ALDI M-RSL / RSL (Status: 31.01.2018)

		M-RSL Limits		RSL Limits Version 1 [11]		RSL Limits Version 2 [12]		Test Method			
Substance	**CAS-no.**	**Output: Waste water (µg/l)**	**Output: Sludge (mg/kg)**	**Product section / Limits - Textiles[1]**	**Product section / Limits - Shoes[1]**	**Product section / Limits - Textiles[1]**	**Product section / Limits - Shoes[1]**	**Input: Chemical Formulations**	**Output: Waste water**	**Output: Sludge**	**Output: Products[10]**
1. Alkylphenols / Alkylphenolethoxylates (AP/APEO)											
Octylphenol OP	Various	1	0.2	OP, NP: 10 mg/kg (sum) OP(EO), NP(EO): 100 mg/kg (sum)	OP, NP: 100 mg/kg (sum) OP(EO), NP(EO): 100 mg/kg (sum)	OP, NP: 5 mg/kg (sum) OP(EO), NP(EO): 50 mg/kg (sum)	OP, NP: 50 mg/kg (sum) OP(EO), NP(EO): 50 mg/kg (sum)	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)	With Reference To DIN EN ISO 18857 And Followed by Liquid Chromatography – Mass Spectrometry (LC-MS) Analysis. NPEO(1+2): GC/MS	Solvent extraction DIN EN ISO 18857 LC/MS mod, resp. NPEO(1+2): GC/MS	DIN EN ISO 18254-1 (Textile) DIN EN ISO 18218-1 (Leather) Solvent extraction: Methanol GC-MS (AP + $APEO_{(1-2)}$) & LC-MS ($APEO_{(3-18)}$)
4-(1,1,3,3-Tetramethylbutyl)-phenol	140-66-9	1	0.2								
Octylphenol	27193-28-8	1	0.2								
4-Octylphenol	1806-26-4	1	0.2								
Nonylphenol NP	various	1	0.2								
4-Nonylphenol	104-40-5	1	0.2								
Nonylphenol	25154-52-3	1	0.2								
Nonylphenol (branched)	90481-04-2	1	0.2								
4-Nonylphenol (branched)	84852-15-3	1	0.2								
Nonylphenol Ethoxylates $NPEO_{(1-2)}$	various	1	0.2								
Nonylphenol Ethoxylates $NPEO_{(3-18)}$	various	1	0.2								
(Nonylphenoxy)-polyethylenoxid	9016-45-9	1	0.2								
4-Nonylphenol, ethoxylated	26027-38-3	1	0.2								
Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	1	0.2								
4-Nonylphenol, branched, ethoxylated	127087-87-0	1	0.2								
Unbekanntes Farbmittel 94 (SIN list Isononylphenol-ethoxylate)	37205-87-1	1	0.2								
Octylphenol Ethoxylates $OPEO_{(1-2)}$	various	1	0.2								
Octylphenol Ethoxylates $OPEO_{(3-18)}$	various	1	0.2								
alpha-[4-(1,1,3,3-Tetramethylbutyl)phenyl]-w-hydroxypoly(oxy-1,2-ethandiyl) (SIN List OPEs)	9002-93-1	1	0.2								
4-tert-Octylphenolethoxylate	9036-19-5	1	0.2								
4-tert-Octylphenolethoxylate (branched)	68987-90-6	1	0.2								
2. Phthalates											
Di-Butyl Phthalate (DBP)	84-74-2	1	0.3	1000 mg/kg	1000 mg/kg	250 mg/kg (sum)	500 mg/kg (sum)	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)	Toluene Extraction And Followed by Gas Chromatography-Mass Spectrometry (GC-MS) Analysis resp. LC/MS.	Extraction with toluene, GC-MS resp. LC/MS.	DIN EN ISO 14389 or CPSC-CH-C1001-09.3 Solvent extraction: THF GC-MS analysis
Di(2-Ethyl Hexyl) Phthalate (DEHP)	117-81-7	1	0.3								
Benzyl Butyl Phthalate (BBP)	85-68-7	1	0.3								
Di-Iso-Nonyl Phthalate (DINP)	28553-12-0, 68515-48-0	1	0.3								
Di-N-Octyl Phthalate (DNOP)	117-84-0	1	0.3								
Di-Iso-Decyl Phthalate (DIDP)	26761-40-0, 68515-49-1	1	0.3								
Di-Iso-Butyl Phthalate (DIBP)	84-69-5	1	0.3								
Di-N-Hexyl Phthalate (DNHP)	84-75-3	1	0.3								
