



bluesign System Black Limits (BSBL)

Threshold limit values for chemical substances in chemical products

CHANGES 2025

Version 7.0, 01 July 2025 – compared to Version 6.0, 01 July 2024

Purpose

This document provides an overview of the changes in BSBL version 7.0 compared to version 6.0

Validity of BSBL v7.0

BSBL 7.0 comes into force on 01 July 2025.

It replaces the bluesign System Black List (BSBL) version 6.0 from 01 July 2024.

For all bluesign System Partners: Unless otherwise stated, the revised sections will be implemented by 01 July 2026 at the latest.

Threshold limit values

Alkylphenoethoxylates (APEOs)

Name	CAS	Sector of Use	Limit Type	Value	Comment
Nonylphenol ethoxylates (NPEO)					
Ethanol,2-(nonylphenoxy)-	27986-36-3	All	Usage ban	Group limit 100 mg/kg	New substances added to the existing groups.
Ethanol,2-[2-(nonylphenoxy)ethoxy]-	27176-93-8				
Nonylphenol pentaethoxylate	26264-02-8				
Nonylphenol octaethoxylate	27177-05-5				

Colorants

Name	CAS	Sector of Use	Limit Type	Value	Comment
Disperse Blue 102	69766-79-6	All	Usage ban	200 mg/kg	Listed with the outdated CAS no. 12222-97-8 Added valid CAS number
Disperse Yellow 49	6858-49-7	All	Usage ban	200 mg/kg	Listed with the outdated CAS no. 54824-37-2 Added valid CAS number

Flame Retardants

Name	CAS	Sector of Use	Limit Type	Value	Comment
Dimethyl propylphosphonate	18755-43-6	All	Usage ban	50 mg/kg	New substance
Monobromodiphenyl ether - (MonoBDE)					
2-Bromodiphenyl ether	7025-06-1	All	Usage ban	50 mg/kg group limit	Moved to Annex
3-Bromodiphenyl ether	6876-00-2	All	Usage ban		
4-Bromodiphenyl ether	101-55-3	All	Usage ban		
Tetrabromodiphenyl ether (TetraBDE)					
2,2',4,4'-Tetrabromodiphenyl ether	5436-43-1	All	Usage ban	50 mg/kg group limit	New substance
Hexabromodiphenyl ether (HexaBDE)					
2,2',4,4',5,5'-Hexabromodiphenyl ether	68631-49-2	All	Usage ban	50 mg/kg group limit	New substance
2,2',4,4',5,6'-Hexabromodiphenyl ether	207122-15-4	All	Usage ban		New substance
Heptabromodiphenyl ether (HeptaBDE)					
2,2',3,3',4,5',6-Heptabromodiphenyl ether	446255-22-7	All	Usage ban	50 mg/kg group limit	New substance
2,2',3,4,4',5',6-Heptabromodiphenyl ether	207122-16-5	All	Usage ban		New substance

Greenhouse Gases, fluorinated

Name	CAS	Sector of Use	Limit Type	Value A/B/C	Comment
Greenhouse Gases, fluorinated	Various	All	Usage ban	10 mg/kg for each substance listed	Update of legal reference to Regulation (EU) 2024/573. Updated Annex list of substances.

Halogenated Biphenyls, halogenated Terphenyls and halogenated Naphthalenes

Name	CAS	Sector of Use	Limit Type	Value	Comment
Polybrominated Biphenyls					
Dibromobiphenyl	27479-65-8	All	Usage ban	10 mg/kg	New substance
Octabromobiphenyls	27858-07-7	All	Usage ban	10 mg/kg	New substance
Nonabromobiphenyls	27753-52-2	All	Usage ban	10 mg/kg	New substance

