bluesign® Restricted Substances List (RSL)

Consumer safety limits

Version 15.0 | 01 July 2024

bluesign®

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1 Introduction

Product stewardship with respect to consumer safety aspects is difficult to manage in a complex supply chain. Supplier compliance declarations which attest conformity with the brand Restricted Substance List (brand RSL) can be a good way to start. They should be further accompanied by a responsible testing program that monitors reliability of suppliers' declarations.

The BSSL (bluesign® system substances list) specifies consumer safety limits for chemical substances in articles. Due to the quantity and range of listed substances only a comprehensive input stream management together with a network of committed bluesign® SYSTEM PARTNERS (including chemical suppliers) result in a positive list of preferred chemicals (bluesign® FINDER) and can assure best compliance with the BSSL limits.

The RSL at hand is an extract of the BSSL and contains consumer safety limits and recommended testing methods for the most important and legally restricted substances in textile, leather articles and accessories. Brands and retailers can use this RSL as an orientation for the terms and conditions of purchase. Together with a testing matrix the document can also be utilized as a guide for appropriate testing of articles such as textiles. The RSL is revised at least annually in alignment with the BSSL.

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2 Definitions and Abbreviations

2.1 Accessory

A component of a consumer product which is not classified as textile fabric (e.g. button, label, zipper, etc.).

2.2 Article

An object which during production is given a special shape, surface or design, which determines its function to a greater degree than does its chemical composition (fibers, textile fabrics, buttons, zippers, etc.).

2.3 BSSL

bluesign® system substances list. A list that specifies consumer safety limits for chemical substances in articles. It also defines usage bans for chemical substances prohibited from the manufacturing of articles.

2.4 CAS Number

CAS numbers are unique numerical identifiers for chemical elements, compounds, polymers, biological sequences, mixtures or alloys. Chemical Abstracts Service (CAS), a division of the American Chemical Society, assigns these identifiers to every chemical that has been described in the literature. The intention is to make database searches more convenient, as chemicals often have many names. Almost all molecule databases today allow searching by CAS numbers.

2.5 Chemical Substance

A chemical element and its compounds with constant composition and properties. It is defined by the CAS number.

2.6 Component

A part of an article that can be distinguished according to the material composition, the functionality and / or the color and is easily, mechanically separated from the other components.

2.7 Limit Value

Limit values are defined for single substances or substance groups. The limit value is the maximum amount of a chemical substance or substance group permitted in articles for the usage ranges A, B and C.

2.7.1 Detection Limit (DL)

The lowest quantity of a substance that can be distinguished from the absence of that substance with a stated confidence level.

2.7.2 Quantification Limit (QL)

The lowest analyte concentration that can be quantitatively detected with a stated accuracy and precision.

2.7.3 Limitation

For several substances or substance groups a limitation is defined. For these substances or substance group a usage ban is not given but only a consumer safety limit.

2.8 Member

This term describes a member of a group of restricted substances. It can be a chemical substance, or a subgroup of substances. See also section 2.13.

2.9 Mixture

A chemical product composed of two or more substances. It can be, for example, a colorant or an auxiliary.

2.10 Monitoring

In cases where a limit value is accompanied with the limit type ‘monitoring’ it should be the goal to be below the defined threshold. Exceeding the limit will not lead to a ‘black’ rating but to a ‘grey’ rating. The limit type ‘monitoring’ can be allocated for different reasons.

- For some chemical substances toxicological and / or ecological properties are not yet well defined. Therefore, the risk assessment is not complete.
- For some substances sufficient information on possible / typical contamination of articles and chemical products is not available now. Those substances are under observation. Exact restrictions will be defined as soon as more information exists.

2.11 Sector of Use

The Sector of Use is part of an innovative concept for the assessment of chemical products. bluesign uses an approach similar to the REACH system for risk-based evaluation of chemical substances and transfers it to the evaluation of chemical products. This allows a product, process and industry specific assessment of risks to human and the environment that can be adapted to all kind of industries. Some Sectors of Use are combined to groups. The applied Sectors of Use are

Sector of Use Group	Sector of Use
Textile	Fibers / yarns
	Textile articles including fabrics, laminates and non-woven fabrics
	Garments and other finished textile articles
Down/feather	Down and feather articles
Leather	Leather articles
Polymer parts	Plastic articles
	Rubber articles
Metal parts	Basic metals, including alloys
	Fabricated metal articles

2.12 Several

When a substance group is not defined by a single CAS number, the field CAS Number contain the entry “Several”. Several does not in every case mean that the whole substance group is restricted (e.g. aldehydes, amines), in case of a restriction on the whole substance group, this is reflected by an entry for the limit or a corresponding comment. For substance groups, especially for big ones, some or all members are listed in Annex I. When group members are listed in Annex I, this is indicated in the comment for the group.

2.13 Substance Groups

For better readability and to show the hierarchy of substance groups the RSL lists:

- Main substance groups (**bold, normal letter**)
- Substance groups (**bold,*italic letter***)
- Substance subgroups (*italic letter*)
- Single substance (normal letter)

2.14 Usage Ban

For several chemical substances or substance groups a usage ban is defined. For these substances or substance groups intentional use in manufacturing of articles is prohibited. This means that chemical products (e.g. colorants or textile auxiliaries) used for manufacturing of articles must not intentionally contain these substances or substance groups.
The aim of a usage ban is to avoid release of harmful substances to workers, the environment and to avoid occurrence in the manufactured article by applying the precautionary principle.

2.15 Usage Range

Usage ranges classify consumer goods according to their consumer safety relevance. Three usage ranges (A, B, C) are defined with A being the most stringent category concerning limit values / bans:

- Usage Range A: Next to skin use and baby articles (0 to 3 years)
- Usage Range B: Occasional skin contact
- Usage Range C: No skin contact

Common consumer goods and allocated usage ranges are listed in the separate document ‘Usage Ranges’.

3 Testing Methods

The testing methods listed in the table in chapter 5 are the recommended ones. The testing method column consists of two entries: sample preparation, e.g. extraction, digestion, derivatization, and the test method, e.g. GC-MS, LC-MS, etc.

Depending on their availability international or national standards are also given for several substances and these methods should be applied. Other accredited methods can only be applied if it can be verified that equivalent results are obtained.

If not stated otherwise all test methods shall define the total content of the substance in the article. High recovery rate and low uncertainty shall be achieved. Robustness of method shall be given. Details of the respective sample preparation methods can be found in the following table.

Sample preparation	Solvent(s)	Temperature (°C)	Time (min)	Other requirements
Extraction with KOH	Potassiumhydroxide (1M)	90	12-15h	Derivatization with Aceticanhydride
Extraction with MeOH	Methanol	70	60	Ultrasonic bath
Extraction with THF	Tetrahydrofuran	40	60	---
Extraction with DCM	Dichloromethane	40	60	Ultrasonic bath
Extraction with MTBE	Methyl-tert-butyl-ether	60	60	Ultrasonic bath
Extraction with Water	Deionized Water	---	---	---
Extraction with MeOH / Acetonitrile	Methanol / Acetonitrile (1:1)	70	30	Ultrasonic bath
Extraction with Potassiumcarbonate Solution	Potassiumcarbonate Solution	room temp.	60	Ultrasonic bath
Extraction with THF / Acetone	Tetrahydrofuran / Acetone	60	60	Ultrasonic bath Derivatization with Acetonitrile
Extraction with Acetone	Acetone	70	60	Ultrasonic bath
Extraction with Hexane / Dichloroethane	Hexane / Dichloroethane	70	60	---
ASE - Accelerated Solvent Extraction	Acetone / Hexane (1:1)	100	---	---
ASE - Accelerated Solvent Extraction	Ethylacetate	40	---	---
Soxhlet Extraction	Acetone / Hexane (1:1)	---	480	---
Headspace	---	120	45	---
DIN EN ISO 105-E04 (2013)	Acidic Sweat Solution	37	60	Textile to liquor ratio = 1:50

4 Scope and Validity

The document specifies restrictions (limits and bans) for chemical substances in:

- Articles and accessories made for different sectors of use (like textile and leather); see chapter 2.11.

4.1 Scope

The limits and restrictions shall be applied for each individual component of an intermediate or finished article. A component is each part of an article that can be distinguished according to the material composition and/or functionality and/or color and is easily mechanically separated from other components.

4.2 Validity

This document comes into effect on 1st of July 2024. It replaces the bluesign® Restricted Substances List(RSL), version 14.0 from 1st of July 2023.
This document is revised annually in line with latest legislation and research. It is supported by stakeholder comments of bluesign® SYSTEM PARTNER experts.
For all bluesign® SYSTEM PARTNERS: Unless otherwise stated, the revised sections will be implemented by 1st July 2025 at the latest

5 Consumer Safety Limits

This section informs on all consumer safety limits.
In addition to the restrictions and bans for chemical substances mentioned in Section 5.8, the restrictions defined in Sections 5.1 to 5.7 apply.

5.1 pH-Value

Test method: ISO 3071 (2020) (non-leather products), ISO 4045 (2018) (leather products).
Range: 4.0 to 7.5 (non-leather products), 3.2 to 4.5 (chrome-tanned leather products), 3.5 to 7.9 (other leather products).

5.2 Odor

No unpleasant odor shall be emitted from the products. Test method: SNV 195 651.

5.3 Sensitizing Disperse Dyes

Disperse dyes (mainly used in PES dyeing) which are sensitizing and classified with the risk phrase H317 are not allowed for the usage range A.

5.4 Textiles Dyed with Disperse or Metal Complex Dyes

Disperse dyes and metal complex dyes may have a relevant consumer safety risk.
Therefore, special restrictions concerning color fastness to perspiration are defined: for textiles dyed with disperse or metal complex dyes, fastness to perspiration must be at least between 3 and 4. The goal should be ≥ 4. Test method: ISO 105-E04 (2013).

5.5 Color Fastness to Saliva and Perspiration

Testing of color fastness to saliva and perspiration can be relevant for articles with potential risk for mouthing and / or exposure to babies. Colors must be fast to saliva and perspiration. This corresponds to level 5 of the currently valid standard DIN 53160-1 (2010) (test with artificial saliva) and DIN 53160-2 (2010) (test with artificial sweat). The 5-step grey scale and its use for determining changes in color of textiles in color fastness tests are described in ISO 105-A02 (1993). Test methods: § 64 LFGB BVL B 82.10-1 in combination with DIN 53160-1 and -2.

5.6 Articles from recyled material

Textile recycling is an important factor for sustainability, but often a black box regarding the mix of (restricted) chemicals inside.
Instructions regarding the use of recycled materials are given in our guidance documents, the 'Guidance sheet Input stream management of non-chemical raw materials/intermediates at manufacturers' and the 'Guideline Input Stream Management at Manufacturers'.
To enable bluesign® APPROVED articles from recycled materials, bluesign reserves the right to accept in exceptional cases higher limits than given in this document under the precondition of legal compliance, consumer safety and proper input stream management.

