

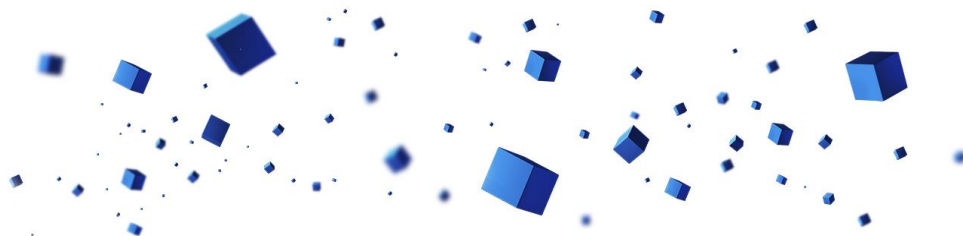
bluesign® system substances list (BSSL)

CHANGES 2020

Consumer safety limits

Version 11.0, December 1, 2020 – compared to Version 10.0, July 1, 2019





Purpose

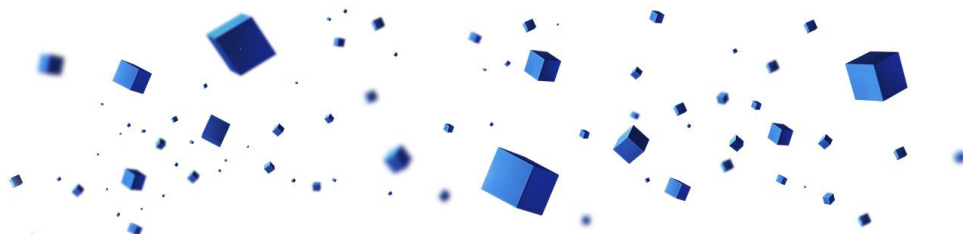
This document gives an overview about the relevant changes in BSSL version 11.0 compared to version 10.0. Changes are marked in red color.

Consumer Safety Limits

Aldehydes					
Chemical Substances	CAS Number	Limit Value [mg/kg] Usage range			Comments
		A	B	C	
Acetaldehyde	75-07-0	Usage ban: 10			New usage ban, new classified as carcinogenic by ECHA

Alkylphenols and Alkylphenoethoxylates					
Chemical Substances	CAS Number	Limit Value [mg/kg] Usage range			Comments
		A	B	C	
Alkylphenols (APs)	Several				
Tris(4-nonylphenyl, branched and linear) phosphite	Several	Usage ban // 100 (for the group)			New group, based on new SVHC entry
Tris(4-nonylphenyl, branched) phosphite					
Tris(nonylphenyl) phosphite	26523-78-4				
Phenol, 4-nonyl-, phosphite (3:1)	3050-88-2				
4 tert. Butylphenol	98-54-4	Usage ban // 10			New, based on new SVHC entry

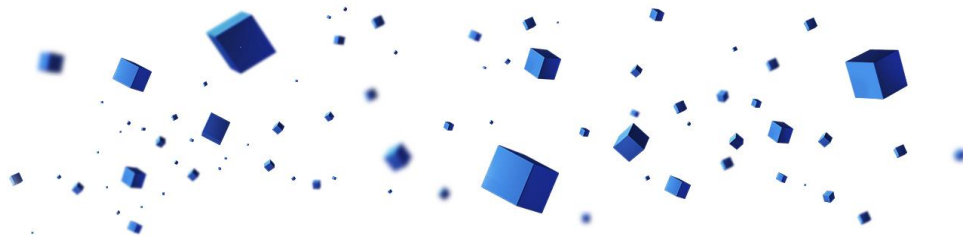
Amines					
Chemical Substances	CAS Number	Limit Value [mg/kg] Usage range			Comments
		A	B	C	
N-Methylaniline (Methylphenylamine)	100-61-8	30	30	30	Higher limit, alignment with Aniline



