●		●	●		●		●	●	●
Heavy Metals (Jewelry)													
Monomers			●			●							
N-Nitrosamines													
Organotin Compounds		●	●	●		●				●		●	
Ortho-phenylphenol	●	●	●	●		●							
Ozone-depleting Substances													
Per - & Polyfluoroalkyl Substances (PFAS)	●	●	●	●	●	●	●	●	●	●	●	●	●
Pesticides and Herbicides, Agricultural													
Phthalates			●			●			●	●		●	●
Polycyclic Aromatic Hydrocarbons (PAHs)			●			●				●			●
Quinoline		●											●
Solvents & Residuals			●			●				●			●
UV Absorbers / Stabilizers													
Volatile Organic Compounds (VOCs)			●			●				●			●

● To be performed mandatory ● To be performed only if specifically requested or in case of doubt.
 ● **Finished products package:** the tests to be carried out are exclusively those relating to the actual components that make up the product and in any case for a maximum of 8 components among those considered most at risk by the analysis laboratory (for further details, refer to Table 3)

Finished products estimated test packages

Table 3

Tier / Complexity	Components to be tested	Typical products	Notes	Number of estimated test packages (max)
Simple (S)	Max 4 components to be tested. Skin contact components prioritary	T-shirt, basic knit, simple top, swim wear, underwear, scarves.....	Low effort, mostly shell + prints + labels	1
Medium (M)	Max 6 components to be tested. Skin contact components prioritary	Denim jeans, shirt, dress, gloves, sweatshirt, bags....	Adds trims, lining, more dyes/azo risk	1
Complex (C)	Max 8 components to be tested. Skin contact components prioritary	Jacket, shoes, coated outerwear or apparel with not mixable materials	Full set: sole/hardware/adhesives/PFAS, inaccessible for shoes TK market PHT	2

Product Restricted Substances List (PRSL)

Table 4

Acetophenone & 2-Phenyl-2-Propanol				
CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
98-86-2	Acetophenone	50 ppm each	25 ppm each	Extraction in acetone or methanol GC/MS, sonication for 30 minutes at 60° C
617-94-7	2-Phenyl-2-Propanol			
729-43-1	Acetophenone Azine			Extraction in acetone or methanol GC/MS or LC/MS, sonication for 30 minutes at room temperature

Acidic & Alkaline Substances				
CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
N/A	pH value	Textiles: 4.0 – 7.5 Leather: Chrome-tanned: 3.2 – 5.5 Other: 3.5 – 7.5	N/A	Textiles and synthetic coated fabrics: EN ISO 3071:2020 Leather: EN ISO 4045:2018

Alkylphenols (APs) - Alkylphenol Ethoxylates (APEOs) including all isomers				
CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
Various	Nonylphenol (NP), mixed isomers	Total APs 10ppm Total APs + APEOs 100 ppm	Total of NP + OP 3 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
Various	Octylphenol (OP), mixed isomers			
Various	Nonylphenol ethoxylates (NPEOs)		Total of NPEOs + OPEOs: 20 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
Various	Octylphenol ethoxylates (OPEOs)			

Azo-amines & Arylamine Salts

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
92-67-1	4-Aminobiphenyl	20 ppm each	5 ppm each	All materials except leather: EN ISO 14362-1:2017 Leather: EN ISO 17234-1:2024 <u>p-Aminoazobenzene</u> All materials except leather: EN ISO 14362-3:2017 Leather: EN ISO 17234-2:2011
92-87-5	Benzidine			
95-69-2	4-Chloro-o-toluidine			
91-59-8	2-Naphthylamine			
97-56-3	o-Aminoazotoluene			
99-55-8	2-Amino-4-nitrotoluene			
106-47-8	p-Chloraniline			
615-05-4	2,4-Diaminoanisole			
101-77-9	4,4'-Diaminodiphenylmethane			
91-94-1	3,3'-Dichlorobenzidine			
119-90-4	3,3'-Dimethoxybenzidine			
119-93-7	3,3'-Dimethylbenzidine			
838-88-0	3,3'-dimethyl-4,4'-diaminodiphenylmethane			
120-71-8	p-Cresidine			
101-14-4	4,4'-Methylen-bis(2-chloraniline)			
101-80-4	4,4'-Oxydianiline			
139-65-1	4,4'-Thiodianiline			
95-53-4	o-Toluidine			
95-80-7	2,4-Toluenediamine			
137-17-7	2,4,5-Trimethylaniline			
95-68-1	2,4 Xylidine			
87-62-7	2,6 Xylidine			
90-04-0	2-Methoxyaniline (= o-Anisidine)			
60-09-3	p-Aminoazobenzene			
3165-93-3	4-Chloro-o-toluidinium chloride			
553-00-4	2-Naphthylammoniumacetate			
39156-41-7	4-Methoxy-m-phenylene diammonium sulphate			
21436-97-5	2,4,5-Trimethylaniline hydrochloride			

