

RESTRICTED SUBSTANCES LIST

Chemical Parameter	Legal Requirements	Test Methods	Limit Values	Leather	Synthetics/Plastic Components	Natural Fibres/Natural Material	Metal Parts	Rubber	Box/Paper/Polybag	Max. no. of composition test
1. AZO										
1.1 Aryl amines that are not allowed to be split off from dyes under reductive conditions (AZO)	BGVO § 3 (Annex 1,7) EC 1907/2006 Annex XVII	DIN EN 14362-1 Textile, DIN EN 14362-3 for p- Aminoazobenzene (pAAB); DIN EN ISO 17234-1, DIN EN ISO 17234-2 for p- Aminoazobenzene (pAAB)	≤ 10 mg/kg (pass) ≤ 20 mg/kg (need)	x	x	x			x	3
1.2 Technical MDA	LFGB § 30; SVHC	Extraction with Ethylacetate, 30 min., 40°C ultrasonic, detection with GC/MS	≤ 10 mg/kg (pass) ≤ 20 mg/kg (need)	x	x	x			x	3
1.3 p-Phenyldiamine (pPDA)		CADS requirements	≤ 20 mg/kg (pass)		x	x				3
2. Navy Blue	EC 1907/2006 Annex XVII	Extraction with Methanol, 70°C ultrasonic, detection with LC/MS	not detectable	x	x	x				3
3. Chlorinated Phenols										
3.1 Pentachlorophenol (PCP) Tetrachlorophenol (TeCP) Trichlorophenol (TriCP)	EU 2019/1021 for PCP chemicals prohibition ordinance	LFGB § 64 B 82.02-8; DIN EN ISO 17070 DIN EN 17134-2	1 mg/kg 2 mg/kg 2 mg/kg	x	x	x				3
3.2 Dichlorophenol (DCP) Monochlorophenol (CP)	LFGB § 30	LFGB § 64 B 82.02-8; DIN EN ISO 17070 DIN EN 17134-2 Verification by Aceton-Extraction method, if limit value is exceeded	2 mg/kg	x	x	x				3
3.3 o-Phenylphenol (OPP)	LFGB § 30	DIN EN 17134-2	100 mg/kg		x	x				3
4. Nickel in metal parts	EC 1907/2006 Annex XVII	12472 Nickel rubbing test, if positive result EN 1811	≤ 0,28 µg/cm ² /Week				x			1
5. Cadmium	EC 1907/2006 Annex XVII	Coated leather: ISO 17072-2, Others: DIN EN 16711-1 for Cadmium and for Lead	40 mg/kg		x		x		x	3
6. Lead	EC 1907/2006 Annex XVII Denmark: Statutory Order on Prohibition of Import and Marketing of Products containing Lead; US: CPSIA regulation inclusive Content in Paints an Coatings	Coated leather: ISO 17072-2, Others: DIN EN 16711-1 for Cadmium and for Lead	90 mg/kg	x	x		x		x	3
7. Chromium VI										
7.1 Chromium VI after aging	EC 1907/2006 Annex XVII	DIN EN ISO 17075-2 ISO 10195 A2	3 mg/kg	x						1
7.2 Chromium VI after aging with artificial light - for special orders only -	EC 1907/2006 Annex XVII	DIN EN ISO 17075-2, Artificial light 24 h, luminous according to DIN EN ISO 105-B02 (exposure cycle A1, procedure 5) identical to EN ISO 20344 passage 6.11	3 mg/kg	x						1
8. Disperse Dyes Carcinogenic Dyes Quinoline	LFGB § 30/BFR EC 1907/2006 Annex XVII	DIN 54231	1 mg/l 3,3 mg/L		x					3
9. Phthalates	EC 1907/2006 Annex XVII; SVHC	EN ISO 14389 (Textile, synthetic material) DIN EN ISO 16181 (all other materials)	0,05 % each REACH Sum (all Phthalates on the SVHC list—) ≤ 0,1 %		x				x	3

