

TCHIBO Manufacturing Restricted Substances List (MRSL V2.2)

Responsible handling of chemicals (including purchase, use and disposal) must be implemented at any steps of supply chains. Tchibo will enhance both training and auditing of suppliers in order to continuously improve the chemical management and phase out of hazardous chemicals in the supply chains.

* Detection limits have not been tested and compared extensively yet for each of the hazardous substances groups. Therefore research is required and more knowledge has to be gained before the limit values determined in this MRSL can become mandatory for the supply chains. Tchibo has committed to phase out discharges and losses of hazardous chemicals from the production and the products until 2020. Phase out means step by step elimination "not detectable to the limits of the best current technology". To systematically phase out hazardous chemicals, the current laboratory and analytical technologies must be reproducible and comparable for each media or material which is subject to analysis.

Background levels (anthropogenic or natural) as well as best current technologies derived from waste water legal requirements will be considered in the revisions of this document.

** Detection limits have not been tested and compared extensively yet for each of the hazardous substances groups in chemical inputs by the international chemical industry. Therefore research is required and more knowledge has to be gained before the limit values determined in this MRSL can become mandatory for the supply chains. Tchibo will engage in stakeholder initiatives to gain knowledge on the appearance of traces of hazardous substances in chemicals, analytical methods and detection limits for chemical formulations. Target of this engagement is the phase out of hazardous chemicals until 2020 by the international chemical industry.

*** Detection limits have not been tested and compared extensively yet for each of the hazardous substances groups. Therefore research is required and more knowledge has to be gained before the limit values determined in this MRSL can become mandatory for the supply chains. Detection limits of hazardous chemicals tested by accredited laboratories may vary between different labs and/or standards for certain materials. Additionally, methods might not be developed yet. Best current laboratory and analytical technologies must be reproducible and comparable for each product or material which is subject to analysis. Tchibo will work closely together with the accredited laboratories to work towards reproducible and comparable results according to best current technologies.

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEO): including all isomers (No intentional use)									
Nonylphenol (NP) mixed isomers	Nonylphenol	104-40-5	1 µg/l	0.2 mg/kg	With Reference To DIN EN ISO 18857 And Followed by Liquid Chromatography – Mass Spectrometry (LC-MS) Analysis. NPEO(1+2): GC/MS	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	extraction with Ethanol or THF/Acetonitril / AP: GC-MS and LC-DAD analysis APEO: LC-MS analysis	banned 01.07.2016
		11066-49-2							banned 01.07.2016
	4-Nonylphenol (branched)	25154-52-3							banned 01.07.2016
		84852-15-3							banned 01.07.2016
		1173019-62-9							banned 01.07.2016
	Nonylphenol (mixed isomers)	90481-04-2							banned 01.07.2016
Octylphenol (OP), mixed isomers		various	1 µg/l	0.2 mg/kg	With Reference To DIN EN ISO 18857 And Followed by Liquid Chromatography – Mass Spectrometry (LC-MS) Analysis. NPEO(1+2): GC/MS	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	extraction with Ethanol or THF/Acetonitril / AP: GC-MS and LC-DAD analysis APEO: LC-MS analysis	banned 01.07.2016
	4-(1,1,3,3-Tetramethylbutyl)phenol	140-66-9							banned 01.07.2016
	Octylphenol	27193-28-8							banned 01.07.2016
Nonylphenol ethoxylates (NPEO), NP1EO, NP2EO [*1] n ₃₋₁₈ [*2]	4-Octylphenol	1806-26-4			With Reference To DIN EN ISO 18857 And Followed by Liquid Chromatography – Mass Spectrometry (LC-MS) Analysis. NPEO(1+2): GC/MS	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	extraction with Ethanol or THF/Acetonitril / AP: GC-MS and LC-DAD analysis APEO: LC-MS analysis	banned 01.07.2016
	Nonylphenol ethoxylated	9016-45-9	1 µg/l	0.2 mg/kg					banned 01.07.2016
	4-Nonylphenol, ethoxylated	26027-38-3							banned 01.07.2016
	Nonylphenol ethoxylated	68412-54-4							banned 01.07.2016
	Nonylphenol ethoxylated	127087-87-0							banned 01.07.2016
Octylphenol ethoxylates (OPEO) OP1EO, OP2EO [*1] n ₃₋₁₈ [*2]	Nonylphenol ethoxylated	37205-87-1			With Reference To DIN EN ISO 18857 And Followed by Liquid Chromatography – Mass Spectrometry (LC-MS) Analysis. NPEO(1+2): GC/MS	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	extraction with Ethanol or THF/Acetonitril / AP: GC-MS and LC-DAD analysis APEO: LC-MS analysis	banned 01.07.2016
		various	1 µg/l	0.2 mg/kg					banned 01.07.2016
		9002-93-1							banned 01.07.2016
	4-tert-Octylphenoethoxylate	9036-19-5							banned 01.07.2016
	4-tert-Octylphenoethoxylate	68987-90-6						banned 01.07.2016	
Chlorobenzenes - Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- chlorobenzene (No intentional use)									
Dichlorobenzene	1,2-dichlorobenzene	95-50-1	0.02 µg/l	0.01 mg/kg	Liquid extraction GCMS analysis	Liquid extraction GCMS analysis	Solvent extraction GCMS analysis	extraction with Dichloromethane, GC-MS analysis acc. to DIN 54232	banned 31.12.2019
	1,3-Dichlorobenzene	541-73-1							banned 31.12.2019
	1,4-Dichlorobenzene	106-46-7							banned 31.12.2019
Tetrachlorobenzene	Tetrachlorobenzene (all isomers)	12408-10-5							banned 31.12.2019
	1,2,3,4-Tetrachlorobenzene	634-66-2							banned 31.12.2019
	1,2,3,5-Tetrachlorobenzene	634-90-2							banned 31.12.2019
	1,2,4,5-Tetrachlorobenzene	95-94-3							banned 31.12.2019
Pentachlorobenzene	608-93-5								banned 31.12.2019
Hexachlorobenzene	118-74-1								banned 31.12.2019
Trichlorobenzene	Trichlorobenzene (all isomers)	12002-48-1							banned 31.12.2019
	1,2,4-Trichlorobenzene	120-82-1	banned 31.12.2019						
	1,2,3-Trichlorobenzene	87-61-6	banned 31.12.2019						
	1,3,5-Trichlorobenzene	108-70-3	banned 31.12.2019						
Chlorobenzene	108-90-7		tbd	tbd	tbd	tbd	tbd	banned 31.12.2019	

