

M-RSL Limits		RSL Limits 2016/2017		RSL Limits valid from Q4/2017		Test Method					
Substance	CAS-no.	Output: Waste water (µg/l)	Output: Sludge (mg/kg)	Product section / Limits - Textiles	Product section / Limits - Shoes	Product section / Limits - Textiles	Product section / Limits - Shoes	Input: Chemical Formulations	Output: Waste water	Output: Sludge	Output: Products
1. Alkylphenols / Alkylphenolethoxylates (API/APEO)											
Octylphenol OP	Various	1	0.2								
4-(1,1,3,3-Tetramethylbutyl)-phenol (octylphenols)	140-66-9	1	0.2								
Octylphenol	27193-28-8	1	0.2								
4-Octylphenol	1806-28-4	1	0.2								
Nonylphenol NP	various	1	0.2								
4-Nonylphenol	25154-52-3	1	0.2								
Nonylphenol	104-40-5	1	0.2								
Nonylphenol	90481-04-2	1	0.2								
4-Nonylphenol (branched)	84552-15-3	1	0.2								
Nonylphenol	1173015-62-9	1	0.2								
Nonylphenol Ethoxylates NPEO (1-2)	various	1	0.2								
Nonylphenol Ethoxylates NPEO (2-10)	various	1	0.2								
(Nonylphenoxy)-polyethylenoxid	9016-45-8	1	0.2								
4-Nonylphenol, ethoxylated	26227-38-3	1	0.2								
(NPEs 3-18) 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								
Unkennntes Fatmittel 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								
(OPEs 3-18) alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl) (SIN List OPEs)	9002-93-1	1	0.2								
4-tert-Octylphenol ethoxylate	9036-19-5	1	0.2								
4-tert-Octylphenol ethoxylate	69987-90-6	1	0.2								
2. Phthalates											
D-Butyl Phthalate (DBP)	84-74-2	1	0.3								
Di(2-Ethyl Hexyl) Phthalate (DEHP)	117-81-7	1	0.3								
Benzyl Butyl Phthalate (BBP)	85-68-7	1	0.3								
D-iso-Nonyl Phthalate (DINP)	28553-12-0, 68515-48-0	1	0.3								
D-N-Octyl Phthalate (DNOP)	117-84-0	1	0.3								
D-iso-Decyl Phthalate (DIDP)	26761-40-0, 68515-49-1	1	0.3								
D-iso-Butyl Phthalate (DIBP)	84-69-5	1	0.3								
D-N-Hexyl Phthalate (DNHP)	84-75-3	1	0.3								
Di-(2-methoxyethyl) Phthalate (DMEP)	117-82-8	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	1000 mg/kg	1000 mg/kg	250 mg/kg (sum)	500 mg/kg (sum)				
DHNUP	68515-42-4	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								
DHP	71888-89-6	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								
DPP	131-18-0	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								
3. Brominated and Chlorinated Flame Retardants ²⁾											
Polybrominated biphenyls (PBBs)	59536-65-1 various										
Monobromo biphenyls (MonoBB)	-	0.05	0.03								
Diobromo 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)	13654-09-8	0.05	0.03								
Polybrominated diphenyl ethers (PBDEs)	various	0.05	0.03								
Monobromo diphenyl ethers (MonoBDE)	-	0.05	0.03								
Diobromo diphenyl ethers (DiBDE)	-	0.05	0.03								
Tribromo diphenyl ethers (TriBDE)	-	0.05	0.03								
Tetrabromo diphenyl ethers (TetraBDE)	40988-47-9	0.05	0.03								
Pentabromo diphenyl ethers (PentaBDE)	32344-81-9	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)	1163-19-6	0.05	0.03								
Tri(2,3-Dibromopropyl)-Phosphate	126-72-7	0.5	0.25								
Tri(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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Subgroup: Other Flame Retardants											
TEPA	545-85-1										
TRIS	5412-25-9										
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	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	best current technology	best current technology	best current technology	best current technology				Solvent extraction and GC-MS / LC-MS analysis Solvent: Toluol GC-MS analysis
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	92-87-1										
Benzidine	92-87-5										
4-Chloro-o-Toluidine	95-69-2										
2-Naphthylamine	91-59-8										
o-Aminoacetolamine	97-55-3										
2-Amino-4-Nitrotoluene	99-55-8										
p-Chloroaniline	106-47-8										
2,4-Diaminobenzonitrile	615-05-4										
4,4'-Diaminodiphenylmethane	101-77-9										
3,3'-Dichlorobenzidine	91-94-1										
3,3'-Dimethylbenzidine	119-90-4										
3,3'-Dimethylbenzidine	119-93-7										
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	0.01	0.01	< 30 mg/kg	< 30 mg/kg	< 20 mg/kg (each)	< 20 mg/kg (each)	With Reference To EN 14362:1&3 And Followed By Gas Chromatographic – Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic	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.	EN 14362-1:2012; ISO 17234-1:2010; ISO 17234-2:2011; Leather GB/T 17592; GB/T 23344 (4-aminobenzene)