Di-(2-methoxyethyl) Phthalate (DMEP)	117-82-8	1	0.3								
DHNUP	68515-42-4	1	0.3								
DIHP	71888-89-6	1	0.3								
DPP	131-18-0	1	0.3								
3. Brominated and Chlorinated Flame Retardants[3]											
Polybrominated biphenyls (PBBs)	59536-65-1 various	0.05	0.03	use banned (≤ 100 mg/kg (each))	use banned (≤ 100 mg/kg (each))	10 mg/kg (each)	10 mg/kg (each)	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)	By Toluene Extraction And Followed By Liquid Chromatography - Mass Spectrometry (LC-MS) And Gas Chromatography - Mass Spectrometry (GC-MS) Analysis.	Extraction with toluene, GC-MS resp. LC/MS.	DIN EN ISO 17881-1 and DIN EN ISO 17881-2 Solvent extraction: Toluol / Acetone / THF GC-MS / LC-MS analysis
Monobromo biphenyls (MonoBB)		0.05	0.03								
Dibromo biphenyls (DiBB)	-	0.05	0.03								
Tribromo biphenyls (TriBB)	-	0.05	0.03								
Tetrabromo biphenyls (TetraBB)	-	0.05	0.03								
Pentabromo biphenyls (PentaBB)	-	0.05	0.03								
Hexabromo biphenyls (HexaBB)	-	0.05	0.03								
Heptabromo biphenyls (HeptaBB)	-	0.05	0.03								
Octabromo biphenyls (OctaBB)	-	0.05	0.03								
Nonabromo biphenyls (NonaBB)	-	0.05	0.03								
Decabromo biphenyl (DecaBB)	13654-09-6	0.05	0.03								
Polybrominated diphenyl ethers (PBDEs)	various	0.05	0.03								
Monobromo diphenyl ethers (MonoBDE)	-	0.05	0.03								
Dibromo diphenyl ethers (DiBDE)	-	0.05	0.03								
Tribromo diphenyl ethers (TriBDE)	-	0.05	0.03								
Tetrabromo diphenyl ethers (TetraBDE)	40088-47-9	0.05	0.03								
Pentabromo diphenyl ethers (PentaBDE)	32534-81-9	0.05	0.03								
Hexabromo diphenyl ethers (HexaBDE)	36483-60-0	0.05	0.03								
Heptabromo diphenyl ethers (HeptaBDE)	68928-80-3	0.05	0.03								
Octabromo diphenyl ethers (OctaBDE)	32536-52-0	0.05	0.03								
Nonabromo diphenyl ethers (NonaBDE)	63936-56-1	0.05	0.03								
Decabromo diphenyl ether (DecaBDE)	1163-19-5	0.05	0.03								
Tris(2,3-Dibromopropyl)-Phosphate	126-72-7	0.5	0.25								
Tris(2-Chloroethyl)Phosphate (TCEP)	115-96-8	0.05	0.25								
Hexabromocyclododecane (HBCDD)	134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4, 3194-55-6	0.5	0.25								
Tetrabromo-bisphenol A (TBBPA)	79-94-7	0.5	0.25								

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Substance	**CAS-no.**	**Output: Waste water (µg/l)**	**Output: Sludge (mg/kg)**	**Product section / Limits - Textiles[1]**	**Product section / Limits - Shoes[1]**	**Product section / Limits - Textiles[1]**	**Product section / Limits - Shoes[1]**	**Input: Chemical Formulations**	**Output: Waste water**	**Output: Sludge**	**Output: Products[10]**
Subgroup: Other Flame Retardants											
TEPA	545-55-1	0.5	0.25	best current technology	best current technology	best current technology	best current technology	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)			DIN EN ISO 17881-2 Solvent extraction: Toluol / Acetone / THF GC-MS / HPLC-MS analysis For boron and antimony (total): Microwave extraction with nitric acid/hydrochloric acid ICP-MS analysis
TRIS	126-72-7										
Sodium tetraborate	1303-96-4 1303-43-4 12179-04-3 215-540-4										
Boron trioxide	1303-86-2										