Bisphenols

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
80-05-7	Bisphenol-A (BPA)	Items intended to come in contact with the mouth: 1 ppm Textiles & leather: 10 ppm Polycarbonate Materials: 100 ppm Other Materials: 200 ppm	Leather: 10 ppm each	Textiles: For precipitation, draw the extract to another container and add methanol or acetonitrile. This keeps the extraction process consistent. Extraction: 1 g sample/20 mL THF, sonication for 60 minutes at 60° C, then add methanol or acetonitrile for precipitation prior to analysis with LC/MS.
80-09-1	Bisphenol S (BPS)	Textiles & other materials: 200 ppm each Leather: 500 ppm each	All other materials: 0.1 ppm for individual samples 1 ppm for composite samples	Leather: EN ISO 11936:2023 Other Materials: Extraction: 1 g sample/20 mL THF, sonication for 60 minutes at 60° C, then add methanol or acetonitrile for precipitation prior to analysis with LC/MS.
77-40-7	Bisphenol B (BPB)			
620-92-8	Bisphenol F (BPF)			

Chlorophenols

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
15950-66-0	2,3,4-Trichlorophenol (TriCP)	0.5 ppm each	0.5 ppm each	All materials: EN 17134-2:2023
933-78-8	2,3,5-Trichlorophenol (TriCP)			
933-75-5	2,3,6-Trichlorophenol (TriCP)			
95-95-4	2,4,5-Trichlorophenol (TriCP)			
88-06-2	2,4,6-Trichlorophenol (TriCP)			
609-19-8	3,4,5-Trichlorophenol (TriCP)			
4901-51-3	2,3,4,5-Tetrachlorophenol (TeCP)			
58-90-2	2,3,4,6-Tetrachlorophenol (TeCP)			
935-95-5	2,3,5,6-Tetrachlorophenol (TeCP)			
87-86-5	Pentachlorophenol (PCP) and its salts and esters			

Brominated and Organophosphorus Substances - Formerly Flame Retardants

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
84852-53-9	Decabromodiphenyl ethane (DBDPE)	10 ppm each	5 ppm each	All materials: EN ISO 17881-1:2016
32534-81-9	Pentabromodiphenyl ether (PentaBDE)			
32536-52-0	Octabromodiphenyl ether (OctaBDE)			
1163-19-5	Decabromodiphenyl ether (DecaBDE)			
Various	All other Polybrominated diphenyl ethers (PBDEs)			
79-94-7	Tetrabromobisphenol A (TBBP A)			
59536-65-1	Polybromobiphenyls (PBB)			
3194-55-6	Hexabromocyclododecane (HBCDD)			All materials: EN ISO 17881-2:2016
3296-90-0	2,2-bis(bromomethyl)-1,3-propanediol (BBMP)			
13674-87-8	Tris(1,3-dichloro-isopropyl) phosphate (TDCPP)			
25155-23-1	Trixylyl phosphate (TXP)			
126-72-7	Tris(2,3-dibromopropyl) phosphate (TRIS)			
545-55-1	Tris(1-aziridinyl)phosphine oxide (TEPA)			
115-96-8	Tris(2-chloroethyl)phosphate (TCEP)			
5412-25-9	Bis(2,3-dibromopropyl) phosphate (BDBPP)			
115-86-6	Triphenyl phosphate (TPP)	500 ppm	50 ppm	All materials: EN ISO 17881-2:2016

Chlorinated Paraffins

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
85535-84-8	Short-chain Chlorinated Paraffins (SCCPs) (C10-C13)	1000 ppm	100 ppm	Leather: ISO 18219-1:2021 (SCCP) ISO 18219-2:2021 (MCCP) Textiles and all other materials: ISO 22818:2021 (SCCP + MCCP)
85535-85-9	Medium-chain Chlorinated Paraffins (MCCPs) (C14-C17)	1000 ppm	100 ppm	