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-Tolylenediamine	95-80-7										
2,4,5-Trimethylaniline	137-17-7										
p-Anisidine	93-04-0										
p-Aminoazobenzene	60-09-3										
2,4-Xylidine	95-68-1										
2,6-Xylidine	87-62-7										
Subgroup: Carcinogenic dyes											
C.I. Acid Red 25	3781-63-3										
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	573-53-0										
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	85196-74-9										
C.I. Solvent Yellow 1	60-09-3	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	use banned	use banned	< 20 mg/kg (each)	< 20 mg/kg (each)				Solvent extraction and Solvent: Methanol LC-DAD-MS (no GC-MS)
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	2580-96-5										
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										
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	12223-75-2										
C.I. Disperse Blue 102	12222-97-8										
C.I. Disperse Blue 106	12223-01-7										
C.I. Disperse Blue 124	61951-61-7										
C.I. Disperse Brown 1	23355-64-8										
C.I. Disperse Orange 1	2581-69-3	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	use banned	use banned	< 20 mg/kg (each)	< 20 mg/kg (each)				DIN 54231 Solvent: Methanol LC-DAD-MS
C.I. Disperse Orange 3	730-40-5										
C.I. Disperse Orange 37/76	13301-61-6										
C.I. Disperse Red 1	2872-82-8										
C.I. Disperse Red 11	2872-48-2										
C.I. Disperse Red 17	3179-90-6										
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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5. Organotin compounds											
MBT(Monobutyltin)	1118-46-3	0.01	0.01	TBT,TPHT - 0.5 mg/kg DBT, DOT, MBT, MOT, DPhT,TPT,TCyT,TeBT - 1 mg/kg 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)	With Reference To DIN EN17353 And Followed by Gas Chromatography-Mass Spectrometry (GC-MS) Analysis.	With Reference To DIN EN17353 And Followed by Gas Chromatography-Mass Spectrometry (GC-MS) Analysis.	Solvent extraction, derivatisation with tetraethylborate, GC-MS.	Extraction / Derivatisation followed by GC-MS analysis Solvent: Methanol
DBT(Dibutyltin)	1002-63-6										
TBT(Tributyltin)	56573-85-4										
TPHT(Triphenyltin)	892-20-6										
DOT(Dioctyltin)	94410-05-6										
MOT(Monooctyltin)	15231-44-4										
DPhT(Diphenyltin)	1011-85-6										
TeBT(Tetrabutyltin)	1461-25-2										
TCyT(Tricyclohexyltin)	NA										
TPT(Tripentyltin)	NA										
ooTEt(Tetraethyltin)	597-64-8	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	Others - 2 mg/kg							
TBTO	56-35-9										
DBTC	683-18-1										
TPT	668-34-8										
DBB	75113-37-0										
6. PFs (Perfluorocarbon / Polyfluorinated Compounds)											
PFOA	335-67-1	0.01	0.001	use banned	use banned	0.05 mg/kg (each)	0.05 mg/kg (each)	CEN/TS 15968:2010 - modified	CEN/TS 15968:2010 LC/MS analysis - modified	Solvent extraction CEN/TS 15968:2010. LC/MS analysis - modified	Solvent extraction, LC-MS analysis. Extraction with methanol
PFNA	375-95-1	0.01	0.001								
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								
PFPA	2708-80-3	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								
PFTA	72629-94-9	0.01	0.001								
PfBa	376-06-7	0.01	0.001								
PFHpS	375-82-8	0.01	0.001								
PFDS	335-77-3	0.01	0.001								
PF-3,7-DMOA	172155-07-6	0.01	0.001								
PFHpMA	1546-85-8	0.01	0.001								
4HPFUnA	34588-33-9	0.01	0.001								
1H, 1H, 2H, 2H-PFOS	27619-97-2	0.01	0.001								
PFOS	1763-23-1	0.01	0.001								
POSF	307-35-7	0.1	0.01								
PFOSA	754-91-6	0.1	0.01								
N-Me-FOSA	31596-32-8	0.1	0.01								
N-Et-FOSA	4151-69-2	0.1	0.01								
N-Me-FOSE alcohol	24449-09-7	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								
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	17741-60-6	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)	Liquid extraction GC-MS analysis.	Liquid extraction GC-MS analysis.	Solvent extraction GC-MS analysis.	Extraction / Derivatisation followed by GC-MS analysis Dichloromethane extraction GC/MS Detection (no derivatisation)
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	12408-10-5										
1,2,3,4-tetrachlorobenzene	634-66-2										
1,2,3,5-tetrachlorobenzene	634-90-2										
1,2,4,5-tetrachlorobenzene	85-94-3										
Pentachlorobenzene	606-93-5										
Hexachlorobenzene	118-74-1										

