

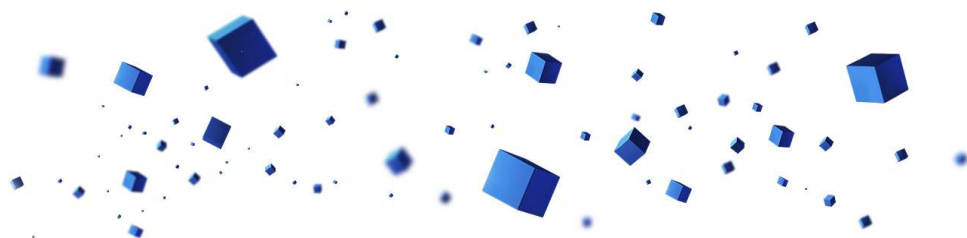
bluesign® system substances list (BSSL)

Consumer safety limits

CHANGES 2024

Version 15.0, 01 July 2024 – compared to Version 14.0, 01 July 2023





Purpose

This document provides an overview of the changes in BSSL version 15.0 compared to version 14.0. Changes are marked in red.

Validity of BSSL 15.0

BSSL 15.0 comes into force on 01 July 2024.

It replaces the bluesign® system substances list (BSSL) version 14.0 from 01 July 2023.

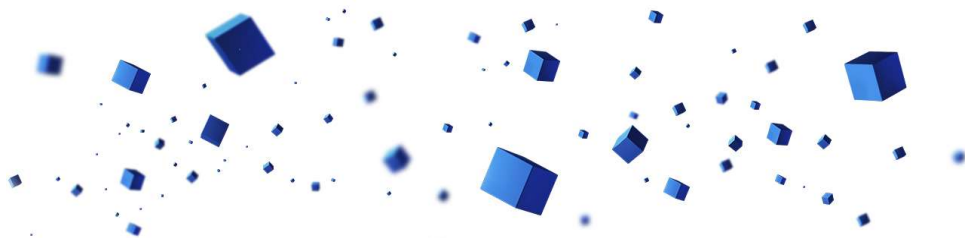
For all bluesign® SYSTEM PARTNERS: Unless otherwise stated, the revised sections will be implemented by 01 July 2025 at the latest.

Consumer Safety Limits

Chlorinated Benzenes and Toluenes						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
Hexachlorobenzene	118-74-1	All	Usage ban	0.5	mg/kg	Limit is lowered.

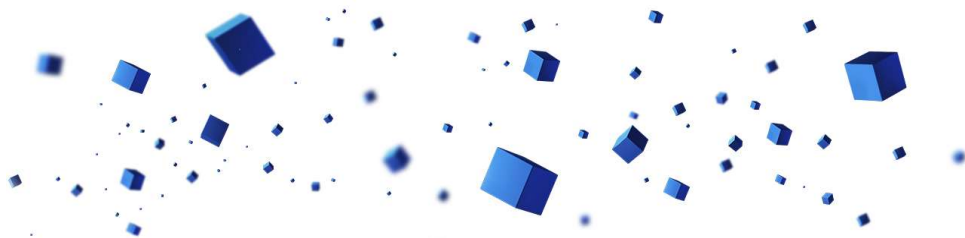
Halogenated Biphenyls, halogenated Terphenyls and halogenated Naphthalenes						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
Hexabromo biphenyl	36355-01-8	All	Usage ban	0,5	mg/kg	Added individual limit.

Isocyanates						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
2,4,6-Trimethyl-1,3-phenylene diisocyanate	16959-10-7	All	Usage ban	1	mg/kg	New substance. Group limit.