Chemical Parameter		Legal Requirements	Test Methods	Limit Values	Leather	Synthetics/Plastic Components	Natural Fibres/Natural Material	Metal Parts	Rubber	Box/ Paper/ Polybag	Max. no. of composition test
10. Perfluorooctansulfonate (PFOS) C9-C14 PFAS Perfluorooctanic Acid (PFOA) Ammonium pentadecafluorooctanoate (APFO)		EC 1907/2006 Annex XVII EU 2019/1021	Leather EN ISO 23702-1 All other materials pr En 17681-1 PFOA	PFOS and derivatives: 1 µg/m ²							
				PFOA & its salts: 0,025 mg/kg							
				PFOA related substances: 1 mg/kg	x	x	x				1
				C9-C14 PFAS & its salts: 0,025 mg/kg							
				C9-C14 PFAS re-lated substances: 0,26 mg/kg							
11. 2-Mercaptobenzothiazol (2-MBT)		LFGB § 30	Extraction with Acetonitrile: 1h/70 °C, HPLC/DAD/MS	100 mg/kg		x			x		1
12. Formaldehyde	Children	EC 1907/2006 Annex XVII	DIN EN ISO 14184-1/DIN EN ISO 17226-2 (Textile/Leather) DIN 717 part 3 (wood)	50 mg/kg	x	x	x				Others: 3
	Adults			75 mg/kg							Wood: 1
13. Organotin Compounds Dibutyltin dichloride (DBTC) Dibutyl tin (DBT) Diocetyl tin (DOT) Monobutyl tin (MBT) Monooctyl tin (MOT) Bis (tributyltin) oxide (TBTO) Tributyl tin (TBT) Triphenyl tin (TPht)		EC 1907/2006 Annex XVII	DIN SPEC 91179/ DIN CEN ISO/TS 16179	5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 1 mg/kg 1 mg/kg 1 mg/kg	x (TBT only)	x					3
14. Soluble heavy metals		EC 1907/2006 Annex XVII	DIN EN 16711-2 Textile; DIN EN 17072-1 Leather	Sb 30 mg/kg; As 0,2 mg/kg; Cd 0,1 mg/kg; Cr. total 1,0 mg/kg - only Textile; Co 4,0 mg/kg; Cu 50,0 mg/kg; Pb 0,8 mg/kg; Hg 0,02 mg/kg; Ni 4,0 mg/kg	x	x					3
15. Sum (total without Naphtalene) PAH according to AfPS Marked with REACh (per substance)		EC 1907/2006 Annex XVII LFGB § 30/BFR	AfPS GS 2019	10 mg/kg 0,5 mg/kg							3
15.1 Naphtalene		LFGB § 30/BFR	AfPS GS 2019	10 mg/kg		x			x		3
16. Hydrofluorocarbones (HFC)		EC 842/2006	Head Space (GC/MS) 90 °C/45 min.	not detectable		x					1

Chemical Parameter	Legal Requirements	Test Methods	Limit Values	Leather	Synthetics/Plastic Components	Natural Fibres/Natural Material	Metal Parts	Rubber	Box/ Paper/ Polybag	Max. no. of composition test
17. Volatile Organic Compounds (VOCs)										
17.1 Acetophenone	EC 1907/2006 Annex XVII	Head Space (GC-MS) 120°C/45 min.	≤ 10 (pass) < 20 (need) ≥ 20 (fail)							
Benzene Benzaldehyde Bis(2-methoxyethyl)ether Carbon Disulfide Cyclohexanone 1,2-Dichloroethane DMAC [N, N-dimethylacetamide] Ethylbenzene 2-Ethoxyethylacetate Methyl-Ethyl-Ketone (MEK) 1-Methyl-2-pyrrolidone (NMP) Metaxylene Naphthalene Orthoxylene Paraxylene Styrene Toluene Trichloroethylen Tetrachloroethylen 1,2,3-Trichloropropane Xylene 2-Phenyl-2-Propanol			1 mg/kg 100 mg/kg 1000 mg/kg ≤ 10 mg/kg (pass) ≤ 50 mg/kg (need) 100 mg/kg 10 mg/kg 500 mg/kg 20 mg/kg 1000 mg/kg 100 mg/kg 500 mg/kg 20 mg/kg 10 mg/kg 20 mg/kg 20 mg/kg 50 mg/kg 25 mg/kg 50 mg/kg 20 mg/kg 1000 mg/kg 50 mg/kg 10 mg/kg	x	x	x				1
17.2 Fumigation Methylbromide 1,2-Epoxyethane Hydrogencyanide Phosphine Sulfurylfluoride	German workplace exposure limit	VOC-Detector	1 ppm 0,1 ppm 1,9 ppm 0,1 ppm 1 ppm		x					1
17.3 Formamide	SVHC	DIN EN ISO 16189	500 mg/kg		x					3
17.4 Dimethyl Formamide (DMFa) Dimethylacetamide (DMAC) N-Methyl-2-pyrrolidone (NMP)	LFGB § 30	DIN EN ISO 16189	500 mg/kg if waterbased PU < 50 mg/kg	x	x	x				3
18. Alkylphenols (AP)/Alkylphenoethoxylates (APEO)										
18.1 Nonylphenols (NP) Octylphenols (OP)	EC 1907/2006 Annex XVII, SVHC	EN ISO 21084	30 mg/kg 30 mg/kg	x	x	x				3
18.2 Nonylphenoethoxylates (NPEO) Octylphenoethoxylates (OPEO)	EC 1907/2006 Annex XVII	DIN EN ISO 18254-1 DIN EN ISO 18218-1 Leather	100 mg/kg	x	x	x				3
19. Chlorinated Paraffins										
19.1 Short-chain chlorinated paraffins	EU 2019/1021	Leather EN ISO 18219-1, Textile EN ISO 22818	500 mg/kg	x	x				x	3
19.2 Middle-chain chlorinated paraffins		Leather EN ISO 18219-2, Textile EN ISO 22818	500 mg/kg	x	x				x	3
20. Chlorinated Organic Carriers	EC 1907/2006 EU 2019/1021	EN 17137	1 mg/kg		x					3
21. Biocide										
21.1 Dimethylfumarate (DMFu)	EC 1907/2006 Annex XVII	DIN EN ISO 16186	0,1 mg/kg	x	x	x				3

