

CADS RSL 2021



cads – cooperation for assuring defined standards for shoe- and leather goods production e.V.

List of Restricted Substances / Version 08 from 2021.01.12

The CADS limits are valid for the legal area of the European Union / EU.

Analysis have to be carried out according to the standards and methods defined by cads cooperation.

The actual list of methods can be found at www.cads-shoes.com

Change Index CADS RSL 2021

Header	2021 - added to CADS Limits EU - added to legal Limits
Page 1	3,3'-Dichlorobenzidine and 3,3'-Dimethylbenzidine - substance names revised
Page 5	not detectable S (Switzerland) - regulation was deleted for parameter p-Phenylenediamine
Page 6	Perfluorooctanoylfluoride (PFOA-F oder F-PFO) Cas Nr. 335-66-0 - removed from PFOA Salts into a new line and Cas-No. revised Σ 0,025 mg/kg - change of Limit for PFOA-related Substances into limit for the sum
Page 7	11/2020 - legal regulation addition of the Phthalates BBP, DBP, DEHP, DIBP
Page 9	872-50-4 - Cas-No. for NMP revised

Substance Group	Short Name	CAS No. 1	CAS No. 2	Modification	2021 cads limits	Legal limits EU R1 = REACH Appendix XVII D = German limit P = POP-VO S = other limit	REACH SVHC-Candidate	Whole product	Leather / fur ^{o)}	Coated Leather	Leather fibre board	PVC	EVA, EVA foam	Rubbe materials Latex	PU, TPU as Polymer	TPE-TPR	Blown materials, Foam	Synth. Textile	Coated Textile	PU-coating DMFa-"free"	Natural Textile	Textiles with applications	Wood, Cork	Adhesive, process chemicals (processed)	Metallic Hardware	Cellulosic Material
AZO Dyes					each Amin	each Amin			x	x	x							x	x	x	x	x			x	
3,3'-Dichlorobenzidine		91-94-1		■	20 mg/kg	30 mg/kg R1																				
3,3'-Dimethylbenzidine		119-93-7		■	20 mg/kg	30 mg/kg R1																				
2,4-Diaminoanisole/ 2,4-Ddiaminoanisol sulphate		615-05-4	39156-41-7		20 mg/kg	30 mg/kg R1																				
2,4-Toluylenediamine		95-80-7			20 mg/kg	30 mg/kg R1	x																			
2,4-Xylidine		95-68-1			20 mg/kg	20 mg/kg (China)																				
2,6-Xylidine		87-62-7			20 mg/kg	20 mg/kg (China)																				
2-Amino-4-nitrotoluene		99-55-8			20 mg/kg	30 mg/kg R1																				
2-Naphthylamine/ 2-Naphthylammonium acetate		91-59-8	553-00-4		20 mg/kg	30 mg/kg R1																				
3,3'-Dimethoxybenzidine		119-90-4			20 mg/kg	30 mg/kg R1																				
3,3'-Dimethyl-4,4'-diaminodiphenylmethane		838-88-0			20 mg/kg	30 mg/kg R1	x																			
4,4'-Diaminodiphenylmethane		101-77-9			20 mg/kg	30 mg/kg R1	x																			
4,4'-Methylene-bis-(2-chloroaniline)		101-14-4			20 mg/kg	30 mg/kg R1	x																			
4,4'-Oxydianiline		101-80-4			20 mg/kg	30 mg/kg R1	x																			
4,4'-Thiodianiline		139-65-1			20 mg/kg	30 mg/kg R1																				
4-Aminoazobenzene		60-09-3			20 mg/kg	30 mg/kg R1	x																			
4-Aminodiphenyl		92-67-1			20 mg/kg	30 mg/kg R1	x																			
4-Chloro-o-toluidine/ 4-Chloro-o-toluidinium chloride		95-69-2	3165-93-3		20 mg/kg	30 mg/kg R1																				
Benzidine		92-87-5			20 mg/kg	30 mg/kg R1																				
o-Aminoazotoluene		97-56-3			20 mg/kg	30 mg/kg R1	x																			
o-Anisidine / 2-Methoxyaniline		90-04-0			20 mg/kg	30 mg/kg R1	x																			
o-Toluidine		95-53-4			20 mg/kg	30 mg/kg R1	x																			
p-Chloroaniline		106-47-8			20 mg/kg	30 mg/kg R1																				
p-Cresidine		120-71-8			20 mg/kg	30 mg/kg R1	x																			
2,4,5-Trimethylaniline/ 2,4,5-Trimethylanilin hydrochloride		137-17-7	21436-97-5		20 mg/kg	30 mg/kg R1																				
Biocides																										
Dimethylfumarate	DMFU	624-49-7			0.1 mg/kg	0.1 mg/kg R1		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
2-(Thiocyanomethylthio)-Benzothiazol ^{f)}	TCMTB	21564-17-0			500 mg/kg			x	x	x																
4-Chloro-3-methylphenol ^{f)}	CMK	59-50-7			600 mg/kg			x	x	x																
2-Phenylphenol ^{f)}	OPP	90-43-7			1000 mg/kg			x	x	x																
2-Phenylphenol ^{f)}	OPP	90-43-7			100 mg/kg													x	x	x	x	x			x	
2-Octylisothiazol-3(2H)-one ^{f)}	OIT	26530-20-1			250 mg/kg			x	x	x																
Triclosan ^{f)}		3380-34-5		■	50 mg/kg			x	x	x								x	x	x	x	x			x	