Dimethylfumarate

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
624-49-7	Dimethylfumarate (DMFu)	0.1 ppm	0.05 ppm	All materials: ISO 16186:2021

Chlorinated Benzenes & Toluenes

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
95-49-8	2-Chlorotoluene	Total 1 ppm	0.2 ppm each	All materials: EN 17137:2024
108-41-8	3-Chlorotoluene			
106-43-4	4-Chlorotoluene			
32768-54-0	2,3-Dichlorotoluene			
95-73-8	2,4-Dichlorotoluene			
19398-61-9	2,5-Dichlorotoluene			
118-69-4	2,6-Dichlorotoluene			
95-75-0	3,4-Dichlorotoluene			
2077-46-5	2,3,6-Trichlorotoluene			
6639-30-1	2,4,5-Trichlorotoluene			
76057-12-0	2,3,4,5-Tetrachlorotoluene			
875-40-1	2,3,4,6-Tetrachlorotoluene			
1006-31-1	2,3,5,6-Tetrachlorotoluene			
877-11-2	Pentachlorotoluene			
541-73-1	1,3-Dichlorobenzene			
106-46-7	1,4-Dichlorobenzene			
87-61-6	1,2,3-Trichlorobenzene			
120-82-1	1,2,4-Trichlorobenzene			
108-70-3	1,3,5-Trichlorobenzene			
634-66-2	1,2,3,4-Tetrachlorobenzene			
634-90-2	1,2,3,5-Tetrachlorobenzene			
95-94-3	1,2,4,5-Tetrachlorobenzene			
608-93-5	Pentachlorobenzene			
118-74-1	Hexachlorobenzene			
5216-25-1	p-Chlorobenzotrichloride			
98-07-7	Benzotrichloride			
100-44-7	Benzyl Chloride			
95-50-1	1,2-Dichlorobenzene	10 ppm	1 ppm	

Cyclosiloxanes

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
556-67-2	Octamethylcyclotetrasiloxane (D4)	1000 ppm each	50 ppm each	All materials: Ultrasonic extraction with tert-Butyl methy ether (TBME) or acetone for 30 min at 40° C then GC/MS
541-02-6	Decamethylcyclopentasiloxane (D5)			
540-97-6	Dodecamethylcyclohexasiloxane (D6)			

Dyes (Forbidden and Disperse)

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
2475-45-8	C.I. Disperse Blue 1	30 ppm each	15 ppm each	All materials: DIN 54231:2022
2475-46-9	C.I. Disperse Blue 3			
3179-90-6	C.I. Disperse Blue 7			
3860-63-7	C.I. Disperse Blue 26			
56524-77-7	C.I. Disperse Blue 35A			
56524-76-6	C.I. Disperse Blue 35B			
12222-97-8	C.I. Disperse Blue 102			
12223-01-7	C.I. Disperse Blue 106			
61951-51-7	C.I. Disperse Blue 124			
23355-64-8	C.I. Disperse Brown 1			
2581-69-3	C.I. Disperse Orange 1			
730-40-5	C.I. Disperse Orange 3			
82-28-0	C.I. Disperse Orange 11			
12223-33-5	C.I. Disperse Orange 37/76/59			
13301-61-6				
51811-42-8				
85136-74-9	C.I. Disperse Orange 149			
2872-52-8	C.I. Disperse Red 1			
2872-48-2	C.I. Disperse Red 11			
3179-89-3	C.I. Disperse Red 17			
61968-47-6	C.I. Disperse Red 151			
119-15-3	C.I. Disperse Yellow 1			
2832-40-8	C.I. Disperse Yellow 3			
6300-37-4	C.I. Disperse Yellow 7			
6373-73-5	C.I. Disperse Yellow 9			
6250-23-3	C.I. Disperse Yellow 23	30 ppm each	15 ppm each	All materials: DIN 54231:2022
12236-29-2	C.I. Disperse Yellow 39			
54824-37-2	C.I. Disperse Yellow 49			
6858-49-7				
54077-16-6	C.I. Disperse Yellow 56			
3761-53-3	C.I. Acid Red 26			
1694-09-3	C.I. Acid Violet 49			
569-61-9	C.I. Basic Red 9			
569-64-2	C.I. Basic Green 4			
2437-29-8				
10309-95-2				
548-62-9	C.I. Basic Violet 3			
632-99-5	C.I. Basic Violet 14			
2580-56-5	C.I. Basic Blue 26			
1937-37-7	C.I. Direct Black 38			

