

bluesign® Restricted Substances List (RSL)

Consumer safety limits

CHANGES 2023

Version 14.0, 01 July 2023 – compared to Version 13.0, 01 July 2022





Purpose

This document provides an overview of the changes in RSL version 14.0 compared to version 13.0. Changes are marked in red.

Validity of BSSL 14.0

RSSL 14.0 comes into force on 01 July 2023.

It replaces the bluesign® Restricted Substances List (RSL) version 13.0 from 01 July 2022.

For all bluesign® SYSTEM PARTNERS: Unless otherwise stated, the revised sections will be implemented by 01 July 2024 at the latest.

Consumer Safety Limits

pH-Value: Differentiate pH-range for leather products: 3.2 to 4.5 (chrome-tanned leather products), 3.5 to 7.9 (other leather products). (Topic 5.1 in RSL)

Articles from recycled material

New subchapter (5.6), 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.

Alkylphenoethoxylates (APEOs)						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
Alkylphenoethoxylates (APEOs)	Several	All	Usage ban	100	mg/kg	New group limit. For sum of all restricted APEOs. Goal should be 100 for APEOs + APs.
Alkylphenols (APs)						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
Alkylphenols (APs)	Several	All	Usage ban	10	mg/kg	New group limit. For sum of all APs.
Biocides						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
Biocides: Independent from the biocidal substances listed in the RSL, the supplier shall always be requested to declare whether biocides were used or not. Identity of the relevant biocides shall be disclosed by name and CAS No. Declaration duty shall be laid down in the purchase specification.						
Pyrithione zinc	13463-41-7	All	Usage ban	10	mg/kg	New substance. Usage ban in BSSL since 2021.



Colorants						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
Disperse Blue 124	61951-51-7 15141-18-1	All	Usage ban	200	mg/kg	Additional CAS no. added
Flame Retardants						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
Tribromodiphenyl ether - (TriBDE)	49690-94-0	All	Usage ban	5	mg/kg	New substance.
Metals						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
The limits for all metals are now assigned to the entry "metal – as content" to clarify that the limit refers to the detection of the metal itself and not to any metal compound.						
Antimony - as content	7440-36-0	Fibers/yarns	Limitation	260	mg/kg	New comment to clarify: Valid for polyester fibers (also dope dyed), but not for finished polyester textiles.
Barium - as content	7440-39-3	Textiles	Limitation	1000	mg/kg	New limit in BSSL. Add to RSL for alignment with AFIRM.
Other Chemical Substances						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
Azodicarbonamide (ADCA)	123-77-3	All	Usage ban	100/200/200	mg/kg	Change from Limitation to Usage ban.
Bisphenol A	80-05-7	All	Usage ban	1.0/10/10	mg/kg	For usage range A: 10 mg/kg is accepted when article is not intended to come into contact with mouth.
Bisphenol AF	1478-61-1	All	Usage ban	100	mg/kg	New substance on RSL.
Bisphenol F	620-92-8	All	Usage ban	100	mg/kg	New substance on RSL.
Bisphenol S	80-09-1	All	Usage ban	100	mg/kg	New substance on RSL. Specific limit for leather tanning and textile aftertreatment: 500 ppm.
Formamide	75-12-7	All	Usage ban	50/50/200	mg/kg	Higher limit for C (from 100).
Phenol	108-95-2	All	Limitation	20/50/100	mg/kg	Higher limit for A (from 10).
D5-Siloxane	541-02-6	All	Usage ban	200	mg/kg	Higher limit (from 50).
D6-Siloxane	540-97-6	All	Usage ban	200	mg/kg	Higher limit (from 50).



Perfluoroalkyl Carboxylic Acids and Derivatives - PFCA						
Perfluoroalkyl Sulfonic Acids and Derivatives - PFSA						
Both groups are merged to a new group: PFAS (Poly- and perfluoroalkyl substances)						
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Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
PFAS (Poly- and perfluoroalkyl substances)	Several	All	Usage ban	50	mg/kg	New group. Limit refers to total fluorine content. See also "Guidance Sheet PFAS phase out" and PFAS statement in section 6.
Perfluorohexane sulfonic acid and its derivatives	Several	All	Usage ban			Add group because of legal limit, is already in BSSL. Limit on subgroup level.
Perfluorohexane sulfonic acid and its salts	Several	All	Usage ban	20	µg/kg	New substance, is in BSSL and AFIRM RSL.
Perfluorohexane sulfon amides	Several	All	Usage ban	20	µg/kg	New subgroups to Perfluorohexane sulfonic acid and its derivatives. Have been already in BSBL.
Perfluorohexane sulfon amidoethanols	Several	All	Usage ban	20	µg/kg	
Perfluorohexane sulfon amidoethyl (meth)acrylates	Several	All	Usage ban	20	µg/kg	
Perfluorohexane sulfon halides	Several	All	Usage ban	20	µg/kg	
Perfluorohexane sulfon polymers	Several	All	Usage ban	20	µg/kg	
Perfluorocarboxylic acids and its salts	Several	All				Entry deleted because of new structure and limits.
Perfluorohexanoic acid and its salts	Several	All	Usage ban	25	µg/kg	New limit value.
Perfluorohexanoic acid related substances	Several	All	Usage ban	1000	µg/kg	New substance, legal limit, was already on BSSL.
Perfluorocarboxylic acid (C9-C14) and its salts	Several	All	Usage ban	25	µg/kg	New defined group, legal limit.
Perfluorocarboxylic acid (C9-C14) related substances	Several	All	Usage ban	260	µg/kg	New defined group, legal limit.
Perfluorodecanoic acid related substances	Several	All	Usage ban			New subgroup, limit on higher level.
10:2 Fluorotelomer alcohol (10:2 FTOH)	865-86-1	All	Usage ban			New substance, align AFIRM RSL. Limit on group level.



Solvents						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
DMF	68-12-2	Textile/ solvent coating	Limitation	50/50/250	mg/kg	Change of exceptional limit for solvent coating for usage range C: 250 mg/kg (from 50). Requirement to re-check in 2025.
UV Stabilizers						
Adaptation of names to common names (UV 320 / UV 327 / UV 328 / UV 350)						

Revised test methods

Substances	Revision	Comment
Arylamines	BSSL, Leather: Use new version of method EN ISO 17234-1:(2020).	New version
Chlorinated Phenols	Add method for leather (EN ISO 17070).	
Colorants	Update version for all colorants: DIN 54231 (2022).	New version
Cr VI (for leather)	Add to BSSL comment: Thermal pre-ageing test required in advance: ISO 10195:2018.	Thermal pre-ageing
Several solvents (NEP, NMP, DMF, DMAc)	Replace CEN ISO 16189 (2013) by ISO 16189 (2021).	
Cyclic Siloxanes (D4-, D5-, D6-)	Reference to updated version: TEGEWA method (2021).	New version
Polyaromatic hydrocarbons (PAHs)	Add EN17132 or ISO 16190 as alternative methods.	
PVC	Total chlorine (EN 14582) // FTIR (when chlorine detected)	Based on problems with quantification
UV Stabilizers	Align BSSL with AFIRM: ISO 24040 // Extraction with Tetrahydrofuran // GC-MS.	Align with AFIRM