x test/ limit for materials with and without skin contact
 ● test/ limit only for materials with skin contact
 ○ test/ limit only for materials without skin contact

■ Changings on already listed parameters

f) The european biocidal product regulation BPR defines the usage of biocide products in Europa and the import of articles treated with biocidal products. Compliance with the BPR is a minimum requirement.
 o) Fur is to be tested with hair

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Chlorinated Phenols					each Isomer	each Isomer			x	x	x		x				x	x	x	x	x	x				x
Pentachlorophenol	PCP	87-86-5			1 mg/kg	5 mg/kg D not used on purpose P a) S																				
2,3,4,5-Tetrachlorophenol	TeCP	4901-51-3			2 mg/kg																					
2,3,4,6-Tetrachlorophenol	TeCP	58-90-2			2 mg/kg																					
2,3,5,6-Tetrachlorophenol	TeCP	935-95-5			2 mg/kg																					
2,3,4-Trichlorophenol	TriCP	15950-66-0			2 mg/kg																					
2,3,5-Trichlorophenol	TriCP	933-78-8			2 mg/kg																					
2,3,6-Trichlorophenol	TriCP	933-75-5			2 mg/kg																					
2,4,5-Trichlorophenol	TriCP	95-95-4			2 mg/kg																					
2,4,6-Trichlorophenol	TriCP	88-06-2			2 mg/kg																					
3,4,5-Trichlorophenol	TriCP	609-19-8			2 mg/kg																					
2,4-Dichlorophenol, free	DiCP	120-83-2			2 mg/kg																					
2,3-Dichlorophenol, free	DiCP	576-24-9			2 mg/kg																					
2,5-Dichlorophenol, free	DiCP	583-78-8			2 mg/kg																					
2,6-Dichlorophenol, free	DiCP	87-65-0			2 mg/kg																					
3,4-Dichlorophenol, free	DiCP	95-77-2			2 mg/kg																					
3,5-Dichlorophenol, free	DiCP	591-35-5			2 mg/kg																					
4-Chlorophenol, free	MCP	106-48-9			2 mg/kg																					
2-Chlorophenol, free	MCP	95-57-8			2 mg/kg																					
3-Chlorophenol, free	MCP	108-43-0			2 mg/kg																					

x test/ limit for materials with and without skin contact
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 ○ test/ limit only for materials without skin contact

a) According to Swiss government practice, a limit of 5 mg / kg is applied to the sum of PCP and TeCP
 o) Fur is to be tested with hair