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Chlorotoluenes - Mono-, di-, tri-, tetra- and penta- chlorotoluene (No intentional use)									
Chlorotoluenes	2-chlorotoluene	95-49-8	tbd	declaration of non-use	tbd	tbd	tbd	extraction with Dichloromethane, GC- MS analysis acc. to DIN 54232	banned 31.12.2019
	3-chlorotoluene	108-41-8	tbd		tbd	tbd	tbd		banned 31.12.2019
	4-chlorotoluene	106-43-4	tbd		tbd	tbd	tbd		banned 31.12.2019
Dichlorotoluene	2,3-dichlorotoluene	32768-54-0	tbd		tbd	tbd	tbd		banned 31.12.2019
	2,4-dichlorotoluene	95-73-8	tbd		tbd	tbd	tbd		banned 31.12.2019
	2,5-dichlorotoluene	19398-61-9	tbd		tbd	tbd	tbd		banned 31.12.2019
	2,7-dichlorotoluene	118-69-4	tbd		tbd	tbd	tbd		banned 31.12.2019
Trichlorotoluene	3,4-dichlorotoluene	95-75-0	tbd		tbd	tbd	tbd		banned 31.12.2019
	2,3,6-trichlorotoluene	2077-46-5	tbd		tbd	tbd	tbd		banned 31.12.2019
	2,4,5-trichlorotoluene	6639-30-1	tbd		tbd	tbd	tbd		banned 31.12.2019
	alfa, 2,4-trichlorotoluene	98-07-7	tbd		tbd	tbd	tbd		banned 31.12.2019
	alfa,2,6-trichlorotoluene	94-99-5	tbd		tbd	tbd	tbd		banned 31.12.2019
Benzotrichloride	alfa,3,4-trichlorotoluene	2014-83-7	tbd		tbd	tbd	tbd		banned 31.12.2019
		102-47-6	tbd		tbd	tbd	tbd		banned 31.12.2019
Tetrachlorotoluene	alpha, alpha, 2,6-tetrachlorotoluene	81-19-6	tbd		tbd	tbd	tbd		banned 31.12.2019
	alpha, alpha, alpha, 2,-tetrachlorotoluene	2136-89-2	tbd		tbd	tbd	tbd		banned 31.12.2019
	alpha, alpha, alpha, 4,-tetrachlorotoluene	5216-25-1	tbd		tbd	tbd	tbd		banned 31.12.2019
Pentachlorotoluene	2,3,4,5,6-pentachlorotoluene	877-11-2	tbd		tbd	tbd	tbd		banned 31.12.2019
	Benzyl chloride; α -chlorotoluene	100-44-7	tbd		tbd	tbd	tbd		banned 31.12.2019
	α,α -Dichlorotoluene (Benzal chloride)	98-87-3	tbd		tbd	tbd	tbd		banned 31.12.2019
Chlorophenols - Mono-, di-, tri-, tetra- and penta- chlorophenols (No intentional use)									
Pentachlorophenols		87-86-5	0.5 $\mu\text{g/l}$	0.025 mg/kg	Extraction / Derivation followed by GC-MS analysis	Liquid extraction, derivatisation, with acetic anhydride, GC- MS analysis.	Solvent extraction, derivatisation, with acetic anhydride, GCMS analysis.	Modified § 64 LFGB BVL 82.02-08 with KOH extraction, analysis: GC- ECD / GC-MS	banned 31.12.2019
Tetrachlorophenols	Tetrachlorophenols (TeCP)	25167-83-3							banned 31.12.2019
	2,3,4,5-Tetrachlorophenol	4901-51-3							banned 31.12.2019
	2,3,4,6-Tetrachlorophenol	58-90-2							banned 31.12.2019
	2,3,5,6-Tetrachlorophenol	935-95-5							banned 31.12.2019
Trichlorophenols	Trichlorophenols (TrCP)	25167-82-2							banned 31.12.2019
	2,4,6-trichlorophenol	88-06-2							banned 31.12.2019
	2,3,4-trichlorophenol	15950-66-0							banned 31.12.2019
	2,3,5-trichlorophenol	933-78-8							banned 31.12.2019
	2,3,6-trichlorophenol	933-75-5							banned 31.12.2019
	2,4,5-trichlorophenol	95-95-4							banned 31.12.2019
Dichlorophenols	3,4,5-trichlorophenol	609-19-8							banned 31.12.2019
	Dichlorophenols (DiCP)	25167-81-1							banned 31.12.2019
	2,3-dichlorophenol	576-24-9							banned 31.12.2019
	2,4-dichlorophenol	120-83-2							banned 31.12.2019
	2,5-dichlorophenol	583-78-8							banned 31.12.2019
Monochlorophenols	3,4-dichlorophenol	95-77-2							banned 31.12.2019
	3,5-dichlorophenol	591-35-5							banned 31.12.2019
	2-Chlorophenol	95-57-8							banned 31.12.2019

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Dyes and Pigments - Azo (Forming Restricted Amines)									
(The following substance group is not expected to be used intentionally in the production of textiles. Tchibo will engage in stakeholder initiatives towards the reduction/ phase out of contaminations of the substances in productions.) To avoid the use of colourants in production, which are known to release carcinogenic aromatic amines, suppliers shall forward the IFOP list (2001) to their chemical suppliers as guidance. (http://www.tegewa.de/uploads/media/Azodyes_pursuant_to_TRGS_614_TEGEWA.pdf)									
Legally restricted amines	4-Aminodiphenyl	92-67-1	0.01 µg/l	0.01 mg/kg	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	\$64 LFGB B 82.02-2, EN 14362-1; LL: ISO 17234-1	banned 31.12.2019
	Benzidine	92-87-5							banned 31.12.2019
	4-Chlor-o-toluidine	95-69-2							banned 31.12.2019
	2-Naphthylamine	91-59-8							banned 31.12.2019
	o-Aminoazotoluene	97-56-3							banned 31.12.2019
	2-Amino-4-nitrotoluene / 5-nitro-o-toluidine	99-55-8							banned 31.12.2019
	p-Chloroaniline / 4-chloroaniline	106-47-8							banned 31.12.2019
	2,4-Diaminoanisole / 4-methoxy-m-phenylenediamine	615-05-4							banned 31.12.2019
	4,4'-Diaminodiphenylmethane / 4,4'-methylene-dianiline	101-77-9							banned 31.12.2019
	3,3'-Dichlororbenzidine	91-94-1							banned 31.12.2019
	3,3'-Dimethylbenzidine	119-93-7							banned 31.12.2019
	3,3'-Dimethyl-4,4'-diaminodiphenylmethane / 4,4'-methylendi-o-toluidine	838-88-0							banned 31.12.2019
	p-Cresidine / 6-methoxy-m-toluidine	120-71-8							banned 31.12.2019
	4,4'Methylen-bis-(2-chloroaniline)	101-14-4							banned 31.12.2019
	4,4'-Oxydianiline	101-80-4							banned 31.12.2019
	4,4'-Thiodianiline	139-65-1							banned 31.12.2019
	o-Toluidine	95-53-4							banned 31.12.2019
	2,4-Toluyldiamine / 5-nitro-o-toluidine / 4-methyl-m-phenylenediamine	95-80-7							banned 31.12.2019
	2,4,5-Trimethylaniline	137-17-7							banned 31.12.2019
	o-Ansidine (2-Methoxyaniline)	90-04-0							banned 31.12.2019
	2,4-Xylidine (2,4-Dimethylaniline)	95-68-1							banned 31.12.2019
	4-aminoazobenzene (Aminoazobenzene)	60-09-3							banned 31.12.2019
	2,6-Xylidine (2,6-Dimethylaniline)	87-62-7							banned 31.12.2019
	3,3'-Dimethoxybenzine	119-90-4							banned 31.12.2019
	Aniline	62-53-3							tbd
2-nitroanisole	91-23-6	tbd	tbd	tbd	tbd	tbd	tbd	phase out	
2-nitronaphthalene	581-89-5	tbd	tbd	tbd	tbd	tbd	tbd	phase out	
Azobenzene	103-33-3	tbd	tbd	tbd	tbd	tbd	tbd	phase out	
Michler's base (N,N,N',N'-tetramethyl-4,4'-methylene-dianiline)	101-61-1	tbd	tbd	tbd	tbd	tbd	tbd	phase out	
N-(2-Naphthyl)anilin	135-88-6	tbd	tbd	tbd	tbd	tbd	tbd	phase out	
Anthraquinone	84-65-1	tbd	tbd	tbd	tbd	tbd	tbd	phase out	
anthraquinone, 1-hydroxy	129-43-1	tbd	tbd	tbd	tbd	tbd	tbd	phase out	
benzophenone, 4,4'-bis(dimethylamino)- [Michler's ketone]	90-94-8	tbd	tbd	tbd	tbd	tbd	tbd	phase out	
Quinoline	91-22-5	tbd	tbd	tbd	tbd	tbd	tbd	phase out	
Dyes - Navy Blue Colourant (No intentional use)									
	Component 1 (Navy blue)	118685-33-9	tbd	tbd	tbd	tbd	tbd	tbd	banned 31.12.2019
	Component 2 (Navy blue)	Not Allocated	tbd	tbd	tbd	tbd	tbd	tbd	banned 31.12.2019

