



bluesign System Substances List (BSSL)

Consumer safety limits

CHANGES 2025

Version 16.0, 01 July 2025 – compared to Version 15.0, 01 July 2024

Purpose

This document provides an overview of the changes in BSSL version 16.0 compared to version 15.0

Validity of BSSL v16.0

BSSL 16.0 comes into force on 01 July 2025.

It replaces the bluesign System Substances List (BSSL) version 15.0 from 01 July 2024.

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

Threshold limit values

Alkylphenoethoxylates (APEOs)

Name	CAS	Sector of Use	Limit Type	Value A/B/C	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				

Chlorinated benzenes and toluenes

Name	CAS	Sector of Use	Limit Type	Value A/B/C	Comment
Chlorinated benzenes and toluenes	Several	All	Usage ban	1/5/5 mg/kg group limit	Group limit value for usage range A lowered from 5 mg/kg

Colorants

Name	CAS	Sector of Use	Limit Type	Value A/B/C	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Disperse Blue 102	69766-79-6	All	Usage ban	200 mg/kg	Listed with the outdated CAS no. 12222-97-8 Added valid CAS number
Disperse Yellow 49	6858-49-7	All	Usage ban	200 mg/kg	Listed with the outdated CAS no. 54824-37-2 added valid CAS number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 A/B/C	Comment
Dimethyl propylphosphonate	18755-43-6	All	Usage ban	5 mg/kg	New substance
Antimony trioxide	1309-64-4	All	Limitation	260/260/-mg/kg	New substance Antimony as content. Usage as flame retardant in usage range C only if proper risk assessment shows that the application is safe for humans.
Monobromodiphenyl ether - (MonoBDE)					
2-Bromodiphenyl ether	7025-06-1	All	Usage ban	5.0 mg/kg group limit	Moved to Annex
3-Bromodiphenyl ether	6876-00-2				
4-Bromodiphenyl ether	101-55-3				
Tetrabromodiphenyl ether (TetraBDE)					
2,2',4,4'-Tetrabromodiphenyl ether	5436-43-1	All	Usage ban	5.0 mg/kg group limit	New substance
Hexabromodiphenyl ether (HexaBDE)					
2,2',4,4',5,5'-Hexabromodiphenyl ether	68631-49-2	All	Usage ban	5.0 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	5.0 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	0.1 mg/kg for each substance listed	New Group in BSSL. Regulation (EU) 2024/573)

Halogenated Biphenyls, halogenated Terphenyls and halogenated Naphthalenes

Name	CAS	Sector of Use	Limit Type	Value A/B/C	Comment
Polybrominated Biphenyls					
Dibromobiphenyl	27479-65-8	All	Usage ban	5 mg/kg group Limit	New substance
Octabromobiphenyls	27858-07-7	All	Usage ban		New substance
Nonabromobiphenyls	27753-52-2	All	Usage ban		New substance
Polychlorinated Naphthalenes					
Monochloro naphthalene	25586-43-0	All	Usage ban	0.5 mg/kg	Limit lowered from 1 mg/kg for sum of all members
Dichloro naphthalene	28699-88-9	All	Usage ban	0.5 mg/kg	Limit lowered from 1 mg/kg for sum of all members
Trichloro naphthalene	1321-65-9	All	Usage ban	0.5 mg/kg	Limit lowered from 1 mg/kg for sum of all members
Tetrachloro naphthalene	1335-88-2	All	Usage ban	0.5 mg/kg	Limit lowered from 1 mg/kg for sum of all members
Pentachloro naphthalene	1321-64-8	All	Usage ban	0.5 mg/kg	Limit lowered from 1 mg/kg for sum of all members
Hexachloro naphthalene	1335-87-1	All	Usage ban	0.5 mg/kg	Limit lowered from 1 mg/kg for sum of all members
Heptachloro naphthalene	32241-08-0	All	Usage ban	0.5 mg/kg	Limit lowered from 1 mg/kg for sum of all members
Octachloro naphthalene	2234-13-1	All	Usage ban	0.5 mg/kg	Limit lowered from 1 mg/kg for sum of all members
Polybrominated Naphthalenes					
Polybrominated Naphthalenes	Several	All	Usage ban	0.5 mg/kg	Limit lowered from 1 mg/kg for sum

Metals

Name	CAS	Sector of Use	Limit Type	Value A/B/C	Comment
Antimony	7440-36-0	All	No change	No change	Change of comment only, reference to bluesign Criteria deleted.
Chromium - as content	7440-47-3	Leather	Limitation	0.5 mg/kg	New limit value applies for leather that is not tanned with chromium.