5.7 PFAS phase-out

Following the bluesign PFAS phase out program there are specific restrictions and bans for PFAS based chemicals and articles:

- From July 2022 bluesign® FINDER registration of new PFAS containing chemicals was no longer possible.
- By July 2023 all bluesign® APPROVED PFAS containing chemicals were removed from the bluesign® FINDER.
- From July 2023 bluesign® GUIDE registration of new articles that were treated with PFAS containing chemicals was no longer possible
- Certain dyestuff with a CF3 group that formally fall under the PFAS definition and that were still listed in the bluesign® FINDER is subject to fast-track phase out. By 1st of July 2024 affected chemical products are removed from the bluesign® FINDER
- By January 2025 all bluesign® APPROVED articles that were treated with PFAS containing chemicals will be removed from the bluesign® GUIDE
- Exceptions might be possible, for more details see last version of the 'Guidance Sheet PFAS phase out'.

- Residual amounts of CF3-group containing dyestuff formulations which article manufacturers may still have in stock by 1st of July 2024 may be used up for producing bluesign® APPROVED articles. Latest by 1st of January 2026 articles and products that contain dyestuff with CF3 groups shall not be put on the market labelled as bluesign® APPROVED or bluesign® PRODUCT.

Analytical proof that PFAS chemicals are not included:
At first screening test for total Fluorine via combustion ion chromatography (EN14582 or ASTM 07359; Quantification Limit: 50 mg/kg). Screening test is followed by confirmatory testing on single substances in case of findings. Beside individual substance testing information from the supply chain on possible fluorine compounds shall be gathered.
bluesign follows the PFAS definition indicated in the general EU restriction proposal on PFAS which is based on the OECD definition:
Any substance that contains at least one fully fluorinated methyl (CF3-) or methylene (-CF2-) carbon atom (without any H/Cl/Br/I attached to it).
A substance that only contains the following structural elements is excluded from the scope of the restriction:
CF3-X or X-CF2-X', where X = -OR or -NRR' and X' = methyl (-CH3), methylene (-CH2-), an aromatic group, a carbonyl group (-C(O)-), -OR'', -SR'' or –NR''R''';
and where R/R'/R''/R''' is a hydrogen (-H), methyl (-CH3), methylene (-CH2-), an aromatic group or a carbonyl group (-C(O)-).
This definition might also affect substances that do not fall into the typical application of water/oil/stain repellents.

5.8. Restrictions and Bans for Chemical Substances

For easier comprehension and overview, the substances are grouped according to:

- Chemical composition (e.g. amines, isocyanates)
- Functionality (e.g. flame retardants, solvents)
- EHS-properties / risks (e.g. ozone depleting substances)

Some of the substances may be relevant for more than one group; in such cases the substance is listed in the most relevant group. Annex I lists individual substances that belong to substance groups. Sometimes reference is made to details listed in the BSSL.

6 Restricted substance

6.1 Restricted substances

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Aldehydes									
Formaldehyde	50-00-0	Textiles Down/feather Polymer parts Metal parts	Limitation	15	75	300	mg/kg	ISO 14184-1 (2011)	
		Leather	Limitation	15	75	300	mg/kg	EN ISO 17226 (2019) with EN ISO 17226-1 (2021) confirmation method in case of interferences.	Test method: Alternatively EN ISO 17226-1 (2021) can be used on its own.

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Alkylphenolethoxylates (APEOs)									
Alkylphenolethoxylates (APEOs)	Several	All	Usage ban		100		mg/kg		For sum of all restricted APEO. Goal should be 100 mg/kg for APEOs + APs. Test methods: See NPEO/OPEO. For recycled materials a higher limit up to 500 mg/kg is accepted by Bluesign when it complies with the requirements under REACH.
Nonylphenol ethoxylates (NPEO)	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		100		mg/kg	EN ISO 18254-1:2016 with determination of APEO using LC/MS or LC/MS/MS	For sum of all allocated Members/Substances. Single Members/Substances listed in the BSSL Annex. (If traces above 10 ppm are detected the source of contamination has to be identified and phased out.)
	Several	Leather	Usage ban		100		mg/kg	Sample prep. and analysis using EN ISO 18218-1:2015 with quantification acc. to EN ISO 18254-1:2016	
Octylphenol ethoxylates (OPEO)	Several		Usage ban		100		mg/kg		
	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		100		mg/kg	EN ISO 18254-1:2016 with determination of APEO using LC/MS or LC/MS/MS	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Alkylphenols (APs)									
Alkylphenols (APs)	Several	All	Usage ban		10		mg/kg		For sum of all alkylphenols.
Octylphenol (OP), mixed isomers	Several	Textiles Leather	Usage ban		10		mg/kg	EN ISO 21084 (2019)	For sum of all allocated Members/Substances. Single Members/Substances listed in the BSSL Annex.
	Several	Down/feather Polymer parts Metal parts	Usage ban		10		mg/kg	EN ISO 21084 (2019), modified // 1 g sample / 20 ml THF with Sonication for 60 min at 70°C	
Nonylphenol (NP), mixed isomers	Several	Textiles Leather	Usage ban		10		mg/kg	EN ISO 21084 (2019)	
	Several	Down/feather Polymer parts Metal parts	Usage ban		10		mg/kg	EN ISO 21084 (2019), modified // 1 g sample / 20 ml THF with Sonication for 60 min at 70°C	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Amines									
Anilines, its salts and compounds	Several								
Aniline - free content	62-53-3	Leather	Usage ban		30		mg/kg	EN ISO 17234-1 (2020)	In case aniline is detected, the test needs to be repeated without addition of sodium dithionite.
		Textiles Polymer parts	Usage ban		30		mg/kg	EN ISO 14362-1 (2017)	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Arylamines									
Arylamines	Several	Leather	Usage ban					EN ISO 17234-1 (2020) EN ISO 17234-2 (2011) // for azo colorants which may release 4-Aminoazobenzene	Usage ban 20 mg/kg for every allocated arylamine and its corresponding salts (as substance for example in PU or by reductive cleavage of azo colorants)
	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban					EN ISO 14362-1 (2017) EN ISO 14362-3 (2017) // for azo colorants which may release 4-Aminoazobenzene	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Biocides									
Dimethylfumarate	624-49-7	All	Usage ban	0.1			mg/kg	ISO 16186 (2021)	
Pyrithione zinc	13463-41-7		Usage ban	10			mg/kg	DIN EN 16711-1 (2016) // Total content	Testing: Zn metal content, in case of positive result further testing with CE/ICP-MS.
o-Phenylphenol and its salts	Several	Leather	Limitation	50	100	200	mg/kg	DIN 50009 (2021)	
	Several	Textiles	Limitation	50			mg/kg		

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Chlorinated Benzenes and Toluenes									
Chlorinated Benzenes and Toluenes	Several	All	Usage ban	5.0			mg/kg	EN 17137 (2018)	For sum of all allocated chlorinated benzenes and toluenes. Additional regulation for each allocated Member/Substance - Usage ban 1.0 mg/kg.

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Chlorinated Phenols									
Trichlorophenol, all isomers	*25167-82-2*	All	Usage ban	0.05	0.5	0.5	mg/kg		For sum of all allocated TriCPs.
Tetrachlorophenol, its salts and compounds	*25167-83-3*		Usage ban	0.05	0.5	0.5	mg/kg		For sum of all allocated TeCPs.
Pentachlorophenol, its salts, esters and compounds	Several		Usage ban	0.05	0.5	0.5	mg/kg		For sum of all allocated PCPs.
Mono- and Dichlorophenols	Several		Usage ban	1.0			mg/kg	DIN 50009 (2021) EN ISO 17070 (Leather)	For sum of all allocated Mono- and DiCPs.

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Colorants									
Colorants with carcinogenic potential	Several	All	Usage ban					DIN 54231 (2022)	Usage ban 20 mg/kg for every allocated Member/Substance
Colorants with allergenic potential	Several		Usage ban						
Colorants banned for other reasons	Several		Usage ban						

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Dioxins and Furans									
Dioxins and Furans - Group 3	Several	All	Usage ban	95			µg/kg	EPA 8290A	For sum of all allocated Members/Substances to Group 3 - official regulation for sum of all allocated Members/Substances to Group 1, 2 and 3 - 100 µg/kg. Single substances listed in Annex.
Dioxins and Furans - Group 1 and 2	Several		Usage ban	5.0			µg/kg		For sum of all allocated Members/Substances to Group 1 and 2. Single substances listed in Annex.
Dioxins and Furans - Group 1	Several		Usage ban	1.0			µg/kg		For sum of all allocated Members/Substances to Group 1. Single substances listed in Annex.
Dioxins and Furans - Group 4 and 5	Several		Usage ban	5.0			µg/kg		For sum of all allocated Members/Substances to Group 4 and 5. Single substances listed in Annex.
Dioxins and Furans - Group 4	Several		Usage ban	1.0			µg/kg		For sum of all allocated Members/Substances to Group 4. Single substances listed in Annex.

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Fibers									
Asbestos	Several	All	Usage ban					REM/EDX BGI 505-46 U.S. EPA/600/R-93/116	For all allocated Substances/Members. Usage ban // Not detected. Single substances listed in Annex.