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Dyes and Pigments - Carcinogenic or Equivalent Concern + Disperse sensitizing dyestuffs (No intentional use) - Part 1									
	Acid Red 26	3761-53-3	tbd			tbd	tbd		phase out
	Basic Red 9	569-61-9	tbd			tbd	tbd		phase out
	Basic Violet 14	632-99-5	tbd			tbd	tbd		phase out
	Direct Black 38	1937-37-7	tbd			tbd	tbd		phase out
	Direct Blue 6	2602-46-2	tbd			tbd	tbd		phase out
	Direct Red 28	573-58-0	tbd			tbd	tbd		phase out
	Basic Blue 26 (with Michler's Ketone >0,1%)	2580-56-5	tbd			tbd	tbd		phase out
	Disperse Blue 1	2475-45-8	tbd			tbd	tbd		phase out
	Disperse Orange 11	82-28-0	tbd			tbd	tbd		phase out
	Disperse Orange 149	85136-74-9	tbd			tbd	tbd		phase out
	Disperse Yellow 3	2832-40-8	tbd			tbd	tbd		phase out
	Disperse Yellow 23	6250-23-3	tbd			tbd	tbd		phase out
	Solvent Yellow 1	60-09-3	tbd			tbd	tbd		phase out
	Solvent Yellow 2	60-11-7 (EN 71-9)	tbd			tbd	tbd		phase out
	Solvent Yellow 3	97-56-3	tbd			tbd	tbd		phase out
	Solvent Yellow 14	842-07-9	tbd			tbd	tbd		phase out
	Direct Brown 95	16071-86-6	tbd			tbd	tbd		phase out
	Basic Violet 1	8004-87-3 (EN 71-9)	tbd			tbd	tbd		phase out
	Direct Blue 15	2429-74-5	tbd			tbd	tbd		phase out
	Direct Blue 218	28407-37-6	tbd			tbd	tbd		phase out
	Acid Red 114	6459-94-5	tbd			tbd	tbd		phase out
	Acid Violet 49	1694-09-3	tbd			tbd	tbd		phase out
	Disperse Blue 3	2475-46-9	tbd			tbd	tbd		phase out
	Disperse Blue 7	3179-90-6	tbd			tbd	tbd		phase out
	Disperse Blue 26	3860-63-7	tbd			tbd	tbd		phase out
	Disperse Blue 35	12222-75-2 / 56524-77-7	tbd			tbd	tbd		phase out
	Disperse Blue 102	12222-97-8	tbd			tbd	tbd		phase out
	Disperse Blue 106	12223-01-7	tbd			tbd	tbd		phase out
	Disperse Blue 124	61951-51-7	tbd			tbd	tbd		phase out
	Disperse Brown 1	23355-64-8	tbd			tbd	tbd		phase out
	Disperse Orange 1	2581-69-3	tbd			tbd	tbd		phase out
	Disperse Orange 3	730-40-5	tbd			tbd	tbd		phase out
	Disperse Orange 37/76/59	13301-61-6	tbd			tbd	tbd		phase out
	Disperse Red 1	2872-52-8	tbd			tbd	tbd		phase out
	Disperse Red 11	2872-48-2	tbd			tbd	tbd		phase out
	Disperse Red 17	3179-89-3	tbd			tbd	tbd		phase out
	Disperse Yellow 1	119-15-3	tbd			tbd	tbd		phase out
	Disperse Yellow 9	6373-73-5	tbd			tbd	tbd		phase out
	Disperse Yellow 39	12236-29-2	tbd			tbd	tbd		phase out
	Disperse Yellow 49	54824-37-2	tbd			tbd	tbd		phase out

declaration of non-use

Not tested

\$64 LFGB B 82.02-10,
DIN 54231, analysis:
HPLC-DAD-MS

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Dyes and Pigments - Carcinogenic or Equivalent Concern + Disperse sensitizing dyestuffs (No intentional use) - Part 2									
	Basic Green 4 (malachite green chlorite)	569-64-2	tbd	tbd	tbd	tbd	tbd	§64 LFGB B 82.02-10, DIN 54231, analysis: HPLC-DAD-MS	phase out
	Basic Green 4 (malachite green oxalate)	18015-76-4/ 2437-29-8	tbd	tbd	tbd	tbd	tbd		phase out
	Basic Green 4 (malachite green)	10309-95-2	tbd	tbd	tbd	tbd	tbd		phase out
	Basic Green 4 leuco base	129-73-7	tbd	tbd	tbd	tbd	tbd		phase out
	Pigment Yellow 34	1344-37-2	tbd	tbd	tbd	tbd	tbd		phase out
	Pigment Red 104	12656-85-8	tbd	tbd	tbd	tbd	tbd		phase out
	Pigment Black 25	68186-89-0	tbd	tbd	tbd	tbd	tbd		phase out
	Pigment Yellow 157	68610-24-2	tbd	tbd	tbd	tbd	tbd		phase out
	Acid Orange 24	1320-07-6	tbd	tbd	tbd	tbd	tbd		phase out
	Basic Violet 3 (> 0.1% Michlers Ketone)	548-62-9 / 603-48-5 / 14426-25-6	tbd	tbd	tbd	tbd	tbd		phase out
	Direct Black 91	6739-62-4	tbd	tbd	tbd	tbd	tbd		phase out
	Direct Blue 76	16143-79-6	tbd	tbd	tbd	tbd	tbd		phase out
	Solvent Blue 4	6786-83-0	tbd	tbd	tbd	tbd	tbd		phase out
	Disperse Blue 291	83929-84-4 / 56548-64-2	tbd	tbd	tbd	tbd	tbd		phase out
	Disperse Red 15	116-85-8	tbd	tbd	tbd	tbd	tbd		phase out
	Disperse Violet 93	52697-38-8	tbd	tbd	tbd	tbd	tbd		phase out
	Disperse Yellow 54	7576-65-0	tbd	tbd	tbd	tbd	tbd		phase out
	Disperse Yellow 64	10319-14-9 / 12223-86-8	tbd	tbd	tbd	tbd	tbd		phase out
	Rhodamin B	81-88-9	tbd	tbd	tbd	tbd	tbd		phase out
	Pigment Brown 22	29398-96-7	tbd	tbd	tbd	tbd	tbd		phase out
	Pigment Red 53/ D&C Red No. 8	2092-56-0	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)	
	Pigment Red 168	4378-61-4	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)	
	Auramine hydrochloride/ Basic Yellow 2	2465-27-2	tbd	tbd	tbd	tbd	tbd	phase out	
	(methylenebis(4,1-phenylenazo(1-(3-(dimethylamino)propyl)-1,2-dihydro-6-hydroxy-4-methyl-2-oxopyridine-5,3-diy)))-1,1'-dipyridinium dichloride dihydrochloride	118658-99-4	tbd	tbd	tbd	tbd	tbd	phase out	
	Pigment Rot 53:1 (C.I. 15585:1); D&C Red No. 9/ 5-Chloro-2-((2-hydroxy-1-naphthalenyl)azo)-4-methylbenzenesulfoni- c acid, barium salt(2:1)	5160-02-1	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)	
Dyes and Pigments – Restrictions due to contamination risk (Chemical Input control mandatory. Banned if hazardous contaminations are contained, such as e.g. PAH)									
	Carbon black/ Pigment Black 7	1333-86-4	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****	
Flame Retardants (No Intentional use)										
	Polybrominated diphenyl ethers (PBDE) others		tbd	tbd	tbd	tbd	tbd	tbd	banned 01.07.2016	
	Tris(2-chloroethyl)phosphate	115-96-8	0.05 µg/l	0.03 mg/kg	By Toluene Extraction And Followed By Liquid Chromatography - Mass Spectrometry (LC-MS) And Gas Chromatography - Mass Spectrometry (GC-MS) Analysis	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	tbd	banned 01.07.2016	
	Decabromodiphenyl ether	1163-19-5						tbd	banned 01.07.2016	
	Tris(2,3-dibromopropyl)-phosphate	126-72-7						tbd	banned 01.07.2016	
	Pentabromodiphenyl ether	32534-81-9						tbd	banned 01.07.2016	
	Octabromodiphenyl ether	32536-52-0						tbd	banned 01.07.2016	
	Tetrabromobisphenol A	79-94-7						tbd	banned 01.07.2016	
	Monobromo diphenyl ethers	not explicitly mentioned						tbd	banned 01.07.2016	
	Dibromo diphenyl ethers	not explicitly mentioned						tbd	banned 01.07.2016	
	Tribromo diphenyl ethers	not explicitly mentioned						tbd	banned 01.07.2016	
	Tetrabromo diphenyl ethers	40088-47-9						tbd	banned 01.07.2016	
	Hexabromo diphenyl ethers	36483-60-0						tbd	banned 01.07.2016	
	Heptabromo diphenyl ethers	68928-80-3						tbd	banned 01.07.2016	
	Nonabromo diphenyl ethers	63936-56-1						tbd	banned 01.07.2016	
	Monobromo biphenyls	not explicitly mentioned						tbd	banned 01.07.2016	
	Dibromo biphenyls	not explicitly mentioned						tbd	banned 01.07.2016	
	Tribromo biphenyls	not explicitly mentioned						tbd	banned 01.07.2016	
	Tetrabromo biphenyls	not explicitly mentioned						tbd	banned 01.07.2016	
	Pentabromo biphenyls	not explicitly mentioned						tbd	banned 01.07.2016	
	Hexabromo biphenyls	not explicitly mentioned						tbd	banned 01.07.2016	
	Heptabromo biphenyls	not explicitly mentioned						tbd	banned 01.07.2016	
	Octabromo biphenyls	not explicitly mentioned	tbd	banned 01.07.2016						
	Nonabromo biphenyls	not explicitly mentioned	tbd	banned 01.07.2016						
	Decabromo biphenyl	13654-09-6	tbd	banned 01.07.2016						
	Hexabromocyclododecan (alpha, beta, gamma)	25637-99-4 / 134237-50-6 / 134237-51-7 / 134237-52-8 / 3194-55-6	tbd	banned 01.07.2016						
	Polybromobiphenyls / Polybrominated biphenyls	59536-65-1	tbd	0.03 mg/kg			tbd	banned 01.07.2016		
	Tris(1-chloro-2-propyl) phosphate (TCPP)	13674-84-5	tbd	declaration of non-use	Not tested	tbd	tbd	tbd	banned 01.07.2016	
	Sodium tetraborate	1303-96-4 / 1303-43-4 / 12179-04-3 / 215-540-4	tbd			tbd	tbd	tbd	tbd	banned 01.07.2016
	Boron trioxide	1303-86-2	tbd			tbd	tbd	tbd	tbd	banned 01.07.2016
	Boric acid	10043-35-3 / 11113-50-1	tbd			tbd	tbd	tbd	tbd	banned 01.07.2016
	Antimony trioxide	1309-64-4	tbd			tbd	tbd	tbd	tbd	banned 01.07.2016
	Tri-o-cresyl phosphate	78-30-8	tbd			tbd	tbd	tbd	tbd	banned 01.07.2016
	Bis(2,3-dibromopropyl)phosphate	5412-25-9	tbd			tbd	tbd	tbd	tbd	banned 01.07.2016
	Tris(1-aziridinyl)phosphine oxide	545-55-1	tbd			tbd	tbd	tbd	tbd	banned 01.07.2016
	Hexabromocyclodecane	3194-55-6	tbd			tbd	tbd	tbd	tbd	banned 01.07.2016
	2,2-bis(bromomethyl)-1,3-propanediol	3296-90-0	tbd			tbd	tbd	tbd	tbd	banned 01.07.2016
	Tris(1,3-dichloro-isopropyl) phosphate	13674-87-8	tbd	tbd	tbd	tbd	tbd	banned 01.07.2016		