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Dyestuffs classified as allergenous					each Dye ¹⁾													•	•	•						
	Disperse Blue 102	12222-97-8			3,3 mg/l (50 mg/kg)																					
	Disperse Blue 106	12223-01-7			3,3 mg/l (50 mg/kg)	D (BfR*, 041/2012)																				
	Disperse Blue 124	61951-51-7			3,3 mg/l (50 mg/kg)																					
	Disperse Blue 26	3860-63-7			3,3 mg/l (50 mg/kg)																					
	Disperse Blue 3	2475-46-9			3,3 mg/l (50 mg/kg)																					
	Disperse Blue 35	56524-76-6	56524-77-7		3,3 mg/l (50 mg/kg)	D (BfR*, 041/2012)																				
	Disperse Blue 7	3179-90-6			3,3 mg/l (50 mg/kg)																					
	Disperse Brown 1	23355-64-8			3,3 mg/l (50 mg/kg)																					
	Disperse Orange 1	2581-69-3			3,3 mg/l (50 mg/kg)																					
	Disperse Orange 3	730-40-5			3,3 mg/l (50 mg/kg)																					
	Disperse Orange 37/76	13301-61-6			3,3 mg/l (50 mg/kg)	D (BfR*, 041/2012)																				
	Disperse Red 1	2872-52-8			3,3 mg/l (50 mg/kg)																					
	Disperse Red 11	2872-48-2			3,3 mg/l (50 mg/kg)																					
	Disperse Red 17	3179-89-3			3,3 mg/l (50 mg/kg)																					
	Disperse Yellow 1	119-15-3			3,3 mg/l (50 mg/kg)																					
	Disperse Yellow 39	12236-29-2			3,3 mg/l (50 mg/kg)																					
	Disperse Yellow 49	54824-37-2			3,3 mg/l (50 mg/kg)																					
	Disperse Yellow 9	6373-73-5			3,3 mg/l (50 mg/kg)																					
Dyestuffs classified as carcinogenic					each Dye ¹⁾													•	•	•						
	Disperse Yellow 23	6250-23-3			3,3 mg/l (50 mg/kg)																					
	Disperse Orange 149	2832-40-8			3,3 mg/l (50 mg/kg)	D (BfR*, 041/2012)																				
	Acid Red 26	85316-74-9			3,3 mg/l (50 mg/kg)																					
	Basic Red 9	3761-53-3			3,3 mg/l (50 mg/kg)																					
	Basic Violet 14	569-61-9			3,3 mg/l (50 mg/kg)	50 mg/kg R1 from 11/2020																				
	Direct Black 38	632-99-5			3,3 mg/l (50 mg/kg)																					
	Direct Blue 6	1937-37-7			3,3 mg/l (50 mg/kg)		x																			
	Direct Red 28	2602-46-2			3,3 mg/l (50 mg/kg)																					
	Disperse Blue 1	573-58-0			3,3 mg/l (50 mg/kg)																					
	Disperse Orange 11	2475-45-8			3,3 mg/l (50 mg/kg)	50 mg/kg R1 from 11/2020																				
	Basic Violet 3	82-28-0			3,3 mg/l (50 mg/kg)	50 mg/kg R1 from 11/2020																				
	Basic Violet 3	548-62-9			3,3 mg/l (50 mg/kg)	50 mg/kg R1 from 11/2020	x																			
Dyestuffs - others					each Dye ¹⁾														•	•	•					
	Basic Blue 26	2580-56-5			3,3 mg/l (50 mg/kg)																					
	Solvent Yellow 2	60-11-7			3,3 mg/l (50 mg/kg)																					
	Solvent Yellow 14	842-07-9			3,3 mg/l (50 mg/kg)																					
	Basic Violet 1	8004-87-3			3,3 mg/l (50 mg/kg)																					
	Acid Violet 49	1694-09-3			3,3 mg/l (50 mg/kg)																					
	Blue Colorant (EC 405-6654; Index 611-070-00-2)	118685-33-9			n.d.	0,1 % mixtures S (EU)		x	x	x								x	x	x	x	x			x	

x test/ limit for materials with and without skin contact
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 o test/ limit only for materials without skin contact

*) Recommendation of the Federal Institute for Risk Assessment
 l) Conversion only with standard-compliant extraction and correct weigh-in
 o) Fur is to be tested with hair

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Schwermetalle																											
Chromium VI, soluble after aging ^{b)}	Cr VI				3 mg/kg	3 mg/kg ²⁾ R1 without aging			x	x	x																
Cadmium, total	Cd				100 mg/kg	100 mg/kg R1	x			x		x	x	x	x	x	x		x	x						x	
Cadmium, total ⁿ⁾	Cd				40 mg/kg		x			x		x	x	x	x	x	x		x	x						x	
Lead, total	Pb				90 mg/kg	500 mg/kg ^{d1)} R1	x			x		x	x	x	x	x	x		x	x						x	
Nickel, release of metal parts	Ni				0.28 µg/cm ² /week	0.5 µg/cm ² /week R1																					
Cadmium, soluble	Cd				0.1 mg/kg	1 mg/kg R1 from 11/2020				●	●	●						●	●	●	●	●				●	
Nickel, soluble	Ni				4.0 mg/kg					●	●	●						●	●	●	●	●				●	
Cobalt, soluble	Co				4.0 mg/kg		x			●	●	●						●	●	●	●	●				●	
Cobalt, soluble (< 36 months ^{d)})	Co				1.0 mg/kg		x			●	●	●						●	●	●	●	●				●	
Lead, soluble	Pb				1.0 mg/kg	1 mg/kg R1 from 11/2020				●	●	●						●	●	●	●	●				●	
Antimony, soluble	Sb				30 mg/kg					●	●	●						●	●	●	●	●				●	
Mercury, soluble	Hg				0.02 mg/kg					●	●	●						●	●	●	●	●				●	
Chromium, soluble total	Cr				1.0 mg/kg		x											●	●	●	●	●				●	
Chromium VI, soluble in textile	Cr VI				1,0 mg/kg	1 mg/kg R1 from 11/2020												●	●	●	●	●				●	
Arsenic, soluble	As				0.2 mg/kg	1 mg/kg R1 from 11/2020	x			●	●	●						●	●	●	●	●				●	
Barium, soluble ^{k)}	Ba				1000 mg/kg					●	●	●						●	●	●	●	●				●	
Copper, soluble ^{k)}	Cu				25 mg/kg					●	●	●						●	●	●	●	●				●	
Selenium, soluble ^{k)}	Se				500 mg/kg					●	●	●						●	●	●	●	●				●	