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Flame retardants									
Tetrabromobisphenol A - (TBBP A)	79-94-7	All	Usage ban		5.0		mg/kg	EN ISO 17881-1 (2016)	
Tetrabromobisphenol A bis(2,3-dibromopropylether)	21850-44-2		Usage ban		5.0		mg/kg		
Tri(aziridin-1-yl) phosphine oxide - (TEPA)	545-55-1		Usage ban		5.0		mg/kg	EN ISO 17881-2 (2016)	
Bis(2,3-dibromopropyl) phosphate - (BDBPP)	5412-25-9		Usage ban		5.0		mg/kg		
Trimethyl phosphate	512-56-1		Usage ban		5.0		mg/kg		
Tri-o-cresyl phosphate	78-30-8		Usage ban		5.0		mg/kg		
Tris(methylphenyl) phosphate	1330-78-5		Usage ban		5.0		mg/kg		
Tris(2-chloroethyl) phosphate - (TCEP)	115-96-8		Usage ban		5.0		mg/kg	ISO 17881-2 (2016)	
Tris-(2-chloro-1-methylethyl) phosphate - (TCPP)	13674-84-5		Usage ban		5.0		mg/kg		
Tris-[2-chloro-1-(chloromethyl)ethyl] phosphate - (TDCP or TDCPP)	13674-87-8		Usage ban		5.0		mg/kg		
Tris(2,3-dibromopropyl) phosphate - (TRIS)	126-72-7		Usage ban		5.0		mg/kg		
Trixylyl phosphate - (TXP)	25155-23-1		Usage ban		5.0		mg/kg		
Brominated alkyl alcohols	Several								
2,2-Bis(bromomethyl)-1,3-propanediol - (BBMP)	3296-90-0	All	Usage ban		5.0		mg/kg	EN ISO 17881-1 (2016)	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Flame retardants									
2,3-Dibromopropan-1-ol - (2,3-DBPA)	96-13-9		Usage ban		5.0		mg/kg		
1-Propanol, 2,2-dimethyl-, tribromo deriv.	36483-57-5 1522-92-5		Usage ban		5.0		mg/kg		
Chlorinated paraffins, all chain lengths	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban					ISO 22818 (2021)	Usage ban 5.0 mg/kg for every allocated group.
	Several	Leather	Usage ban					ISO 18219 (2021)	Usage ban 100 mg/kg for every allocated group.
Hexabromocyclododecan, all isomers - group for all major diastereoisomers identified	Several	All	Usage ban		5.0		mg/kg	EN ISO 17881-1 (2016)	
Polybrominated diphenyl ethanes	Several								
Decabromodiphenylethane (DBDPE)	84852-53-9	All	Usage ban		5.0		mg/kg	EN ISO 17881-1 (2016)	
Polybrominated diphenyl ethers	Several		Usage ban						Usage ban 5.0 mg/kg for every allocated Member/Substance

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Glycols									
Bis(2-methoxyethyl) ether	111-96-6	Textiles Down/feather Leather Metal parts Rubber articles	Usage ban		5.0		mg/kg	GC-MS // Extraction with Methanol	
		Plastic article	Usage ban		5.0		mg/kg	GC-MS // 2-Step extraction with Tetrahydrofuran and Methanol	
2-Ethoxyethanol	110-80-5	Textiles Down/feather Leather Metal parts Rubber articles	Usage ban		5.0		mg/kg	GC-MS // Extraction with Methanol	
		Plastic article	Usage ban		5.0		mg/kg	GC-MS // 2-Step extraction with Tetrahydrofuran and Methanol	
2-Ethoxyethyl acetate	111-15-9	Textiles Down/feather Leather Metal parts Rubber articles	Usage ban		5.0		mg/kg	GC-MS // Extraction with Methanol	
		Plastic article	Usage ban		5.0		mg/kg	GC-MS // 2-Step extraction with Tetrahydrofuran and Methanol	
Ethylene glycol dimethyl ether	110-71-4	Textiles Down/feather Leather Metal parts Rubber articles	Usage ban		5.0		mg/kg	GC-MS // Extraction with Methanol	
		Plastic article	Usage ban		5.0		mg/kg	GC-MS // 2-Step extraction with Tetrahydrofuran and Methanol	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Glycols									
2-Methoxyethanol	109-86-4	Textiles Down/feather Leather Metal parts Rubber articles	Usage ban		5.0		mg/kg	GC-MS // Extraction with Methanol	
		Plastic article	Usage ban		5.0		mg/kg	GC-MS // 2-Step extraction with Tetrahydrofuran and Methanol	
2-Methoxyethyl acetate	110-49-6	Textiles Down/feather Leather Metal parts Rubber articles	Usage ban		5.0		mg/kg	GC-MS // Extraction with Methanol	
		Plastic article	Usage ban		5.0		mg/kg	GC-MS // 2-Step extraction with Tetrahydrofuran and Methanol	
2-Methoxy-1-propanol	1589-47-5	Textiles Down/feather Leather Metal parts Rubber articles	Usage ban		5.0		mg/kg	GC-MS // Extraction with Methanol	
		Plastic article	Usage ban		5.0		mg/kg	GC-MS // 2-Step extraction with Tetrahydrofuran and Methanol	
2-Methoxypropyl acetate	70657-70-4	Textiles Down/feather Leather Metal parts Rubber articles	Usage ban		5.0		mg/kg	GC-MS // Extraction with Methanol	
		Plastic article	Usage ban		5.0		mg/kg	GC-MS // 2-Step extraction with Tetrahydrofuran and Methanol	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Glycols									
Triethylene glycol dimethyl ether	112-49-2	Textiles Down/feather Leather Metal parts Rubber articles	Usage ban		5.0		mg/kg	GC-MS // Extraction with Methanol	
		Plastic article	Usage ban		5.0		mg/kg	GC-MS // 2-Step extraction with Tetrahydrofuran and Methanol	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Halogenated Biphenyls, halogenated Terphenyls and halogenated Naphthalenes									
Polybrominated Biphenyls	***59536-65-1***	All	Usage ban		5.0		mg/kg	EN ISO 17881-1 (2016)	For sum of all allocated Members/Substances.
Polychlorinated Biphenyls	***1336-36-3***		Usage ban		1.0		mg/kg	ISO/TR 17881-3 (2018)	
Polychlorinated Terphenyls	***61788-33-8***		Usage ban		1.0		mg/kg		
Polybrominated Terphenyls	Several		Usage ban		1.0		mg/kg	EN ISO 17881-1 (2016)	
Polychlorinated Naphthalenes	Several		Usage ban					ISO/TR 17881-3 (2018)	Usage ban 1.0 mg/kg for every allocated Member/Substance
Polybrominated Naphthalenes	Several		Usage ban		1.0		mg/kg	EN ISO 17881-1 (2016)	For sum of all allocated Members/Substances.

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Halogenated Diarylalkanes									
Halogenated Diarylalkanes	Several	All	Usage ban					GC-MS // Extraction following DIN EN 62321-6 (2016)	Usage ban // 1.0 mg/kg for every allocated Member/Substance

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Isocyanates									
Isocyanates	Several	All	Limitation	1.0			mg/kg	EN 13130-8 (2004)	Free content applies to sum of all allocated isocyanates

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Metals									
Antimony, its salts and compounds	Several								
Antimony - as content	7440-36-0	Leather	Limitation	5	10	10	mg/kg	EN ISO 17072-1 (2019) // Acidic sweat solution	As extractable metal content // Usage as flame retardant: bluesign® CRITERIA for flame retardants have to be followed.
		Fibers/yarns	Limitation	260			mg/kg	DIN EN 16711-1 (2016) // Total content	As total metal content // valid for polyester fibers (also dope dyed), but not for finished polyester textiles.
		Down/feather Polymer parts Metal parts	Limitation	60			mg/kg	EN 71-3 (2019) // Acidic solution migration simulating gastric juices DIN EN ISO 17294-2 (2017) DIN EN ISO 11885 (2009)	As extractable metal content // Usage as flame retardant: bluesign® CRITERIA for flame retardants have to be followed.
		Textiles	Limitation	5	10	10	mg/kg	DIN EN 16711-2 (2016) // Acidic sweat solution	
Arsenic, its salts and compounds	Several								
Arsenic - as content	7440-38-2	Textiles Down/feather Polymer parts Metal parts	Usage ban	10			mg/kg	DIN EN 16711-1 (2016) // Total content	As total metal content . Single substances listed in the BSSL Annex.
			Usage ban	0.2			mg/kg	DIN EN 16711-2 (2016) // Acidic sweat solution	As extractable metal content. Single substances listed in the BSSL Annex.
		Leather	Usage ban	0.2			mg/kg	EN ISO 17072-1 (2019) // Acidic sweat solution	As extractable metal content . Single substances listed in the BSSL Annex.
			Usage ban	10			mg/kg	EN ISO 17072-2 (2019) // Total content	As total metal content . Single substances listed in the BSSL Annex.
Barium, its salts and compounds	Several								

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Metals									
Barium - as content	7440-39-3	All	Limitation		1000		mg/kg	EN 71-3 (2019) // Acidic solution migration simulating gastric juices DIN EN ISO 17294-2 (2017) DIN EN ISO 11885 (2009)	As extractable metal content. Single substances listed in the BSSL Annex.
Cadmium, its salts and compounds	Several								
Cadmium - as content	7440-43-9	Textiles Down/feather Polymer parts	Usage ban		0.1		mg/kg	DIN EN 16711-2 (2016) // Acidic sweat solution	As extractable metal content. Single substances listed in the BSSL Annex.
		Leather	Usage ban		40		mg/kg	EN ISO 17072-2 (2019) // Total content	As total metal content. Single substances listed in the BSSL Annex.
		Textiles Down/feather Polymer parts	Usage ban		40		mg/kg	DIN EN 16711-1 (2016) // Total content	
		Metal parts	Usage ban		40		mg/kg		
		Leather	Usage ban		0.1		mg/kg	EN ISO 17072-1 (2019) // Acidic sweat solution	As extractable metal content. Single substances listed in the BSSL Annex.
Chromium, its salts and compounds - except Chromium VI, its salts and compounds	Several								
Chromium - as content	7440-47-3	Textiles	Limitation		0.5		mg/kg	DIN EN 16711-2 (2016) // Acidic sweat solution	As extractable metal content // for textiles dyed with chromium containing metal complex dyes A: 1.0 // B: 2.0 // C: 2.0 mg/kg.

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Metals									
		Down/feather Polymer parts Metal parts	Limitation	60			mg/kg	EN 71-3 (2019) // Acidic solution migration simulating gastric juices DIN EN ISO 17294-2 (2017) DIN EN ISO 11885 (2009)	As extractable metal content. If products are covered with a metal layer, including a chromium layer, coating must be constantly in good condition.
Chromium VI, its salts and compounds	Several								
Chromium VI - as content	18540-29-9	Leather	Usage ban	3.0			mg/kg	DIN EN ISO 4044 (2017) EN ISO 17075-1 (2017) EN ISO 17075-2 (2017)	As extractable metal content. Thermal pre-ageing test required in advance: ISO 10195:2018. Single substances listed in the BSSL Annex.
		Textiles Down/feather Polymer parts	Usage ban	0.5			mg/kg	EN ISO 17075-1 (2017)	As extractable metal content. Single substances listed in the BSSL Annex.
		Metal parts	Usage ban	0.5			mg/kg	EN 62321-7-1 (2016)	
Cobalt, its salts and compounds	Several								
Cobalt - as content	7440-48-4	Down/feather Polymer parts Metal parts	Limitation	1.0	4.0	4.0	mg/kg	DIN EN 16711-2 (2016) // Acidic sweat solution	As extractable metal content.
		Leather	Limitation	1.0			mg/kg	EN ISO 17072-1 (2019) // Acidic sweat solution	As extractable metal content // exception for articles dyed with cobalt containing metal complex dyes A: 1.0 // B: 4.0 // C: 4.0 mg/kg. Single substances listed in the BSSL Annex.
		Textiles	Limitation	1.0			mg/kg	DIN EN 16711-2 (2016) // Acidic sweat solution	
Copper, its salts and compounds	Several								
Copper - as content	7440-50-8	Textiles	Limitation	25	50	50	mg/kg	DIN EN 16711-2 (2016) // Acidic sweat solution	As extractable metal content.