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21.2 Triclosan	Regulation (EU) 528/2012	Extraction with Ethylacetate, derivatization with acetic anhydride, determination by GC/MS	10,0 mg/kg	x	x	x				3
21.3 TCMTB CMK OPP - leather - OPP - none leather - OIT	Regulation (EU) 528/2012	Leather - all listed substances EN ISO 13365, Textile - only OPP, DIN 50009, GC-MS, draft EN ISO 17070	500 mg/kg 600 mg/kg 1000 mg/kg 100 mg/kg 250 mg/kg	x	x					3
22. Soluble mineral tanning agents	LFGB § 30/BFR	DIN EN ISO 17072-1	50 mg/kg Children 200 mg/kg Adults	x						1
23.1 Total Chromium		EN ISO 17072-2	1000 mg/kg	x (not Chrome tanned)						3
23.2 Total sum: Aluminium, Titanium, Iron		EN ISO 17072-2	< 1500 mg/kg (pass)	x (full vegetable tanned)						3
24. N-Nitrosamines	LFGB § 30	DIN EN ISO 19577	0,5 mg /kg					x		1
25. pH-value	2001/95/EC	ISO 3071 (Textiles); ISO 4045 (Leather)	3.5 - 7.5 (Leather) 4.0 - 7.5 (Textile)	x	x					1

* (Modification: Internal Standard PCB 209, SPE or sulphuric acid clean up, extended temperature program to determine SCCP/MCCP in parallel, determination of SCCP by evaluation of 21 masses for SCCP and 21 masses for MCCP, comparison of retention time and peak shape)

26. Flame retardants										
26.1 Tris-(2,3-dibromopropyl)-phosphate Tris-(aziridinyl)-phosphine (TEPA) Polybromobiphenyls (PBB) Tris(2-chloroethyl)-phosphate (TCEP) Tris (1,3-dichloro-2-propyl)phosphate (TDCCP) Hexabromocyclododecane Polybrominated Biphenyl ethers	EC 1907/2006 EU 2019/1021	EN ISO 17881-1 EN ISO 17881-2	10 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg 5 mg/kg		x					3
27. Packing and Packing Waste										
27.1 Lead (PB) Cadmium (CD) Chrom VI Mercury (HG)	1994/62/EC	DIN EN ISO 17294-2/ EPA 1620/ DIN EN 1122/ DIN EN ISO 17075	100 mg/kg (sum in total)		x				x	1
27.2 MOSH/MOAH		Extraction with n-Hexane/Ethanol (1:1), detection with LC-GC-FID or GC-FID-MS	≤ 0.1% MOAH ≤ 1% MOSH						x	1
28. Additional Parameters										
28.1 Odour		SNV 195 651	Verification of odour Articles with an atypical odour suggesting an improper production, storekeeping will not be accepted (grade 3).	x	x	x	x			3
28.2 Polyvinyl Chloride (PVC)		Beilstein-Test, IR	not detectable		x					1
28.3 Corrosion of metal parts		EN 20344, part 5.5.2	Metal parts must not show corrosion				x			1
28.4 Agent for shoe treatment e.g. adhesive, primer, cleanser, hardener, cream, oil...			Agent for shoe treatment must not show: Benzene Colophony Halogenated Hydrocarbons p-tert-Butylphenol- Formaldehyde resin Toluene Turpentine							