Boric acid	10043-35-3 11113-50-1										
Antimony trioxide	1309-64-4										
Tri-o-cresyl phosphate	78-30-8										
Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8										
4. Amines (associated with Azo dyes/ colorants)											
4-Aminodiphenyl	92-67-1	0.01	0.01	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg (each)	< 20 mg/kg (each)	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)	With Reference To EN 14362:1&3 And Followed By Gas Chromatographic – Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.	EN 14362 modified GC/MS resp. HPLC.	DIN EN ISO 14362-1 and DIN EN ISO 14362-3 (Textile) DIN EN ISO 17234-1 and DIN EN ISO 17234-2 (Leather)
Benzidine	92-87-5										
4-Chloro-o-Toluidine	95-69-2										
2-Naphthylamine	91-59-8										
o-Aminoazotoluene	97-56-3										
2-Amino-4-Nitrotoluene	99-55-8										
p-Chloroaniline	106-47-8										
2,4-Diaminoanisole	615-05-4										
4,4'-Diaminodiphenylmethane	101-77-9										
3,3'-Dichlorobenzidine	91-94-1										
3,3'-Dimethoxybenzidine	119-90-4										
3,3'-Dimethylbenzidine	119-93-7										
3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0										
p-Cresidine	120-71-8										
4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4										
4,4'-Oxydianiline	101-80-4										
4,4'-Thiodianiline	139-65-1										
o-Toluidine	95-53-4										
2,4-Toluylenediamine	95-80-7										
2,4,5-Trimethylaniline	137-17-7										
o-Anisidine	90-04-0										
p-Aminoazobenzene	60-09-3										
2,4-Xylidine	95-68-1										
2,6-Xylidine	87-62-7										
Subgroup: Carcinogenic dyes											
C.I Acid Red 26	3761-53-3	10	10	use banned	use banned	< 20 mg/kg (each)	< 20 mg/kg (each)	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)			DIN 54231 Solvent extraction: Methanol (Solvent extraction: Pyridine according to DIN 16373-2 for special cases) HPLC-DAD-MS
C.I. Basic Red 9	569-61-9										
C.I. Basic Violet 14	632-99-5										
C.I Direct Blue 6	2602-46-2										
C.I Direct Red 28	573-58-0										
C.I Direct Black 38	1937-37-7										
C.I Disperse Blue 1	2475-45-8										
C.I. Disperse Yellow 3	2832-40-8										
C.I. Disperse Orange 11	82-28-0										
C.I. Disperse Yellow 23	6250-23-3										
C.I. Disperse Orange 149	85136-74-9										
C.I. Solvent Yellow 1	60-09-3										
C.I. Solvent Yellow 2	60-11-7 EN71-9										
C.I. Solvent Yellow 3	97-56-3										
C.I. Solvent Yellow 14	842-07-9										
C.I. Basic Blue 26	2580-56-5										
C.I. Basic Violet 1	8004-87-3 EN71-9										
C.I. Direct Brown 95	16071-86-6										
C.I. Direct Blue 15	2429-74-5										
C.I. Direct Blue 218	28407-37-6										
C.I Acid Red 114	6459-94-5										
C.I Acid Violet 49	1694-09-3										
Subgroup: Allergenic Disperse Dyes											
C.I. Disperse Blue 1	2475-45-8	1	1	use banned	use banned	< 20 mg/kg (each)	< 20 mg/kg (each)	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)			DIN 54231 Solvent extraction: Methanol (Solvent extraction: Pyridine according to DIN 16373-2 for special cases) HPLC-DAD-MS
C.I. Disperse Blue 3	2475-46-9										