x test/ limit for materials with and without skin contact

● test/ limit only for materials with skin contact

○ test/ limit only for materials without skin contact

b) ISO 10195:2018

c) detection limit of the test method

d1) Articles and parts of articles that can be put into mouth by children

d) cads recommends including shoe size 28

k) for arabic countries

n) for USA only

o) Fur is to be tested with hair

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Organotin compounds																											
Dibutyltin	DBT	14488-53-0			5 mg/kg+F143	1000 mg/kg for tin R1				x	x	x	x	x	x	x	x	x	x	x		x					
Dibutyltin dichloride (detected as DBT)	DBTC	683-18-1			5 mg/kg	1000 mg/kg for tin R1	x																				
Diocetyl tin	DOT	250252-87-0			5 mg/kg	1000 mg/kg for tin R1																					
Monobutyltin	MBT	78763-54-9			5 mg/kg																						
Tributyltin	TBT	36643-28-4			1 mg/kg	1000 mg/kg for tin R1																					
Triphenyltin	TPhT	668-34-8			1 mg/kg	1000 mg/kg for tin R1																					
Monooctyltin	MOT	94410-07-8			5 mg/kg																						
Bis(tributyltin) oxide	TBTO	56-35-9			1 mg/kg		x																				
Dimethyltin	DMT	753-73-1			5 mg/kg																						
Diphenyltin	DPhT	1135-99-5			5 mg/kg																						
Dipropyltin	DPT	2406-60-2			5 mg/kg																						
Monophenyltin	MPhT	2406-68-0			5 mg/kg																						
Tetrabutyltin	TeBT	1461-25-2			5 mg/kg																						
Tricyclohexyltin	TCyHT	3091-32-5			5 mg/kg																						
Trimethyltin	TMT	1066-45-1			5 mg/kg																						
Trioctyltin	TOT	2587-76-0			5 mg/kg																						
Tripropyltin	TPT	1067-29-4			5 mg/kg																						
Other Chemical Residues																											
Short-chain chlorinated paraffins (C10-C13)	SCCP	85535-84-8			500 mg/kg	1500 mg/kg P	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	g)			
Medium-chain chlorinated paraffins (C14-C17)	MCCP	85535-85-9			1000 mg/kg			x	x	x	x	x	x	x	x	x	x							g)			
2-Mercaptobenzothiazole	2-MBT	149-30-4			100 mg/kg									x													
Formaldehyde (< 36 months ^{d)})		50-00-0			16 mg/kg	75 mg/kg R1 from 11.2020		x	x	x								x	x	x	x	x	x			x	
Formaldehyde (> 36 months)		50-00-0			75 mg/kg			x	x	x								x	x	x	x	x	x	x		x	
Nitrosamine (< 36 months ^{d)})					0.5 mg/kg									•													
pH-Value					3.5-7.0			•	•	•																	
pH-Value					4.0-7.5													•	•	•	•	•	•			•	
p-Phenylenediamine	pPDA	106-50-3			h)													x	x		x	x					
Quinoline		91-22-5			50 mg/kg	50 mg/kg R1 from 11/2020												x	x	x	x	x					
Fluorinated Greenhouse Gases ^{h)}	See	various			n.d.		x																				
Regulation (EC) No. 842/2006 for a complete list																											
Ozone-depleting Substances ^{h)}	See	various			n.d.		x																				
Regulation (EC) No. 1005/2009 for a complete list																											

x test/ limit for materials with and without skin contact

• test/ limit only for materials with skin contact

o test/ limit only for materials without skin contact

d) cads recommends including shoe size 28

g) Decision of the testing laboratory depending on the recipe to be tested. For example, for dyes, aromatic amines and dyes

