

bluesign System Black Limits (BSBL)

Threshold limit values for chemical substances in chemical products

CHANGES 2026

Version 8.0, 01 July 2026 – compared to Version 7.0, 01 July 2025

Purpose

This document provides an overview of the changes in BSBL version 8.0 compared to version 7.0.

Validity of BSBL v8.0

BSBL 8.0 comes into force on 01 July 2026.

It replaces the bluesign System Black List (BSBL) version 7.0 from 01 July 2025.

For all bluesign System Partners: Unless otherwise stated, the revised sections will be implemented by 01 July 2027 at the latest.

General text changes

The text section of the BSBL undergoes an annual review, and consequently, the wording is amended as needed. This document outlines only the key changes.

The text section of the BSBL undergoes an annual review, and consequently, the wording is amended as needed. This document outlines only the key changes:

- PFAS Phase-out chapter has been extended, and testing approach was amended
- Added Chapter 5.9 explaining Non-PFAS Dyestuff containing fluorine

Threshold limit values

Amines

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
2,5-Diaminotoluene and its salts					
2,5-Diaminotoluene	95-70-5	All	Usage ban	150 mg/kg group limit	New group
2,5-Diaminotoluene sulfate	615-50-9				

Arylamines

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
2-Naphthylamine and its salts					
2-naphthylammonium chloride	612-52-2	All	Usage ban	150 mg/kg group limit	New substance

Biocides

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
o-Phenylphenol and its salts	-	Leather	Usage restriction	5000 mg/kg	Added limit for leather.

Chlorinated Benzenes and Toluenes

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
Trichlorotoluenes, all isomers	-	All	Usage ban	10 mg/kg	Additional individual limit introduced.
Tetrachlorotoluenes, all isomers	-	All	Usage ban	10 mg/kg	Additional individual limit introduced.

Chlorinated paraffins, all chain lengths

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
Paraffin, C14-C17, chlorinated (MCCP)					
Paraffin, C14-C17, chlorinated - (MCCP)	85535-85-9	All	Usage ban	250 mg/kg	The group limit is increased.
Alkanes, C14-16, chloro	1372804-76-6				
Di-, tri- and tetrachlorotetradecane	-				
Tetradecane, chloro derivs.	198840-65-2				
Paraffin, C18-C28, chlorinated (LCCP)					
Paraffin, C18-C28, chlorinated - (LCCP)	85535-86-0	All	Usage ban	250 mg/kg	The group limit is increased.
Paraffin wax, chlorinated	63449-39-8				
Paraffin, C10-C13, chlorinated (SCCP)					
Paraffin, C10-C13, chlorinated - (SCCP)	85535-84-8	All	Usage ban	250 mg/kg	The group limit is increased.

Colorants

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
Colorants banned for other reasons					
Reactive Blue 69	70209-99-3	All	Usage ban	200 mg/kg	New substance
Reactive Red 84	85187-33-3	All	Usage ban	200 mg/kg	New substance
Reactive Brown 51	No CAS Number EC No: 466-490-7	All	Usage ban	1000 mg/kg	New substance
Basic Green 4 - (Malachite Green)					
Malachite green acetate	41272-40-6	All	Usage ban	200 mg/kg	New substance. Group limit for all members of Basic Green 4.

Flame Retardants

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
Flame retardants	Several	All	Usage ban	1000 mg/kg	Limit applies to total individual chlorine and bromine content. If detected above the limit, follow-up investigation of the flame retardant source shall be conducted via targeted testing and supplier verification.
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate	183658-27-7	All	Usage ban	50 mg/kg	New substance
Dechlorane Plus - covering any of its individual anti- and syn-isomers or any combination thereof					
Dechlorane Plus	13560-89-9	All	Usage ban	1 mg/kg	New group
syn-Dechlorane plus	135821-03-3	All	Usage ban		
anti-Dechlorane plus	135821-74-8	All	Usage ban		