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Chloro-Toluenes (solvents and biocides, Production dyes, Chemical Intermediates, Antifetling)											
2-chlorotoluene	95-49-8	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	1 mg/kg	1 mg/kg	1 mg/kg (sum)	1 mg/kg (sum)				Solvent extraction and GC-MS analysis Dichloromethane extraction GC-MS Detection (no derivatisation)
3-chlorotoluene	108-41-8										
4-chlorotoluene	108-43-4										
2,3-dichlorotoluene	32788-54-0										
2,4-dichlorotoluene	95-73-8										
2,5-dichlorotoluene	19398-61-9										
2,7-dichlorotoluene	118-69-4										
3,4-dichlorotoluene	95-75-0										
2,3,6-trichlorotoluene	2077-46-5										
2,4,5-trichlorotoluene	6639-30-1										
Benzotrifluoride	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, 2,5-tetrachlorotoluene	8119-5										
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)	By Headspace Gas Chromatography Mass Spectrometric (HS - GC/MS) Analysis.	By Headspace Gas Chromatography Mass Spectrometric (HS - GC/MS) Analysis.	GC-MS Headspace analysis.	Extraction / Derivatisation followed by GC-MS analysis (no derivatisation)
Chloroform	67-66-3										
Tetrachloroethane	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	79-01-7										
1,1-Dichloroethylene	75-35-4										
Other VOCs ³⁾											
Methyl ethyl ketone	78-93-3	Best current testing technology using lowest detection / reporting limits always updated and applied	0.1	100 mg/kg	500 mg/kg	10 mg/kg	50 mg/kg				Solvent extraction and GC-MS analysis Acetone extraction GC-MS analysis
Ethylbenzene	100-41-4										
Xylene	1330-20-7										
Cyclohexanone	108-94-1										
2-ethoxyethylacetate	111-15-9										
1,2,3-trichloropropane	96-16-4										
Acetophenone	96-86-2										
Naphthalene	91-20-3										
2-phenyl-2-propanone	617-84-7										
Bis(2-methoxyethyl) ether	111-96-6										
1-methyl-2-pyrrolidone	872-50-4										
N,N-dimethylacetamide	127-19-5										
Styrene	100-42-5										
Benzene	71-43-2										
Toluene	108-88-3										
N,N-dimethylformamide	68-12-2										
9. Chloro phenols											
Pentachlorophenols (PCP)	87-86-5	0.5	0.025	PCP - 0.05 / 0.5 mg/kg ¹⁾ TeCP - 0.05 / 0.5 mg/kg ¹⁾ (sum) TriCP - 0.2 / 2 mg/kg ¹⁾ (sum)	0.5 / 1 mg/kg ¹⁾ (each)	PCP - 0.05 / 0.25 mg/kg ¹⁾ TeCP - 0.05 / 0.25 mg/kg ¹⁾ (sum) TriCP - 0.2 / 1 mg/kg ¹⁾ (sum)	0.5 / 1 mg/kg ¹⁾ (each)	Extraction / Derivatisation followed by GC-MS analysis	Liquid extraction, derivatisation, with acetic anhydride, GC-MS analysis.	Solvent extraction, derivatisation, with acetic anhydride, GC-MS analysis.	Extraction / Derivatisation with KOM followed by 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	939-95-5										
Trichlorophenol (TriCP)	25167-82-2										
2,4,6-trichlorophenol	88-08-2										
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										
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	1000 mg/kg (in total)	1000 mg/kg (in total)	50 mg/kg (sum)	500 mg/kg (sum)	Extraction with toluene, GC-MS resp. LC/MS analysis.	Liquid extraction with toluene, GC-MS resp. LC/MS analysis.	Solvent extraction with toluene, GC-MS resp. LC/MS analysis.	Solvent Extraction & GC-CE analysis. Hexan-extraction, GC NCI-MS detection according ISO 18219