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Chlorinated Paraffins (No intentional use)									
	Short-Chain chlorinated Paraffins (C10-13)	85535-84-8	0.4 µg/l	0.03 mg/kg	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	In accordance to EN ISO 18219: 60 min. ultrasonic bath. Extraction with n-Hexane at 60°C. GS-MS Analysis	banned 31.12.2019
	Middle-Chain chlorinated Paraffins (C14-17)	85535-85-9	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	Long-Chain chlorinated Paraffins (C18-28)	85535-86-0	tbd	tbd	tbd	tbd	tbd	tbd	phase out
Glycols (No intentional use)									
	Bis(2-methoxyethyl)-ether	111-96-6	tbd	20.0 ppm	tbd	tbd	tbd	tbd	phase out
	2-ethoxyethanol	110-80-5	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	2-ethoxyethyl acetate	111-15-9	tbd	10.0 ppm	tbd	tbd	tbd	tbd	phase out
	Ethylene glycol dimethyl ether	110-71-4	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	2-methoxyethanol	109-86-4	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	2-methoxyethylacetate	110-49-6	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	2-methoxypropylacetate	70657-70-4	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	Triethylene glycol dimethyl ether, glycol ether Glycol; triglyme (TEGDME)	112-49-2	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	2-(2-methoxyethoxy)-ethanol	111-77-3	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	2-methoxypropanol	1589-47-5	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	glycol ether 1,2-diethoxyethane	629-14-1	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	glycol ether Ethylene glycol	107-21-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
Solvents - Halogenated solvents (No intentional use)									
	1,2-Dichloroethane	107-06-2	1 µg/l	0.3 mg/kg	By Headspace Gas Chromatography Mass Spectrometric (HS – GC/MS) Analysis	By Headspace Gas Chromatography Mass Spectrometric (HS – GC/MS) Analysis	GC-MS Headspace analysis.	tbd	phase out
	Methylene chloride / Dichloromethane	75-09-2						tbd	phase out
	Trichloroethylene	79-01-6						tbd	phase out
	Tetrachloroethylene	127-18-4						tbd	phase out
	Chloroform (Trichloromethane)	67-66-3						tbd	phase out
	Tetrachloromethane (Carbon tetrachloride)	56-23-5						tbd	phase out
	1,1-Dichloroethane	75-34-3						tbd	phase out
	1,1,1-trichloroethane	71-55-6						tbd	phase out
	1,1,1,2-Tetrachloroethane	630-20-6						tbd	phase out
	1,1,2,2-Tetrachloroethane	79-34-5						tbd	phase out
	Pentachloroethane	76-01-7						tbd	phase out
	1,1-Dichloroethylene	75-35-4						tbd	phase out
	1,1,2-Trichloroethane	79-00-5						tbd	phase out
	1,2,3-trichloropropane	96-18-4						tbd	phase out
	1,2-dibromoethane	106-93-4						tbd	10.0 ppm
	1-bromopropane; n-propyl bromide	106-94-5	tbd	tbd	tbd	tbd	tbd	tbd	verification (1, 2, 3)
	Bromoethane	74-96-4	tbd	tbd	tbd	tbd	tbd	tbd	verification (1, 2, 3)
	2-bromopropane	75-26-3	tbd	tbd	tbd	tbd	tbd	tbd	verification (1, 2, 3)

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Solvents - Other solvents including petroleum distillates (No intentional use)									
Aromatic solvents	Benzene	71-43-2	tbd	0.1 ppm	tbd	tbd	tbd	Headspace GC, 45 min/120°C	phase out
	o-,p-,m-Xylene	1330-20-7 (all isomers) 95-47-6 / 106-42-3 / 108-38-3	tbd	0.1 ppm	tbd	tbd	tbd	Headspace GC, 45 min/120°C	phase out
	Ethylbenzene	100-41-4	tbd	0.1 ppm	tbd	tbd	tbd	tbd	phase out
	Toluene	108-88-3	tbd	0.1 ppm	tbd	tbd	tbd	Headspace GC, 45 min/120°C	phase out
	Distillate aromatic extract	64742-04-7	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	Benzin 140 - 300 (A complex combination of hydrocarbons, It consists predominantly of aliphatic, alicyclic and aromatic hydrocarbons.)	8002-05-9	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	Aromatic naphtha, type 1	64742-95-6	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	Aromatic petroleum derivative solvent	68477-31-6	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	Coal Tar oil (Composed primarily of naphthalene, alkyl naphthalenes, phenolic compounds, and aromatic nitrogen bases.)	65996-82-9	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	Bitumen	64742-93-4	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	o-Phenylphenol	90-43-7	tbd	adult limit <100ppm, child limit 50ppm	tbd	tbd	tbd	tbd	verification ^(1, 2)
	o-Phenylphenate, sodium	132-27-4	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	1,4-Dioxane	123-91-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	hexamethylphosphoramide (HEMPA)	680-31-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Methanol	67-56-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Ethanol	64-17-5	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽²⁾
	Methyl isobutyl ketone	108-10-1	tbd	tbd	tbd	tbd	tbd	Headspace GC, 45 min/120°C	verification ^(1, 2)
	N-methyl-2-pyrrolidone	872-50-4	tbd	50.0 ppm	tbd	tbd	tbd	Headspace GC, 45 min/120°C	verification ^(1, 2)
	N-methylformamide	123-39-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
N,N-Dimethylformamide	68-12-2	tbd	0.1 ppm	tbd	tbd	tbd	Headspace GC, 45 min/120°C	verification ^(1, 2, 4)	
Formamide	75-12-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)	
N,N-dimethylacetamide	127-19-5	tbd	20.0 ppm	tbd	tbd	tbd	tbd	verification ^(1, 2)	
N-methylacetamide	79-16-3	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)	
Methyl-ethyl ketone	78-93-3	tbd	0.1 ppm	tbd	tbd	tbd	tbd	verification ^(1, 2, 3)	
Cyclohexanone	108-94-1	tbd	2.0 ppm	tbd	tbd	tbd	tbd	verification ^(1, 2, 3)	
Acetophenone	98-86-2	tbd	0.1 ppm	tbd	tbd	tbd	tbd	verification ^(1, 2, 3)	
2-phenyl-2-propanole	617-94-7	tbd	0.1 ppm	tbd	tbd	tbd	tbd	verification ^(1, 2, 3)	