C.I. Disperse Blue 7	3179-90-6										
C.I. Disperse Blue 26	3860-63-7										
C.I. Disperse Blue 35	12222-75-2										
C.I. Disperse Blue 102	12222-97-8										
C.I. Disperse Blue 106	12223-01-7										
C.I. Disperse Blue 124	61951-51-7										
C.I. Disperse Brown 1	23355-64-8										
C.I. Disperse Orange 1	2581-69-3										
C.I. Disperse Orange 3	730-40-5										
C.I. Disperse Orange 37/76	13301-61-6										
C.I. Disperse Red 1	2872-52-8										
C.I. Disperse Red 11	2872-48-2										
C.I. Disperse Red 17	3179-89-3										
C.I. Disperse Yellow 1	119-15-3										
C.I. Disperse Yellow 3	2832-40-8										
C.I. Disperse Yellow 9	6373-73-5										
C.I. Disperse Yellow 39	12236-29-2										
C.I. Disperse Yellow 49	54824-37-2										

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Substance	**CAS-no.**	**Output: Waste water (µg/l)**	**Output: Sludge (mg/kg)**	**Product section / Limits - Textiles[1]**	**Product section / Limits - Shoes[1]**	**Product section / Limits - Textiles[1]**	**Product section / Limits - Shoes[1]**	**Input: Chemical Formulations**	**Output: Waste water**	**Output: Sludge**	**Output: Products[10]**
5. Organotin compounds											
MBT(Monobutyltin)	1118-46-3	0.01	0.01	TBT,TPhT - 0,5 / 1 mg/kg [2] DBT, DOT, MBT, MOT, DPhT,TPT,TCyT,TeBT, TeET - 1 / 2 mg/kg [2] Others - 2 mg/kg	TBT,TPhT - 0,5 mg/kg DBT, DOT - 1 mg/kg MBT - 1 mg/kg Others - 2 mg/kg	0,5 mg/kg (each)	0,5 mg/kg (each)	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)	With Reference To DIN EN17353 And Followed by Gas Chromatography-Mass Spectrometry (GC-MS) Analysis.	Solvent extraction, derivatisation with tetraethylborate, GC/MS.	ISO/TS 16179 Solvent extraction / Derivatisation: Ethanol GC-MS analysis Referring to DIN 23161 Solvent extraction: Acidified ethanol Derivatisation: Tetraethylborate GC-MS
DBT(Dibutyltin)	1002-53-5										
TBT(Tributyltin)	56573-85-4										
TPhT(Triphenyltin)	892-20-6										
DOT(Dioctyltin)	94410-05-6										
MOT(Monooctyltin)	15231-44-4										
DPhT(Diphenyltin)	1011-95-6										
TeBT(Tetrabutyltin)	1461-25-2										
TCyT(Tricyclohexyltin)	NA										
TPT(Tripropyltin)	NA										
xxxTeET(Tetraethyltin)	597-64-8										
TBTO	56-35-9	0.01	0.01	Others - 2 mg/kg							
DBTC	683-18-1										
TPT	668-34-8										
DBB	75113-37-0										
6. PFCs (Perfluorocarbon / Polyfluorinated Compounds)											
PFOA	335-67-1	0.01	0.001	use banned	use banned	< 1 µg/m²	< 1 µg/m²	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)	C EN/TS 15968:2010. LC/MS analysis - modified	Solvent extraction CEN/TS 15968:2010. LC/MS analysis - modified	CEN/TS 15968 Solvent extraction: Methanol LC-MS-MS analysis
PFNA	375-95-1	0.01	0.001			0,05 mg/kg (each)	0,05 mg/kg (each)				
PFBS	375-73-5 or 59933-66-3	0.01	0.001								
PFHxS	355-46-4	0.01	0.001								
PFHxA	307-24-4	0.01	0.001								
PFBA	375-22-4	0.01	0.001								
PFPeA	2706-90-3	0.01	0.001								
PFHpA	375-85-9	0.01	0.001								
PFDA	335-76-2	0.01	0.001								
PFUnA	2058-94-8	0.01	0.001								
PFDoA	307-55-1	0.01	0.001								
PFTrA	72629-94-8	0.01	0.001								