Dyes (Forbidden and Disperse)

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
2602-46-2	C.I. Direct Blue 6			
573-58-0	C.I. Direct Red 28			
16071-86-6	C.I. Direct Brown 95			
60-11-7	4-Dimethylaminoazobenzene (Solvent Yellow 2)			
6786-83-0	C.I. Solvent Blue 4			
561-41-1	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol			

Dyes (Navy Blue)

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
118685-33-9	Component 1: C39H23ClCrN7O12S2Na	30 ppm each	15 ppm each	All materials: DIN 54231:2022
Not allocated	Component 2: C46H30CrN10O20S2.3Na			

Fluorinated Greenhouse Gases

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
Various	See Regulation (EU) 2024/573 for a complete list.	0.1 ppm each	0.1 ppm each	Sample preparation: Purge and trap — thermal desorption or SPME Measurement: GC/MS

Formaldehyde

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
50-00-0	Formaldehyde	Adults and children: 75 ppm Babies: 16 ppm	16 ppm	All materials except leather: JIS L 1041-2011 A (Japan Law 112) or EN ISO 14184-1:2011 Leather: EN ISO 17226-2:2019 with EN ISO 17226-1:2021 confirmation method Alternatively, EN ISO 17226-1:2021 can be used on its own.

Heavy Metals extractable and total content (Non Jewelry)

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
7440-36-0	Antimony (Sb)	Extractable: 30 ppm	Extractable: 3 ppm	All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019
7440-38-2	Arsenic (As)	Extractable: 0.2 ppm Total: 100 ppm	Extractable: 0.1 ppm Total: 10 ppm	Extractable All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019 Total All materials except leather: EN 16711-1:2015 Leather: EN ISO 17072-2:2022
7440-39-3	Barium (Ba)	Extractable: 1000 ppm	Extractable: 100 ppm	All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019
7440-43-9	Cadmium (Cd)	Extractable: 0.1 ppm Total: 40 ppm	Extractable: 0.05 ppm Total: 5 ppm	Extractable All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019 Total All materials except leather: EN 16711-1:2015 Leather: EN ISO 17072-2:2022
7440-47-3	Chromium (Cr)	Extractable (Textile) Babies: 1 ppm Adults and children: 2 ppm	Extractable: 0.5 ppm	Textiles: EN 16711-2:2015 Leather: EN ISO 17072-1:2019
18540-29-9	Chromium VI	Extractable Leather: 3 ppm Textiles: 1 ppm	Extractable Leather: 3 ppm Textiles: 0.5 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.

Heavy Metals extractable and total content (Non Jewelry)

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
				Alternatively, EN ISO 17075-2:2017 may be used on its own. Aging test: ISO 10195:2018 Method A2 at brand discretion (Aging required for footwear by India BIS).
7440-48-4	Cobalt (Co)	Extractable Adults: 4 ppm Children and babies: 1 ppm	Extractable 0.5 ppm	All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019
7440-50-8	Copper (Cu)	Extractable Adults: 50 ppm Children and babies: 25 ppm	Extractable 5 ppm	All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019
7439-92-1	Lead (Pb)	Extractable Adults: 1 ppm Children and babies: 0.2 ppm Total 90 ppm	Extractable 0.2 ppm Total 10 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
7439-97-6	Mercury (Hg)	Extractable 0.02 ppm Total 0.5 ppm total	Extractable 0.02 ppm Total 0.1 ppm	Extractable All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019 Total All materials except leather: EN 16711-1:2015 Leather: EN ISO 17072-2:2022
7440-02-0	Nickel (Ni)	Extractable 1 ppm	Extractable 0.1 ppm	Extractable

Heavy Metals extractable and total content (Non Jewelry)

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
		Release (metal parts) Prolonged skin contact: 0.5 µg/cm ² /week Eyewear frames: 0.5 µg/cm ² /week	Release: 0.5 µg/cm ² / week	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 16128:2025
7782-49-2	Selenium (Se)	Extractable 500 ppm	Extractable 50 ppm	All materials except leather: EN 16711-2:2015 Leather: EN ISO 17072-1:2019

Heavy Metals (Jewelry)