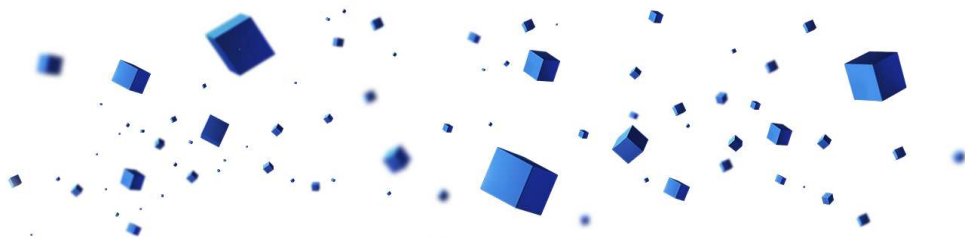
Metals						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
Silver – as content	7440-22-4	Textile Leather	Limitation			<p>Approval for silver components with biocidal activity only granted if proper risk assessment shows there is no harm for the people and the environment.</p> <p>Approval only possible if allowed and/or not forbidden in the EU (BPR on ECHA website).</p> <p>e.g. use of nano silver is not allowed in the EU for textile application.</p>

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	<p>Not allowed for bluesign® APPROVED chemicals, however the usage on-site is tolerated, if no feasible alternative for foaming is available.</p> <p>Proof that consumer safety limit for ADCA is kept via finished article testing (e.g. footwear sole).</p>
Azobenzene	103-33-3, 17082-12-1	All	Usage ban	1.0	mg/kg	<p>Change limit type from Monitoring to usage ban.</p> <p>Second CAS number added.</p>
Bisphenol F	620-92-8	All	Limitation	100	mg/kg	<p>Changed limit type from Usage ban to Limitation.</p> <p>Added specific limit 500 mg/kg for leather tanning and textile aftertreatment.</p>

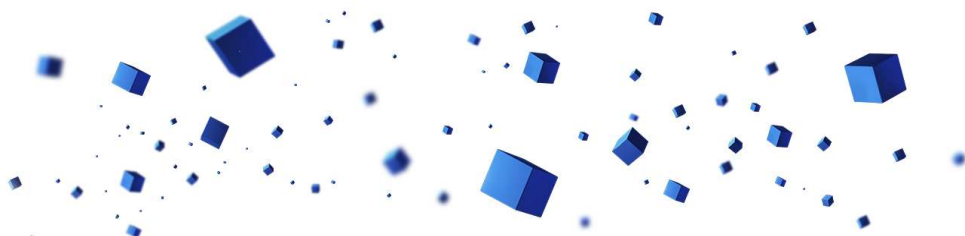


Other Chemical Substances						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
ε-Caprolactam	105-60-2	All	Monitoring	100/1000/1000	mg/kg	Change limit type from Limitation to Monitoring.
Cyclohexanone	108-94-1	All	Limitation	10	mg/kg	Applied same <u>exception</u> as for DMF. 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.
Colophony	8050-09-7 8052-10-6	All	Limitation	10/10/100	mg/kg	Limit increased for C value. Amended comment: Analysed as abietic acid.
2-Butyne-1,4-diol	110-65-6	All	Monitoring	1.0	mg/kg	Deleted comment "Limitation".

Pesticides						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1.alpha.,2.alpha.,3.beta.,4.alpha.,5.beta.,6.beta.)-	319-84-6	All	Limitation	0.5	mg/kg	New substances added to the group of Hexachlorocyclohexane in the Annex. Group limit valid for all pesticides.
Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1.alpha.,2.beta.,3.alpha.,4.beta.,5.alpha.,6.beta.)-	319-85-7	All	Limitation	0.5	mg/kg	
Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1.alpha.,2.alpha.,3.alpha.,4.beta.,5.alpha.,6.beta.)-	319-86-8	All	Limitation	0.5	mg/kg	