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Metals									
		Leather	Limitation	25	50	50	mg/kg	EN ISO 17072-1 (2019) // Acidic sweat solution	
Lead, its salts and compounds	Several								
Lead - as content	7439-92-1	Metal parts	Usage ban	90			mg/kg	DIN EN 16711-1 (2016) // Total content	As total metal content. Single substances listed in the BSSL Annex.
		Leather	Usage ban	40			mg/kg	EN ISO 17072-2 (2019) // Total content	
			Usage ban	0.2	1.0	1.0	mg/kg	EN ISO 17072-1 (2019) // Acidic sweat solution	As extractable metal content. Single substances listed in the BSSL Annex.
		Textiles Down/feather Polymer parts	Usage ban	40			mg/kg	DIN EN 16711-1 (2016) // Total content	As total metal content. Single substances listed in the BSSL Annex.
			Usage ban	0.2	1.0	1.0	mg/kg	DIN EN 16711-2 (2016) // Acidic sweat solution	As extractable metal content. Single substances listed in the BSSL Annex.
Mercury, its salts and compounds	Several								
Mercury - as content	7439-97-6	Metal parts	Usage ban	60			mg/kg	EN 71-3 (2019) // Acidic solution migration simulating gastric juices EN ISO 12846 (2012)	As extractable metal content.
		Leather	Usage ban	0.02			mg/kg	EN ISO 17072-1 (2019) // Acidic sweat solution	
		Textiles Down/feather Polymer parts	Usage ban	0.02			mg/kg	DIN EN 16711-2 (2016) // Acidic sweat solution	
Nickel, its salts and compounds	Several								

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Metals									
Nickel - as content	7440-02-0	Down/feather Leather	Limitation	1.0			mg/kg	EN ISO 17072-1 (2019) // Acidic sweat solution	As extractable metal content // exception for articles dyed with nickel containing metal complex dyes A: 1.0 // B: 4.0 // C: 4.0 mg/kg.
		Polymer parts Metal parts	Usage ban	0.5	0.5		$\mu g/cm^2$/week	EN 12472 (2020) EN 1811 (2011) + A1 (2015) // Release	Usage ban for A and B // Release // as metal content.
		Textiles	Limitation	1.0			mg/kg	DIN EN 16711-2 (2016) // Acidic sweat solution	As extractable metal content // exception for articles dyed with nickel containing metal complex dyes A: 1.0 // B: 4.0 // C: 4.0 mg/kg.

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Monomers									
Acrylamide	79-06-1	All	Usage ban	1.0			mg/kg	CEN/TS 13130-10 (2005)	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Other Chemical Substances									
Acetophenone	98-86-2	All	Limitation	20			mg/kg	GC-MS // Extraction with Methanol	
Azodicarbonamide - (ADCA)	123-77-3		Usage ban	100	200	200	mg/kg	GC-MS // Solvent extraction LC-MS // Solvent extraction LC-DAD // Solvent extraction	Not allowed for bluesign® APPROVED chemicals, however the usage on-site is tolerated, if no feasible alternative for foaming is available. Proof that consumer safety limit for ADCA is kept via finished article testing (e.g. footwear sole).
Benzyl chloride	100-44-7		Usage ban	1.0			mg/kg	GC-MS // Extraction with Dichloromethane	
Bisphenol A	80-05-7		Usage ban	1.0	10	10	mg/kg	LC-MS // LC-MS/MS // LC-PDA // Extraction with Methanol or Methanol: Tetrahydrofuran (1:1)	
Bisphenol AF	1478-61-1		Usage ban	100			mg/kg		Articles need to comply latest 01 July 2025.
Bisphenol F	620-92-8		Limitation	100			mg/kg	LC-MS // LC-MS/MS // LC-PDA // Extraction with Methanol or Methanol: Tetrahydrofuran (1:1)	Reporting limit: 10 ppm. Specific limit for leather tanning and textile aftertreatment: 500 ppm. Articles need to comply latest 01 July 2025
Bisphenol S	80-09-1		Usage ban	100			mg/kg	LC-MS // LC-MS/MS // LC-PDA // Extraction with Methanol or Methanol: Tetrahydrofuran (1:1)	Reporting limit: 10 ppm. Specific limit for leather tanning and textile aftertreatment: 500 ppm. Articles need to comply latest 01 July 2025.
Formamide	75-12-7	Textiles	Usage ban	50	50	200	mg/kg	EN 17131 (2019)	
		Down/feather Leather Polymer parts Metal parts	Usage ban	50	50	200	mg/kg	ISO 16189 (2021)	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Other Chemical Substances									
Isoquinoline	119-65-3	All	Usage ban		50		mg/kg	LC-MS/MS // Extraction with Methanol LC-DAD // Extraction with Tetrahydrofuran LC-MS/MS // Extraction with Tetrahydrofuran LC-DAD // Extraction with Methanol	
Phenol	108-95-2		Limitation	20	50	100	mg/kg	GC-MS // Extraction with Methanol LC-MS // Extraction with Methanol	
2-Phenyl-2-propanol	617-94-7		Limitation	10	50	50	mg/kg	GC-MS // Extraction with Methanol	
Quinoline	91-22-5		Usage ban		50		mg/kg	LC-MS/MS // Extraction with Methanol LC-DAD // Extraction with Tetrahydrofuran LC-MS/MS // Extraction with Tetrahydrofuran LC-DAD // Extraction with Methanol	
Cresol, all isomers	***1319-77-3***		Usage ban					BVL B 82.02-8 (2001) // Extraction with Potassium hydroxide DIN EN ISO 17070 (2015) // Extraction with Potassium hydroxide	Usage ban 10 mg/kg for each isomer
o-Cresol	95-48-7		Usage ban		10		mg/kg		
m-Cresol	108-39-4		Usage ban		10		mg/kg		
p-Cresol	106-44-5		Usage ban		10		mg/kg		
Siloxanes	Several		Usage ban					GC // With reference to TEGEWA method (2021)	Usage ban for every allocated Member/Substance
D4-Siloxane (Octamethylcyclotetrasiloxane)	556-67-2		Usage ban		30		mg/kg		

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Other Chemical Substances									
D5-Siloxane (Decamethylcyclopentasiloxane)	541-02-6		Usage ban		200		mg/kg		
D6-Siloxane (Dodecamethylcyclohexasiloxane)	540-97-6		Usage ban		200		mg/kg		

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Ozone Depleting Substances (according to Regulation (EC) No 1005/2009)									
Ozone Depleting Substances (according to Regulation (EC) No 1005/2009)	Several	All	Usage ban					GC-MS // Headspace	Usage ban for direct use in manufacturing of articles // 0.1 mg/kg for every allocated Member/Substance
Ozone depleting substances (CFCs) class I	Several		Usage ban						Usage ban for direct use in manufacturing of articles // 0.1 mg/kg for every allocated Member/Substance Single substances listed in Annex
Ozone depleting substances (CFCs) class II	Several		Usage ban						

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Pesticides									
Pesticides	Several	All	Limitation		0.5		mg/kg	GC-MS // ASE with Acetone/Hexane LC-MS // ASE with Acetone/Hexane GC-MS // Soxhlet Extraction with Acetone/Hexane LC-MS // Soxhlet Extraction with Acetone/Hexane	Applies to total sum of all allocated members/substances. Single substances listed in Annex.

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
PFAS (Poly- and perfluoroalkyl substances)									
PFAS (Poly- and perfluoroalkyl substances)	Several	All	Usage ban		50		mg/kg	EN 14582 (total fluorine) ASTM 07359 (total fluorine)	Limit refers to total fluorine content. Exceptions might be possible for specific uses, see "Guidance Sheet PFAS phase out" and PFAS statement in section 5.6. Articles need to comply latest 01 January 2025.
Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine		Leather	Usage ban		100		µg/kg	EN ISO 23702-1 (2023)	
		Textiles Down/feather Polymer parts Metal parts	Usage ban		100		µg/kg	CEN/TS 15968 (2010) prEN 17681-1:2023	
Perfluorohexane sulfonic acid and its derivatives	Several	All	Usage ban						Single substances listed in Annex.
Perfluorohexane sulfonic acid and its salts	Several	Leather	Usage ban		20		µg/kg	EN ISO 23702-1 (2023)	
	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		20		µg/kg	CEN/TS 15968 (2010) prEN 17681-1:2023	
Perfluorohexane sulfon amides	Several		Usage ban		20		µg/kg		
	Several	Leather	Usage ban		20		µg/kg	EN ISO 23702-1 (2023)	
Perfluorohexane sulfon amidoethanols	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		20		µg/kg	CEN/TS 15968 (2010) prEN 17681-1:2023	
	Several	Leather	Usage ban		20		µg/kg	EN ISO 23702-1 (2023)	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
PFAS (Poly- and perfluoroalkyl substances)									
Perfluorohexane sulfon amidoethyl (meth)acrylates	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		20		µg/kg	CEN/TS 15968 (2010) prEN 17681-1:2023	
	Several	Leather	Usage ban		20		µg/kg	EN ISO 23702-1 (2023)	
Perfluorohexane sulfon halides	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		20		µg/kg	CEN/TS 15968 (2010) prEN 17681-1:2023	
	Several	Leather	Usage ban		20		µg/kg	EN ISO 23702-1 (2023)	
Perfluorohexane sulfon polymers	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		20		µg/kg	CEN/TS 15968 (2010) prEN 17681-1:2023	
	Several	Leather	Usage ban		20		µg/kg	EN ISO 23702-1 (2023)	
Perfluorooctane sulfonic acid and its derivatives	Several		Usage ban		1.0		µg/m²		Single substances listed in Annex.
	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		1.0		µg/m²	CEN/TS 15968 (2010) prEN 17681-1:2023	
Perfluorohexanoic acid and its salts	Several	Leather	Usage ban		25		µg/kg	EN ISO 23702-1 (2023)	Usage ban Single substances listed in Annex
	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		25		µg/kg	CEN/TS 15968 (2010) prEN 17681-1:2023	
Perfluoroheptanoic acid and its salts	Several		Usage ban		50		µg/kg		
	Several		Usage ban		50		µg/kg		