Flame Retardants

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
Polybrominated Biphenyls					
Polybrominated Biphenyls	59536-65-1	All	Usage ban	10 mg/kg	Change of allocation of all Polybrominated Biphenyls from Halogenated Biphenyls, halogenated Terphenyls and halogenated Naphthalenes to Flame Retardants. No change in limits.
4-bromobiphenyl	92-66-0	All	Usage ban	10 mg/kg group limit of all PBBs	New substances in already restricted group.
3-bromobiphenyl	2113-57-7				
4,4'-dibromobiphenyl	92-86-4				
Polybrominated diphenyl ethers					
Polybrominated diphenyl ethers	-	All	Usage ban	10 mg/kg 200 mg/kg group limit for recovered materials	Add group limit for all PBDE.
Mono – Decabrominated diphenyl ethers	-	All	Usage ban	10 mg/kg	Lower individual limits for all subgroups of PBDE.

Monomers

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
Vinylidene chloride	75-35-4	All	Usage ban	100 mg/kg	New substance

Metals

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
Chromium VI, its salts and compounds					
Barium chromate; Pigment Yellow 31	10294-40-3	All	Usage ban	10 mg/kg group limit	New substance

Other Chemical Substances

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
Titanium dioxide	13463-67-7	-	-	-	Deleted from BSBL.
Vinylcyclohexene diepoxide	106-87-6	All	Usage ban	500 mg/kg	New substance
2,4,6-tri-tert-butyl phenol	732-26-3	All	Usage ban	1000 mg/kg	New substance
Pentachlorothiophenol	133-49-3	All	Usage ban	1000 mg/kg	New substance
Phenol, isopropylated, phosphate (PIP (3:1))	68937-41-7	All	Usage ban	1000 mg/kg	New substance
Nitrobenzene	98-95-3	All	Usage ban	100 mg/kg	New substance
4-Nitrobiphenyl	92-93-3	All	Usage ban	150 mg/kg	New substance
Glycidyl isopropyl ether	4016-14-2	All	Usage ban	1000 mg/kg	New substance
Siloxanes					
Decamethyltetrasiloxane	141-62-8	All	Usage ban	1000 mg/kg	New substance
Methyltris(trimethylsiloxy) silane	17928-28-8	All	Usage ban	1000 mg/kg	New substance

PFAS (Poly- and perfluoroalkyl substances)

Numerous regulatory actions concerning PFAS have been recently introduced. Based on the developments, we have decided to revise both the structure and limits for the entire group of these chemicals.

The total fluorine content limit of 50 mg/kg remains unchanged valid for all PFAS and includes 3 subgroups: PFAS polymers, PFAS dyes (group limit: 250 ppb), and other PFAS (group limit: 250 ppb). Individual PFAS substances, except for polymers, are additionally subject to a single limit of 25 ppb. Testing recommendation updates are described in the Testing Methods Recommendation Changes at the end of the document. Due to the large number of PFAS substances, it is not feasible to cover them all; therefore, BSBL provides selected examples.

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
PFAS Polymers	-	All	Usage ban	50 mg/kg (total fluorine)	Total fluorine limit applies for polymers. New PFAS subgroup introduced. New substances included in the group.
PFAS Dyes	-	All	Usage ban	250 µg/kg group limit 25 µg/kg individual limit	New PFAS subgroup introduced. New substances included in the group.
PFAS other than dyes and polymers	-	All	Usage ban	250 µg/kg group limit 25 µg/kg individual limit	New substances included in the group. Group and individual limit introduced for all members.

Plasticizers

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
Phthalic acid esters	-	All	Usage ban	250 mg/kg	Individual limit for all members changed from 10 mg/kg to 250 mg/kg.

Polyaromatic hydrocarbons (PAHs)

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
5-Methylchrysene	3697-24-3	All	Usage ban	100 mg/kg group limit	New substance

Solvents

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
1,3-Dimethyl-2-imidazolidinone (DMI, DMEU)	80-73-9	All	Usage ban	100 mg/kg	New substance
N-hexane	110-54-3	All	Usage ban	1000 mg/kg	New substance

Tin-organic Compounds

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
Dibutyltin compounds (DBT)					
Dibutyltin hydrogen borate	75113-37-0	All	Usage ban	5 mg/kg group limit	New substance