h) Not to be tested, proof of conformity declaration

o) Fur is to be tested with hair

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Perfluorinated Substances					each PFC	each PFC			x	x	x							x	x	x	x	x				
PFOS and related substances:																										
Perfluorooctanesulfonate	PFOS	1763-23-1	45298-90-6																							
Perfluorooctanesulfonate-x (salt or an alcohol) (detected as PFOS)	PFOS-X	2795-39-3 29457-72-5 29081-56-9 70225-14-8 56773-42-3			1 µg/m ² textile 0,025 mg/kg leather	<1 µg / m ² textile and coated materials <0.1% uncoated product P																				
Perfluorooctane-sulfonamide	PFOSA	754-91-6																								
N-Ethylperfluorooctane-1-sulfonamide	N-Et-FOSA	4151-50-2																								
N-Methylheptadecafluorooctane-sulfonamide	N-Me-FOSA	31506-32-8																								
N-Ethyl-N-(2-hydroxyethyl)perfluorooctyl-sulfonamide	N-ET-FOSE	1691-99-2																								
N-Methyl-N-(2-hydroxyethyl)perfluorooctyl-sulfonamide	N-Me-FOSE	24448-09-7																								
Heptadecafluorooctanesulfonyl-fluoride	POSF	307-35-7																								
PFOA and related substances:																										
Pentadecafluorooctanoic acid and its salts (detected as PFOA)	PFOA	335-67-1 335-95-5 2395-00-8 335-93-3		■		1 µg/m ² S (Norway) 0,025 mg/kg R1 from 04.07.2020	x																			
Perfluorooctanoyl fluoride	PFOA-F F-PFO	335-66-0		■																						
Ammonium pentadecafluorooctanoic (detected as PFOA)	APFO	3825-26-1		■	∑ 0.025 mg/kg		x																			
1H,1H,2H,2H-Perfluorodecane sulfonic acid	8:2 FTS	39108-34-4		■																						
Methyl-perfluorooctanoate	Me-PFOA	376-27-2		■																						
Ethyl-perfluorooctanoate	Et-PFOA	3108-24-5		■		1 mg/kg R1 from 04.07.2020																				
2-Perfluorooctylethanol	8:2 FTOH	678-39-7		■																						
1H,1H,2H,2H-Perfluorodecyl-acrylate	8:2 FTA	27905-45-9		■																						
1H,1H,2H,2H-Perfluorodecyl-methacrylate	8:2 FTMA	1996-88-9		■																						
Other Phenols					all isomers	all isomers																				
Nonylphenol	NP	104-40-5	25154-52-3		30 mg/kg	1000 mg/kg mixture R1	x		x		x	x	x	x	x	x	x		x	x		x				
Octylphenol	OP	140-66-9			30 mg/kg		x		x		x	x	x	x	x	x	x		x	x		x				
Nonylphenol ethoxylated	NPEO	68412-54-4			100 mg/kg	100 mg/kg R1 02/2021	x	x	x	x								x	x	x	x	x	x	x		
Octylphenol ethoxylated	OPEO	9002-93-1			100 mg/kg		x	x	x	x								x	x	x	x	x	x	x		

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■ Changings on already listed parameters

o) Fur is to be tested with hair

Substance Group	Short Name	CAS No. 1	CAS No. 2	Modification	2021 cads limits	Legal limits EU R1 = REACH Appendix XVII D = German limit P = POP-VO S = other limit	REACH SVHC-Candidate	Whole product	Leather / fur ^{o)}	Coated Leather	Leather fibre board	PVC	EVA, EVA foam	Rubbe materials Latex	PU, TPU as Polymer	TPE-TPR	Blown materials, Foam	Synth. Textile	Coated Textile	PU-coating DMFa-"free"	Natural Textile	Textiles with applications	Wood, Cork	Adhesive, process chemicals (processed)	Metallic Hardware	Cellulosic Material	
Phthalates																											
Benzylbutylphthalate	BBP	85-68-7				1000 mg/kg per individual substance	x			x		x	x	x	x	x	x		x	x		x					
Di-n-butylphthalate	DBP	84-74-2				Σ 1000 mg/kg	x																				
Diethylhexylphthalate	DEHP	117-81-7				R1 07/2020	x																				
Diisobutylphthalate	DIBP	84-69-5					x																				
Di-(2-methoxyethyl)-phthalate	DMEP	117-82-8					x																				
Di-n-hexylphthalate	DHP	84-75-3				1000 mg/kg per individual substance	x																				
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	DIHP	71888-89-6				Σ 1000 mg/kg plus BBP, DBP, DEHP, DIBP and CAS No. 84777-06-0	x																				
Dipentylphthalate	DPP/DPENP	131-18-0				R1 11/2020	x																				
Diisopentylphthalate	DIPP	605-50-5					x																				
Diisodecylphthalate	DIDP	26761-40-0	68515-49-1		500 mg/kg per individual substance																						
Diisononylphthalate	DINP	28553-12-0	68515-48-0		Σ 1000 mg/kg																						
Di-n-octylphthalate	DNOP	117-84-0																									
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	DHNUP	68515-42-4					x																				
1,2-Benzenedicarboxylic acid, dipentylester branched and linear		84777-06-0					x																				
n-Pentyl-iso-pentylphthalate	PIPP	776297-69-9					x																				
Diethylphthalate	DEP	84-66-2																									
Dimethylphthalate	DMP	131-11-3																									
Dicyclohexylphthalate	DCHP	84-61-7					x																				
Di-isooctylphthalate	DIOP	27554-26-3																									
Dipropylphthalate	DPRP	131-16-8																									