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
PFAS (Poly- and perfluoroalkyl substances)									
Perfluorooctanoic acid and its salts	Several	Leather	Usage ban		25		µg/kg	EN ISO 23702-1 (2023)	Usage ban Single substances listed in Annex
	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		25		µg/kg	CEN/TS 15968 (2010) prEN 17681-1:2023	
Perfluorocarboxylic acids (C9-C14) and its salts	Several	Leather	Usage ban		25		µg/kg	EN ISO 23702-1 (2023)	For sum of all allocated Members/Substances.
	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		25		µg/kg	CEN/TS 15968 (2010) prEN 17681-1:2023	
Perfluorohexanoic acid related substances	Several	Leather	Usage ban		1000		µg/kg	EN ISO 23702-1 (2023)	Usage ban Single substances listed in Annex
	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		1000		µg/kg	CEN/TS 15968 (2010) prEN 17681-1:2023	
Perfluorooctanoic acid related substances	Several	Leather	Usage ban		1000		µg/kg	EN ISO 23702-1 (2023)	For the sum of PFOA-related substances. Single substances listed in Annex.
	Several	Textiles Down/feather Polymer parts Metal parts	Usage ban		1000		µg/kg	CEN/TS 15968 (2010) prEN 17681-1:2023	
Perfluorocarboxylic acid (C9-C14) related substances	Several		Usage ban		260		µg/kg		
	Several	Leather	Usage ban		260		µg/kg	EN ISO 23702-1 (2023)	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Plasticizers									
Phthalic acid esters	Several	Textiles	Usage ban					CPSC-CH-C1001-09.4 EN ISO 14389 (2014)	Usage ban 50 mg/kg for every allocated Member/Substance
	Several	Down/feather Leather Polymer parts Metal parts	Usage ban					CPSC-CH-C1001-09.4	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Polyaromatic hydrocarbons (PAHs)									
Polyaromatic hydrocarbons (PAHs)	Several	All	Usage ban	10			mg/kg	AfPS GS 2019	For sum of all allocated PAHs. Alternative test methods: EN17132 or ISO 16190.
Benzo(a)pyrene	50-32-8		Usage ban	0.2			mg/kg		
Benzo(e)pyrene	192-97-2		Usage ban	0.5	1.0	1.0	mg/kg		
Benzo(a)anthracene	56-55-3		Usage ban	0.5	1.0	1.0	mg/kg		
Benzo(b)fluoroanthene	205-99-2		Usage ban	0.5	1.0	1.0	mg/kg		
Benzo(j)fluoroanthene	205-82-3		Usage ban	0.5	1.0	1.0	mg/kg		
Benzo(k)fluoroanthene	207-08-9		Usage ban	0.5	1.0	1.0	mg/kg		
Chrysene	218-01-9		Usage ban	0.5	1.0	1.0	mg/kg		
Dibenzo(a,h)anthrene	53-70-3		Usage ban	0.5	1.0	1.0	mg/kg		

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Polymers									
Polyvinyl chloride	9002-86-2	All	Usage ban					Total chlorine (EN 14582) // FTIR (when chlorine detected)	Usage ban for usage range A and B - Not detected // for usage range C: for special applications bluesign technologies has the right to make an individual decision.

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Solvents									
Benzene	71-43-2	All	Usage ban		5.0		mg/kg	VDA 278 (2011)	
1,2-Dichloroethane	107-06-2		Usage ban		1.0		mg/kg	GC-MS // Headspace	
Dichloromethane	75-09-2		Usage ban		5.0		mg/kg		Exception is valid for chemicals used in paint stripping process in closed systems
N,N-Dimethylacetamide - (DMAc)	127-19-5	Down/feather Polymer parts Metal parts	Usage ban		5.0		mg/kg	ISO 16189 (2021)	
		Leather	Usage ban		5.0		mg/kg	EN ISO 19070 (2016)	
		Textiles	Usage ban		5.0		mg/kg	EN 17131 (2019)	Exceptions defined: Articles produced by solvent coating, lamination or fiber manufacturing - A/B/C 50 mg/kg. As residual fiber solvent in elastane and PAN fibers with Monitoring status - A: 10 mg/kg, B/C: 50 mg/kg. Aramid fibers: For special applications bluesign technologies has the right to make an individual decision.
N,N-Dimethylformamide - (DMF)	68-12-2	Down/feather Polymer parts Metal parts	Usage ban		5.0		mg/kg	ISO 16189 (2021)	
		Leather	Usage ban		5.0		mg/kg	EN ISO 19070 (2016)	

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Solvents									
		Textiles	Usage ban	5.0			mg/kg	EN 17131 (2019)	Exceptions: Specific limits are defined for articles produced by lamination and fiber manufacturing - A/B/C = 50 mg/kg or by solvent coating, A/B/C = 50/50/250 mg/kg. PAN fibers: For special applications Bluesign has the right to make individual decisions.
N-Ethyl-2-pyrrolidone - (NEP)	2687-91-4		Usage ban	10	10	100	mg/kg		
		Leather	Usage ban	10	10	100	mg/kg	EN ISO 19070 (2016)	
		Down/feather Polymer parts Metal parts	Usage ban	10	10	100	mg/kg	ISO 16189 (2021)	
N-Methylpyrrolidone - (NMP)	872-50-4	Textiles	Usage ban	10	10	100	mg/kg	EN 17131 (2019)	Exception is valid for Aramid fibers: for special applications bluesign technologies has the right to make an individual decision
		Leather	Usage ban	10	10	100	mg/kg	EN ISO 19070 (2016)	
		Down/feather Polymer parts Metal parts	Usage ban	10	10	100	mg/kg	ISO 16189 (2021)	
Tetrachloroethylene	127-18-4	All	Usage ban	1.0			mg/kg	GC-MS // Headspace	Exception is valid for articles produced by dry cleaning process. Limit when used as solvent in dry cleaning: 10 mg/kg.
Toluene	108-88-3		Usage ban	10	50	50	mg/kg		Exception valid for solvent coating, laminating and painting/lacquering.
Trichloroethylene	79-01-6		Usage ban	5.0			mg/kg		

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Solvents									
Xylene, all isomers	***1330-20-7***		Usage ban	50	100	100	mg/kg		For sum of all isomers. Usage ban not valid for solvent coating, laminating and painting/lacquering. Limits valid for all articles.

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Tin-organic Compounds									
Methyltin compounds	Several								
Monomethyltin compounds - (MMT)	Several	All	Usage ban		1.0		mg/kg	CEN ISO/TS 16179 (2012) EN ISO 22744-1 (2020)	
Dimethyltin compounds - (DMT)	Several		Usage ban		0.5		mg/kg		
Trimethyltin compounds - (TMT)	Several		Usage ban		0.5		mg/kg		
Ethyltin compounds	Several								
Tetraethyltin compounds - (TeET)	Several	All	Usage ban		1.0		mg/kg	CEN ISO/TS 16179 (2012) EN ISO 22744-1 (2020)	
Propyltin compounds	Several								
Dipropyltin compounds - (DPT)	Several	All	Usage ban		1.0		mg/kg	CEN ISO/TS 16179 (2012) EN ISO 22744-1 (2020)	
Tripropyltin compounds - (TPT)	Several		Usage ban		0.5		mg/kg		
Butyltin compounds	Several								
Monobutyltin compounds - (MBT)	Several	All	Usage ban		1.0		mg/kg	CEN ISO/TS 16179 (2012) EN ISO 22744-1 (2020)	
Dibutyltin compounds - (DBT)	Several		Usage ban		1.0		mg/kg		
Tributyltin compounds - (TBT)	Several		Usage ban		0.5		mg/kg		
Tetrabutyltin compounds - (TeBT)	Several		Usage ban		0.5		mg/kg		

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
Tin-organic Compounds									
Hexyltin compounds	Several								
Tricyclohexyltin compounds - (TCyHT)	Several	All	Usage ban		0.5		mg/kg	CEN ISO/TS 16179 (2012) EN ISO 22744-1 (2020)	
Octyltin compounds	Several								
Monooctyltin compounds - (MOT)	Several	All	Usage ban		1.0		mg/kg	CEN ISO/TS 16179 (2012) EN ISO 22744-1 (2020)	
Dioctyltin compounds - (DOT)	Several		Usage ban		1.0		mg/kg		
Trioctyltin compounds - (TOT)	Several		Usage ban		0.5		mg/kg		
Tetraoctyltin compounds - (TeOT)	Several		Usage ban		0.5		mg/kg		
Phenyltin compounds	Several								
Monophenyltin compounds - (MPhT)	Several	All	Usage ban		1.0		mg/kg	CEN ISO/TS 16179 (2012) EN ISO 22744-1 (2020)	
Diphenyltin compounds - (DPhT)	Several		Usage ban		1.0		mg/kg		
Triphenyltin compounds - (TPhT)	Several		Usage ban		0.5		mg/kg		

Chemical Name	CAS Number	Sector Of Use	Limit type	A	B	C	Unit	Test Method	Comment
UV stabilizers									
UV-320	3846-71-7	All	Usage ban		1000		mg/kg	ISO 24040 // Extraction with Tetrahydrofuran // GC-MS	
UV-326	3896-11-5		Usage ban		1000		mg/kg		Articles need to comply latest 01 July 2026.
UV-327	3864-99-1		Usage ban		1000		mg/kg		
UV-328	25973-55-1		Usage ban		1000		mg/kg		
UV-329	3147-75-9		Usage ban		1000		mg/kg		Articles need to comply latest 01 July 2026.
UV-350	36437-37-3		Usage ban		1000		mg/kg		

6 Annex I Compilation of Individual Substances

The tables from Annex I list individual substances that belong to the following substance groups:

- Arylamines
- Biocides
- Chlorinated Benzenes and Toluenes
- Chlorinated Phenols
- Colorants
- Dioxins and Furans
- Fibers
- Flame Retardants
- Halogenated Diarylalkanes
- Isocyanates
- Pesticides
- PFAS (Poly- and perfluoroalkyl substances)
- Plasticizers
- Polyaromantic hydrocarbons (PAHs)

are listed

Limit values and test methods for the substance groups are provided in section 5.2.