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Solvents - Petroleum distillates with restrictions due to contamination risk (Chemical Input Control mandatory). Banned if hazardous contaminations are contained, such as e.g. PAH, aromatic hydrocarbons.									
	Extracts (petroleum), light naphthenic distillate solvent	64742-03-6	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Extracts (petroleum), light paraffinic distillate solvent	64742-05-8	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Extracts (petroleum), heavy naphthenic distillate solvent	64742-11-6	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Distillates (petroleum), chemically neutralized middle	64742-30-9	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Naphtha Low boiling point naphtha	8030-30-6	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Pitch	61789-60-4	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Naphtha (petroleum), heavy straight-run	64741-41-9	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Naphtha (petroleum), hydrotreated light	64742-49-0	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Distillates (petroleum), hydrotreated heavy naphthenic Baseoil - unspecified	64742-52-5	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Distillates (petroleum), hydrotreated heavy paraffinic (mineral oil)	64742-54-7	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply
	Petrolatum	8009-03-8	tbd	tbd	tbd	tbd	tbd	tbd	phase out, if hazardous characteristics apply

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****					
Polycyclic Aromatic Hydrocarbons (PAHs) (No intentional use)														
	Benzo[a]pyrene	50-32-8	tbd	declaration of non-use	tbd	tbd	tbd	AFPS GS 2014, extraction with organic solvent, analysis: GC-MS	phase out					
	Benzo[e]pyrene	192-97-2	tbd		tbd	tbd	tbd		phase out					
	Benzo[j]fluoranthene	205-82-3	tbd		tbd	tbd	tbd		phase out					
	Benzo[b]fluoranthene	205-99-2	tbd		tbd	tbd	tbd		phase out					
	Benzo[k]fluoranthene	207-08-9	tbd		tbd	tbd	tbd		phase out					
	Chrysene	218-01-9	tbd		tbd	tbd	tbd		phase out					
	Dibenzo[a,h]anthracene	53-70-3	tbd		tbd	tbd	tbd		phase out					
	Benzo[a]anthracene	56-55-3	tbd		tbd	tbd	tbd		phase out					
	Anthracene	120-12-7	tbd		tbd	tbd	tbd		phase out					
	Pyrene	129-00-0	tbd		tbd	tbd	tbd		phase out					
	Benzo[g,h,i]perylene	191-24-2	tbd		tbd	tbd	tbd		phase out					
	Indeno[1,2,3-cd]pyrene	193-39-5	tbd		tbd	tbd	tbd		phase out					
	Flouranthene	206-44-0	tbd		tbd	tbd	tbd		phase out					
	Acenaphthylene	208-96-8	tbd		tbd	tbd	tbd		phase out					
	Acenaphthene	83-32-9	tbd	tbd	tbd	tbd	phase out							
	Phenanthrene	85-01-8	tbd	tbd	tbd	tbd	phase out							
	Fluorene	86-73-7	tbd	tbd	tbd	tbd	phase out							
	Naphthalene	91-20-3	tbd	0.1 ppm	tbd	tbd	tbd	phase out						
	Cyclopenta[c,d]pyrene	27208-37-3	tbd	tbd	tbd	tbd	tbd	phase out						
	Dibenzo[a,e]pyrene	192-65-4	tbd	tbd	tbd	tbd	tbd	phase out						
	Dibenzo[a,h]pyrene	189-64-0	tbd	tbd	tbd	tbd	tbd	phase out						
	Dibenzo[a,i]pyrene	189-55-9	tbd	tbd	tbd	tbd	tbd	phase out						
	Dibenzo[a,l]pyrene	191-30-0	tbd	tbd	tbd	tbd	tbd	phase out						
	1-Methylpyrene	2381-21-7	tbd	tbd	tbd	tbd	tbd	phase out						
	Polycyclic Aromatic Compounds (PACs)	130498-29-2	tbd	tbd	tbd	tbd	tbd	phase out						
	9,10-Benzophenanthren	217-59-4	tbd	tbd	tbd	tbd	tbd	phase out						
	Coal tar pitch	65996-93-2	tbd	tbd	tbd	tbd	tbd	phase out						
	Anthracene oil	90640-80-5	tbd	tbd	tbd	tbd	tbd	phase out						
	Anthracene oil, anthracene paste	90640-81-6	tbd	tbd	tbd	tbd	tbd	phase out						
	Anthracene oil, anthracenelw	90640-82-7	tbd	tbd	tbd	tbd	tbd	phase out						
	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	tbd	tbd	tbd	tbd	tbd	phase out						
	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	tbd	tbd	tbd	tbd	tbd	phase out						
Organotin Compounds (No intentional use)														
	Monobutyltin (MBT)	1118-46-3 / 78763-54-9	0.01 µg/l	0.01 mg/kg	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 with Ethanol / Diethyldithiocarbamate and derivatisation according to DIN EN ISO 17353	banned 31.12.2019					
	Monooctyltin (MOT)	15231-57-9 / 15231-44-4							banned 31.12.2019					
	Diocetyl tin (DOT)	94410-05-6 / 15231-44-4							banned 31.12.2019					
	Tricyclohexyltin (TCyHT)	6056-50-4							banned 31.12.2019					
	Tripropyltin (TPT)	668-34-8							banned 31.12.2019					
	Tributyltin (TBT)	56573-85-4 / 36643-28-4							banned 31.12.2019					
	Triphenyltin (TPHT)	892-20-6 / 668-34-8							banned 31.12.2019					
	Tetrabutyltin (TebT)	1461-25-2							banned 31.12.2019					
	Dibutyltin (DBT)	1002-53-5							banned 31.12.2019					
	Tetraethyltin (TeET)	597-64-8							banned 31.12.2019					
	Diphenyltin (DPHT)	1011-95-6 / 6381-06-2							banned 31.12.2019					
	Dibutyltin dichloride (DBTC)	683-18-1							tbd	declaration of non-use	tbd	tbd	tbd	banned 31.12.2019
	Dibutyltin hydrogen borate (DBB)	75113-37-0							tbd	declaration of non-use	tbd	tbd	tbd	banned 31.12.2019
	Bis(tri-n-butyltin)oxide (TBTO)	56-35-9							tbd	declaration of non-use	tbd	tbd	tbd	banned 31.12.2019