Substances with usage restrictions but no consumer safety limits

Name	CAS No.	Sector of Use	Limit Type	Value	Comment
Potassium permanganate	7722-64-7	All	Usage ban	1000 mg/kg	Change of comment: Transitional on-site use for denim finishing is allowed, provided that a documented phase-out plan with a defined end date is available.
Hypochlorite/ Chlorine					Change of comment: On-site use is allowed for denim bleaching/finishing, linen bleaching, fresh water purification, anti-felt treatment of wool, machine cleaning, wastewater decolorization, and color stripping/repair.
Calcium hypochlorite	7778-54-3	All	Usage ban	100 mg/kg	
Sodium hypochlorite	7681-52-9	All	Usage ban	100 mg/kg	
Chlorine	7782-50-5	All	Usage ban	100 mg/kg	
Sodium chlorite	7758-19-2	All	Usage ban	100 mg/kg	
EDTA/DTPA and its salts					
Edetic acid	60-00-4	All	Monitoring	1000 mg/kg	Use as a water softener in freshwater and in process water preparation is prohibited. For all other uses, emissions must be minimized. Use is permitted for the softening of boiler feed water.
Crystalline silica - In respirable particle size					Deleted from BSBL.
Cristobalite	14464-46-1	-	-	-	
Quartz	14808-60-7	-	-	-	
Tridymite	15468-32-3	-	-	-	

Testing Method Recommendation Changes

Name	CAS No.	Old testing recommendation	New testing recommendation	Sector of use
PFAS – total fluorine	-	EN 14582 ASTM D7359	EN ISO 20999 (2026) ASTM D7359 EN 17813 (2023)	All
PFAS other than polymers and dyes	-	EN 17681-1 (2025)	EN ISO 23702-1:2023 using THF extraction followed by methanol precipitation (1:1)	Polymer parts
Benzyl chloride	100-44-7	GC-MS // with confirmatory LC-MS in the event of a positive detection	With reference to EN 17137 (2024) with GC-MS confirmation at low injection temperature and/or LC-DAD confirmation.	All
Chlorinated benzenes and toluenes	-	EN 17137 (2024)	With reference to EN 17137 (2024) with GC-MS confirmation at low injection temperature.	All
Ethylene oxide	75-21-8	Headspace GC-FID // with reference to CEN/TS 13130-22 (2005)	Headspace GC-FID/ GC-MS // with reference to CEN/TS 13130-22 (2005)	All
Polychlorinated Biphenyls	1336-36-3	GC-MS // with reference to ISO/TR 17881-3 (2018)	ISO 787-28:2019	All

Name	CAS No.	Old testing recommendation	New testing recommendation	Sector of use
Polychlorinated Terphenyls	61788-33-8	GC-MS // with reference to ISO/TR 17881-3 (2018)	GC-MS // Solvent Extraction	All
Polychlorinated Naphthalenes	-	GC-MS // with reference to ISO/TR 17881-3 (2018)	GC-MS // Solvent Extraction	All
Isoquinoline	119-65-3	LC-MS/MS LC-DAD	LC-MS/MS LC-MS LC-DAD DIN 54231:2022 In case of interferences confirmation is required by LC-MS or LC-MS/MS	All
Quinoline	91-22-5			
Borate, zinc salt	1332-07-6	DIN EN 16711-1:2016 (ICP-OES)	ICP-OES // Indirect testing via Boron (DL 100 mg/kg) ICP-MS // Indirect testing via Boron (DL 100 mg/kg)	All
Hydrazine, its salts and hydrates	-	GC-MS	GC-MS DIN 38413-1 ASTM D1385-07 LC-DAD//Solvent extraction and derivatization	All
Siloxanes:				
D4	556-67-2	TEGEWA method (2021)	TEGEWA method (2021) ISO 23649 (2025)	All
D5	541-02-6			
D6	540-97-6			
Glycols	-	LC-MS	LC-MS GC-MS	All
Pyrithione zinc	13463-41-7	ICP // with reference to DIN EN 16711-1 (2016) AAS // with reference to DIN EN 16711-1 (2016) Confirmation method: CE/ICP-MS	ICP // with reference to DIN EN 16711-1 (2016) AAS // with reference to DIN EN 16711-1 (2016) Confirmation method: HPLC-DAD or LC-MS or LC-MS/MS	All