Chemical Name	CAS Number
Arylamines	
o-Aminoazotoluene and its salts	Several
o-Aminoazotoluene	97-56-3
p-Aminoazobenzene and its salts	Several
p-Aminoazobenzene	60-09-3
4-Aminobiphenyl and its salts	Several
4-Aminobiphenyl	92-67-1
6-Amino-2-ethoxynaphthalene and its salts	Several
6-Amino-2-ethoxynaphthalene	293733-21-8
4-Amino-3-fluorophenol and its salts	Several
4-Amino-3-fluorophenol	399-95-1
4-Chloroaniline and its salts	Several
4-Chloroaniline	106-47-8
2,4-Diaminoanisole and its salts	Several
2,4-Diaminoanisole	615-05-4
2,4-Diaminoanisole sulphate	39156-41-7
4,4'-Diaminodiphenylmethane and its salts	Several
4,4'-Diaminodiphenylmethane	101-77-9
2,4-Diaminotoluene and its salts	Several
2,4-Diaminotoluene	95-80-7
4,4'-Methylenebis-(2-chloraniline) and its salts	Several
4,4'-Methylenebis-(2-chloraniline)	101-14-4
2-Naphthylamine and its salts	Several
2-Naphthylamine	91-59-8
2-Naphthylammonium acetate	553-00-4

Chemical Name	CAS Number
Anisidines and its salts	Several
Anisidine (o-, p-isomers)	29191-52-4
2-Anisidine and its salts	Several
2-Anisidine	90-04-0
Benzidines and its salts	Several
Benzidine and its salts	Several
Benzidine	92-87-5
Benzidine dihydrochloride	531-85-1
Benzidine, sulfate (1:1)	531-86-2
Benzidine, sulfate	21136-70-9
Benzidine acetate	36341-27-2
3,3'-Dimethylbenzidine and its salts	Several
3,3'-Dimethylbenzidine	119-93-7
3,3'-Dichlorobenzidine and its salts	Several
3,3'-Dichlorobenzidine	91-94-1
o-Dianisidines and its salts	Several
3,3'-Dimethoxybenzidine	119-90-4
Dianilines and its salts	Several
4,4'-Oxydianiline and its salts	Several
4,4'-Oxydianiline	101-80-4
4,4'-Thiodianiline and its salts	Several
4,4'-Thiodianiline	139-65-1
Toluidines and its salts	Several
p-Cresidine and its salts	Several
p-Cresidine	120-71-8

Chemical Name	CAS Number
m-Toluidine and its salts	Several
m-Toluidine	108-44-1
o-Toluidine and its salts	Several
o-Toluidine	95-53-4
p-Toluidine and its salts	Several
p-Toluidine	106-49-0
4,4'-Methylenedi-o-toluidine and its salts	Several
4,4'-Methylenedi-o-toluidine	838-88-0
Nitrotoluidines and its salts	Several
2-Amino-4-nitrotoluene and its salts	Several
2-Amino-4-nitrotoluene	99-55-8
Chlorotoluidines and its salts	Several
4-Chloro-2-toluidine and its salts	Several
4-Chloro-2-toluidine	95-69-2
4-Chloro-2-toluidine hydrochloride	3165-93-3
Trimethylanilines and its salts	Several
2,4,5-Trimethylaniline and its salts	Several
2,4,5-Trimethylaniline	137-17-7
2,4,5-Trimethylaniline hydrochloride	21436-97-5
Xylidines and its salts	Several
2,4-Xylidine and its salts	Several
2,4-Xylidine	95-68-1
2,6-Xylidine and its salts	Several
2,6-Xylidine	87-62-7

Chemical Name	CAS Number
Biocides	
o-Phenylphenol and its salts	Several
o-Phenylphenol	90-43-7
Chemical Name	**CAS Number**
Chlorinated Benzenes and Toluenes	
Chlorinated Benzenes	Several
Monochlorobenzene	108-90-7
Pentachlorobenzene	608-93-5
Hexachlorobenzene	118-74-1
Dichlorobenzenes, all isomers	Several
1,2-Dichlorobenzene	95-50-1
1,3-Dichlorobenzene	541-73-1
1,4-Dichlorobenzene	106-46-7
Trichlorobenzenes, all isomers	Several
1,2,3-Trichlorobenzene	87-61-6
1,2,4-Trichlorobenzene	120-82-1
1,3,5-Trichlorobenzene	108-70-3
Tetrachlorobenzenes, all isomers	Several
1,2,3,4-Tetrachlorobenzene	634-66-2
1,2,3,5-Tetrachlorobenzene	634-90-2
1,2,4,5-Tetrachlorobenzene	95-94-3
Chlorinated Toluenes	Several
Pentachlorotoluene	877-11-2
Chlorotoluene, unspecific mixture	25168-05-2
Monochlorotoluenes, all isomers	Several

Chemical Name	CAS Number
2-Chlorotoluene	95-49-8
3-Chlorotoluene	108-41-8
4-Chlorotoluene	106-43-4
Dichlorotoluenes, all isomers	Several
2,3-Dichlorotoluene	32768-54-0
2,4-Dichlorotoluene	95-73-8
2,5-Dichlorotoluene	19398-61-9
2,6-Dichlorotoluene	118-69-4
3,4-Dichlorotoluene	95-75-0
3,5-Dichlorotoluene	25186-47-4
Trichlorotoluenes, all isomers	Several
2,3,4-Trichlorotoluene	7359-72-0
2,3,6-Trichlorotoluene	2077-46-5
2,4,5-Trichlorotoluene	6639-30-1
2,4,6-Trichlorotoluene	23749-65-7
3,4,5-Trichlorotoluene	21472-86-6
a,a,a-Trichlorotoluene	98-07-7
Tetrachlorotoluenes, all isomers	Several
2,3,4,5-Tetrachlorotoluene	1006-32-2
2,3,5,6-Tetrachlorotoluene	1006-31-1
2,3,4,6-Tetrachlorotoluene	875-40-1
a,a,a,4-Tetrachlorotoluene	5216-25-1
a,a,a,2-Tetrachlorotoluene	2136-89-2
Chemical Name	**CAS Number**
Chlorinated Phenols	

Chemical Name	CAS Number
Trichlorophenol, all isomers	25167-82-2
2,3,4-Trichlorophenol	15950-66-0
2,3,5-Trichlorophenol	933-78-8
2,3,6-Trichlorophenol	933-75-5
2,4,5-Trichlorophenol	95-95-4
2,4,6-Trichlorophenol	88-06-2
3,4,5-Trichlorophenol	609-19-8
Tetrachlorophenol, its salts and compounds	25167-83-3
2,3,4,5-Tetrachlorophenol	4901-51-3
2,3,4,6-Tetrachlorophenol	58-90-2
2,3,5,6-Tetrachlorophenol	935-95-5
Pentachlorophenol, its salts, esters and compounds	Several
Pentachlorophenol	87-86-5
Mono- and Dichlorophenols	Several
Monochlorophenols, all isomers	25167-80-0
2-Chlorophenol	95-57-8
3-Chlorophenol	108-43-0
4-Chlorophenol	106-48-9
Dichlorophenols, all isomers	25167-81-1
2,3-Dichlorophenol	576-24-9
2,4-Dichlorophenol	120-83-2
2,5-Dichlorophenol	583-78-8
2,6-Dichlorophenol	87-65-0
3,4-Dichlorophenol	95-77-2
3,5-Dichlorophenol	591-35-5

Chemical Name	CAS Number
Colorants	
Colorants with carcinogenic potential	Several
Acid Red 26	3761-53-3
Leucomalachite green	129-73-7
Basic Red 9	569-61-9
Basic Violet 14	632-99-5
Direct Black 38	1937-37-7
Direct Blue 6	2602-46-2
Direct Brown 95	16071-86-6
Direct Red 28	573-58-0
Disperse Blue 1	2475-45-8
Disperse Orange 11	82-28-0
Disperse Yellow 3	2832-40-8
Pigment Yellow 34	1344-37-2
Pigment Red 104	12656-85-8
Solvent Red 80	6358-53-8
Solvent Violet 8 - with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	561-41-1
Solvent Yellow 2	60-11-7
Basic Green 4 - (Malachite Green)	Several
Malachite green	10309-95-2
Malachite green chloride	569-64-2
Malachite green oxalate	2437-29-8
Colorants with allergenic potential	Several
Disperse Blue 3	2475-46-9

Chemical Name	CAS Number
Disperse Blue 7	3179-90-6
Disperse Blue 26	3860-63-7
Disperse Blue 102	12222-97-8
Disperse Blue 106	12223-01-7
Disperse Blue 124	61951-51-7 15141-18-1
Disperse Brown 1	23355-64-8
Disperse Orange 1	2581-69-3
Disperse Orange 3	730-40-5
Disperse Red 1	2872-52-8
Disperse Red 11	2872-48-2
Disperse Red 17	3179-89-3
Disperse Yellow 1	119-15-3
Disperse Yellow 9	6373-73-5
Disperse Yellow 39	12236-29-2
Disperse Yellow 49	54824-37-2
Solvent Yellow 14	842-07-9
Disperse Blue 35	Several
Disperse Blue 35 [1]	12222-75-2
Disperse Blue 35 [2]	56524-77-7
Disperse Blue 35 B	56524-76-6
Disperse Orange 37/59/76	Several
Disperse Orange 37/59/76 [1]	12223-33-5
Disperse Orange 37/59/76 [2]	13301-61-6
Disperse Orange 37/59/76 [3]	51811-42-8

Chemical Name	CAS Number
Colorants banned for other reasons	Several
Acid Orange 24	1320-07-6
Acid Violet 49	1694-09-3
Basic Blue 26 - with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	2580-56-5
Basic Violet 1	8004-87-3
Direct Black 91	6739-62-4
Direct Blue 76	16143-79-6
Direct Blue 218	28407-37-6
Direct Yellow 1	6472-91-9
Disperse Yellow 23	6250-23-3
Disperse Orange 149	85136-74-9
Solvent Blue 4	6786-83-0
Basic Violet 3	Several
Basic Violet 3 [1]	548-62-9
Basic Violet 3 [2]	603-48-5
Basic Violet 3 [3]	14426-25-6
Basic Violet 3 - with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	548-62-9
Navy Blue: A mixture of: disodium (6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)(1-(5-chloro-2-oxidophenylazo)-2-naphtholato)chromate(1-); trisodium bis(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)chromat	Several
Disodium (6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)(1-(5-chloro-2-oxidophenylazo)-2-naphtholato)chromate(1-)	118685-33-9
Trisodium bis(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)chromat	

Chemical Name	CAS Number
Dioxins and Furans	
Dioxins and Furans - Group 3	Several
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0
Dioxins and Furans - Group 1 and 2	Several
Dioxins and Furans - Group 1	Several
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4
Dioxins and Furans - Group 2	Several
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5
Dioxins and Furans - Group 4 and 5	Several
Dioxins and Furans - Group 4	Several
2,3,7,8-Tetrabromodibenzo-p-dioxin	50585-41-6

Chemical Name	CAS Number
1,2,3,7,8-Pentabromodibenzo-p-dioxin	109333-34-8
2,3,7,8-Tetrabromodibenzofuran	67733-57-7
2,3,4,7,8-Pentabromodibenzofuran	131166-92-2
Dioxins and Furans - Group 5	Several
1,2,3,4,7,8-Hexabromodibenzo-p-dioxin	110999-44-5
1,2,3,6,7,8-Hexabromodibenzo-p-dioxin	110999-45-6
1,2,3,7,8,9-Hexabromodibenzo-p-dioxin	110999-46-7
1,2,3,7,8-Pentabromodibenzofuran	107555-93-1
Chemical Name	**CAS Number**
Fibers	
Asbestos	Several
Actinolite	77536-66-4
Amosite	12172-73-5
Anthophyllite	77536-67-5
Chrysotile	12001-29-5 132207-32-0
Crocidolite	12001-28-4
Tremolite	77536-68-6
Chemical Name	**CAS Number**
Flame retardants	
Chlorinated paraffins, all chain lengths	Several
Paraffin wax, chlorinated	63449-39-8
Paraffin, C10-C13, chlorinated - (SCCP)	85535-84-8
Paraffin, C18-C28, chlorinated - (LCCP)	85535-86-0
Paraffin, C14-C17, chlorinated - (MCCP)	85535-85-9