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****							
Perfluorinated and Polyfluorinated Chemicals (PFCs) (No intentional use)																
	PFOA	1763-23-1 / 45298-90-6	0.01 µg/l	0.001 mg/kg	CEN/TS 15968:2010 - modified	C EN/TS 15968:2010. LC/MS analysis - modified	Solvent extraction CEN/TS 15968:2010. LC/MS analysis - modified	ultrasonic extraction with Methanol, LC-MS analysis	banned 01.07.2016							
	PFOA	335-67-1							banned 01.07.2016							
	PFNA	375-95-1							banned 01.07.2016							
	PFPeA	2706-90-3							banned 01.07.2016							
	PFBS	375-73-5 / 59933-66-3							banned 01.07.2016							
	PFHxS	355-46-4							banned 01.07.2016							
	PFHxA	307-24-4							banned 01.07.2016							
	PFBA	375-22-4							banned 01.07.2016							
	PFHpA	375-85-9							banned 01.07.2016							
	PFDA	335-76-2							banned 01.07.2016							
	PFUnA	2058-94-8							banned 01.07.2016							
	PFDoA	307-55-1							banned 01.07.2016							
	PFTra	72629-94-8							banned 01.07.2016							
	PFTA	376-06-7							banned 01.07.2016							
	PFHpS	375-92-8							banned 01.07.2016							
	PFDS	335-77-3							banned 01.07.2016							
	PF-3,7-DMOA	172155-07-6							banned 01.07.2016							
	HPPHpA	1546-95-8							banned 01.07.2016							
	4HPPUnA	34598-33-9							banned 01.07.2016							
	1H, 1H, 2H, 2H-PFOS	27619-97-2							banned 01.07.2016							
	4:2 FTOH(**)	2043-47-2	0.1 µg/l	0.01 mg/kg	CEN/TS 15968:2010 - modified	CEN/TS 15968:2010. LC/MS analysis - modified	Solvent extraction CEN/TS 15968:2010. LC/MS analysis - modified	ultrasonic extraction with Methanol, LC-MS analysis	banned 01.07.2016							
	6:2 FTOH(**)	647-42-7							banned 01.07.2016							
	8:2 FTOH(**)	678-39-7							banned 01.07.2016							
	10:2 FTOH(**)	865-86-1							banned 01.07.2016							
	POSE(**)	307-35-7							banned 01.07.2016							
	PFOSA	754-91-6							banned 01.07.2016							
	N-Me-FOSA	31506-32-8							banned 01.07.2016							
	N-Et-FOSA	4151-50-2							banned 01.07.2016							
	N-Me-FOSE alcohol	24448-09-7							banned 01.07.2016							
	N-Et-FOSE alcohol	1691-99-2							banned 01.07.2016							
	6:2 FTA(**)	17527-29-6	banned 01.07.2016													
	8:2 FTA(**)	27905-45-9	banned 01.07.2016													
	10:2 FTA(**)	17741-60-5	banned 01.07.2016													
Phthalates - including all other esters of ortho-phthalic acid																
	Di-pentylphthalate (n-, iso-, or mixed)	131-18-0 / 605-50-5 / 776297-69-9 / 84777-06-0	tbd	tbd	Toluene Extraction And Followed by Gas Chromatography- Mass Spectrometry (GC-MS) Analysis resp. LC/MS. Extraction with toluene at pH6, GC/MS*	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	banned 31.12.2019							
	Di-iso-nonylphthalate (DINP)	28553-12-0 / 68515-48-0	1 µg/l	0.3 mg/kg					Toluene Extraction And Followed by Gas Chromatography- Mass Spectrometry (GC-MS) Analysis resp. LC/MS. Extraction with toluene at pH6, GC/MS*	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	banned 31.12.2019			
	Di-n-octylphthalate (DNOP)	117-84-0											banned 31.12.2019			
	Di-(2-ethylhexyl)-phthalate (DEHP)	117-81-7											banned 31.12.2019			
	Di-iso-decylphthalate (DIDP)	26761-40-0 / 68515-49-1											banned 31.12.2019			
	Butylbenzylphthalate (BBP)	85-68-7											banned 31.12.2019			
	Dibutylphthalate (DBP)	84-74-2											banned 31.12.2019			
	Di-iso-butylphthalate (DIBP)	84-69-5											banned 31.12.2019			
	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6											banned 31.12.2019			
	1,2-benzenedicarboxylic acid, di-C7-11- branched linearalkyl and linear alkyl esters (DHNU)	68515-42-4											banned 31.12.2019			
	Di-n-hexylphthalate (DnHP)	84-75-3											banned 31.12.2019			
	Di-(2-methoxyethyl)-phthalate, Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8											banned 31.12.2019			
	Dinonyl phthalate (DNP)	84-76-4											tbd	tbd	tbd	banned 31.12.2019
	Diethyl phthalate (DEP)	84-66-2											tbd	tbd	tbd	banned 31.12.2019
	Di-n-propyl phthalate (DPRP)	131-16-8	tbd	tbd	tbd	banned 31.12.2019										
	Di-cyclohexyl phthalate (DCHP)	84-61-7	tbd	tbd	tbd	banned 31.12.2019										
	Di-iso-octyl phthalate (DIO)	27554-26-3	tbd	tbd	tbd	banned 31.12.2019										