Hazardous Substances	Abbreviations
The supplier assures that the delivered article is free of harmful substances or health hazard substances in the meaning of the current regulation as e.g. § 30 LFGB (Food and Commodities Decree), Chemical Prohibition Ordinance BGVO (Commodities Ordinance).	LFGB = Food and feeding stuff Law Book, former Food and Commodities Decree BGVO = Commodities Ordinance, BfR = Federal Institute for Risk Assessment, REACH/EG 1907/2006 = EU regulation on chemicals and their safe use SVHC = Substances of Very High Concern, CPSIA = Consumer Product Safety Improvement Act
	Declaration of Conformity
	By way of statement of conformity to EN 45014 issued to company Wortmann KG the supplier commits himself to deliver merchandise in conformity with the respective test sample only.

1. List of the aryl amines that are not allowed to be split off from dyes under reductive conditions/Technical MDA			
Name	CAS-No.	Name	CAS-No.
4-Aminodiphenyl	92-67-1	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0
Benzidine	92-87-5	p-Cresidine	120-71-8
4-Chloro-o-toluidine	95-69-2	4,4'-Methylen-bis (2-chloraniline)	101-14-4
4-Chloro-o-toluidine chloride	36165-93-3	4,4'-Oxydianiline	101-80-4
2-Naphthylamine	91-59-8	4,4'-Thiodianiline	139-65-1
2-Naphthylammoniumacetate	553-004	o-Toluidine	95-53-4
o-Aminoazotoluene	97-56-3	2,4-Toluyldiamine	95-80-7
2-Amino-4-nitrotoluene	99-55-8	2,4,5-Trimethylaniline	137-17-7
p-Chloraniline	106-47-8	2,4,5-Trimethylaniline hydrochloride	21436-97-5
2,4-Diaminoanisole	615-05-4	o-Anisidine	90-04-0
2,4-Diaminoanisole sulphate	39156-41-7	2,4-Xylidine	95-68-1
4,4'-Diaminodiphenylmethane	101-77-9	2,6-Xylidine	87-62-7
3,3'-Dichlorobenzidine	91-94-1	p-Aminoazoben-zene (pAAB)	60-09-3
3,3'-Dimethoxybenzidine	119-90-4	Technical MDA	25214-70-4
3,3'-Dimethylbenzidine	119-93-7	p-Phenylendiamine (pPDA)	106-50-3

2. Navy Blue			
Name	CAS-No.	Name	CAS-No.
Navy Blue	118685-33-9		

3. Chlorinated Phenols			
Name	CAS-No.	Name	CAS-No.
o-Phenylphenol (OPP)	90-43-7	3,4,5-Trichlorophenol	609-19-8
Pentachlorophenol	87-86-5	2-Chlorophenol	95-57-8
2,3,4,5-Tetrachlorophenol	4901-51-3	3-Chlorophenol	108-43-0
2,3,4,6-Tetrachlorophenol	58-90-2	4-Chlorophenol	106-48-9
2,3,5,6-Tetrachlorophenol	935-95-5	2,3-Dichlorophenol	576-24-9
2,3,4-Trichlorophenol	159-50-66-0	2,4-Dichlorophenol	120-86-2
2,3,5-Trichlorophenol	933-78-8	2,5-Dichlorophenol	586-78-8
2,3,6-Trichlorophenol	933-75-5	2,6-Dichlorophenol	87-65-0
2,4,5-Trichlorophenol	95-95-4	3,4-Dichlorophenol	95-77-2
2,4,6-Trichlorophenol	88-06-2	3,5-Dichlorophenol	591-35-5

