

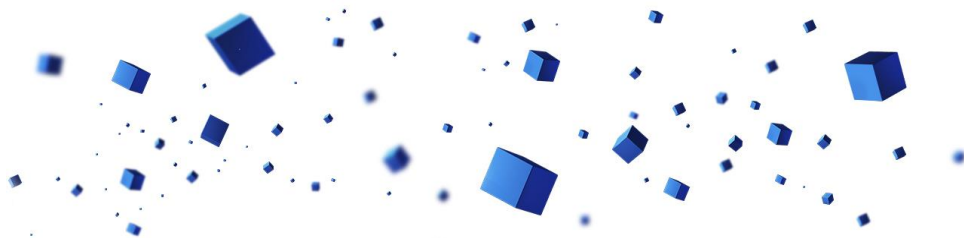
bluesign® system black limits (BSBL)

Threshold limit values for chemical substances in chemical products

CHANGES 2023

Version 5.0, 01 July 2023 – compared to Version 4.0, 01 July 2022





Purpose

This document provides an overview of the changes in BSBL version 5.0 compared to version 4.0. Changes are marked in red.

Validity of BSBL 5.0

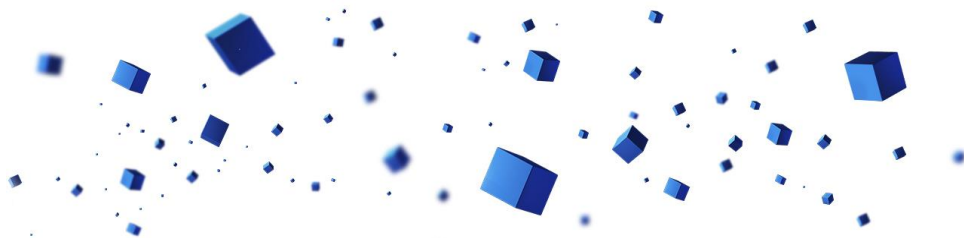
BSBL 5.0 comes into force on 01 July 2023.

It replaces the bluesign® system black list (BSBL) version 4.0 from 01 July 2022.

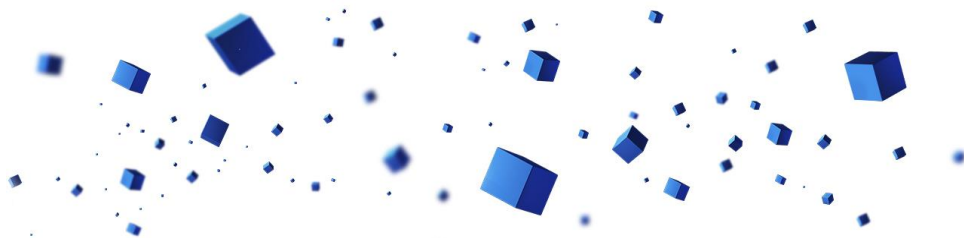
For all bluesign® SYSTEM PARTNERS: Unless otherwise stated, the revised sections will be implemented by 01 July 2024 at the latest.

Threshold Limit Values

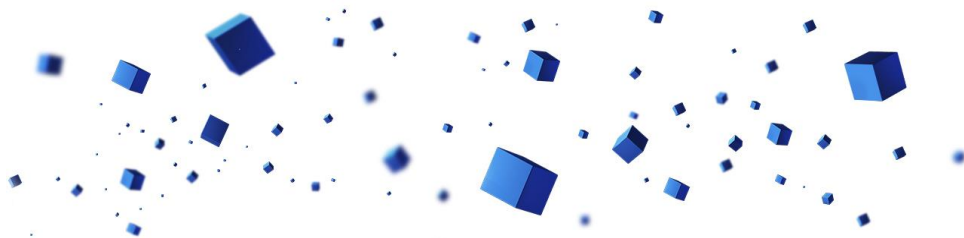
Aldehydes						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Glutaraldehyde	111-30-8	Leather	Usage ban	1000	mg/kg	Leather: From Monitoring to Usage ban. Allowed as in-can preservation (< 1000 ppm).
Alkylphenols (APs)						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Group of: Tris(4-nonylphenyl, branched and linear) phosphite	Several	All				The whole group is deleted from BSBL. SVHC restriction is covered by NP.
Amines						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Aniline - free content	62-53-3	All	Usage restriction	500	mg/kg	Supplement to comment: Exceptional limit for Indigo: 2000 mg/kg (only valid when Indigo content of the preparation ≥ 30%).
Melamine	108-78-1	All	Usage ban	1000	mg/kg	New substance.
Colorants						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Disperse Blue 124	61951-51-7 15141-18-1	All	Usage ban	200	mg/kg	Additional CAS no. added



