

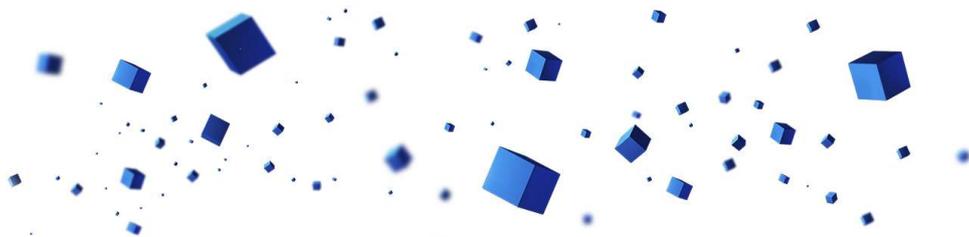
bluesign® system black limits (BSBL)

Threshold limit values for chemical substances in chemical products

CHANGES 2024

Version 6.0, 01 July 2024 – compared to Version 5.0, 01 July 2023





Purpose

This document provides an overview of the changes in BSBL version 6.0 compared to version 5.0. Changes are marked in red.

Validity of BSBL 6.0

BSBL 6.0 comes into force on 01 July 2024.

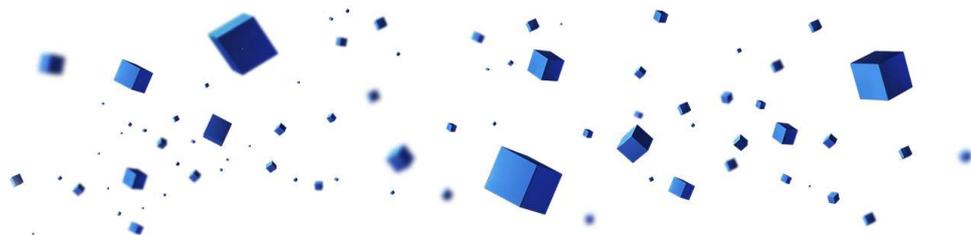
It replaces the bluesign® system black list (BSBL) version 5.0 from 01 July 2023.

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

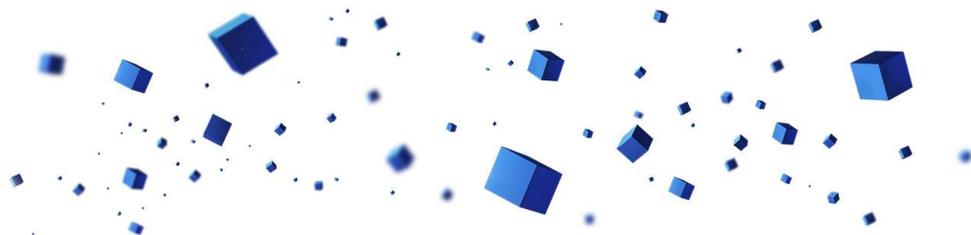
Threshold Limit Values

Other Chemical Substances						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Azobenzene	103-33-3, 17082-12-1	All	Usage ban	100	mg/kg	Second CAS number added.
Azodicarbonamide (ADCA)	123-77-3	All	Usage ban	1000	mg/kg	Added comment: 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).

PFAS (Poly- and perfluoroalkyl substances)						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Potassium perfluoroheptanoate	21049-36-5	All	Usage ban	2000	µg/kg	New substance. Group limit of Perfluoroheptanoic acid and its salts. Listed in Annex.

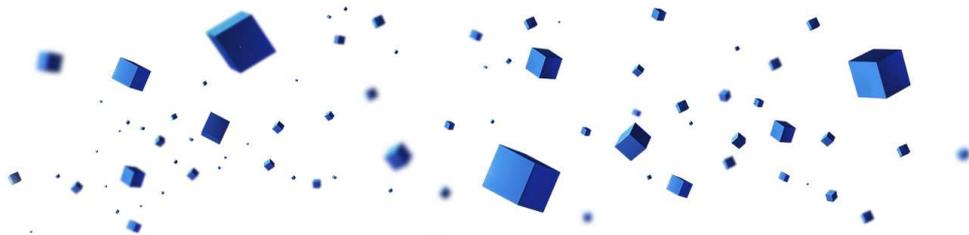


PFAS (Poly- and perfluoroalkyl substances)						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	- (EC No. 473-390-7)	All	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	100	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	100	µg/kg	New substances listed in Annex. Group limit of Perfluoroalkyl sulfonic acid and its salts - F(CF ₂) _n [n>8].
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	100	µg/kg	
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	
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	