4. Nickel			
Name	CAS-No.	Name	CAS-No.
Nickel	7440-02-0		

5. Cadmium			
Name	CAS-No.	Name	CAS-No.
Cadmium	7440-43-9		

6. Lead

Name	CAS-No.	Name	CAS-No.
Lead	439-92-1		

7. Chromium VI after aging

Name	CAS-No.	Name	CAS-No.
Chromium VI after aging	18540-29-9		

8.1 Dyestuffs classified to be allergernous

Name	CAS-No.	Name	CAS-No.
C.I. Disperse Blue 1	2475-45-8	C.I. Disperse Blue 102	12222-97-8
C.I. Disperse Blue 3	2475-46-9	C.I. Disperse Orange 1	2581-69-3
C.I. Disperse Blue 7	3179-90-6	C.I. Disperse Brown 1	23355-64-8
C.I. Disperse Blue 26	3860-63-7	C.I. Disperse Orange 149	6250-23-3
C.I. Disperse Blue 35	56524-76-6 56524-77-7	C.I. Disperse Yellow 23	6250-23-3
C.I. Disperse Blue 106	104573-53-7	C.I. Disperse Red 11	2872-48-2
C.I. Disperse Blue 124	15141-18-1	C.I. Disperse Red 17	3179-89-3
C.I. Disperse Yellow 3	2832-40-8	C.I. Disperse Yellow 1	119-15-3
C.I. Disperse Orange 3	730-40-5	C.I. Disperse Yellow 9	6373-73-5
C.I. Disperse Orange 37/76	13301-61-6	C.I. Disperse Yellow 39	12239-29-2
C.I. Disperse Red 1	2872-52-8	C.I. Disperse Yellow 49	54824-37-2

8.2 Carcinogenic Dyes

Name	CAS-No.	Name	CAS-No.
C.I. Acid Red 26	3761-53-3	C.I. Disperse Yellow 3	2832-40-8
C.I. Basic Red 9	569-61-9	C.I. Basic Violet 3	548-62-9
C.I. Direct Black 38	1937-37-7	C.I. Basic Violet 14	632-99-5
C.I. Direct Blue 6	2602-46-2	C.I. Disperse Orange 11	82-28-0
C.I. Direct Red 28	573-58-0	Quinoline	91-22-5
C.I. Disperse Blue 1	2475-45-8		

9. Softeners / Phthalates

Name	CAS-No.	Name	CAS-No.
Diisohexylphthalate	71850-09-4	Diisobutylphthalate (DIBP)	84-69-5
Dimethylphthalate (DMP)	131-11-3	Dibutylphthalate (DBP)	84-74-2
Di-isooctylphthalate (DIOP)	27554-26-3	Dicyclohexyl phthalate (DCHP)	84-61-7
Dipropylphthalate (DPRP)	131-16-8	Diisopentylphthalate (DIPP)	605-50-5
Diethylphthalate (DEP)	84-66-2	Di(2-ethylhexyl)phthalate (DEHP)	117-81-7
Benzylbutylphthalate (BBP)	85-68-7	Diisodecylphthalate (DIDP)	26761-40-0, 68515-49-1
1,2-Benzenedicarboxylic acid dipentylester, branched and linear (DPP)	84777-06-0	Di-n-octylphthalate (DNOP)	117-84-0
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	Diisononylphthalate (DINP)	28553-12-0, 68515-48-0
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters. C7-rich (DIHP)	71888-89-6	Di-n-hexylphthalate (DnHP)	84-75-3
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC 201-559-5) (DC6-10P)	68515-51-5 68648-93-1	n-Pentyl-isopentylphthalate (PIPP)	776297-69-9
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear (DHP)	68515-50-4	Dipentylphthalate (DPP)	131-18-0
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8		