x test/ limit for materials with and without skin contact

● test/ limit only for materials with skin contact

○ test/ limit only for materials without skin contact

o) Fur is to be tested with hair

Substance Group	Short Name	CAS No. 1	CAS No. 2	Modification	2021 cads limits	Legal limits EU R1 = REACH Appendix XVII D = German limit P = POP-VO S = other limit	REACH SVHC-Candidate	Whole product	Leather / fur ^{o)}	Coated Leather	Leather fibre board	PVC	EVA, EVA foam	Rubbe materials Latex	PU, TPU as Polymer	TPE-TPR	Blown materials, Foam	Synth. Textile	Coated Textile	PU-coating DMFA-"free"	Natural Textile	Textiles with applications	Wood, Cork	Adhesive, process chemicals (processed)	Metallic Hardware	Cellulosic Material
Polycyclic aromatic hydrocarbons (REACH)					each PAH	each PAH				x		x	x	x	x	x	x	x	x	x		x				
	Benzo[a]anthracene	56-55-3			0.5 mg/kg		x																			
	Benzo[a]pyrene	50-32-8			0.5 mg/kg		x																			
	Benzo[b]fluoranthene	205-99-2			0.5 mg/kg	1.0 mg/kg per PAH																				
	Benzo[e]pyrene	192-97-2			0.5 mg/kg	< 36 month ^{d)}																				
	Benzo[j]fluoranthene	205-82-3			0.5 mg/kg	0.5 mg/kg per PAH																				
	Benzo[k]fluoranthene	207-08-9			0.5 mg/kg	R1 ¹⁾	x																			
	Dibenzo[a,h]anthracene	53-70-3			0.5 mg/kg																					
	Chrysene	218-01-9			0.5 mg/kg		x																			
Polycyclic aromatic hydrocarbone (EPA)										x		x	x	x	x	x	x	x	x		x		x			
	Acenaphthene	83-32-9																								
	Acenaphthylene	208-96-8																								
	Anthracene	120-12-7					x																			
	Benzo[g,h,i]perylene	191-24-2					x																			
	Fluoranthene	206-44-0					x																			
	Fluorene	86-73-7																								
	Indeno[1,2,3-cd]pyrene	193-39-5																								
	Phenanthrene	85-01-8					x																			
	Pyrene	129-00-0			Σ 10 mg/kg		x																			
	Benzo[a]anthracene (REACH)	56-55-3					x																			
	Benzo[a]pyrene (REACH)	50-32-8					x																			
	Benzo[b]fluoranthene (REACH)	205-99-2																								
	Benzo[e]pyrene (REACH)	192-97-2																								
	Benzo[j]fluoranthene (REACH)	205-82-3																								
	Benzo[k]fluoranthene (REACH)	207-08-9					x																			
	Dibenzo[a,h]anthracene (REACH)	53-70-3																								
	Chrysene (REACH)	218-01-9					x																			
	Naphthalene	91-20-3			10 mg/kg ^{e)}				x		x	x	x	x	x	x	x	x	x	x	x	x	x			