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11. Heavy metals											
Cadmium(Cd)	7440-43-9	0.1	1	40 mg/kg (total)	100 mg/kg (total)	40 mg/kg (total) plastics and coated materials / 0.1 mg/kg (soluble)	40 mg/kg (total) plastics and coated materials / 0.1 mg/kg (soluble)	Digestion, ICP analysis	Digestion, ICP analysis	Digestion, ICP analysis	EN 1122:2001 / Acid Digestion followed by ICP analysis. (Total) Detection after microwave digestion with nitric acid/hydrochloric acid and ICP-MS measurement
Lead(Pb)	7439-92-1	1	1	90 mg/kg (total)	90 mg/kg (total)	75 mg/kg (total) plastics and coated materials / 0.2 mg/kg (soluble)	75 mg/kg (total) plastics and coated materials / 0.2 mg/kg (soluble)				ISO 105-E04 acid perspiration extraction & ICP analysis. (Extractable)
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)				EN ISO 17075:2008
Nickel(Ni)	7440-02-0	1	1	1 / 4 mg/kg ¹¹ (soluble)	4 mg/kg (soluble)	1 mg/kg (soluble)	1 mg/kg (soluble)				ISO 105-E04 acid perspiration extraction & ICP analysis. (Extractable)
Hexavalent Chromium(Cr-VI)	18540-29-9		1	not detectable (3 mg/kg) (soluble)	not detectable (3 mg/kg) (soluble)	not detectable (< 3 mg/kg) (soluble)	not detectable (< 3 mg/kg) (soluble)				
Arsenic(As)	7440-38-2	1	1	0.2 / 1 mg/kg ¹¹ (soluble)	0.2 mg/kg (soluble)	0.2 mg/kg (soluble)	0.2 mg/kg (soluble)				
Chromium(Cr)	7440-47-3	1	1	1 / 2 mg/kg ¹¹ (soluble)	0.2 µg/kg (soluble)	1 mg/kg (soluble)	0.2 µg/kg (soluble)				
Copper(Cu)	7440-50-8	1	1	25 / 50 mg/kg ¹¹ (soluble)	50 mg/kg (soluble)	25 / 50 mg/kg ¹¹ (soluble)	50 mg/kg (soluble)				
Zinc(Zn)	7440-66-6	1	4	90 mg/kg (soluble)	90 mg/kg (soluble)	90 mg/kg (soluble)	90 mg/kg (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 ¹¹ (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	Best current testing technology using lowest detection / reporting limits always updated and applied	Heavy metals extractable: by acid sweat Extraction UNI EN ISO 105-E04. Determination AAS-ICP/OES/MS. Determination CVI: extraction in alkaline buffer - colorimetric detection method to dithionite. Soluble heavy metals Migration with acidic sweat solution Detection with ICP-MS

M-RSL/RSL**(Manufacturing Restricted Substances List / Restricted Substances List)**

These detection/reporting limits and test methods will be revised - at least yearly, to always reflect best current technology using lowest detection/reporting limits.
Mandatory use of substances due to legal obligations or boundaries to reach technical standards and requirements are exempted.

¹¹ Limit within the defined ranges depending on obligations for individual uses of substances in articles (e.g. babies or prolonged skin contact); excluding metal parts

¹² Intentional use prohibited for all main components / confirmation of non use*

¹³ Small test based on SNV 195 651 in the first place. Further analytical testing as soon as significant deviations occur.

¹⁴ 2 mg/kg for skin contact (APS)

¹⁵ Limits for polyacrylonitrile (PAN), elastane, and aramide fibres 1000 mg/kg