10. PFAS (Per & polyfluorinated Substances)			
Name	CAS-No.	Name	CAS-No.
PFOS and Derivates		C9-C14 PFCA and their salts	
Perfluorooctansulfonate PFOS	1763-23-1	PFNA - Perfluorononan-1-oic acid (C9-PFCA)	375-95-1
Perfluorooctane sulfonate-x (salt or an alcohol) PFOS-X	2795-39-3	PFDA – Nonadecafluorodecanoic acid (C10-PFCA)	335-76-2
	29457-72-5		
	29081-56-9		
	70225-14-8		
	56773-42-3		
Didecylidimethyl ammonium perfluorooctane sulfonate	251099-16-8	PFUnDA - Henicosafluoroundecanoic acid (C11-PFCA)	2058-94-8
N-Ethylperfluorooctane-1-sulfonamide N-Et-FOSA	4151-50-2	PFDoDA - Tricosafluorododecanoic acid (C12-PFCA)	307-55-1
N-Methylheptadecafluorooctane-sulphonamide N-Me-FOSA	31506-32-8	PFTriDA - Pentacosafluorotridecanoic acid (C13-PFCA)	72629-94-8
N-Ethyl-N-(2-hydroxyethyl) perfluorooctylsulphonamide N-ET-FOSE	1691-99-2	PFTDA - Heptacosafluorotetradecanoic acid (C14-PFCA)	376-06-7
N-Methyl-N-(2-hydroxyethyl) perfluorooctylsulphonamide N-Me-FOSE	24448-09-7	Perfluoro (3,7-dimethyloctanacid) (PF-3,7-DMOA)	172155-07-6
Perfluoro-1-octanesulfonyl fluoride (POSF)	307-35-7	C9-C14 PFCA related substances	
Perfluorooctane sulfonamide PFOA	754-91-6	1H, 1H, 2H, 2H-Perfluorododecyl acrylate (10:2 FTA)	17741-60-5
PFOA and its salts		1H, 1H, 2H, 2H-Perfluorododecyl methacrylate(10:2 FTMA)	2144-54-9
Pentadecafluorooctanoic acid and ist salts (detected as PFOA)	335-67-1	1H, 1H, 2H, 2H-Perfluorododecanol (10:2 FTOH)	865-86-1
	335-95-5		
	2395-00-8		
	335-93-3		
	335-60-0		
Ammonium pentadecafluorooctanoate (detected as PFOA)	3825-26-1	2H, 2H, 3H, 3H-Perfluoroundecanoic acid (H4PFUnA)	34598-33-9
PFOA related substances		2-Perfluorooctylethanol 8:2 FTOH	678-39-7
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid 8:2 FTS	39108-34-4	1H, 1H, 2H, 2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5
Methyl perfluorooctanoate Me-PFOA	376-27-2	1H, 1H, 2H, 2H-Perfluorododecanesulphonic acid (10:2 FTS)	120226-60-0
Ethyl perfluorooctanoate Et-PFOA	3108-24-5	1H, 1H, 2H, 2H-Perfluorododecyl iodide (10:2 FTI)	2043-54-1
2-Perfluorooctylethanol 8:2 FTOH	678-39-7	1H, 1H, 2H, 2H-Perfluorododecanesulphonic acid (10:2 FTS)	30046-31-2
1H, 1H, 2H, 2H-Perfluorodecyl acrylate 8:2 FTA	27905-45-9	Perfluorodecanesulfonic acid	335-77-3
1H, 1H, 2H, 2H-Perfluorodecyl methacrylate 8:2 FTMA	1996-88-9	1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid 8:2 FTS	39108-34-4
2H, 2H-Perfluorodecanoic acid (H2PFDA)	27854-31-5	1H, 1H, 2H, 2H-Perfluorodecyl acrylate 8:2 FTA	27905-45-9
PFHxS and its salts		1H, 1H, 2H, 2H-Perfluorodecyl methacrylate 8:2 FTMA	1996-88-9
Perfluorohexane Sulfonic acid (PFHxS)	355-46-4	2H, 2H-Perfluorodecanoic acid (H2PFDA)	27854-31-5
Perfluorohexane sulfonate -x	3871-99-6		
	55120-77-9		
	68259-08-5		
	82382-12-5		
PFHxS related substance			
N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA)	68259-15-4		
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1		

11. 2-Mercaptobenzothiazol			
Name	CAS-No.	Name	CAS-No.
2- Mercaptobenzothiazol	149-30-4		

12. Formaldehyde			
Name	CAS-No.	Name	CAS-No.
Formaldehyde	50-00-0		

13. Organotin compounds			
Name	CAS-No.	Name	CAS-No.
Dibutyltin dichloride (DBTC)	683-18-1	Monooctyl tin (MOT)	94410-07-8
Dibutyl tin (DBT)	14488-53-0	Bis (tributyltin) oxide (TBTO)	56-35-9
Dioctyl tin (DOT)	15231-44-4	Tributyl tin (TBT)	366-28-4
Monobutyl tin (MBT)	78763-54-9	Triphenyl tin (TPht)	668-34-8

14. Soluble heavy metals			
Name	CAS-No.	Name	CAS-No.
Antimony (Sb)	10074-97-2	Copper (Cu)	7440-50-8
Arsenic (As)	7440-38-2	Lead (Pb)	7439-92-1
Cadmium (Cd)	7440-43-9	Mercury (Hg)	7439-97-6
Chromium (Cr)	7440-47-3	Nickel (Ni)	7440-02-0
Cobalt (Co)	7440-48-4		