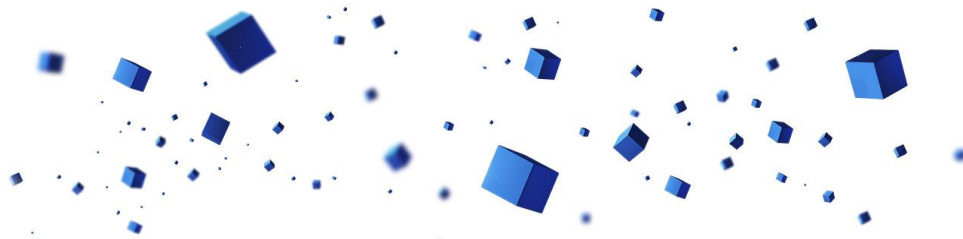
Biocides					
Chemical Substances	CAS Number	Limit Value [mg/kg] Usage range			Comments
		A	B	C	
2-Methyl-4-isothiazolin-3-one (MIT)	2682-20-4	Usage ban; traces from preservatives: 10			Lower limit, changed assessment for sensitizing property by ECHA
o-Phenylphenol and its salts	Several	For leather: 50/100/200 For textile: 50			New group, covering salts, substance alignment with ZDHC MRSL 2.0
Sodium 2-biphenylate 132-27-4	132-27-4				New, member of group

Colorants					
Colorants with carcinogenic potential					
Chemical Substances	CAS Number	Limit Value [mg/kg] Usage range			Comments
		A	B	C	
Solvent Violet 8 – with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	561-41-1	Usage ban // 20			New, is in SVHC candidate list

Flame Retardants					
Chemical Substances	CAS Number	Limit Value [mg/kg] Usage range			Comments
		A	B	C	
Tricresylphosphate	1330-78-5	Usage ban // 5.0			New, for completion of substance group
Polybrominated diphenyl ethers (PBDE)	Several				
Monobromodiphenyl ether (MonoBDE)	Several	Usage ban // 5.0 for every single substance			New, substance alignment with ZDHC MRSL 2.0



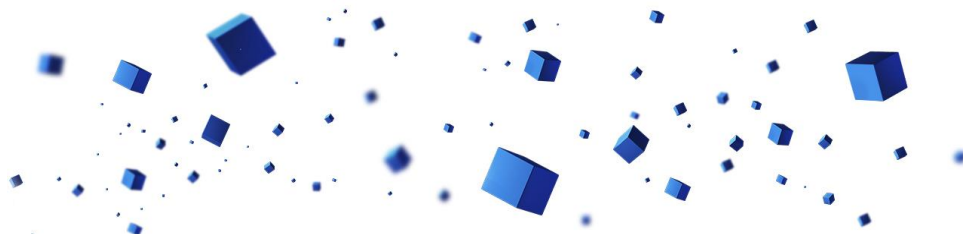
Fluorinated Substances					
Chemical Substances	CAS Number	Limit Value [mg/kg] Usage range			Comments
		A	B	C	
Perfluorooctanoic acid (PFOA) and its salts	Several	Usage ban // 25 [µg/kg] (for the sum of PFOA and salts)			PFOA changed to group, salts included, for alignment with EU regulation 2 new entries added
Sodium pentadecafluorooctanoate	335-95-5				
Potassium perfluorooctanoate	2395-00-8				
PFOA-related substances	Several	Usage ban // 1000 [µg/kg] (for the sum of PFOA-related substances)			3 new substances, to fill existing substance group
Octanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8-pentadecafluoro-	335-66-0				
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8-pentadecafluoro-, methyl ester	376-27-2				
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7, 8,8,8-pentadecafluoro-, ethyl ester	3108-24-5				
Perfluoroalkyl compounds, branched	Several				New group, to cover below substances
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	Several	Usage ban: 0.05 (for the group)			New group of substances, based on new SVHC entry
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid	13252-13-6				
Ammonium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	62037-80-3				
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionyl fluoride	2062-98-8				
Potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate	67118-55-2				