Chemical Name	CAS Number
Hexabromocyclododecan, all isomers - group for all major diastereoisomers identified	Several
Hexabromocyclododecane	25637-99-4
1,2,5,6,9,10-Hexabromocyclododecane	3194-55-6
α-Hexabromocyclododecane	134237-50-6
β-Hexabromocyclododecane	134237-51-7
µ-Hexabromocyclododecane	134237-52-8
Polybrominated diphenyl ethers	Several
Decabromodiphenyl ether - (DecaBDE)	1163-19-5
Monobromodiphenyl ether - (MonoBDE)	Several
2-Bromodiphenyl ether	7025-06-1
3-Bromodiphenyl ether	6876-00-2
4-Bromodiphenyl ether	101-55-3
Tribromodiphenyl ether - (TriBDE)	49690-94-0
Tetrabromodiphenyl ether - (TetraBDE)	40088-47-9
Pentabromodiphenyl ether - (PentaBDE)	32534-81-9
Hexabromodiphenyl ether - (HexaBDE)	36483-60-0
Heptabromodiphenyl ether - (HeptaBDE)	68928-80-3
Octabromodiphenyl ether - (OctaBDE)	32536-52-0
Nonabromodiphenyl ether - (NonaBDE)	63936-56-1
Chemical Name	**CAS Number**
Halogenated Diarylalkanes	
Monomethyl-dibromo-diphenyl methane	99688-47-8
Monomethyl-dichloro-diphenyl methane	81161-70-8
Monomethyl-tetrachloro-diphenyl methane	76253-60-6

Chemical Name	CAS Number
Isocyanates	
1,3-Bis(isocyanatomethyl)benzene	3634-83-1
Hexamethylene-di-isocyanate	822-06-0
Isophorone-di-isocyanate	4098-71-9
Tetramethylxylene-di-isocyanate	2778-42-9
2,4,6-Trimethyl-1,3-phenylene diisocyanate	16959-10-7
Diphenylmethane-di-isocyanates	Several
Diphenylmethane-4,4-di-isocyanate	101-68-8
Diphenylmethane-2,2-di-isocyanate	2536-05-2
Diphenylmethane-2,4-di-isocyanate	5873-54-1
Methylenediphenyl diisocyanate - mixed isomers	26447-40-5
Toluene-di-isocyanates	Several
Toluene-2,4-di-isocyanate	584-84-9
Toluene-2,6-di-isocyanate	91-08-7

Chemical Name	CAS Number
Ozone Depleting Substances (according to Regulation (EC) No 1005/2009)	
Ozone depleting substances (CFCs) class I	Several
Trichlorofluoromethane - (CFC-11)	75-69-4
Dichlorodifluoromethane - (CFC-12)	75-71-8
1,1,2-Trichloro-1,2,2-trifluoroethane - (CFC-113)	76-13-1
1,1,1-Trichloro-2,2,2-trifluoroethane - (CFC-113a)	354-58-5
1,2-Dichloro-1,1,2,2-tetrafluoroethane - (CFC-114)	76-14-2
1,1-Dichloro-1,2,2,2-tetrafluoroethane - (CFC-114a)	374-07-2
Monochloropentafluoroethane - (CFC-115)	76-15-3
Bromochlorodifluoromethane - (Halon-1211)	353-59-3

Chemical Name	CAS Number
Bromotrifluoromethane - (Halon-1301)	75-63-8
Dibromotetrafluoroethane - (Halon-2402)	124-73-2
Chlorotrifluoromethane - (CFC-13)	75-72-9
Pentachlorofluoroethane - (CFC-111)	354-56-3
1,1,2,2-Tetrachloro-1,2-difluoroethane - (CFC-112)	76-12-0
1,1,1,2-Tetrachlorodifluoroethane - (CFC-112a)	76-11-9
Heptachlorofluoropropane - (CFC-211)	422-78-6
Hexachlorodifluoropropane - (CFC-212)	3182-26-1
Pentachlorotrifluoropropane - (CFC-213)	2354-06-5
Tetrachlorotetrafluoropropane - (CFC-214)	29255-31-0
1,1,1,3-Tetrachloro-2,2,3,3-tetrafluoropropane - (CFC-214)	2268-46-4
1,1,3-Trichloropentafluoropropane	76-17-5
1,2,3-Trichloropentafluoropropane - (CFC-215)	1652-81-9
1,1,1-Trichloropentafluoropropane	4259-43-2
1,2,2-Trichloropentafluoropropane	1599-41-3
Dichlorohexafluoropropane - (CFC-216)	661-97-2
1,3-dichloro-1,1,2,2,3,3-hexafluoropropane - (CFC-216ca)	662-01-1
Monochloroheptafluoropropane - (CFC-217)	422-86-6
2-Chloro-1,1,1,2,3,3,3-heptafluoropropane - (CFC-217ba)	76-18-6
Carbon tetrachloride - (CTC)	56-23-5
Methyl bromide	74-83-9
Dibromofluoromethane - (HBFC-21 B2)	1868-53-7
Bromodifluoromethane - (HBFC-22 B1)	1511-62-2
Bromofluoromethane - (HBFC-31 B1)	373-52-4
Tetrabromofluoroethane - (HBFC-121 B4)	353-93-5

Chemical Name	CAS Number
Tribromodifluoroethane - (HBFC-122 B3)	353-97-9
1,2-Dibromo-1,1,2-trifluoroethane - (HBFC-123 B2 / Halon 2302)	354-04-1
Bromotetrafluoroethane - (HBFC-124 B1)	354-07-4
Tribromofluoroethane - (HBFC-131 B3)	172912-75-3
1,2-Dibromo-1,1-difluoroethane - (HBFC-132 B2)	75-82-1
Bromotrifluoroethane - (HBFC-133 B1)	
1-Bromo-2,2,2-trifluoroethane - (HBFC-133a B1)	421-06-7
1,2-Dibromofluoroethane - (HBFC-141 B2)	358-97-4
2-Bromo-1-1-difluoroethane - (HBFC-142 B1)	359-07-9
1-Bromo-2-fluoroethane - (HBFC-151 B1)	762-49-2
Hexabromofluoropropane - (HBFC-221 B6)	
Pentabromodifluoropropane - (HBFC-222 B5)	
Tetrabromotrifluoropropane - (HBFC-223 B4)	
Tribromotetrafluoropropane - (HBFC-224 B3)	666-48-8
Dibromopentafluoropropane - (HBFC-225 B2)	431-78-7
Bromohexafluoropropane - (HBFC-226 B1)	2252-79-1
Pentrabromofluorapropane - (HBFC-231 B5)	
Tetrabromodifluoropropane - (HBFC-232 B4)	148875-98-3
Tribromotrifluoropropane - (HBFC-233 B3)	431-48-1
Dibromotetrafluoropropane - (HBFC-234 B2)	460-86-6
Bromopentafluoropropane - (HBFC-235 B1)	460-88-8
Tetrabrobofluoropropane - (HBFC-241 B4)	
Tribromodifluoropropane - (HBFC-242 B3)	666-25-1
Dibromotrifluoropropane - (HBFC-243 B2)	460-60-6
Bromotetrafluoropropane - (HBFC-244 B1)	460-67-3
Tribromofluoropropane - (HBFC-251 B1)	75372-14-4

Chemical Name	CAS Number
Dibromodifluoropropane - (HBFC-252 B2)	51584-25-9
3-Bromo-1,1,1-trifluoropropane - (HBFC-253 B1)	460-32-2
1,2-Dibromo-3-fluoropropane - (HBFC-261 B2)	453-00-9
Monobromodifluoropropane - (HBFC-262 B1)	461-49-4
1-Bromo-2-fluoropropane - (HBFC-271 B1)	1871-72-3
Chlorobromomethane - (BCM / Halon-1011)	74-97-5
Ozone depleting substances (CFCs) class II	Several
1-Bromopropane - (HBC 280 B1 / n-PB)	106-94-5
Bromoethane - (HBC 160 B1 / EtBr)	74-96-4
Trifluoroiodomethane - (FIC 013 I1 / TFIM)	2314-97-8
Methyl chloride - (HCC 040 / MC)	74-87-3
Dichlorofluoromethane - (HCFC-21)	75-43-4
Monochlorodifluoromethane - (HCFC-22)	75-45-6
Monochlorofluoromethane - (HCFC-31)	593-70-4
1,1,2,2-Tetrachloro-1-fluoroethane - (HCFC-121)	354-14-3
1,1,1,2-Tetrachloro-2-fluoroethane - (HCFC-121a)	354-11-0
Trichlorodifluoroethane - (HCFC-122)	354-21-2
Dichlorotrifluoroethane - (HCFC-123)	306-83-2
1,2-Dichloro-1,1,2-trifluoroethane - (HCFC-123a)	354-23-4
Monochlorotetrafluoroethane - (HCFC-124)	2837-89-0
1-Chloro-1,1,2,2-tetrafluoroethane - (HCFC-124a)	354-25-6
Trichlorofluoroethane - (HCFC-131)	359-28-4
1,2-Dichloro-1,2-difluoroethane - (HCFC-132)	431-06-1
1,2-Dichloro-1,1-difluoroethane - (HCFC-132b)	1649-08-7
Monochlorotrifluoroethane - (HCFC-133)	1330-45-6

Chemical Name	CAS Number
2-Chloro-1,1,1-trifluoroethane - (HCFC-133a)	75-88-7
1,2-Dichloro-1-fluoroethane - (HCFC-141)	430-57-9
Dichlorofluoroethane - (HCFC-141b)	1717-00-6
Chlorodifluoroethane - (HCFC-142)	
Monochlorodifluoroethane - (HCFC-142b)	75-68-3
Chlorofluoroethane - (HCFC-151)	
1-Chloro-1-fluoroethane - (HCFC-151a)	1615-75-4
Hexachlorofluoropropane - (HCFC-221)	29470-94-8
Pentachlorodifluoropropane - (HCFC-222)	134237-36-8
1,1,1,3,3-Pentachloro-2,2-difluoropropane - (HCFC-222c)	422-49-1
Tetrachlorotrifluoropropane - (HCFC-223)	29470-95-9
1,1,3,3-Tetrachloro-1,2,2-trifluoropropane - (HCFC-223ca)	422-52-6
Trichlorotetrafluoropropane - (HCFC-224)	127564-91-4
1,3,3-Trichloro-1,1,2,2-tetrafluoropropane - (HCFC-224ca)	422-54-8
Dichloropentafluoropropane - (HCFC-225)	
Dichloropentafluoropropane - (HCFC-225ca)	422-56-0
Dichloropentafluoropropane - (HCFC-225cb)	507-55-1
Chloro-1,1,2,2,3,3-hexafluoropropane - (HCFC-226cb)	422-55-9
Monochlorohexafluoropropane - (HCFC-226)	28987-04-4
2-Chloro-1,1,1,3,3,3-hexafluoropropane - (HCFC-226da)	431-87-8
Pentachlorofluoropropane - (HCFC-231)	421-94-3
1,1,3,3-Tetrachloro-2,2-difluoropropane - (HCFC-232ca)	1112-14-7
1,1,3-Trichloro-1,2,2-trifluoropropane - (HCFC-233cb)	421-99-8
Tetrachlorodifluoropropane - (HCFC-232)	460-89-9
Trichlorotrifluoropropane - (HCFC-233)	7125-84-0