15. PAH			
Name	CAS-No.	Name	CAS-No.
Acenaphthylene	208-96-8	Benzo(e)pyrene**	192-97-2
Acenaphthene	83-32-9	Crysene**	218-01-9
Anthracene**	120-12-7	Dibenzo(a,h)anthracene**	53-70-3
Benzo(a)pyrene**	50-32-8	Fluoroanthene	206-44-0
Benzo(a)anthracene**	56-55-3	Fluorene	86-73-7
Benzo(b)fluoroanthene**	205-99-2	Indeno(123-cd)pyrene	193-39-5
Benzo(g,h,i)perylene	191-24-2	Naphthalene	91-20-3
Benzo(k)fluoroanthene**	207-08-9	Phenanthrene	85-01-8
Benzo(j)fluoroanthene**	205-82-3	Pyrene	129-00-0

** REACH

16. Hydrofluorocarbons (HFC)			
Name	CAS-No.	Name	CAS-No.
HFC-23	75-46-7	HFC-236fa	690-39-1
HFC-32	75-10-5	HFC-245ca	679-86-7
HFC-41	593-53-3	HFC-245fa	460-73-1
HFC-43-10mee	13895-42-8	HFC-365mfc	406-58-6
HFC-125	354-33-6	Perfluormethane	75-73-0
HFC-134	811-97-2	Perfluorethane	76-16-4
HFC-134a	811-97-2	Perfluoropropane	76-19-7
HFC-143	430-66-0	Perfluorbutane	355-25-9
HFC-143a	420-46-2	Perfluoropentane	678-26-2
HFC-152a	75-37-6	Perfluorhexane	355-42-0
HFC-227ea	431-89-0	Perfluorocyclobutane	115-25-3
HFC-236cb	677-56-5	Sulfur hexafluoride	2551-62-4
HFC-236ea	431-63-0		

17. Volatile Organic Compounds (VOCs)			
17.1 Volatile Organic Compounds (VOCs)			
Name	CAS-No.	Name	CAS-No.
Acetophenone	98-86-2	2-Ethoxyethylacetate	111-15-9
Benzene	71-43-2	Methly-Ethyl-Ketone (MEK)	78-93-3
Benzaldehyde	100-52-7	1-Methyl-2-pyrrolidone (NMP)	872-50-4
Bis(2-methoxyethyl)ether	111-96-6	Naphtalene	91-20-3
Carbon Disulfide	75-15-0	Styrene	100-42-5
Cyclohexanone	108-94-1	Tetrachloroethylene	127-18-4
Dimethylformamide (DMFA)	68-12-2	Toluene	108-88-3
1,2-Dichloroethane	107-06-2	Trichloroethylene	79-01-6
DMAC [N, N-dimethylacetamide]	127-19-5	1,2,3-Trichloropropane	96-18-4
Ethylbenzene	100-41-4	Xylene	1330-20-7

17.2 Volatile Organic Compounds (Fumigation)			
Name	CAS-No.	Name	CAS-No.
Methyl bromide	74-83-9	Phosphine	7803-51-2
1,2-Epoxyethane	75-21-8	Sulfuryl fluoride	2699-79-8
Hydrogen cyanide	74-90-8		

17.3 Volatile Organic Compounds (VOCs)			
Name	CAS-No.	Name	CAS-No.
Formamide	75-12-7		

17.4 Volatile Organic Compounds (VOCs)			
Name	CAS-No.	Name	CAS-No.
Dimethyl Formamide (DMFa)	68-12-2		

18. Alkylphenols (AP)/Alkylphenoethoxylates (APEO)			
Name	CAS-No.	Name	CAS-No.
Nonylphenols (NP)	various	Octylphenols (OP)	various
Nonylphenoethoxylates (NPEO)	various	Octylphenoethoxylates (OPEO)	various

19. Chlorinated Paraffins			
19.1 Short-chain chlorinated paraffins			
Name	CAS-No.	Name	CAS-No.
Alkanes, C10-13 chloro	85535-84-8		