Flame Retardants						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Bis(2-ethylhexyl) tetrabromophthalate	26040-51-7	All	Usage ban	50	mg/kg	New substance.
Tribromodiphenyl ether - (TriBDE)	49690-94-0	All	Usage ban	50	mg/kg	New substance.
Greenhouse Gases, fluorinated						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
HFC-152 (1,2-Difluoroethane)	624-72-6	All	Usage ban	10	mg/kg	New substances to complete Annex I of EU regulation on fluorinated GHG.
HFC-161 (Monofluoroethane)	353-36-6	All	Usage ban	10	mg/kg	
Glycols						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
2-Methoxypropylacetate	70657-70-4	Leather	Usage ban	50	mg/kg	New limit and specific limit for leather finishing: 200 mg/kg.
Other Chemical Substances						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Azodicarbonamide (ADCA)	123-77-3	All	Usage ban	1000	mg/kg	New substance in BSBL.
Bisphenol AF	1478-61-1	All	Usage ban	100	mg/kg	New substance in BSBL.
Bisphenol F	620-92-8	All	Monitoring	1000	mg/kg	New substance in BSBL.
Bisphenol S	80-09-1	All	Usage ban	1000	mg/kg	New substance in BSBL.
Barium diboron tetraoxide	13701-59-2	All	Usage ban	250	mg/kg	New substance.
Tetraboron disodium heptaoxide, hydrate	12267-73-1	All	Usage ban	250	mg/kg	Limit updated (before 1000 mg/kg by mistake).
2-Butanone oxime	96-29-7	All	Usage ban	50	mg/kg	New: Usage ban.
Formamide	75-12-7	All	Usage ban	200	mg/kg	Higher limit (from 100).
Perfluoroalkyl Carboxylic Acids and Derivatives - PFCA						
Perfluoroalkyl Sulfonic Acids and Derivatives - PFSA						
Both groups are merged to a new group: PFAS (Poly- and perfluoroalkyl substances)						



PFAS (Poly- and perfluoroalkyl substances)						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
PFAS (Poly- and perfluoroalkyl substances)	Several	All	Usage ban	50	mg/kg	New group. Limit refers to total fluorine content. See also "Guidance Sheet PFAS phase out" and PFAS statement in section 6.
Perfluorobutanoic acid and its salts	Several	All	Usage ban	1000	µg/kg	New limit value.
Perfluorohexanoic acid and its salts	Several	All	Usage ban	25	µg/kg	New limit value.
Perfluorocarboxylic acid (C9-C14) and its salts	Several	All	Usage ban	25	µg/kg	New defined group, legal limit.
Perfluorobutanoic acid related substances	Several	All	Usage ban	1000	µg/kg	New defined group.
4:2 Fluorotelomer alcohol (4:2 FTOH)	2043-47-2	All	Usage ban			New substance, align MRSL. Limit on group level.
Perfluorohexanoic acid related substances	Several	All	Usage ban	1000	µg/kg	New limit value.
Perfluorocarboxylic acid (C9-C14) related substances	Several	All	Usage ban	260	µg/kg	New defined group, legal limit.
Perfluorodecanoic acid related substances	Several	All	Usage ban			New subgroup, limit on higher level.
10:2 Fluorotelomer alcohol (10:2 FTOH)	865-86-1	All	Usage ban			New substance, align MRSL. Limit on group level.
Perfluorobutane sulfonic acid and its salts	Several	All	Usage ban	1000	µg/kg	New limit value.
Perfluorohexane sulphonic acid and its salts	Several	All	Usage ban	25	µg/kg	New limit value.
Perfluorodecane sulfonic acid	335-77-3	All	Usage ban			New substance. Limit on group level.
Solvents						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
2-Pyrrolidone	616-45-5	All	Usage ban	1000	mg/kg	From monitoring to usage ban.



Substances with usage restrictions but no consumer safety limits						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Ethylenediaminetetraacetic acid tetraammonium salt	22473-78-5	All	Usage ban	1000	mg/kg	New added substances, belong to EDTA/DTPA group. Usage ban as water softener for freshwater preparation and use in textile auxiliaries.
Ethylenediaminetetraacetic acid magnesium disodium salt	14402-88-1	All	Usage ban	1000	mg/kg	
Diethylenetriaminepentaacetic acid - (DTPA)	67-43-6	All	Usage ban	1000	mg/kg	
Diethylenetriaminepenta(methyl enephosphonic acid) sodium salt	22042-96-2	All	Usage ban	1000	mg/kg	
1-Hydroxyethane-1,1-diphosphonic acid disodium salt	7414-83-7	All	Usage ban	1000	mg/kg	
1-Hydroxyethane-1,1-diphosphonic acid potassium salt	67953-76-8	All	Usage ban	1000	mg/kg	
Tin-organic Compounds						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Monobutyltin-tris(ethylhexoate)	23850-94-4	All	Usage ban			New substances, limit on group level.
Dibutyltin bis (2-ethylhexanoate)	2781-10-4	All	Usage ban			
Dibutyltin di(acetate)	1067-33-0	All	Usage ban			

Revised test methods

Substances	Revision	Comment
Chlorinated Phenols	Add method for leather (EN ISO 17070).	
Colorants	Update version for all colorants: DIN 54231 (2022).	New version
Several solvents (2-Pyrrolidone, NEP, NMP, DMF, DMAc)	Replace CEN ISO 16189 (2013) by ISO 16189 (2021).	
Cyclic Siloxanes (D4-, D5-, D6-)	Reference to updated version: TEGEWA method (2021).	New version
PVC	Total chlorine (EN 14582) // FTIR (when chlorine detected)	Based on problems with quantification