Chemical Name	CAS Number
Dichlorotetrafluoropropane - (HCFC-234)	127564-83-4
1-Chloro-1,2,2,3,3-pentafluoropropane - (HCFC-235ca)	679-99-2
Monochloropentafluoropropane - (HCFC-235)	460-92-4
Tetrachlorofluoropropane - (HCFC-241)	134190-49-1
Trichlorodifluoropropane - (HCFC-242)	127564-90-3
Dichlorotrifluoropropane - (HCFC-243)	116890-51-8
Monochlorotetrafluoropropane - (HCFC-244)	134190-50-4
Trichloromonofluoropropane - (HCFC-251)	134190-51-5
Dichlorodifluoropropane - (HCFC-252)	134190-52-6
Monochlorotrifluoropropane - (HCFC-253)	134237-44-8 26588-23-8
3-Chloro-1,1,1-trifluoropropane - (HCFC-253fb)	460-35-5
Dichlorofluoropropane - (HCFC-261)	420-97-3
1-Chloro-2,2-difluoropropane - (HCFC-262ca)	420-99-5
2-Chloro-2-fluoropropane - (HCFC-271b)	420-44-0
Monochlorodifluoropropane - (HCFC-262)	421-02-3
Monochlorofluoropropane - (HCFC-271)	430-55-7
Chemical Name	**CAS Number**
Pesticides	
Aldrin	309-00-2
Azinphos methyl	86-50-0
Azinphos-ethyl	2642-71-9
Bromophos-ethyl	4824-78-6
Captafol	2425-06-1
Carbaryl	63-25-2

Chemical Name	CAS Number
Chlordane	57-74-9
Chlordecone	143-50-0
Chlordimeform	6164-98-3
Chlorfenvinphos	470-90-6
Chlorobenzilate	510-15-6
Clothianidin	210880-92-5
Coumaphos	56-72-4
Cyfluthrin	68359-37-5 1820573-27-0
Cyhalothrin, lambda	91465-08-6
Cypermethrin	52315-07-8
Deltamethrin	52918-63-5
Diazinon	333-41-5
o,p'-Dichlorodiphenyl-dichloroethane	53-19-0
p,p'-Dichlorodiphenyldichloroethane	72-54-8
o,p'-Dichlorodiphenyl-dichloroethylene	3424-82-6
p,p'-Dichlorodiphenyl-dichloroethylene	72-55-9
o,p'-Dichlorodiphenyl-trichloroethane and its isomers - preparations containing DDT and its isomers	789-02-6
p,p'-Dichlorodiphenyl-trichloroethane and its isomers - preparations containing DDT and its isomers	50-29-3
Dichlorprop	120-36-5
Dicrotophos	141-66-2
Dieldrin	60-57-1
Dimethoate	60-51-5
Dinotefuran	165252-70-0

Chemical Name	CAS Number
Endosulfan, alpha	959-98-8
Endosulfan, beta	33213-65-9
Endrin	72-20-8
Esfenvalerate	66230-04-4
Ethyl parathion	56-38-2
Fenvalerate	51630-58-1
Heptachlor	76-44-8
Heptachlor epoxide	1024-57-3
Imidacloprid (ISO)	138261-41-3 105827-78-9
Isodrin	465-73-6
Kelevan	4234-79-1
Malathion	121-75-5
MCPA	94-74-6
MCPB	94-81-5
Mecoprop	93-65-2
Methamidophos	10265-92-6
Methoxychlor	72-43-5
Methyl parathion	298-00-0
Mevinophos	7786-34-7
Mirex	2385-85-5
Monocrotophos	6923-22-4
Perthane	72-56-0
Phosphamidon	13171-21-6
Profenophos	41198-08-7

Chemical Name	CAS Number
Propetamphos	31218-83-4
Quinalphos	13593-03-8
Strobane	8001-50-1
Telodrin	297-78-9
Thiacloprid	111988-49-9
Thiamethoxam	153719-23-4
Toxaphene	8001-35-2
Tribufos (DEF)	78-48-8
Trifluralin - containing < 0.5 ppm NPDA	1582-09-8
Acetamipirid, its salts, esters and compounds	Several
Acetamipirid (ISO)	135410-20-7
Acetamipirid [2]	160430-64-8
2,4-Dichlorophenoxyacetic acid, its salts, esters and compounds	Several
2,4-Dichlorophenoxy acetic acid	94-75-7
Dinoseb, its salts, esters and acetate	Several
Dinoseb	88-85-7
Hexachlorocyclohexane, all isomers	608-73-1
Lindane (ISO)	58-89-9
Nitenpyram, its salts, esters and compounds	Several
Nitenpyram [1]	150824-47-8
Nitenpyram [2]	120738-89-8
2,4,5-Trichlorophenoxyacetic acid, its salts, esters and compounds	Several
2,4,5-Trichlorophenoxy acetic acid	93-76-5

Chemical Name	CAS Number
PFAS (Poly- and perfluoroalkyl substances)	
Perfluorooctane sulfonic acid and its derivatives	Several
Perfluorooctane sulfonic acid and its salts	Several
Diethanolamine perfluorooctane sulfonate	70225-14-8
Ammonium perfluorooctane sulfonate	29081-56-9
Lithium perfluorooctane sulfonate	29457-72-5
Perfluorooctane sulfonic acid	1763-23-1
Perfluorooctane sulfonate	45298-90-6
Potassium heptadecafluoro-octane-1-sulphonate	2795-39-3
Perfluorooctane sulfon amides	Several
Perfluorooctane sulfonamide	754-91-6
Heptadecafluoro-N-methyloctane sulfonamide	31506-32-8
Perfluorooctane sulfon amidoethanols	Several
Heptadecafluoro-N-methyloctane sulfonamideoethanol	24448-09-7
1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	4151-50-2
1-Octanesulfonamide, N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-N-(2-hydroxyethyl)-	1691-99-2
Perfluorooctane sulfon amidoethyl (meth)acrylates	Several
Perfluorooctane sulfon halides	Several
1-Octanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-	307-35-7
Perfluorooctane sulfon polymers	Several
Perfluorohexanoic acid and its salts	Several
Perfluorohexanoic acid - (PFHxA)	307-24-4
Perfluoroheptanoic acid and its salts	Several
Perfluoroheptanoic acid	375-85-9

Chemical Name	CAS Number
Potassium perfluoroheptanoate	21049-36-5
Perfluorooctanoic acid and its salts	Several
Perfluorooctanoic acid - (PFOA)	335-67-1
Ammonium pentadecafluoro octanoate	3825-26-1
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, sodium salt (1:1)	335-95-5
Potassium perfluorooctanoate	2395-00-8
Perfluorooctanoic acid related substances	Several
Methyl perfluorooctanoate	376-27-2
Ethyl perfluorooctanoate	3108-24-5
Perfluorooctylethyl alcohols	Several
8:2 Fluorotelomer alcohols (8:2 FTOH)	678-39-7
Perfluorooctylethyl olefins	Several
Perfluorooctylethene	21652-58-4
Perfluorooctylethyl halides	Several
Heptadecafluoro-1-iodooctane	507-63-1
1H,1H,2H,2H-Perfluorodecyliodide	2043-53-0
Pentadecafluorooctyl fluoride	335-66-0
Perfluorooctylethyl acrylate or methacrylate	Several
Perfluorooctylethyl polymers	Several
Perfluorocarboxylic acid (C9-C14) related substances	Several
Perfluorodecanoic acid related substances	Several
10:2 Fluorotelomer alcohol - (10:2 FTOH)	865-86-1
Chemical Name	**CAS Number**
Plasticizers	
Phthalic acid esters	Several

Chemical Name	CAS Number
Bis-(2-methoxyethyl) phthalate - (DMEP)	117-82-8
Butylbenzyl phthalate - (BBP)	85-68-7
Dimethyl phthalate - (DMP)	131-11-3
Diethyl phthalate - (DEP)	84-66-2
Di-n-propyl phthalate - (DPRP)	131-16-8
Dibutyl phthalate - (DBP)	84-74-2
Di-iso-butyl phthalate - (DIBP)	84-69-5
Di-n-pentyl phthalate - (DnPP)	131-18-0
Di-iso-pentyl phthalate - (DIPP)	605-50-5
n-Pentyl-isopentyl phthalate	776297-69-9
Di-n-hexyl phthalate - (DnHP)	84-75-3
Di-cyclohexyl phthalate - (DCHP)	84-61-7
Di-iso-hexyl phthalate - (DIHxP)	71850-09-4
Di-n-octyl phthalate - (DnOP)	117-84-0
Di-iso-octyl phthalate - (DIOP)	27554-26-3
Diethylhexyl phthalate - (DEHP)	117-81-7
Dinonyl phthalate - (DNP)	84-76-4
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkylesters, C7-rich	71888-89-6
1,2-Benzenedicarboxylic acid, benzyl C7-9-branched and linear alkyl esters	68515-40-2
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkylesters	68515-42-4
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	Several

Chemical Name	CAS Number
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68648-93-1
Di-iso-nonyl phthalate - (DINP)	Several
Di-iso-nonyl phthalate - iso & n-Butene based	68515-48-0
Di-iso-decyl phthalate - (DIDP)	Several
Di-iso-decyl phthalate [1]	26761-40-0
Di-iso-decyl phthalate [2]	68515-49-1
Chemical Name	**CAS Number**
Polyaromatic hydrocarbons (PAHs)	
Dibenzo[def,p]chrysene	191-30-0
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Anthracene	120-12-7
Benzo[rst]pentaphene	189-55-9
Benzo(ghi)perylene	191-24-2
Cyclopenta[c,d]pyrene	27208-37-3
Dibenzo[b,def]chrysene	189-64-0
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno(1,2,3-cd) pyrene	193-39-5
Naphthalene	91-20-3
Naphtho[1,2,3,4-def]chrysene	192-65-4
Phenanthrene	85-01-8
Pyrene	129-00-0
Methylpyrene, 1-	2381-21-7