Metals

Name	CAS	Sector of Use	Limit Type	Value	Comment
Antimony - as content	7440-36-0	All	Usage restriction	50 mg/kg	New substance. As metal content. Applies only to dyes and pigments. Limit for pigments: 250 mg/kg.
Barium - as content	7440-39-3	All	Usage restriction	100 mg/kg	New substance. As metal content. Applies only to dyes and pigments. Does not apply for C.I. Pigment White 21.
Chromium - as content	7440-47-3	All	Usage restriction	100 mg/kg	New substance. As metal content. Applies only to dyes and pigments. Does not apply to metal-complex dyes or the double salts of certain cationic dyes.
Cobalt - as content	7440-48-4	All	Usage restriction	500 mg/kg	New substance. As metal content. Applies only to dyes. Does not apply to metal-complex dyes or the double salts of certain cationic dyes.
Copper - as content	7440-50-8	All	Usage restriction	250 mg/kg	New substance. As metal content. Applies only to dyes. Does not apply to metal-complex dyes or the double salts of certain cationic dyes.

Name	CAS	Sector of Use	Limit Type	Value	Comment
Nickel - as content	7440-02-0	All	Usage restriction	250 mg/kg	New substance. As metal content. Applies only to dyes. Does not apply to metal-complex dyes or the double salts of certain cationic dyes.
Selenium - as content	7782-49-2	All	Usage restriction	20 mg/kg	New substance. As metal content. Applies only to dyes and pigments. Limit for pigments: 100 mg/kg.
Silver - as content	7440-22-4	All	Usage restriction	100 mg/kg	New substance. As metal content. Applies only to dyes.
Tin - as content	7440-31-5	All	Usage restriction	250 mg/kg	New substance. As metal content. Applies only to dyes.
Arsenic - as content	7440-38-2	All	Usage ban	50 mg/kg	Change of comment: As metal content. Applies to all types of formulations.
Cadmium - as content	7440-43-9	All	Usage ban	20 mg/kg	Change of comment: As metal content. Applies to all types of formulations. Limit for pigments: 50 mg/kg.
Chromium VI - as content	18540-29-9	All	Usage ban	10 mg/kg	Change of comment: As metal content. Applies to all types of formulations.
Lead - as content	7439-92-1	All	Usage ban	100 mg/kg	Change of comment: As metal content. Applies to all types of formulations.
Mercury - as content	7439-97-6	All	Usage ban	4 mg/kg	Change of comment: As metal content. Applies to all types of formulations. Limit for pigments: 25 mg/kg.

Other Chemical Substances

Name	CAS	Sector of Use	Limit Type	Value	Comment
Michler's ketone	90-94-8	All	Usage ban	1000 mg/kg	New substance
Michler's base	101-61-1	All	Usage ban	1000 mg/kg	New substance
Resorcinol	108-46-3	All	Usage ban	1000 mg/kg	New substance
Bisphenol S	80-09-1	All	Usage ban	10 mg/kg	Change of limits. Specific limit for leather tanning and aftertreatment: 1000 mg/kg
Triphenyl phosphate	115-86-6	All	Usage ban	1000 mg/kg	New substance
1-Butyl glycidyl ether	2426-08-6	All	Usage ban	100 mg/kg	New substance
Dimethyl hydrogen phosphite	868-85-9	All	Usage ban	100 mg/kg	New substance
1,4-dichloro-2-nitrobenzene	89-61-2	All	Usage ban	100 mg/kg	New substance
crystalline silica (quartz, cristobalite, tridymite) in respirable particle size	14808-60-7 14464-46-1 15468-32-3	All	Usage ban	No limit	Applies only for the intentional use of silica-based materials for sandblasting
Glycidyl methacrylate	106-91-2	All	Usage ban	100 mg/kg	New substance
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	All	Usage ban	1000 mg/kg	New substance
Pigment White 6 (Titanium dioxide)	13463-67-7	All	Usage ban	1 %	New substance Applies only for products in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	75980-60-8	All	Usage ban	1000 mg/kg	New substance
Dicumyl peroxide	80-43-3	All	Usage ban	1000 mg/kg	New substance Testing recommendation: LC- DAD // Solvent extraction
N,N-dimethyl-p-toluidine	99-97-8	All	Usage ban	150 mg/kg	New substance
Terpene hydrocarbons					
D-Limonene	5989-27-5	All	Usage ban	500 mg/kg	Delisted; Deleted from BSBL
DL- Limonene	138-86-3	All	Usage ban	500 mg/kg	
L- Limonene	5989-54-8	All	Usage ban	500 mg/kg	