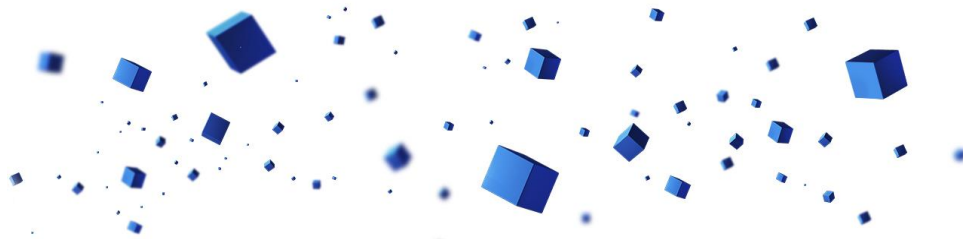
Greenhouse Gases, fluorinated					
Chemical Substances	CAS Number	Limit Value [mg/kg] Usage range			Comments
		A	B	C	
Greenhouse gases, fluorinated	Several				This substance group is removed from BSSL due to the fact that the corresponding risk is not related to consumer safety, but to the environment during manufacturing. Testing textiles on these high volatile components is not an appropriate measure to control these substances. Bluesign restricts and controls these substances via BSBL and process control at manufacturing sites.

Halogenated Biphenyls, halogenated Terphenyls and halogenated Naphthalenes					
Chemical Substances	CAS Number	Limit Value [mg/kg] Usage range			Comments
		A	B	C	
Polybrominated biphenyls (PBBs)	59536-65-1				
Monobromobiphenyl	26264-10-8			Usage ban // 5.0	New, to complete group, substance alignment with ZDHC MRS� 2.0

Isocyanates					
Chemical Substances	CAS Number	Limit Value [mg/kg] Usage range			Comments
		A	B	C	
Isocyanates	Several			Free content, sum of all isocyanates: 1.0 PU-coating and plastics: Monitoring	"Monitoring" status removed, limit can be kept with good processing.



Other Chemical Substances					
Chemical Substances	CAS Number	Limit Value [mg/kg] Usage range			Comments
		A	B	C	
Acetic acid	64-19-7	100	1000	1000	Deleted from BSSL, basic chemical, no consumer safety risk
Acetone oxime	127-06-0	20	100	100	Limit defined based on consumer safety calculation
Colophony (Rosin)	8050-09-7	Usage ban // 10			Higher limit, based on new assessment
D4-Siloxane (Octamethylcyclotetrasiloxane)	556-67-2	Usage ban // 30			New limit, adapted to DL of test methods
D5-Siloxane (Decamethylcyclopentasiloxane)	541-02-6	Usage ban // 50			
D6-Siloxane (Dodecamethylcyclohexasiloxane)	540-97-6	Usage ban // 50			
3,5-Dimethylpyrazole	67-51-6	Monitoring			Limit defined based on consumer safety calculation, at first "Monitoring"
		50	200	200	
Methanol	67-56-1	200	1000	1000	Higher limit, based on new assessment
2-Phenyl-2-propanol	617-94-7	10	50	50	Higher limit, based on new assessment
Terpene hydrocarbons					
D-Limonene	5989-27-5	Usage ban // 10			Higher limit, based on new assessment
DL-Limonene	138-86-3	Usage ban // 10			
L-Limonene	5989-54-8	Usage ban // 10			
Boron zinc oxide	12767-90-7	Usage ban: 100			New, to complete boric acid derivatives group
Bisphenol F	620-92-8	Monitoring: 10			New, possible replacements of Bisphenol A
Bisphenol S	80-09-1	Monitoring: 10			
Bisphenol AF	1478-61-1	Monitoring: 10			
ADCA (Azodicarbonamide)	123-77-3	100	200	200	New, blowing agent with respiratory sensitizing property



Solvents					
Chemical Substances	CAS Number	Limit Value [mg/kg] Usage range			Comments
		A	B	C	
n-Hexane	110-54-3	10	50	50	Higher limit, based on new assessment
Xylene, all isomers	1330-20-7	Sum of all xylenes: 10 For textile, leather, plastic and rubber			Higher limit, based on new assessment
m-Xylene	108-38-3				
o-Xylene	95-47-6				
p-Xylene	106-42-3				

Substances with usage restrictions but no consumer safety limits		
Chemical Substances	CAS Number	Comments
All deleted		Deleted in BSSL, not relevant for consumer safety

Annex I Compilation of single substances

Chlorinated Benzenes and Toluenes		
Chemical Substances	CAS Number	Comments
2,3,4,5-Tetrachlorotoluene	1006-32-2	CAS number corrected
2,3,5,6-Tetrachlorotoluene	1006-31-1	CAS number corrected