PfteA	376-06-7	0.01	0.001								
PFHpS	375-92-8	0.01	0.001								
PFDS	335-77-3	0.01	0.001								
PF-3,7-DMOA	172155-07-6	0.01	0.001								
HPFHpA	1546-95-8	0.01	0.001								
4HPFUnA	34598-33-9	0.01	0.001								
1H, 1H, 2H, 2H-PFOS	27619-97-2	0.01	0.001								
PFOS	1763-23-1	0.01	0.001	use banned	use banned	< 1 µg/m² (sum)	< 1 µg/m² (sum)		C EN/TS 15968:2010. LC/MS analysis - modified	Solvent extraction CEN/TS 15968:2010. LC/MS analysis - modified	CEN/TS 15968 Solvent extraction: Methanol / TBME LC-MS-MS analysis
POSF	307-35-7	0.1	0.01								
PFOSA	754-91-6	0.1	0.01								
N-Me-FOSA	31506-32-8	0.1	0.01								
N-Et-FOSA	4151-50-2	0.1	0.01								
N-Me-FOSE alcohol	24448-09-7	0.1	0.01								
N-Et-FOSE alcohol	1691-99-2	0.1	0.01								
4:2 FTOH	2043-47-2	0.1	0.01			0,5 mg/kg (each)	0,5 mg/kg (each)				CEN/TS 15968 Solvent extraction: Methanol / TBME GC-MS-NCI analysis LC-MS-MS for confirmation
6:2 FTOH	647-42-7	0.1	0.01								
8:2 FTOH	678-39-7	0.1	0.01								
10:2 FTOH	865-86-1	0.1	0.01								
6:2 FTA	17527-29-6	0.1	0.01								
8:2 FTA	27905-45-9	0.1	0.01								
10:2 FTA	17741-60-5	0.1	0.01								
7. Chloro benzenes											
Dichlorobenzenes	various	0.02	0.01	1 mg/kg	1 mg/kg	1 mg/kg (sum)	1 mg/kg (sum)	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)	Liquid extraction GC-MS analysis.	Solvent extraction GC-MS analysis.	DIN 54232 Solvent extraction: Dichloromethane GC-MS analysis
1,2-Dichlorobenzene	95-50-1										
1,3-Dichlorobenzene	541-73-1										
1,4-Dichlorobenzene	106-46-7										
Trichlorobenzenes	various										
1,2,3-Trichlorobenzene	87-61-6										
1,2,4-trichlorobenzene	120-82-1										
1,3,5-Trichlorobenzene	108-70-3										
Tetrachlorobenzene	various										
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										

		M-RSL Limits		RSL Limits Version 1 [11]		RSL Limits Version 2 [12]		Test Method			
Substance	**CAS-no.**	**Output: Waste water (µg/l)**	**Output: Sludge (mg/kg)**	**Product section / Limits - Textiles[1]**	**Product section / Limits - Shoes[1]**	**Product section / Limits - Textiles[1]**	**Product section / Limits - Shoes[1]**	**Input: Chemical Formulations**	**Output: Waste water**	**Output: Sludge**	**Output: Products[10]**
Chloro-Toluenes (solvents and biocides. Production dyes. Chemical Intermediates. Antifelting)											
2-chlorotoluene	95-49-8	0.02	0.01	1 mg/kg	1 mg/kg	1 mg/kg (sum)	1 mg/kg (sum)	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)			DIN 54232 Solvent extraction: Dichloromethane GC-MS analysis
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										
Benzotrichloride	98-07-7										
alfa, 2,4-trichlorotoluene	94-99-5										
alfa, 2,6-trichlorotoluene	2014-83-7										
alfa, 3,4-trichlorotoluene	102-47-6										
alpha, alpha, 2,6-tetrachlorotoluene	81-19-6										
alpha, alpha, alpha, 2,-tetrachlorotoluene	2136-89-2										
alpha, alpha, alpha, 4-tetrachlorotoluene	5216-25-1										
2,3,4,5,6-pentachlorotoluene	877-11-2										
8. Chlorinated solvents											