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Heavy metals and inorganic compounds									
Listed compounds are banned from intentional use in textile manufacturing/finishing. Additionally, residual traces of metals in dyestuff and pigment mixtures are expected to comply with the Ecological and Toxicological Association of Dyes and Organic Pigments Manufacturers (ETAD) concentration limits (http://www.etad.com/).									
Tchibo further will engage in stakeholder initiatives towards the reduction/ phase out of the metals and their compounds in production.									
	Chromium VI (Cr VI)	18540-29-9	tbd	1 mg/kg				Extractable heavy metals: DIN EN ISO 16711-2 only relevant for leather: DIN EN ISO 17075	banned 31.12.2019
	Chromium (Cr)	7440-47-3	1 µg/l	1 mg/kg				Extractable heavy metals: DIN EN ISO 16711-2 only relevant for leather: DIN EN ISO 17072-2	verification ^(1, 3, 4)
	Lead (Pb)	7439-92-1	1 µg/l	1 mg/kg	Digestion, ICP analysis	Digestion, ICP analysis	Digestion, ICP analysis	Extractable heavy metals: DIN EN ISO 16711-2 Total element content: ASTM E 1645, ASTM E 1613, analysis: ICP-MS	banned 31.12.2019
	Cadmium (Cd)	7440-43-9	0.1 µg/l	1 mg/kg				Extractable heavy metals: DIN EN ISO 16711-2 Total element content: Acc to DIN EN 1122, analysis: ICP / MS	banned 31.12.2019
	Arsenic (As)	7440-38-2	1 µg/l	1 mg/kg					banned 31.12.2019
	Mercury (Hg)	7439-97-6	0.05 µg/l	0.006 mg/kg					banned 31.12.2019
	Nickel (Ni)	7440-02-0	1 µg/l	1 mg/kg				Extractable heavy metals: DIN EN ISO 16711-2	verification ^(1, 3, 4)
	Copper (Cu)	7440-50-8	1 µg/l	1 mg/kg	Digestion, ICP analysis	Digestion, ICP analysis	Digestion, ICP analysis		verification ^(1, 2, 3, 4)
	Zinc (Zn)	7440-66-6	1 µg/l	4 mg/kg					verification ^(1, 2, 3, 4)
	Manganese (Mn)	7439-96-5	1 µg/l	1 mg/kg					verification ^(1, 2, 3, 4)
	Antimony (Sb)	7440-36-0	1 µg/l	1 mg/kg					verification ^(1, 3, 4)
	Cobalt (Co)	7440-48-4	tbd	≤ 4 ppm (≤ 1 ppm for children)	tbd	tbd	tbd	tbd	verification ^(1, 2, 3, 4)
	Vanadium pentoxide	1314-62-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 3, 4)
	Silver (Ag)	7440-22-4	tbd	tbd	tbd	tbd	tbd	tbd	banned 31.12.2019
	Potassium bromate	7758-01-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 3)
	Perboric acid compounds perboric acid, sodium salt	10332-33-9 / 10486-00-7 / 11138-47-9 / 12040-72-1/ 13517-20-9 / 15120-21-5 / 37244-98-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽¹⁾
	Boric acid	10043-35-3 / 1303-86-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Boric acid, disodium salt	12179-04-3 / 1303-96-4 / 1330-43-4 / 12267-73-1 / 13840-56-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Borate, zinc salt	1332-07-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Beryllium & beryllium oxide (BE)	7440-41-7 / 1304-56-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Cyanide	not explicitly mentioned	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Fibrous minerals - Asbestos and Erionite (No intentional use)									
	Actinolite	77536-66-4	tbd	tbd	tbd	tbd	tbd	tbd	banned
	Amosite	12172-73-5	tbd	tbd	tbd	tbd	tbd	tbd	banned
	Anthrophyllite	77536-67-5	tbd	tbd	tbd	tbd	tbd	tbd	banned
	Chrysotile	12001-29-5	tbd	tbd	tbd	tbd	tbd	tbd	banned
	Crocidolite	12001-28-4	tbd	tbd	tbd	tbd	tbd	tbd	banned
	Tremolite	77536-68-6	tbd	tbd	tbd	tbd	tbd	tbd	banned
	Erionite	12510-42-8	tbd	tbd	tbd	tbd	tbd	tbd	banned
Respirable particulate matter (PM₁₀) (particulates of respirable size are relevant for airborne emissions/ air pollution)									
	Aluminium oxide	1344-28-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Silica	14464-46-1 / 14808-60-7 / 7631-86-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Titanium dioxide	13463-67-7 / 1317-70-0 / 1317-80-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
Additional substances - possible usage in textile and rubber production									
	o-Cresol	95-48-7	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	p-Cresol	106-44-5	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	m-Cresol	108-39-4	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	Triclosan	3380-34-5	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	Formaldehyde	50-00-0	tbd	declaration of non-use, unless authorized in writing in special cases, with child limits 16 ppm, Adult <75 ppm	tbd	tbd	tbd	tbd	verification ^(1, 2, 3, 4)
	Nitrilotriacetic acid	139-13-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	2-(2-aminoethylamino)ethanol (AEEA)	111-41-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2, 3, 4)
	Diethanolamine	111-42-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2, 3, 4)
	Thiourea	62-56-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2, 3, 4)
	Cycloheximide	66-81-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2, 3, 4)
	Dichlorophene [2,2'-Methylenbis(4-chlorophenol)]	97-23-4	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2, 3, 4)
	Metam sodium	137-42-8	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2, 3, 4)
	chlorinated ether Bis(chloromethyl)ether	542-88-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2, 3, 4)
	Triglycidylisocyanurate (TGIC)	2451-62-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2, 3, 4)
	tert-butyl, benzotriazole-phenols 2-(2H-Benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)fenol	25973-55-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	tert-butyl, benzotriazole-phenols 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)-phenol	3147-75-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	tert-butyl, benzotriazole-phenols 2-(2'-Hydroxy-3,5'-di-tert.butylphenyl)-benzotriazole	3846-71-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	3-(4-methylbenzylidene) camphor	36861-47-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Hydrazine	302-01-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	4,4'-Methylenbis(N-(1-ethylpropyl)benzolamin)	5285-60-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Carbon disulfide	75-15-0	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Ethylene thiourea	96-45-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	N-(1,4-Dimethylpentyl)-N'-phenyl-benzen-1,4-diamin	3081-01-4	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Carbendazim (N-2-benzimidazolecarbamic acid methyl ester)	10605-21-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Dimethyl fumarate (DMFu)	624-49-7	tbd	declaration of non-use	tbd	tbd	tbd	tbd	phase out
	musk xylene	81-15-2	tbd	tbd	tbd	tbd	tbd	tbd	phase out
	Phenolphthalein	77-09-8	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Antioxidants - possible usage in textile and rubber production									
	2,4,6-tri(t-utyl)Phenol	732-26-3	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	2,6-di-tert-butyl-4-(1-methylpropyl)-hydroxybenzene	17540-75-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	2,6-di-tert-butyl-4-(methylthioacetic acid, 2-ethylhexylester)-hydroxybenzene	80387-97-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	96-69-5	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Butylated hydroxyanisole (BHA)	25013-16-5	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	Hydroquinone (1,4-Dihydroxybenzene)	123-31-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
Nitrosamines (relevant for rubber/ latex production. Appropriate chemical inputs must be used/ process control must be installed to avoid formation)									
	N-Nitrosodiethylamin	55-18-5	tbd	Lower than the detection limit of the method	tbd	tbd	tbd	tbd	phase out
	N-Nitrosodipropylamin	621-64-7	tbd		tbd	tbd	tbd	tbd	phase out
	N-Nitrosodibutylamin	924-16-3	tbd		tbd	tbd	tbd	tbd	phase out
	N-Nitrosomorpholin	59-89-2	tbd		tbd	tbd	tbd	tbd	phase out
	N-Nitrosopiperidin	100-75-4	tbd		tbd	tbd	tbd	tbd	phase out
	N-Nitrosomethylphenylamin	614-00-6	tbd		tbd	tbd	tbd	tbd	phase out
	N-Nitrosoethylphenylamin	612-64-6	tbd		tbd	tbd	tbd	tbd	phase out
	N-Nitrosopyrrolidine (NPYR)	930-55-2	tbd		tbd	tbd	tbd	tbd	phase out
	N-Nitrosodimethylamine	62-75-9	tbd		tbd	tbd	tbd	tbd	phase out
	N-Nitrosodisopropylamin	601-77-4	tbd		tbd	tbd	tbd	tbd	phase out
	N-Nitrosodisobutylamin	997-95-5	tbd		tbd	tbd	tbd	tbd	phase out
	N-Nitrosodiisononylamin (N-Nitroso-N,N-di(3,5,5-trimethyl-hexyl)amin)	1207995-62-7	tbd		tbd	tbd	tbd	tbd	phase out
	N-Nitrosodibenzylamin	5336-53-8	tbd		tbd	tbd	tbd	tbd	phase out
	N-Nitrosomethylethylamine	10595-95-6	tbd	tbd	tbd	tbd	tbd	phase out	
	N-Methyl-N'-nitro-N-nitrosoguanidine	70-25-7	tbd	tbd	tbd	tbd	tbd	phase out	
	N-Nitrosodiphenylamine	86-30-6	tbd	tbd	tbd	tbd	tbd	phase out	
	p-Nitrosodiphenylamine	156-10-5 not an N-nitroso	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2, 3)	
	N-Nitrosodiethanolamine	1116-54-7	tbd	tbd	tbd	tbd	tbd	phase out	
Basic raw materials/Fine chemical intermediates/unwanted by-products. The following substance groups are not expected to be used intentionally in the production of textiles. They are expected to be used/ occur in closed systems during the synthesis of chemicals/ textile fibres and/or materials (e.g. Polyurethane) used in apparel and footwear. Traces occurring in textile mills cannot be excluded, as analytical evidence is not available for several reasons (e.g. analytical method not established/ substance highly reactive and analysis not possible). Tchibo will engage in stakeholder initiatives to gain knowledge about the appearance of the substances in textile processing and work with chemical suppliers and textile producers towards the reduction/ phase out of the substances.									
Dinitrotoluene									
	2,4-dinitrotoluene	121-14-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Dinitrotoluene (isomer mixture)	25321-14-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	2,3-dinitrotoluene	602-01-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	2,6-Dinitrotoluene	606-20-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	3,4-dinitrotoluene	610-39-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	3,5-dinitrotoluene	618-85-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	2,5-dinitrotoluene	619-15-8	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Epoxy intermediate									
	Epichlorohydrin	106-89-8	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Phenyl glycidyl ether; 2,3-epoxypropyl phenyl ether; 1,2-epoxy-3-phenoxypropane	122-60-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	2,2'-bioxirane [1,2:3,4-diepoxybutane]	1464-53-5	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	2,3-epoxypropyltrimethylammonium chloride; EPTAC; Oxiranemethanaminium, N,N,N-trimethyl chloride; Glycidyltrimethylammonium Chloride	3033-77-0	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	R-1-chloro-2,3-epoxypropane	51594-55-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Glycidol [2,3-epoxy-1-propanol]	556-52-5	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	R-2,3-epoxy-1-propanol	57044-25-4	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	1,3,5-tris-[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione	59653-74-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Oxiranemethanol, 4-methylbenzene-sulfonate, (S)-	70987-78-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Ethylene oxide; oxirane	75-21-8	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Styrene oxide; (epoxyethyl)benzene; phenyloxirane	96-09-3	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
Monomers									
	1,3-Butadiene	106-99-0	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Acetaldehyde	75-07-0	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Acrylonitrile	107-13-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Aziridine [Ethyleneimine]	151-56-4	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Aziridine, 2-methyl	75-55-8	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Chloroprene (stabilized); 2-chlorobuta-1,3-diene	126-99-8	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Dimethylsulfamoylchloride	13360-57-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Ethyl acrylate	140-88-5	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Isobutyl nitrite	542-56-3	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Isoprene	78-79-5	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Methylcarbamate	598-55-0	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	N-Vinyl-2-pyrrolidinone	88-12-0	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Propane sultone [1,3-propanesultone; 1,2-oxathiolane 2,2-dioxide]	1120-71-4	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Urethane (Ethyl carbamate)	51-79-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Vinyl bromide	593-60-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Vinyl chloride	75-01-4	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Acrylamide	79-06-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	N-Methylolacrylamide	924-42-5	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Styrene	100-42-5	tbd	0.1 ppm	tbd	tbd	tbd	tbd	verification ⁽³⁾