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
7440-36-0	Antimony (Sb)	Paints & Coatings Extractable 60 ppm	Extractable 5 ppm	ASTM F963-23 as referenced in ASTM F2923:2020
7440-38-2	Arsenic (As)	Paints & Coatings Extractable 25 ppm	Extractable 5 ppm	ASTM F963-23 as referenced in ASTM F2923:2020
7440-39-3	Barium (Ba)	Paints & Coatings Extractable 1000 ppm	Extractable 100 ppm	ASTM F963-23 as referenced in ASTM F2923:2020
7440-43-9	Cadmium (Cd)	Substrates, Paints & Coatings Total Adults: 75 ppm Children: 40 ppm	Total 5 ppm	ASTM F963-23 as referenced in ASTM F2923:2020
7440-47-3	Chromium (Cr)	Paints & Coatings Extractable 60 ppm	Extractable 5 ppm	ASTM F963-23 as referenced in ASTM F2923:2020
7439-92-1	Lead (Pb)	Substrates, Paints & Coatings Total 90 ppm	Total 10 ppm	ASTM F963-23 as referenced in ASTM F2923:2020
7439-97-6	Mercury (Hg)	Paints & Coatings Extractable 60 ppm	Extractable 5 ppm	ASTM F963-23 as referenced in ASTM F2923:2020
7440-02-0	Nickel (Ni)	Release (metal parts) Prolonged skin contact: 0.5 µg/cm ² /week Pierced part: 0.2 µg/cm ² /week	Release Prolonged skin contact: 0.5 µg/cm ² /week Pierced part: 0.2 µg/cm ² /week	EN 12472:2020 and EN 1811:2023
7782-49-2	Selenium (Se)	Paints & Coatings Extractable 500 ppm	Extractable 50 ppm	ASTM F963-23 as referenced in ASTM F2923:2020

Monomers

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
100-42-5	Styrene, Free	500 ppm	50 ppm	Extraction in Methanol GC/MS, sonication at 60° C for 60 minutes
75-01-4	Vinyl Chloride	1 ppm	1 ppm	EN ISO 6401:2022

N-Nitrosamines

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
62-75-9	N-nitrosodimethylamine (NDMA)	0.5 ppm each	0.5 ppm each	EN ISO 19577:2019 with LC/MS/MS verification if positive
55-18-5	N-nitrosodiethylamine (NDEA)			
621-64-7	N-nitrosodipropylamine (NDPA)			
924-16-3	N-nitrosodibutylamine (NDBA)			
100-75-4	N-nitrosopiperidine (NPIP)			
930-55-2	N-nitrosopyrrolidine (NPYR)			
59-89-2	N-nitrosomorpholine (NMOR)			
614-00-6	N-nitroso N-methyl N-phenylamine (NMPHA)			
612-64-6	N-nitroso N-ethyl N-phenylamine (NEPHA)			

Organotin Compounds

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
Various	Tributyltin (TBT)	0.5 ppm each	0.1 ppm each	All materials: ISO 16179:2025 or EN ISO 22744-1:2020
Various	Triphenyltin (TPhT)			
Various	Dibutyltin (DBT)			
Various	Dioctyltin (DOT)	1 ppm each		
Various	Monobutyltin (MBT)			
Various	Monooctyltin (MOT)			
Various	Tricyclohexyltin (TCyHT)			
Various	Trimethyltin (TMT)			
Various	Trioctyltin (TOT)			
Various	Tripropyltin (TPT)			
Various	Dimethyltin (DMT)	Other organotin: 1 ppm each		
Various	Diphenyltin (DPhT)			
Various	Dipropyltin (DPT)			
Various	Monomethyltin (MMT)			
Various	Monophenyltin (MPhT)			

Organotin Compounds

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
1461-25-2	Tetrabutyltin (TeBT)			
597-64-8	Tetraethyltin (TeET)			
3590-84-9	Tetraoctyltin (TeOT)			

Ortho-phenylphenol

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
90-43-7	Ortho-phenylphenol (OPP)	1000 ppm	100 ppm	All materials: EN 17134-2:2023

Ozone-depleting Substances

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

Per- & Polyfluoroalkyl Substances (PFAS)