Dichloromethane	75-09-2	1	0.3	1 mg/kg	1 mg/kg	1 mg/kg (each) / 5 mg/kg (sum)	1 mg/kg (each) / 5 mg/kg (sum)	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)	By Headspace Gas Chromatography Mass Spectrometric (HS – GC/MS) Analysis.	GC-MS Headspace analysis.	GC-MS Headspace Solvent extraction GC-MS analysis Thermal desorption analysis GC-MS analysis
Chloroform	67-66-3										
Tetrachloromethane	56-23-5										
1,1,2-Trichloroethane	79-00-5										
1,1-Dichloroethane	75-34-3										
1,2-Dichloroethane	107-06-2										
Trichloroethylene	79-01-6										
Perchloroethylene	127-18-4										
1,1,1-trichloroethane	71-55-6										
1,1,1,2-Tetrachloroethane	630-20-6										
1,1,2,2-Tetrachloroethane	79-34-5										
Pentachloroethane	76-01-7										
1,1-Dichloroethylene	75-35-4										
Other VOCs[4]											
Methyl-ethyl ketone	78-93-3	1	0.1	100 mg/kg	500 mg/kg	10 mg/kg	50 mg/kg	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)			Solvent extraction: Acetone GC-MS analysis Thermal desorption analysis GC-MS analysis
Ethylbenzene	100-41-4	1	0.1	50 mg/kg	500 mg/kg	10 mg/kg	50 mg/kg				
Xylene	1330-20-7	1	0.1	50 mg/kg	500 mg/kg	10 mg/kg	30 mg/kg				
Cyclohexanone	108-94-1	1	2	100 mg/kg	500 mg/kg	10 mg/kg	50 mg/kg				
2-ethoxyethylacetate	111-15-9	50	10	1000 mg/kg	500 mg/kg	10 mg/kg	50 mg/kg				
1,2,3-trichloropropane	96-18-4	1	10	1000 mg/kg	500 mg/kg	10 mg/kg	50 mg/kg				
Acetophenone	98-86-2	10	0.1	50 mg/kg	500 mg/kg	10 mg/kg	10 mg/kg				
Naphtalene	91-20-3	1	0.1	50 mg/kg	500 mg/kg	2 mg/kg	2 / 5 mg/kg [5]				
2-phenyl-2-propanole	617-94-7	10	0.1	50 mg/kg	500 mg/kg	10 mg/kg	10 mg/kg				
Bis-(2-methoxyethyl) ether	111-96-6	50	20	1000 mg/kg	1000 mg/kg	10 mg/kg	500 mg/kg (leather only)				
Styrene	100-42-5	1	0.1	50 mg/kg	50 mg/kg	10 mg/kg	50 mg/kg				
Benzene	71-43-2	1	0.1	1 mg/kg	1 mg/kg	1 mg/kg	1 mg/kg				
Toluene	108-88-3	1	0.1	500 mg/kg	500 mg/kg	10 mg/kg	10 mg/kg				
1-methyl-2-pyrrolidone	872-50-4	10	50	1000 mg/kg [6]	1000 mg/kg	500 mg/kg [7, 8]	500 mg/kg				DIN CEN ISO/TS 16189 Solvent extraction: Methanol GC-MS analysis
N,N-dimethylacetamide	127-19-5	10	20	1000 mg/kg [6]	1000 mg/kg	500 mg/kg [7, 8]	500 mg/kg				
N, N-Dimethylformamide											
N,N-dimethylformamide	68-12-2	1	0.1	1000 mg/kg [6]	100 mg/kg	500 mg/kg [7, 8]	100 mg/kg	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)			DIN CEN ISO TS 16189 Solvent extraction: Methanol GC-MS analysis
9. Chloro phenols											
Pentachlorophenols (PCP)	87-86-5	0.5	0.025	PCP - 0,05 / 0,5 mg/kg [2] TeCP - 0,05 / 0,5 mg/kg [2] (sum) TriCP - 0,2 / 2 mg/kg [2] (sum)	0,5 / 1 mg/kg [2] (each)	PCP - 0,05 / 0,25 mg/kg [2] TeCP - 0,05 / 0,25 mg/kg [2] (sum) TriCP - 0,2 / 1 mg/kg [2] (sum)	0,5 / 1 mg/kg [2] (each)	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)	Liquid extraction, derivatisation, with acetic anhydride, GC-MS analysis.	Solvent extraction, derivatisation, with acetic anhydride, GC-MS analysis.	DIN EN ISO 17070 Solvent extraction / Derivatisation: KOH GC-MS analysis or LC-MS analysis (no derivatisation)
Tetrachlorophenols (TeCP)	25167-83-3										
2,3,4,5-Tetrachlorophenol	4901-51-3										
2,3,4,6-Tetrachlorophenol	58-90-2										