Name	CAS	Sector of Use	Limit Type	Value	Comment
Perboric acid, sodium salt					
perboric acid (H ₃ BO ₂ (O ₂)), monosodium salt trihydrate	13517-20-9	All	Usage ban	250 mg/kg group limit	New substance
Borate(2-), tetrahydroxybis[μ-(peroxy-O:O')]di-, disodium, hexahydrate (Hanssons salt)	125022-34-6	All	Usage ban		New substance
Borate(2-), tetrahydroxybis[μ-(peroxy-κO1:κO2)]di-, sodium (1:2)	90568-23-3	All	Usage ban		New substance

Ozone depleting substances (ODS)

Name	CAS	Sector of Use	Limit Type	Value	Comment
Ozone Depleting Substances	Several	All	Usage ban	100 mg/kg group limit	Update of legal reference to Regulation (EU) 2024/590

PFAS

Name	CAS	Sector of Use	Limit Type	Value	Comment
Perfluorohexanoic acid related substances					
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	27619-97-2	All	Usage ban	1000 µg/kg group limit	New substance
tridecafluorooctyl acrylate	17527-29-6	All	Usage ban		New substance
tridecafluorooctyl methacrylate	2144-53-8	All	Usage ban		New substance

Solvents

Name	CAS	Sector of Use	Limit Type	Value	Comment
DMAC	127-19-5	All	Usage ban	500 mg/kg	Limit value increased
DMF	68-12-2	All	Usage ban	500 mg/kg	Limit value increased
1,2-Dichloropropane	78-87-5	All	Usage ban	100 mg/kg	New substance
2-Ethylhexanoic acid	149-57-5	All	Usage ban	500 mg/kg	New substance

Tin-organic Compounds

Name	CAS	Sector of Use	Limit Type	Value	Comment
Monomethyltin compounds (MMT)					
Methyltin trichloride	993-16-8	All	Usage ban	5 mg/kg Group Limit	New substance
Dimethyltin compounds (DMT)					
Dimethyltin dichloride	753-73-1	All	Usage ban	1 mg/kg Group Limit	New substance
Trimethyltin compounds (TMT)					
Trimethyltin chloride	1066-45-1	All	Usage ban	1 mg/kg Group Limit	New substance
Tetraethyltin compounds (TeET)					
Tetraethyltin	597-64-8	All	Usage ban	1 mg/kg Group Limit	New substance
Dipropyltin compounds (DPT)					
Dichlorodipropyltin	867-36-7	All	Usage ban	5 mg/kg Group Limit	New substance
Tripropyltin compounds (TPT)					
Tripropyltin chloride	2279-76-7	All	Usage ban	1 mg/kg Group Limit	New substance
Monobutyltin compounds (MBT)					
N-butyltin trichloride	1118-46-3	All	Usage ban	5 mg/kg Group Limit	New substance
Dibutyltin compounds (DBT)					
dibutyltin maleate	78-04-6	All	Usage ban	5 mg/kg Group Limit	New substance
dibutyltin oxide	818-08-6	All	Usage ban		New substance
Dibutyltin	1002-53-5	All	Usage ban		New substance
Tributyltin compounds (TBT)					
Tin-San (A tributyltin chloride complex)	56573-85-4	All	Usage ban	1 mg/kg Group Limit	New substance
Tributyltin chloride	1461-22-9	All	Usage ban		New substance
Tetrabutyltin compounds (TeBT)					
Tetrabutyltin	1461-25-2	All	Usage ban	1 mg/kg Group Limit	New substance