PFAS (Poly- and perfluoroalkyl substances)						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
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-pentacosafuoro-14-iodo-	30046-31-2	All	Usage ban	260	µg/kg	

Substances with usage restrictions but no consumer safety limits						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Ethylene diamine tetraacetic acid (EDTA), tetrasodium salt	64-02-8 10378-23-1	All	Monitoring	1000	mg/kg	EDTA and its salts.
Ethylene diamine tetraacetic acid (EDTA), disodium salt	139-33-3 6381-92-6		Monitoring	1000	mg/kg	Change of limit type from Usage Restriction to Monitoring.
Trisodium hydrogen ethylenediaminetetraacetate	150-38-9		Monitoring	1000	mg/kg	Minimization requirement for all uses with exception of use as water softener in freshwater and process water preparation.
Ethylenediaminetetraacetic acid dipotassium salt	2001-94-7 25102-12-9		Monitoring	1000	mg/kg	
Ethylenediaminetetraacetic acid magnesium disodium salt	14402-88-1		Monitoring	1000	mg/kg	Usage ban for use as water softener in freshwater and process water preparation.
Ethylenediaminetetraacetic acid tetraammonium salt	22473-78-5		Monitoring	1000	mg/kg	
Diethylenetriaminepentaacetic acid	67-43-6		Usage ban	1000	mg/kg	DTPA and its salts.
Diethylene triamine pentaacetic acid (DTPA), sodium salt	140-01-2	Usage ban	1000	mg/kg	Change from usage restriction to usage ban, no exceptions allowed.	

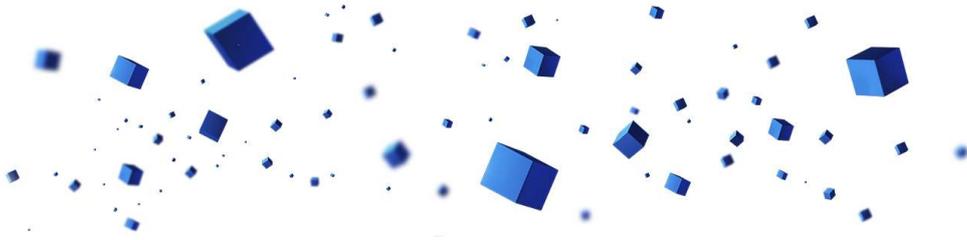


Substances with usage restrictions but no consumer safety limits						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Amino, tris(methylene phosphonic acid)	6419-19-8	All	Monitoring	1000	mg/kg	Phosphonates and salts.
Diethylenetriaminepenta(methylenephosphonic acid)	15827-60-8		Monitoring	1000	mg/kg	Change of limit type from Usage Restriction to Monitoring.
Diethylenetriaminepenta(methylenephosphonic acid) sodium salt	22042-96-2		Monitoring	1000	mg/kg	Minimization requirement for all uses with exception of use as water softener in freshwater and process water preparation.
Ethylenediaminetetra(methylenephosphonic acid)	1429-50-1		Monitoring	1000	mg/kg	Usage ban for use as water softener in freshwater and process water preparation.
1-Hydroxyethane-1,1-diphosphonic acid	2809-21-4		Monitoring	1000	mg/kg	
1-Hydroxyethane-1,1-diphosphonic acid sodium salts	7414-83-7 29329-71-3		Monitoring	1000	mg/kg	
1-Hydroxyethane-1,1-diphosphonic acid potassium salt	67953-76-8		Monitoring	1000	mg/kg	Verification via input stream management

UV stabilizers						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
UV-326	3896-11-5	All	Usage ban	1000	mg/kg	New substances.
UV-329	3147-75-9			1000	mg/kg	
UV-320	3846-71-7	All	Usage ban	1000	mg/kg	Changed limit from 300 mg/kg.
UV-327	3864-99-1			1000	mg/kg	
UV-328	25973-55-1			1000	mg/kg	
UV-350	36437-37-3			1000	mg/kg	

Revised test methods

Substances	CAS Number	Revision	Comment
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		
2-pyrrolidone	616-45-5	LC-MS	Changed test method.



Major changes in other chapters of the BSBL

Created subchapters '6.1 PFAS phase-out' and subchapter '6.2 ETAD listed metals'. Important amendment in subchapter '6.1 PFAS phase-out':

- 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.