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
Various	All PFAS as measured by total fluorine Note: Several U.S. states restrict total organic fluorine while some EU member states restrict total fluorine with the ability to demonstrate that fluorine > 50 ppm does not come from PFAS.	50 ppm	20 ppm for individual sample 50 ppm for max. composite of two samples	EN 14582:2016 or ASTM D7359:2023 or EN 17813:2023
PFOS and its salts				
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	25 ppb total	25 ppb total	
2795-39-3	Perfluorooctanesulfonic acid, potassium salt (PFOS-K)			
29457-72-5	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)			
29081-56-9	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)			
70225-14-8	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)			
56773-42-3	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)			
251099-16-8	Didecyldimethyl ammonium perfluorooctane sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)			

Per- & Polyfluoroalkyl Substances (PFAS)				
CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
PFOS-related substances				Textiles, synthetic coated fabrics, excluding leathers 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.
4151-50-2	N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	1000 ppb total	1000 ppb total	
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)			
754-91-6	Perfluorooctane sulfonamide (PFOSA)			
PFOA and its salts				
335-67-1	Perfluorooctanoic acid (PFOA)	25 ppb total	25 ppb total	
335-95-5	Sodium perfluorooctanoate (PFOA-Na)			
2395-00-8	Potassium perfluorooctanoate (PFOA-K)			
335-93-3	Silver perfluorooctanoate (PFOA-Ag)			
335-66-0	Perfluorooctanoyl fluoride (PFOA-F)			
3825-26-1	Ammonium pentadecafluorooctanoate (APFO)			
PFOA-related substances				
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1000 ppb total	1000 ppb total	
376-27-2	Methyl perfluorooctanoate (Me-PFOA)			
3108-24-5	Ethyl perfluorooctanoate (Et-PFOA)			
678-39-7	2-Perfluorooctylethanol (8:2 FTOH)			
27905-45-9	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)			
1996-88-9	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)			
27854-31-5	2H,2H-Perfluorodecanoic acid (H2PFDA)			
PFHxS and its salts				
355-46-4	Perfluorohexane Sulfonic acid (PFHxS)	25 ppb total	25 ppb total	
3871-99-6	Perfluorohexane Sulfonic acid, potassium salt (PFHxS-K)			
55120-77-9	Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)			
68259-08-5	Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH4)			
82382-12-5	Perfluorohexane Sulfonic acid, sodium salt (PFHxS-Na)			
PFHxS-related substances				
68259-15-4	N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA)	1000 ppb total	1000 ppb total	
41997-13-1	Perfluorohexane sulfonamide (PFHxSA)			

Per- & Polyfluoroalkyl Substances (PFAS)

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
C9-C14 Perfluorocarboxylic acids (PFCAs) and their salts				
375-95-1	Perfluorononanoic Acid (PFNA, C9-PFCA)	25 ppb total	25 ppb total	
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)	260 ppb total	260 ppb total	
2144-54-9	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)			
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)	25 ppb total	25 ppb total	
PFHxA-related substances				
17527-29-6	1H,1H,2H,2H-Perfluorooctyl acrylate (6:2 FTA)	1000 ppb total	1000 ppb total	
2144-53-8	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)			
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)			
647-42-7	1H,1H,2H,2H-Perfluorooctanol (6:2 FTOH)			

Pesticides and Herbicides, Agricultural

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
93-72-1	2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds; 2,4,5-TP	0.5 ppm each	0.5 ppm each	All materials: EN ISO 15913:2003 or EPA 8081/EPA 8151A or BVL L 00.00-34:2010-09
93-76-5	2,4,5-T			
94-75-7	2,4-D			
309-00-2	Aldrine			
86-50-0	Azinophosmethyl			
2642-71-9	Azinophosethyl			
4824-78-6	Bromophos-ethyl			
2425-06-1	Captafol			
63-25-2	Carbaryl			
510-15-6	Chlorbenzilat			
57-74-9	Chlordane			
6164-98-3	Chlordimeform			
470-90-6	Chlorfenvinphos			
1897-45-6	Chlorthalonil			
56-72-4	Coumaphos			
68359-37-5	Cyfluthrin			
91465-08-6	Cyhalothrin			
52315-07-8	Cypermethrin			
78-48-8	S,S,S-Tributyl phosphorotrithioate (Tribufos)			
52918-63-5	Deltamethrin			
53-19-0	DDD			
72-54-8				
3424-82-6	DDE			
72-55-9				
50-29-3	DDT			
789-02-6				
333-41-5	Diazinone			
1085-98-9	Dichlofluanide			
120-36-5	Dichloroprop			
115-32-2	Dicofol			
141-66-2	Dicrotophos			
60-57-1	Dieldrine			
60-51-5	Dimethoate			
88-85-7	Dinoseb, its salts and acetate			
63405-99-2	DTTB (4, 6-Dichloro-7 (2,4,5-trichloro-phenoxy) -2-Trifluoro methyl benz imidazole)			
115-29-7	Endosulfan			
959-98-8	Endosulfan I (alpha)			
33213-65-9	Endosulfan II (beta)			