Name	CAS	Sector of Use	Limit Type	Value	Comment
Tricyclohexyltin compounds (TCyHT)					
Tricyclohexyltin chloride	3091-32-5	All	Usage ban	1 mg/kg Group Limit	New substance
Monooctyltin compounds (MOT)					
Monooctyltin trichloride	3091-25-6	All	Usage ban	5 mg/kg Group Limit	New substance
Diocetyl tin compounds (DOT)					
Diocetyl tin dihydride	15231-44-4	All	Usage ban	5 mg/kg Group Limit	New substance
Dichlorodioctyl stannane	3542-36-7	All	Usage ban		New substance
Triocetyl tin compounds (TOT)					
Triocetyl tin chloride	2587-76-0	All	Usage ban	1 mg/kg Group Limit	New substance
Tetraoctyltin compounds - (TeOT)					
Tetraoctyltin	3590-84-9	All	Usage ban	1 mg/kg Group Limit	New substance
Monophenyltin compounds (MPHT)					
Monophenyltin trichloride	1124-19-2	All	Usage ban	5 mg/kg Group Limit	New substance
Diphenyltin compounds (DPHT)					
Triphenyltin chloride	1135-99-5	All	Usage ban	5 mg/kg Group Limit	New substance
Triphenyltin compounds (TPHT)					
Triphenyltin	668-34-8	All	Usage ban	1 mg/kg	New substance
Triphenyltin chloride	639-58-7	All	Usage ban	Group Limit	New substance

UV Stabilizers

Name	CAS	Sector of Use	Limit Type	Value	Comment
UV-328	25973-55-1	All	Usage ban	1 mg/kg	Limit lowered from 1000 mg/kg

Testing Methods

Name	CAS	Old	new	Comment
Chlorinated benzenes and toluenes	Whole group	GC-MS // with reference to EN 17137 (2019)	EN 17137 (2024)	
Chlorinated Phenols	Whole group	DIN 50009 (2021)	EN 17134-2 (2023)	Sector of Use: Textile
Vinyl chloride	75-01-4	GC-MS // with reference to ISO 6401 (2008)	GC-MS // with reference to ISO 6401 (2022)	
Bisphenols	All listed	LC-MS // LC-MS/MS // LC-PDA // Extraction with Methanol or Methanol: Tetrahydrofuran (1:1)	ISO 21135 (2024)	
Borate, zinc salt	1332-07-6	ICP-OES // Indirect testing via Boron (DL 100 mg/kg) ICP-MS // Indirect testing via Boron (DL 100 mg/kg)	DIN EN 16711-1:2016 (ICP-OES)	
Tin-organic Compounds	Whole group	GC-MS // with reference to CEN ISO/TS 16179 (2012)	GC-MS // with reference to ISO 16179 (2025)	
PFAS	Whole group	GC- MS // LC-MS	EN 17681-1:2025	
Paraffin wax, chlorinated	63449-39-8	GC-MS // prEN ISO 18219-1 (2019) GC-(NCI) MS // prEN ISO 18219-1 (2019) GC-MS // prEN ISO 18219-2 (2019) GC-(NCI) MS // prEN ISO 18219-2 (2019)	LC-MS	
Paraffin, C18-C28, chlorinated - (LCCP)	85535-86-0			
Triclosan	3380-34-5	GC-MS	ISO 22992-2	
o-Phenylphenol and its salts	Several	DIN 50009 (2021)	EN 17134-1 (textile)	

Name	CAS	Old	new	Comment
Paraffin, C10-C13, chlorinated - (SCCP)	85535-84-8	GC-MS // prEN ISO 18219-1 (2019) GC- (NCI) MS // prEN ISO 18219-1 (2019) GC- MS // prEN ISO 18219-2 (2019) GC- (NCI) MS // prEN ISO 18219-2 (2019)	ISO 22818:2021 ISO 18219-1:2021	Textile and others Leather
Paraffin, C14-C17, chlorinated - (MCCP)	85535-85-9	GC-MS // prEN ISO 18219-1 (2019) GC- (NCI) MS // prEN ISO 18219-1 (2019) GC- MS // prEN ISO 18219-2 (2019) GC- (NCI) MS // prEN ISO 18219-2 (2019)	ISO 22818:2021 ISO 18219-2:2021	Textile and others Leather
Chromium VI - as content	18540-29-9	ICP // with reference to DIN EN 16711-1 (2016) AAS // with reference to DIN EN 16711-1 (2016)	EN ISO 17075-1, EN ISO 17075-2	