2,3,5,6-tetrachlorophenol	935-95-5										
Trichlorophenol (TriCP)	25167-82-2										
2,4,6-trichlorophenol	88-06-2										
2,3,4-trichlorophenol	15950-66-0										
2,3,5-trichlorophenol	933-78-8										
2,3,6-trichlorophenol	933-75-5										
2,4,5-trichlorophenol	95-95-4										
3,4,5-trichlorophenol	609-19-8										
Dichlorophenols (DiCP)	25167-81-1			DiCP - 0,5 / 3 mg/kg [2] (sum) MCP - 0,5 / 3 mg/kg [2] (sum)	0,5 / 1 mg/kg [2] (each)	DiCP - 0,5 / 1 mg/kg [2] (sum) MCP - 0,5 / 1 mg/kg [2] (sum)	0,5 / 1 mg/kg [2] (each) DiCP (leather): 1 mg/kg (each) MCP (leather): 2 mg/kg (each)				
2,3-dichlorophenol	576-24-9										
2,4-dichlorophenol	120-83-2										
2,5-dichlorophenol	583-78-8										
3, 4-dichlorophenol	95-77-2										
3, 5-dichlorophenol	591-35-5										
Mono Chlorophenol	various										
10. SCCP											
SCCP *C 10-13*	85535-84-8	0.4	0.03	100 mg/kg (in total)	100 mg/kg (in total)	50 mg/kg (sum)	100 mg/kg (sum)	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)	Liquid extraction with toluene, GC-MS resp. LC/MS analysis.	Solvent extraction with toluene, GC-MS resp. LC/MS analysis.	DIN EN ISO 18219 Solvent Extraction: Hexan / Toluol GC-NCI-MS analysis

		M-RSL Limits		RSL Limits Version 1 [11]		RSL Limits Version 2 [12]		Test Method			
Substance	**CAS-no.**	**Output: Waste water (µg/l)**	**Output: Sludge (mg/kg)**	**Product section / Limits - Textiles[1]**	**Product section / Limits - Shoes[1]**	**Product section / Limits - Textiles[1]**	**Product section / Limits - Shoes[1]**	**Input: Chemical Formulations**	**Output: Waste water**	**Output: Sludge**	**Output: Products[10]**
11. Heavy metals											
Cadmium(Cd)	7440-43-9	0.1	1	40 mg/kg (total)	100 mg/kg (total)	0,1 mg/kg (soluble) or; 40 mg/kg (total) for plastics and coated materials	0,1 mg/kg (soluble) or; 40 mg/kg (total) for plastics and coated materials	According to the latest version of the ZDHC (Zero Discharge of Hazardous Chemicals Programme) MRSL (Manufacturing Restricted Substances List)	Digestion, ICP analysis	Digestion, ICP analysis	DIN EN 1122-2001 Acid Digestion ICP analysis (Total) DIN EN 16711-1 Detection after microwave digestion (nitric acid / hydrochloric acid) ICP-MS analysis (Extractable)
Lead(Pb)	7439-92-1	1	1	90 mg/kg (total)	90 mg/kg (total)	0,2 mg/kg (soluble) or; 75 mg/kg (total) for plastics and coated materials	0,2 mg/kg (soluble) or; 75 mg/kg (total) for plastics and coated materials				
Mercury(Hg)	7439-97-6	0.05	0.006	0,02 mg/kg (soluble)	0,02 mg/kg (soluble)	0,02 mg/kg (soluble)	0,02 mg/kg (soluble)				ISO 105-E04 Acid perspiration extraction ICP analysis (Extractable) DIN EN 16711-2 Acid perspiration extraction ICP analysis (Extractable)
Nickel(Ni)	7440-02-0	1	1	1 / 4 mg/kg [2] (soluble)	4 mg/kg (soluble)	1 mg/kg (soluble)	1 mg/kg (soluble)				
Hexavalent Chromium(Cr-VI)	18540-29-9	1	1	not detectable (< 0,5 mg/kg) (soluble)	not detectable (< 3 mg/kg) (soluble)	not detectable (< 0,5 mg/kg) (soluble)	not detectable (< 3 mg/kg) (soluble)				DIN EN ISO 17075
