

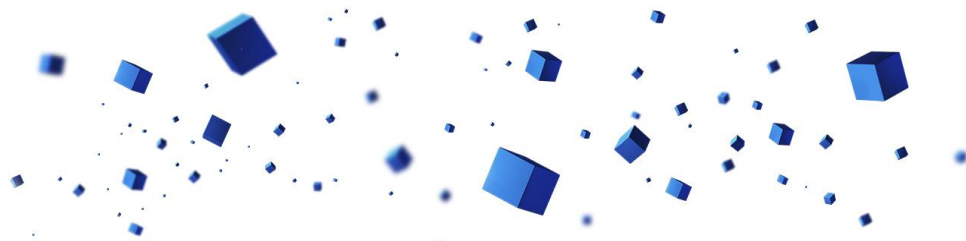
bluesign® system black limits (BSBL)

Threshold limit values for chemical substances in chemical products

CHANGES 2022

Version 4.0, 01 July 2022 – compared to Version 3.0, 01 July 2021





Purpose

This document provides an overview of the changes in BSBL version 4.0 compared to version 3.0. Changes are marked in red.

Validity of BSBL 4.0

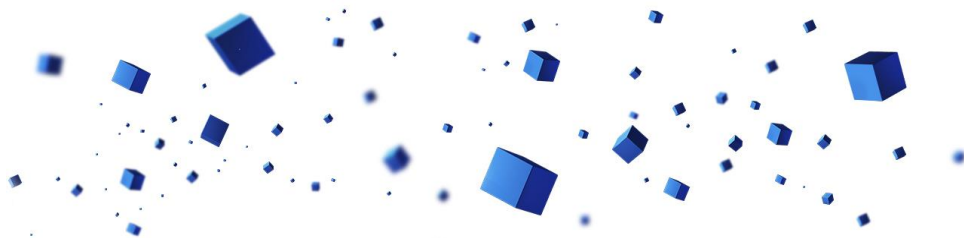
BSBL 4.0 comes into force on 01 July 2022.

It replaces the bluesign® system black list (BSBL) version 3.0 from 01 July 2021.

For all bluesign® SYSTEM PARTNERS: Unless otherwise stated, the revised sections will be implemented by 01 July 2023 at the latest.

Threshold Limit Values

Aldehydes						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Acrolein	107-02-8	All	Usage ban	50	mg/kg	Higher limit value.
Glutaraldehyde	111-30-8	Textiles Metal parts Polymer parts Down/feather Leather	Usage ban Monitoring	1000 1000	mg/kg mg/kg	New substance.
Alkylphenoethoxylates (APEOs)						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Group	Several	All				Revised test method: According to ISO 18254-1 (2016).
Alkylphenols (APs)						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Group	Several	All				Revised test method: According to ISO 21084 (2019).
Dodecylphenol, mixed isomers	27193-86-8	All	Usage ban	100	mg/kg	New group of substances. Limit for sum of all allocated substances.
Phenol, dodecyl-, branched	121158-58-5	All				6 new substances of group dodecylphenol, mixed isomers. Listed in Annex.
Phenol, 4-dodecyl-, branched	210555-94-5	All				
Phenol, (tetrapropenyl) derivatives	74499-35-7	All				
Phenol, 4-dodecyl-	104-43-8	All				
Phenol, 4-isododecyl	27459-10-5 27147-75-7	All				
Phenol, tetrapropylene	57427-55-1	All				



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 test method.
Biocides						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Dimethylfumarate	624-49-7	All				Test method update: ISO 16186 (2021).
o-Phenylphenol and its salts	Several	Textiles				Test method update: DIN 50009 (2021).
Chlorinated Phenols						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Group	Several	All				New test method: DIN 50009 (2021).
Colorants						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Pigment Black 25	68186-89-0					Deleted from BSBL and BSSL.
Pigment Yellow 157	68610-24-2					Deleted from BSBL and BSSL.
Solvent Red 80	6358-53-8	All	Usage ban	200	mg/kg	New substance.
Direct Brown 95	16071-86-6	All				Moved to group "Colorants with carcinogenic potential".
Enzymes						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Enzymes, industrial	Several	All	Usage ban	1000	mg/kg	New group. Usage ban for enzymes in powder form. Limit valid for group. Single members / substances listed in Annex.
Subtilisins	1395-21-7	All				
Cellulase	9012-54-8	All				
Subtilisin	9014-01-1	All				
alpha-Amylase	9000-90-2	All				
Laccase	80498-15-3	All				
Peroxidase	9003-99-0	All				
Flame Retardants						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Brominated alkyl alcohols	Several					New group to cover new substances.
1-Propanol, 2,2-dimethyl-, tribromo deriv.	36483-57-5 1522-92-5	All	Usage ban	50	mg/kg	New substance.
2,3-Dibromopropan-1-ol - (2,3-DBPA)	96-13-9	All	Usage ban	50	mg/kg	New substance.



Glycols						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Group	Several					Revised test method: LC-MS instead of GC-MS.
Metals						
"Metal" – as content	For all regulated metals, the restriction limits are valid for the content of elemental metal in the substances or articles. This did not change. To better cover this elemental content, for each regulated metal a new "substance" is created: "Metal" - as content. The BSBL limits are shifted to this substance. This does not cause any change of the limits or rating of the chemical products; it just better reflects the requirements.					
Nitrosamines						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
N-Nitrosomethyl-n-propylamine	924-46-9	All	Usage ban	1	mg/kg	New substance.
N-Nitrosomethyl-n-butylamine	7068-83-9	All	Usage ban	1	mg/kg	New substance.
Other Chemical Substances						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
1,4-Dioxane	123-91-1	All	Usage ban	1000	mg/kg	New substance in BSBL.
Bisphenol B	77-40-7	All	Usage ban	100	mg/kg	New substance.
Sodium borohydride	16940-66-2	All	Usage ban	250	mg/kg	New substance.
Perfluoroalkyl Carboxylic Acids and Derivatives - PFCA						
Perfluoroalkyl Sulfonic Acids and Derivatives - PFSA						
General usage ban for all PFCA/PFSA chemicals. All substances listed in this groups with status monitoring or limitation are changed to usage ban. Exceptions only possible for chemical products (based on C6 chemistry) that are intended for essential use as defined in coming EU regulation.						
Polyaromatic Hydrocarbons (PAHs)						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Naphtho[1,2,3,4-def]chrysene	192-65-4	All				5 new substances in group. Group limit value applies.
Dibenzo[b,def]chrysene	189-64-0	All				
Benzo[rst]pentaphene	189-55-9	All				
Methylpyrene, 1-	2381-21-7	All				
Cyclopenta[c,d]pyrene	27208-37-3	All				
Solvents						
Chemical Name	CAS Number	Sector of Use	Limit Type	Value	Unit	Comment
Xylene, all isomers	1330-20-7	All	Usage ban	500	mg/kg	Higher limit value. Exception for solvent coating and metal treatment.
Toluene	108-88-3	All	Usage ban	500	mg/kg	New in BSBL. Exception for solvent coating and metal treatment.