Pesticides and Herbicides, Agricultural

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
72-20-8	Endrine			
66230-04-4	Esfenvalerate			
106-93-4	Ethylendibromid			
56-38-2	Ethylparathione; Parathion			
51630-58-1	Fenvalerate			
Various	Halogenated naphthalenes, including polychlorinated naphthalenes (PCNs)			
76-44-8	Heptachlor			
1024-57-3	Heptachloroepoxide			
36355-01-8	Hexabromobiphenyl			
319-84-6	a-Hexachlorocyclohexane with & without Lindane			
319-85-7	b-Hexachlorocyclohexane with & without Lindane			
319-86-8	g-Hexachlorocyclohexane with & without Lindane			
118-74-1	Hexachlorobenzene			
465-73-6	Isodrine			
4234-79-1	Kelevane			
143-50-0	Kepone			
58-89-9	Lindane			
121-75-5	Malathione			
94-74-6	MCPA			
94-81-5	MCPB			
93-65-2	Mecoprop			
10265-92-6	Metamidophos			
72-43-5	Methoxychlor			
2385-85-5	Mirex			
6923-22-4	Monocrotophos			
298-00-0	Parathion-methyl			
1825-21-4	Pentachloroanisole			
7786-34-7	Phosdrin/Mevinphos			
72-56-0	Perthane			
31218-83-4	Propethamphos			
41198-08-7	Profenophos			
13593-03-8	Quinalphos			
82-68-8	Quintozene			
8001-50-1	Strobane			
297-78-9	Telodrine			
8001-35-2	Toxaphene			
731-27-1	Tolyfluanide			
1582-09-8	Trifluraline			

UV Absorbers / Stabilizers

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
3846-71-7	UV 320	1000 ppm each	50 ppm	ISO 24040:2022 with extraction in THF, analysis by GC/MS Note: Stabilized THF should be used for extraction.
3864-99-1	UV 327			
3896-11-5	UV 326			
3147-75-9	UV 329			
36437-37-3	UV 350			
25973-55-1	UV 328	100 PPM		
2440-22-4	Drometrizole	For informational purposes only.		

Phthalates

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
28553-12-0	Di-Iso-nonylphthalate (DINP)	500 ppm each	50 ppm each	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
117-84-0	Di-n-octylphthalate (DNOP)			
117-81-7	Di(2-ethylhexyl)-phthalate (DEHP)			
26761-40-0	Diisodecylphthalate (DIDP)			
85-68-7	Butylbenzylphthalate (BBP)			
84-74-2	Dibutylphthalate (DBP)			
84-69-5	Diisobutylphthalate (DIBP)			
84-75-3	Di-n-hexylphthalate (DnHP)			
84-66-2	Diethylphthalate (DEP)			
131-11-3	Dimethylphthalate (DMP)			
131-18-0	Di-n-pentyl phthalate (DPENP)			
84-61-7	Dicyclohexyl phthalate (DCHP)			
71888-89-6	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	1000 ppm total		
117-82-8	Bis(2-methoxyethyl) phthalate			
605-50-5	Diisopentyl phthalate (DIPP)			
131-16-8	Dipropyl phthalate (DPRP)			
27554-26-3	Diisooctyl phthalate (DIOP)			
68515-50-4	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear			
71850-09-4	Diisohexyl phthalate (DIHxP)			
68515-42-4	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)			
84777-06-0	1,2-Benzenedicarboxylic acid Dipentyl ester, branched and linear			
68648-93-1				

Phthalates

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
68515-51-5	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate			
	1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters			
	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters			
776297-69-9	n-Pentyl-isopentylphthalate (nPIPP)			
26040-51-7	Bis(2-ethylhexyl) tetrabromophthalate			
53306-54-0	Bis(2-propylheptyl) phthalate (DPHP)			

Polycyclic Aromatic Hydrocarbons (PAHs)