Arsenic(As)	7440-38-2	1	1	0,2 / 1 mg/kg [2] (soluble)	0,2 mg/kg (soluble)	0,2 mg/kg (soluble)	0,2 mg/kg (soluble)				ISO 105-E04 Acid perspiration extraction ICP analysis (Extractable) DIN EN 16711-2 Acid perspiration extraction ICP analysis (Extractable)
Chromium(Cr)	7440-47-3	1	1	1 / 2 mg/kg [2] (soluble)	0,2 g/kg (soluble)	1 mg/kg (soluble)	0,2 g/kg (soluble)				
Copper(Cu)	7440-50-8	1	1	25 / 50 mg/kg [2] (soluble)	50 mg/kg (soluble)	25 / 50 mg/kg [2] (soluble)	50 mg/kg (soluble)				
Zinc(Zn)	7440-66-6	1	4	750 mg/kg [9] (soluble)	750 mg/kg [9] (soluble)	750 mg/kg [9] (soluble)	750 mg/kg [9] (soluble)				
Manganese(Mn)	7439-96-5	1	1	90 mg/kg (soluble)	90 mg/kg (soluble)	90 mg/kg (soluble)	90 mg/kg (soluble)				
Antimony (Sb)	7440-36-0	1	1	30 mg/kg (soluble)	30 mg/kg (soluble)	30 mg/kg (soluble)	30 mg/kg (soluble)				
Cobalt (Co) (Extractable heavy-metals by artificial acidic sweat)	7440-48-4	1	1	1 / 4 mg/kg [2] (soluble)	4 mg/kg (soluble)	1 mg/kg (soluble)	4 mg/kg (soluble)		Best current testing technology using lowest detection / reporting limits always updated and applied	Best current testing technology using lowest detection / reporting limits always updated and applied	

M-RSL/RSL
(Manufacturing Restricted Substances List / Restricted Substances List)
These detection/reporting limits and test methods will be revised - at least yearly - to ensure that always the best current technology and the lowest detection/reporting limits are applied.
Substances which are mandatory to use due to legal obligations or threshold limits in order to fulfil technical standards and requirements are exempt.

Footnote 1)	Textile products with leather as a main component are tested according to the Product section / Limits - Shoes
Footnote 2)	Limits set within the defined ranges depend on the requirement of use which apply to individual substances in certain articles (e.g. baby products); excluding metal parts
Footnote 3)	Intentional use prohibited for all main components / 'confirmation of non-use'
Footnote 4)	Smell test based on SNV 195 651to be carried out first. Further analytical testing only if significant deviations occur
Footnote 5)	2 mg/kg for products with skin contact (AfPS)
Footnote 6)	Exception for products which must be treated hot (in wet or dry stage) during further processing: maximal 3,0%
Footnote 7)	Exception for products which must be treated hot (in wet or dry stage) during further processing: maximal 1,5%
Footnote 8)	For materials made of polyacrylonitrile (PAN), elastane (EL), polyurethane (PU), and aramides: 1000 mg/kg
Footnote 9)	It is intended to reduce the threshold limit to 90 ppm by 2020
Footnote 10)	Testing institutes always need to apply the latest test methods available for the defined standards and norms
Footnote 11)	RSL Limits are valid until RSL Limits Version 2 become effective RSL Limits valid for all products for which a Global Recycled Standard (GRS) Certificate is available (testing scope will be defined individually by the international or national quality assurance department)
Footnote 12)	RSL Limits valid from Q4/2017 onwards (ALDI North, ALDI SOUTH Germany, Hofer S/E and ALDI UK) RSL Limits valid from Q1/2018 onwards (ALDI Australia and ALDI US)