Other Chemical Substances

Name	CAS	Sector of Use	Limit Type	Value A/B/C	Comment
Michler's ketone	90-94-8	All	Usage ban	100 mg/kg	New substances
Michler's base	101-61-1	All	Usage ban	100 mg/kg	
Resorcinol	108-46-3	All	Usage ban	100/500/500 mg/kg	
Bisphenol S	80-09-1	All	Usage ban	1/10/10 mg/kg	Change of limits. Exception for textile aftertreatment: 200 mg/kg Exception for leather tanning: 500 mg/kg
Bisphenol AF	1478-61-1	All	Usage ban	40/100/100 mg/kg	Changed limit value for A usage range. This substance belongs to PFAS.
Triphenyl phosphate	115-86-6	All	Usage ban	100/1000/1000 mg/kg	New substance
1-Butyl glycidyl ether	2426-08-6	All	Usage ban	1/10/10 mg/kg	New substance
Dimethyl hydrogen phosphite	868-85-9	All	Usage ban	25/50/50 mg/kg	New substance
1,4-dichloro-2-nitrobenzene	89-61-2	All	Usage ban	20 mg/kg	New substance
Glycidyl methacrylate	106-91-2	All	Usage ban	1/5/5 mg/kg	New substance
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	All	Usage ban	50/500/500 mg/kg	New substance
Acetophenone azine	729-43-1	All	Limitation	20 mg/kg	New substance
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	All	Usage ban	40/200/200 mg/kg	New substance
Dicumyl peroxide	80-43-3	All	Usage ban	200 mg/kg	New substance
N,N-dimethyl-p-toluidine	99-97-8	All	Usage ban	20 mg/kg	New substance
Siloxanes					
Octamethylcyclotetrasiloxane (D4)	556-67-2	All	Usage ban	500 mg/kg	Limit increased from 30 mg/kg
Decamethylcyclopentasiloxane (D5)	541-02-6	All	Usage ban	500 mg/kg	Limit increased from 200 mg/kg
Dodecamethylcyclohexasiloxane (D6)	540-97-6	All	Usage ban	500 mg/kg	Limit increased from 200 mg/kg
Terpene hydrocarbons					
D-Limonene	5989-27-5	All	Limitation	100/500/500 mg/kg	Limit increased from 10 mg/kg

Name	CAS	Sector of Use	Limit Type	Value A/B/C	Comment
DL- Limonene	138-86-3	All	Limitation	100/500/500 mg/kg	Limit increased from 10 mg/kg
L- Limonene	5989-54-8	All	Limitation	100/500/500 mg/kg	Limit increased from 10 mg/kg
Perboric acid, sodium salt					
perboric acid (H ₃ BO ₂ (O ₂)), monosodium salt trihydrate	13517-20-9	All	Usage ban	100 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 A/B/C	Comment
Ozone Depleting Substances	Several	All	Usage ban	0.1 mg/kg for every substance	Update of legal reference to Regulation (EU) 2024/590.

Pesticides

Name	CAS	Sector of Use	Limit Type	Value A/B/C	Comment
Glyphosate	1071-83-6	All	Limitation	0.5 mg/kg group limit	New substance

PFAS

Name	CAS	Sector of Use	Limit Type	Value A/B/C	Comment
Perfluorooctane sulfonic acid and its derivatives	Several	All	Usage ban	1000 µg/kg	Group limit changed from 1µg/m ²

Name	CAS	Sector of Use	Limit Type	Value A/B/C	Comment
Perfluorooctane sulfonic acid and its salts	Several	All	Usage ban	25 µg/kg	Group limit added
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 A/B/C	Comment
Toluene	108-88-3	All	Usage ban	10/50/50 mg/kg No change	Change of comment: Usage ban does not apply to chemical products that are used in the following processes: solvent coating, laminating and painting/lacquering, but limit values for consumer safety must be kept. Testing of finished articles is necessary to provide evidence that limits are kept (see bluesign Criteria for chemical assessment, ANNEX: Exceptions)
Isophorone	78-59-1	All	Limitation	20/100/100 mg/kg	New substance
1,2-Dichloropropane	78-87-5	All	Usage ban	5 mg/kg	New substance
2-Ethylhexanoic acid	149-57-5	All	Usage ban	40/200/200 mg/kg	New substance