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
83-32-9	Acenaphthene	No individual restriction 10 ppm total	0.2 ppm each	All materials: AFPS GS 2019 or EN 17132:2019 or ISO 16190:2021
208-96-8	Acenaphthylene			
120-12-7	Anthracene			
191-24-2	Benzo(g,h,i)perylene			
86-73-7	Fluorene			
206-44-0	Fluoranthene			
193-39-5	Indeno(1,2,3-cd)pyrene			
91-20-3	Naphthalene**			
85-01-8	Phenanthrene			
129-00-0	Pyrene			
56-55-3	Benzo(a)anthracene	1 ppm each Child care articles: 0.5 ppm each Total 10 ppm		
50-32-8	Benzo(a)pyrene			
205-99-2	Benzo(b)fluoranthene			
192-97-2	Benzo[e]pyrene			
205-82-3	Benzo[j]fluoranthene			
207-08-9	Benzo(k)fluoranthene			
218-01-9	Chrysene			
53-70-3	Dibenzo(a,h)anthracene			

Quinoline

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
91-22-5	Quinoline	50 ppm	10 ppm	All materials: DIN 54231:2022 with

Quinoline

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
				methanol extraction at 70° C

Solvents & Residuals

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
68-12-2	Dimethylformamide (DMFa)	500 ppm	50 ppm each	Textiles: EN 17131:2025 All other materials: ISO 16189:2021
75-12-7	Formamide	1000 ppm Play/baby/yoga mats: 200 ppm		
127-19-5	Dimethylacetamide (DMAC)	1000 ppm each		
872-50-4	N-Methyl-2-pyrrolidone (NMP)			

Volatile Organic Compounds (VOCs)

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
71-43-2	Benzene	5 ppm	5 ppm	For general VOC screening: GC/MS headspace 45 minutes at 120° C
75-15-0	Carbon Disulfide	500 ppm total	Other: 100 ppm each	
56-23-5	Carbon Tetrachloride			
67-66-3	Chloroform			
108-94-1	Cyclohexanone			
107-06-2	1,2-Dichloroethane			
75-35-4	1,1-Dichloroethylene			
100-41-4	Ethylbenzene			
76-01-7	Pentachloroethane			
630-20-6	1,1,1,2- Tetrachloroethane			
79-34-5	1,1,2,2- Tetrachloroethane			
79-01-6	Trichloroethylene			
1330-20-7	Xylenes (meta-, ortho-, para-)			
108-38-3				
95-47-6				
106-42-3				
95-50-1	1,2-Dichlorobenzene			
106-46-7	1,4-Dichlorobenzene			
872-50-4	1-Methyl-2-pyrrolidione			
617-94-7	2-phenyl-2-propanol			

Volatile Organic Compounds (VOCs)

CAS Number	Substance	Limits Component materials in finished product	Reporting Limit Limits above which test results should be reported	Suitable test method Sample Preparation & Measurement
98-86-2	Acetophenone			
75-12-7	Formamide			
127-19-5	N,N-Dimethylacetamide (DMAC)			
91-20-3	Naphthalene			
68-12-2	N-N-Dimethylformamide (DMFa)			
100-42-5	Styrene			
96-18-4	1,2,3-trichloropropane			
78-87-5	1,2-Dichloropropane			
111-15-9	2-Ethoxyethyl acetate			
149-57-5	2-Ethylhexane acid			
62-53-3	Aniline			
111-96-6	Bis(2-methoxyethyl)ether			
78-59-1	Isophorone			
108-95-2	Phenol			
109-99-9	THF			
106-94-5	1-bromopropane			
70657-70-4	1-PG2MEA 1-Propanol,2-methoxy-, acetate)			
111-77-3	2-(2-Methoxyethoxy)ethanol			
584-84-9	2,4-toluene diisocyanate			
110-80-5	2-ethoxyethanol			
109-86-4	2-Methoxyethanol EGME (ethylene glycol monomethyl ether)			
1589-47-5	2-Methoxypropan-1-ol			
110-71-4	EGDME (Ethylene glycol dimethyl ether)			
110-49-6	EGMEA (Ethylene glycol monomethyl ether acetate)			
67-72-1	Hexachloroethane			
75-09-2	Merhylene chloride (dichloromethane)			
110-54-3	n-hexane			
112-49-2	"TEGDME (Triethylene glycol dimethyl ether)"			