19.2 Middle-chain chlorinated paraffins			
Name	CAS-No.	Name	CAS-No.
Alkanes, C14-17 chloro	85535-85-9		

20. Chlorinated organic carriers

Name	CAS-No.	Name	CAS-No.
2-Chlorotoluene	95-49-8	1,2-Dichlorotoluene	95-50-1
3-Chlorotoluene	108-41-8	1,3-Dichlorotoluene	541-73-1
4-Chlorotoluene	106-43-4	1,4-Dichlorotoluene	106-46-7
2,3-Dichlorotoluene	32768-54-0	1,2,3-Trichlorbenzene	87-61-6
2,4-Dichlorotoluene	95-73-8	1,2,4-Trichlorbenzene	120-82-1
2,5-Dichlorotoluene	19398-61-9	1,3,5-Trichlorbenzene	108-70-3
2,6-Dichlorotoluene	118-69-4	1,2,3,4-Tetrachlorbenzene	634-66-2
3,4-Dichlorotoluene	95-75-0	1,2,3,5-Tetrachlorbenzene	634-90-2
2,3,6-Trichlorotoluene	2077-46-5	1,2,4,5-Tetrachlorbenzene	95-94-3
2,4,5-Trichlorotoluene	6639-30-1	Pentachlorbenzene	608-93-5
2,3,4,5-Tetrachlorotoluene	1006-32-2	Hexachlorbenzene	118-74-1
2,3,5,6-Tetrachlorotoluene	1006-31-1	p-Chlorobenzotrichloride	5216-25-1
2,3,4,6-Tetrachlorotoluene	875-40-1	Benzotrichloride	98-07-7
Pentachlorotoluene	877-11-2	Benzylchloride	100-44-7

21. Biocide

Name	CAS-No.	Name	CAS-No.
CMK	59-50-7	OPP	90-43-7
Dimethylfumarate (DMFu)	624-49-7	TCMTB	21564-17-0/64441-45-8
OIT	26530-20-1	Triclosan	3380-34-5

22. Soluble mineral tanning agents

Name	CAS-No.	Name	CAS-No.
Aluminium	7429-90-5	Titanium	7440-32-6
Chromium	7440-47-3	Zirconium	7440-67-7

23. Total Chromium, Aluminium, Titanium, Iron

Name	CAS-No.	Name	CAS-No.
Chromium	7440-47-3	Titanium	7440-32-6
Aluminium	7429-90-5	Iron	7439-89-6

24. N-Nitrosamine

Name	CAS-No.	Name	CAS-No.
N-nitrosodimethylamine (NDMA)	62-75-9	N-nitrosopyrrolidine (NPYR)	930-55-2
N-nitrosodiethylamine (NDEA)	55-18-5	N-nitrosomorpholine (NMOR)	59-89-2
N-nitrosodipropylamine (NDPA)	621-64-7	N-nitroso N-methyl N-phenylamine (NMPhA)	614-00-6
N-nitrosodibutylamine (NDBA)	924-16-3	N-nitroso N-ethyl N-phenylamine (NEPhA)	612-64-6
N-nitrosopiperidine (NPIP)	100-75-4		

25. pH-value

Name	CAS-No.	Name	CAS-No.
pH-value	-		

26. Flame retardants			
Name	CAS-No.	Name	CAS-No.
Decabromodiphenyl Ether (DecaBDE)	1163-19-5	Tris-(aziridinyl)-phosphine (TEPA)	5455-55-1
Hexabromocyclododecane	25637-99-4	Tris (1,3-dichloro-2-propyl)phosphate (TDCCP)	13674-87-4
Octabromodiphenylether (OctaBDE)	32536-52-0	Tris(2-chloroethyl)-phosphate (TCEP)	115-96-8
Pentabromodiphenylether (PentaBDE)	32534-81-9	Tris-(2,3-dibromopropyl)-phosphate	126-72-7
Polybromobiphenyls (PBB)	59536-65-1		

27. Packing and Packing Waste			
Name	CAS-No.	Name	CAS-No.
Cadmium (Cd)	7440-43-9	MOSH - Mineral oil saturated hydrocarbons (MOSH) with 16 to 35 carbon atoms	-
Chromium VI (CrVI)	18540-29-9	MOAH - Mineral oil aromatic hydrocarbons (MOAH) with 1 to 7 aromatic rings	-
Lead (Pb)	9439-92-1		
Mercury (Hg)	7439-97-6		

28. Glue Additives			
Name	CAS-No.	Name	CAS-No.
Colophony	8050-09-7	Turpentine	9005-90-7
p-tert-Butylphenol-Formaldehyde resin	25085-50-1		

6 TESTING FOR HARMFUL SUBSTANCES

Commitment

Growing knowledge of the effect of harmful substances has encouraged the legislature and the trade to acknowledge this situation in the form of new legislation and voluntary commitments from the trade. Sophisticated research methods and the level of knowledge of the effect of aggressive substances will result in more exacting standards appearing in the future. It is self-evident to us that all those partners participating in production should guarantee compliance with the maximum values.

We guarantee that all materials processed by us do not contain any substances harmful to health. We undertake in particular not to use the substances listed in the appendix or to use them only within the specified limits.

The declaration is binding in Law and applies to all future orders and deliveries without special reference having to be made to us each time.

Place/Date

Supplier's legally binding signature