x test/ limit for materials with and without skin contact

● test/ limit only for materials with skin contact

○ test/ limit only for materials without skin contact

d) cads recommends including shoe size 28

e) evaluate positive test results of naphthalene separately

i) Applies to repeatedly touchable plastics

o) Fur is to be tested with hair

Substance Group	Short Name	CAS No. 1	CAS No. 2	Modification	2021 cads limits	Legal limits EU R1 = REACH Appendix XVII D = German limit P = POP-VO S = other limit	REACH SVHC-Candidate	Whole product	Leather / fur ^{o)}	Coated Leather	Leather fibre board	PVC	EVA, EVA foam	Rubbe materials Latex	PU, TPU as Polymer	TPE-TPR	Blown materials, Foam	Synth. Textile	Coated Textile	PU-coating DMFa-"free"	Natural Textile	Textiles with applications	Wood, Cork	Adhesive, process chemicals (processed)	Metallic Hardware	Cellulosic Material	
Extractable volatile organic compounds																											
Dimethylformamide (< 36 months ^{d)})	DMFA	68-12-2			100 mg/kg					x						x			x								
Dimethylformamide (> 36 months)	DMFA	68-12-2			500 mg/kg	3000 mg/kg R1 11/2020	x			x						x			x								
Dimethylformamide	DMFA	68-12-2			50 mg/kg															x							
Dimethylacetamide (< 36 months ^{d)})	DMAC	127-19-5			100 mg/kg					x						x			x								
Dimethylacetamide (> 36 months)	DMAC	127-19-5			500 mg/kg	3000 mg/kg R1 11/2020	x			x						x			x								
Formamide (< 36 months ^{d)})		75-12-7			100 mg/kg		x						x				x										
Formamide (> 36 months)		75-12-7			500 mg/kg		x						x				x										
1-Methyl-2-pyrrolidone	NMP	872-50-4		■	500 mg/kg	3000 mg/kg R1 11/2020	x	x	x	x														x			
Bis(2-methoxyethyl)ether	BMEE	111-96-6			1000 mg/kg		x	x	x	x														x			
Volatile Organic Compounds																											
2-Phenyl-2-Propanol	2-P-2-P	617-94-7			10 mg/kg			x					x													x	
Acetophenone		98-86-2			10 mg/kg								x													x	
Benzene		71-43-2		■	5 mg/kg	5 mg/kg R1 11/2020				x									x	x					x		
Toluene		108-88-3			10 mg/kg					x									x	x					x		
1,2-Dichlorethane		107-06-2			10 mg/kg		x																		x		
Ethylbenzene		100-41-4			50 mg/kg																				x		
o-Xylene		95-47-6																								x	
m-Xylene		108-38-3			50 mg/kg																					x	
p-Xylene		106-42-3																								x	
2-Butanone (MEK)		78-93-3			50 mg/kg																					x	
Cyclohexanone		108-94-1			50 mg/kg																					x	

x test/ limit for materials with and without skin contact
 ● test/ limit only for materials with skin contact
 ○ test/ limit only for materials without skin contact

■ Changes on already listed parameters

d) cads recommends including shoe size 28
 o) Fur is to be tested with hair

Substance Group	Short Name	CAS No. 1	CAS No. 2	Modification	2021 cads limits	Legal limits EU R1 = REACH Appendix XVII D = German limit P = POP-VO S = other limit	REACH SVHC-Candidate	Whole product	Leather / fur ^{o)}	Coated Leather	Leather fibre board	PVC	EVA, EVA foam	Rubbe materials Latex	PU, TPU as Polymer	TPE-TPR	Blown materials, Foam	Synth. Textile	Coated Textile	PU-coating DMFA-"free"	Natural Textile	Textiles with applications	Wood, Cork	Adhesive, process chemicals (processed)	Metallic Hardware	Cellulosic Material
Chlorinated benzenes and toluenes																		●	●	●						
	2-Chlorotoluene	95-49-8																●	●	●						
	3-Chlorotoluene	108-41-8																●	●	●						
	4-Chlorotoluene	106-43-4																●	●	●						
	2,3-Dichlorotoluene	32768-54-0																●	●	●						
	2,4-Dichlorotoluene	95-73-8																●	●	●						
	2,5-Dichlorotoluene	19398-61-9																●	●	●						
	2,6-Dichlorotoluene	118-69-4																●	●	●						
	3,4-Dichlorotoluene	95-75-0																●	●	●						
	2,3,6-Trichlorotoluene	2077-46-5																●	●	●						
	2,4,5-Trichlorotoluene	6639-30-1																●	●	●						
	2,3,4,5-Tetrachlorotoluene	76057-12-0				1 mg/kg per individual substance												●	●	●						
	2,3,4,6-Tetrachlorotoluene	875-40-1				Σ												●	●	●						
	Pentachlorotoluene	877-11-2				10 mg/kg												●	●	●						
	1,3-Dichlorobenzene	541-73-1																●	●	●						
	1,4-Dichlorobenzene	106-46-7																●	●	●						
	1,2,3-Trichlorobenzene	87-61-6																●	●	●						
	1,2,4-Trichlorobenzene	120-82-1																●	●	●						
	1,3,5-Trichlorobenzene	108-70-3																●	●	●						
	1,2,3,4-Tetrachlorobenzene	634-66-2																●	●	●						
	1,2,3,5-Tetrachlorobenzene	634-90-2																●	●	●						
	1,2,4,5-Tetrachlorobenzene	95-94-3																●	●	●						
	Pentachlorobenzene	608-93-5																●	●	●						
	Hexachlorobenzene	118-74-1																●	●	●						
	p-Chlorobenzotrithloride	5216-25-1																x	x	x	x					
	Benzotrithloride	98-07-7					1 mg/kg R1 11/2020											x	x	x	x					
	Benzylchloride	100-44-7																x	x	x	x					
	1,2-Dichlorbenzene	95-50-1				10 mg/kg												●	●	●						

x test/ limit for materials with and without skin contact
● test/ limit only for materials with skin contact
○ test/ limit only for materials without skin contact

g) Decision of the testing laboratory depending on the recipe to be tested. For example, for dyes, aromatic amines and dyes
o) Fur is to be tested with hair