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Others: Dye/ Fine Chemical intermediates and raw materials used for rubber/ technical polymer production - Part 1									
	1-(2-amino-5-chlorophenyl)-2,2,2-trifluoro-1,1-ethanediol, hydrochloride, containing < 0.1 % 4-chloroaniline	(EC No 203-401-0) 214353-17-0	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	2-butyl-3-hydroxy-5-thiocyclohexan-3-yl-cyclohex-2-en-1-one	94723-86-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	2-Nitropropane	79-46-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	2-nitrotoluene	88-72-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	4-Nitrobiphenyl	92-93-3	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	5-Nitroacenaphthene	602-87-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	7-methoxy-6-(3-morpholin-4-yl-propoxy)-3H-quinazolin-4-one Containing ≥ 0.5 % formamide	(EC No 200-842-0) 199327-61-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	chloro-N,N-dimethylformiminium chloride	3724-43-4	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Diazoaminobenzene	136-35-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	hydrazobenzene	122-66-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	methoxyacetic acid	625-45-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Furan	110-00-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Phenylhydrazine	100-63-0	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	phenylhydrazine hydrochloride	27140-08-5 / 59-88-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	phenylhydrazinium sulphate (2:1)	52033-74-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Pyridine	110-86-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Tetrahydrothiopyran-3-carboxaldehyde	61571-06-0	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽⁵⁾
	Thioacetamide	62-55-5	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Toluene diisocyanate	26471-62-5	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	toluene diisocyanate (2,4-)	584-84-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Trimethyl phosphate	512-56-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2, 3)
	alkylating agent Diethyl sulfate	64-67-5	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	alkylating agent Dimethyl sulfate	77-78-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Benzophenone	119-61-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2, 3)
	Bisphenol A	80-05-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Diaminobenzidine [biphenyl-3,3',4,4'-tetrayltetraamine]	91-95-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Diaminotoluene	25376-45-8	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	N,N'-Diacetylbenzidine	613-35-4	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Toluene-2,4-diammonium sulphate	65321-67-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(3, 5)
	3-amino-9-ethyl carbazole, 9-ethylcarbazol-3-ylamine	132-32-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(3, 5)
	4,4-isobutylethylidenediphenol	6807-17-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(3, 5)
	4-amino-3-fluorophenol	399-95-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(3, 5)
	Carbazole	86-74-8	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Safrole [5-allyl-1,3-benzodioxole]	94-59-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	2-ethylhexyl diphenyl phosphate	1241-94-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1, 2)
	dimethyldithiocarbamates dimethyldithiocarbamate, Potassium salt	128-03-0	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	dimethyldithiocarbamates dimethyldithiocarbamate, Sodium salt	128-04-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	dimethyldithiocarbamates Disodium ethylenebis(N,N'-dithiocarbamate)	142-59-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
Others: Dye/ Fine Chemical intermediates and raw materials used for rubber/ technical polymer production - Part 2									
	diazomethane	334-88-3	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Dimethylcarbamoyl chloride	79-44-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Dimethylhydrazines 1,2-Dimethylhydrazine	540-73-8	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Dimethylhydrazines 1,1-Dimethylhydrazine (UDMH)	57-14-7	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Dinitrobenzenes	99-65-0	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Hexachlorobutadiene	87-68-3	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(3,5)
	Diethanolamine	111-42-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1,2,3)
	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1,2,3)
	(2-chloroethyl)(3-hydroxypropyl)ammonium chloride	40722-80-3	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1,2,3)
	1-(2-amino-5-chlorophenyl)-2,2,2-trifluoro-1,1-ethanediol, hydrochloride, containing < 0.1 % 4-chloroaniline	(EC No 203-401-0) 214353-17-0	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(3,5)
	2-butyl-3-hydroxy-5-thiocyclohexan-3-yl-cyclohex-2-en-1-one	94723-86-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	Methylazoxymethanol acetate	592-62-1	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1,2,3)
	N,N-(dimethylamino)thioacetamide hydrochloride	27366-72-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1,2,3)
	N,N'-Bis-(1-ethyl-3-methylpentyl)-1,4-benzendiamin	139-60-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1,2,3)
	N,N-di-2-naphthyl-benzen-1,4-diamin (Diafen NN)	93-46-9	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1,2,3)
	N-[6,9-dihydro-9-[[2-hydroxy-1-(hydroxymethyl)ethoxy]methyl]-6-oxo-1H-purin-2-yl]acetamide	84245-12-5	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1,2,3)
	O-isobutyl-N-ethoxy carbonylthiocarbamate	103122-66-3	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1,2,3)
	Cyclododecane	294-62-2	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	potassium 1-methyl-3-morpholinocarbonyl-4-[3-(1-methyl-3-morpholinocarbonyl-5-oxo-2-pyrazolin-4-ylidene)-1-propenyl]pyrazole-5-olate containing < 0.5 %N,N-dimethylformamide	(EC No 200-679-5), 183196-57-8	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(3,5)
	Diazene-1,2-dicarboxamide [C,C'-azodi(formamide),ADCA]	123-77-3	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽³⁾
	(4-ethoxyphenyl) (3-(4-fluoro-3-phenoxyphenyl)propyl) dimethylsilane	105024-66-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽²⁾
	Colchicine	64-86-8	tbd	tbd	tbd	tbd	tbd	tbd	verification ⁽²⁾
	2-chloro-6-fluoro-phenol	2040-90-6	tbd	tbd	tbd	tbd	tbd	tbd	verification ^(1,2,3)

Substance group	Substance name	CAS No.	Detection Limit*: Input: Chemical Formulations** / Output: Waste Water	Detection Limit*: Output: Products*** / Output: Sludge	Method: Input: Chemical Formulations	Method: Output: Waste Water	Method: Output: Sludge	Method: Output: Products	Status: banned, phase out, verification of hazardous characteristics / applicability ****
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*** Definition	
banned, date xx.xx.xxxx	Banned substances will not be used in the production of Tchibo articles after the indicated date.
phase out	Implementation of ban ongoing. Additional beyond 11 priority substance groups. Timings to be determined.
phase out, if hazardous characteristics apply	Input control measures are mandatory.
verification	<p>All substances under verification will be screened in Tchibo headoffice.</p> <p>(1) Substances "under verification" will be listed on the MRSL, if usage in textile production has been confirmed and hazardous characteristics apply.</p> <p>(2) Substances "under verification" will not be listed on the MRSL if the substances are not relevant for production and/ or if hazardous characteristics do not apply.</p> <p>(3) Substance groups, which are not expected to be used intentionally in the production of textiles, but are expected to be used in closed systems/ occur in the synthesis of chemicals/ textile fibres and/or materials (e.g. Polyurethane) used in apparel and footwear, Tchibo will engage in stakeholder initiatives to gain knowledge about the appearance of traces of the substances in textile processing and work with chemical suppliers and textile producers towards the reduction/ phase out of the substances.</p> <p>(4) Substances which are utmost important for the Tchibo textile product range and for which no phase out date can be defined yet, Tchibo will engage in stakeholder initiatives and work with stakeholders, chemical suppliers and textile producers towards the reduction/ phase out of the substances.</p> <p>(5) Substances without identified usage.</p>

tbd: to be determined

Suppliers shall implement the MRSL stepwise via the Annex *MRSL implementation guidance*.