Tin-organic Compounds

Name	CAS	Sector of Use	Limit Type	Value A/B/C	Comment
Monomethyltin compounds (MMT)					
Methyltin trichloride	993-16-8	All	Usage ban	1 mg/kg group limit	New substance
Dimethyltin compounds (DMT)					
Dimethyltin dichloride	753-73-1	All	Usage ban	0.5 mg/kg group limit	New substance
Trimethyltin compounds (TMT)					
Trimethyltin chloride	1066-45-1	All	Usage ban	0.5 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	1 mg/kg group limit	New substance
Tripropyltin compounds (TPT)					
Tripropyltin chloride	2279-76-7	All	Usage ban	0.5 mg/kg group limit	New substance
Monobutyltin compounds (MBT)					
N-butyltin trichloride	1118-46-3	All	Usage ban	1 mg/kg group limit	New substance
Dibutyltin compounds (DBT)					
dibutyltin maleate	78-04-6	All	Usage ban	1 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	0.5 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	0.5 mg/kg group limit	New substance
Tricyclohexyltin compounds (TCyHT)					
Tricyclohexyltin chloride	3091-32-5	All	Usage ban	0.5 mg/kg group limit	New substance
Monooctyltin compounds (MOT)					
Monooctyltin trichloride	3091-25-6	All	Usage ban	1 mg/kg group limit	New substance
Diocetyl tin compounds (DOT)					
Diocetyl tin dihydride	15231-44-4	All	Usage ban	1 mg/kg group limit	New substance
Dichlorodiocetyl stannane	3542-36-7	All	Usage ban		New substance

Name	CAS	Sector of Use	Limit Type	Value A/B/C	Comment
Trioctyltin compounds (TOT)					
Trioctyltin chloride	2587-76-0	All	Usage ban	0.5 mg/kg Group Limit	New substance
Tetraoctyltin compounds - (TeOT)					
Tetraoctyltin	3590-84-9	All	Usage ban	0.5 mg/kg Group Limit	New substance
Monophenyltin compounds (MPhT)					
Monophenyltin trichloride	1124-19-2	All	Usage ban	1 mg/kg Group Limit	New substance
Diphenyltin compounds (DPHT)					
Triphenyltin chloride	1135-99-5	All	Usage ban	1 mg/kg Group Limit	New substance
Triphenyltin compounds (TPHT)					
Triphenyltin	668-34-8	All	Usage ban	0.5 mg/kg Group Limit	New substance
Triphenyltin chloride	639-58-7	All	Usage ban		New substance

UV Stabilizers

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

Testing Methods Recommendation Changes

Name	CAS	Old	New	Sector of Use
Chlorinated benzenes and toluenes	Whole group	EN 17137 (2018)	EN 17137 (2024)	All
Chlorinated Phenols	Whole group	DIN 50009 (2021)	EN 17134-2 (2023)	Textile
Vinyl chloride	75-01-4	ISO 6401 (2008)	ISO 6401 (2022)	All
Bisphenols	All listed	LC-MS // LC-MS/MS // LC-PDA //	ISO 11936 (2023)	Leather
		Extraction with Methanol or Methanol: Tetrahydrofuran (1:1)	LC-MS // LC-MS/MS // LC-PDA // Extraction with Methanol or Methanol: THF (1:1) or THF	Textiles

Name	CAS	Old	New	Sector of Use
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)	Textiles, Down/feather, polymer parts, metal parts
			DIN EN ISO 17072-2:2022	Leather
Tin-organic Compounds	Whole group	GC-MS // with reference to CEN ISO/TS 16179 (2012)	ISO 16179 (2025)	Textile
PFAS	Whole group	CEN/TS 15968 (2010) prEN 17681-1:2023	EN 17681-1:2025	Textiles Down/feather Polymer parts Metal parts
Paraffin wax, chlorinated; Paraffin, C18-C28, chlorinated - (LCCP)	63449-39-8 85535-86-0	ISO 22818 (2021)	LC-MS	Textiles Down/feather Polymer parts Metal parts
		ISO 18219 (2021)	LC-MS	Leather
o-Phenylphenol and its salts	Several	DIN 50009 (2021)	EN 17134-1	Textile
			ISO 13365-1	Leather
Biocides	Several	prEN ISO 13365-1 (2019)	ISO 13365-1	Leather
Nonylphenoethoxylates (NPEO)	Several	EN ISO 18218-1 (2015)	ISO 18218-1 (2023)	Leather
Octylphenol ethoxylates (OPEO)				
Chromium VI - as content	18540-29-9	EN ISO 17075-1	EN ISO 17075-2	Textiles Down/feather Polymer parts