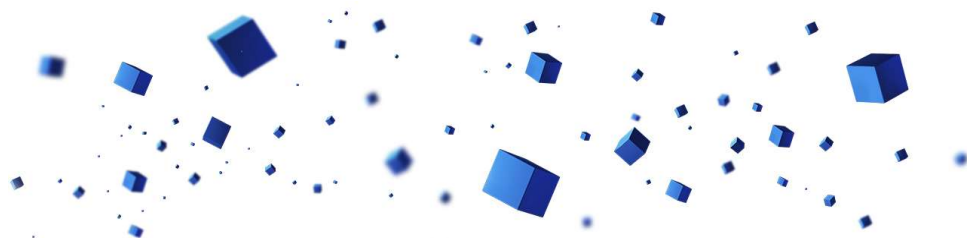


PFAS (Poly- and perfluoroalkyl substances)						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
Potassium perfluoroheptanoate	21049-36-5	All	Usage ban	50	µg/kg	New substance. Group limit of Perfluoroheptanoic acid and its salts. Listed in Annex.
Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	- (EC No. 473-390-7)	All	Usage ban	100	µg/kg	New substance.
Silver(1+) perfluorooctanoate	335-93-3	All	Usage ban	25	µg/kg	New substance listed in Annex. Group limit of Perfluorooctanoic acid and its salts.
Tridecafluoro-N-methylhexanesulphonamide	68259-15-4	All	Usage ban	20	µg/kg	New substance listed in Annex. Group limit of Perfluorohexane sulfonic acid and its derivatives.
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Heptadecafluoro-1-decanesulfonic acid	39108-34-4	All	Usage ban	20	µg/kg	New substances listed in Annex.
1-Dodecanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-	120226-60-0	All	Usage ban	20	µg/kg	Group limit of Perfluoroalkyl sulfonic acid and its salts - F(CF ₂) _n [n>8].
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Heptadecafluorodecanoic acid	27854-31-5	All	Usage ban	25	µg/kg	New substances listed in Annex. Group limit of Perfluorocarboxylic acids (C ₉ -C ₁₄) and its salts.
2,2,3,4,4,5,5,6,6,7,8,8,8-Tridecafluoro-3,7-bis(trifluoromethyl)octanoic acid	172155-07-6	All	Usage ban	25	µg/kg	
4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-Heptadecafluoroundecanoic acid	34598-33-9	All	Usage ban	25	µg/kg	



PFAS (Poly- and perfluoroalkyl substances)						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester	27905-45-9	All	Usage ban	1000	µg/kg	New substances listed in Annex. Group limit of Perfluorooctanoic acid related substances.
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester	1996-88-9	All	Usage ban	1000	µg/kg	
2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester	17741-60-5	All	Usage ban	260	µg/kg	New substances listed in Annex. Group limit of Perfluorocarboxylic acid (C9-C14) related substances.
2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester	2144-54-9	All	Usage ban	260	µg/kg	
Perfluorododecylethanol	39239-77-5	All	Usage ban	260	µg/kg	
Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-12-iodo-	2043-54-1	All	Usage ban	260	µg/kg	
Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12,12-pentacosafuoro-14-iodo-	30046-31-2	All	Usage ban	260	µg/kg	

Tin-organic Compounds						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
Monooctyltin compounds	Several	All	Usage ban	1.0	mg/kg	Limit is lowered.
Diphenyltin compounds	Several	All	Usage ban	1.0	mg/kg	
Monomethyltin compounds	Several	All	Usage ban	1.0	mg/kg	



UV stabilizers						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value A/B/C	Unit	Comment
UV-326	3896-11-5	All	Usage ban	1000	mg/kg	New substances. Articles need to comply latest 01 July 2026.
UV-329	3147-75-9	All	Usage ban	1000	mg/kg	

Revised test methods

Substances	CAS Number	Revision	Comment
Colophony	8050-09-7 8052-10-6	MtBE extraction followed by LC-MS	Changed test method.
Bisphenol A	80-05-7	Methanol or Methanol: Tetrahydrofuran (1:1) Extraction followed by LC-MS, LC-MS/MS or LC-PDA.	Changed test method.
Bisphenol AF	1478-61-1		
Bisphenol B	77-40-7		
Bisphenol F	620-92-8		
Bisphenol S	80-09-1		
PFAS	All listed substances	EN ISO 23702-1 (2023)	Valid for Leather
		CEN/TS 15968 (2010) prEN 17681-1:2023	Valid for Textile, Down/feather, Polymer and metal parts

Major changes in other chapters of the BSSL

Added subchapter '5.7 PFAS phase-out'. Important amendment in that chapter:

- 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
- 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.