Substance Group	Short Name	CAS No. 1	CAS No. 2	Modification	2021 cads limits	Legal limits EU R1 = REACH Appendix XVII D = German limit P = POP-VO S = other limit	REACH SVHC-Candidate	Whole product	Leather / fur ^{o)}	Coated Leather	Leather fibre board	PVC	EVA, EVA foam	Rubbe materials Latex	PU, TPU as Polymer	TPE-TPR	Blown materials, Foam	Synth. Textile	Coated Textile	PU-coating DMFA-"free"	Natural Textile	Textiles with applications	Wood, Cork	Adhesive, process chemicals (processed)	Metallic Hardware	Cellulosic Material
Flame Retardants ^{m)}					jede Einzelsubstanz			x																		
Tris(2,3-dibromopropyl)phosphate	TRIS	126-72-7			10 mg/kg	ban on use R1																				
Tris(1-aziridinyl)phosphineoxide	TEPA	545-55-1			10 mg/kg	ban on use R1																				
Tris(2-chloroethyl)phosphate	TCEP	115-96-8			10 mg/kg		x																			
Tris(1,3-dichloro-2-propyl)phosphate	TDCPP	13674-87-8			10 mg/kg																					
Tris(2-chloro-1-propyl)phosphate	TCPP	13674-84-5			10 mg/kg																					
Trixylylphosphate	TXP	25155-23-1			10 mg/kg		x																			
Polybrominated biphenyles	PBB	59536-65-1			10 mg/kg	1000 mg/kg R1																				
Tetrabromodiphenylether (tetraBDE)	tetraBDE	40088-47-9			10 mg/kg																					
Pentabromodiphenylether	PentaBDE	32534-81-9			10 mg/kg																					
Hexabromodiphenylether (hexaBDE)	hexaBDE	36483-60-0			10 mg/kg	Σ500 mg/kg Tetra, Penta, Hexa, Hepta und DecaBDE, P																				
Heptabromodiphenylether (heptaBDE)	heptaBDE	68928-80-3			10 mg/kg																					
Decabromodiphenylether	DecaBDE	1163-19-5			10 mg/kg		x																			
Hexabromocyclododecane (HBCDD)	HBCDD	25637-99-4	3194-55-6		10 mg/kg	100 mg/kg P																				
Octabromodiphenylether (octaBDE)	octaBDE	32536-52-0			10 mg/kg	1000 mg/kg R1																				
Nonabromodiphenylether (nonaBDE)	nonaBDE	63936-56-1			10 mg/kg	1000 mg/kg R1																				
2,2-Bis(bromomethyl)propane-1,3-diol (BBMP)	BBMP	3296-90-0			10 mg/kg																					
Bis(2,3-dibromopropyl)phosphate (BDBPP)	BDBPP	5412-25-9			10 mg/kg																					
Tetrabromobisphenol A (TBBP A)	TBBP A	79-94-7			10 mg/kg																					

x test/ limit for materials with and without skin contact

m) Testing recommended on equipped articles
o) Fur is to be tested with hair

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The CADS limits are valid for the legal area of the European Union / EU.

Analysis have to be carried out according to the standards and methods defined by cads cooperation. The actual list of methods can be found at www.cads-shoes.com

Change Index CADS RSL 2021

Header **2021** - added to CADS Limits
EU - added to legal Limits

Page 1 **3,3'-Dichlorobenzidine and 3,3'-Dimethylbenzidine** - substance names revised

Page 5 **not detectable S (Switzerland)** - regulation was deleted for parameter p-Phenylenediamine

Page 6 **Perfluorooctanoylfluoride (PFOA-F oder F-PFO)** Cas Nr. **335-66-0** - removed from PFOA Salts into a new line and Cas-No. revised
Σ 0,025 mg/kg - change of Limit for PFOA-related Substances into limit for the sum

Page 7 **11/2020** - legal regulation addition of the Phthalates BBP, DBP, DEHP, DIBP

Page 9 **872-50-4** - Cas-No. for NMP revised