

## **JUST female Chemical restrictions**

These are JUST female Chemical Restrictions. The chemicals mentioned here are the ones, that are either forbidden by law in the countries where we sell our garments, or restricted by our customers, who will not buy our products, if they contain the said chemicals. It is up to you to ensure that chemicals mentioned in these restrictions, does not end up in our products or in the surrounding environment.

JUST female will make random tests, to ensure that these restrictions are kept, as we will also be tested by our customers or authorities in various sales countries.

- JUST female will pay the test if a specific testing company is requested. If the test fails the supplier will have to pay.
- JUST female reserve the right to cancel the order if test fails
- If products are tested after we have received the goods and testing fails we reserve the right to get full/partly refund of the goods depending on result of the test.

In case of a fail in test you will be immediately notified and together we will find a solution depending on how severe the fail is. Generally, we would always like to engage in a dialogue with you to find good solutions to the benefit of both people and environment, so do not hesitate to contact us for any questions to our Chemical Restrictions and/or our testing program.

Chemical	CAS Number	Test Method	Testing limit
<b>Dye stuffs</b>			
Azo Dyes	Various Substances listed in Appendix 1	LFGB § 64 B82.02-2, -4, -9, -15 EN14362-1, EN14362-3 for 4AAB Leather: LFGB § 64 B 82.02-3, -9 ISO 17234-1, ISO 17234-2 for 4AAB	Not allowed limit value 20 ppm each
Blue colour (azocolor), index no 611-070-00-2	118685-33-9	DIN 54231	Not allowed limit value 50ppm each
Carcinogenic Dyes	Various substances listed in Appendix 2	DIN 54231	Not allowed limit value 50ppm each
Allergenic Dyes	Various substances listed in Appendix 2	DIN 54231	Not allowed limit value 50ppm each
Other banned Dyestuffs	Various substances listed in Appendix 2	DIN 54231	Not allowed limit value 50ppm each
<b>Various</b>			
PH Value		EN ISO 3071 (Textiles) ISO 4045 (Leather)	4.0 – 7,5
Formaldehyde	50-00-0	EN ISO 14184-1 (Textiles) EN ISO 17226-2 (Leather)	75 ppm
Odour		SNV 195651 modified: grading 1-5	Grade 3
PVC		Beilstein and confirmation by IR	Prohibited
<b>Alkylphenol Ethoxylates (APEO)</b>			
Octylphenol (OP), Nonylphenol (NP)		EN ISO 18857-2:2011	Sum of OP and NP Limit value 10 ppm

Octylphenol (OP), Nonylphenol (NP), Octylphenol Ethoxylates (OPEOs), Nonylphenol ethoxylates (NPEOs)		EN ISO 18254-1:2016 AP Determination using GC/MS NPEO, OPEO Determination using LC/MC  Leather: EN ISO 18218-1:2015	Total sum Limit value 100 ppm
<b>Phthalates</b>			
Phthalates	Various Substances listed in Appendix 3	DIN EN ISO 14389, analysis by GC- MS/LC-MS Footwear = EN ISO TS 16181	500 ppm each Total: 1000ppm
<b>Heavy metals</b>			
Antimony (Sb)	7440-36-0	DIN EN 16711-2 Leather: EN ISO 17072-1	Extractable 3ppm
Arsenic (As)	7440-38-2	DIN EN 16711-2 Leather: EN ISO 17072-1	Extractable: 0.1 ppm Total: 10ppm
Barium (Ba)	7440-39-3	DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-2: 2017	Extractable: 100ppm
Cadmium (Cd)	7440-43-9	DIN EN 16711-1 Leather: EN ISO 17072-2 Footwear: DIN EN 14602	Extractable 0.03ppm Total: 5ppm
Chromium (Cr)	7440-47-3	DIN EN 16711-2 Leather: EN ISO 17072-1	Extractable: 0.5ppm
Total Chromium VI (Leather and wool)	18540-29-9	ISO 17075	Not allowed Extractable leather: 1ppm Extractable textile: 0,5ppm
Cobalt (Co)	7440-48-4	DIN EN 16711-2 Leather: EN ISO 17072-1	Limit value 4ppm
Copper (Cu)	7440-50-8	DIN EN 16711-2	Limit value 50ppm

		Leather: EN ISO 17072-1	
Lead (Pb)	7439-92-1	DIN EN 16711-1 Leather: EN ISO 17072-2 Footwear: DIN EN 14602	Extractable 1ppm Total value 90ppm
Mercury (Hg)	7439-97-6	DIN EN 16711-1 Leather: EN ISO 17072-2 Footwear: DIN EN 14602	Not allowed Extractable 0,01ppm total 0,5ppm
Nickel (Ni) non-textile	7440-02-0	Nickel release test EN 1811	0,28 µg/cm/week
Nickel (Ni)	7440-02-0	DIN EN 16711-2 Leather: EN ISO 17072-1	Metallic and metalized surfaces: Extractable 0,1ppm
Selenium (Se)	7782-49-2	Textiles: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-1:2017	Extractable 500ppm
Aluminium (Al)	7429-90-5	DIN EN 16711-2 Leather: EN ISO 17072-1	Extractable 200ppm
Titanium (Ti) (Leather only)	7440-32-6	DIN EN 16711-2 Leather: EN ISO 17072-1	Extractable 200ppm
Zirconium (Zr) (Leather only)	7440-67-7	DIN EN 16711-2 Leather: EN ISO 17072-1	Extractable 200 ppm
<b>Perfluorinated chemicals (PFCs)</b>			
Perflurooctane sulfonate (PFOS)	Various	CEN/TS 15968	Not allowed 1 µg/m <sup>2</sup> each
Perfluorooctanoic acid (PFOA)	Various	CEN/TS 15968	Not allowed 1 µg/m <sup>2</sup> each
Other PFCs	Various Listed in Appendix 4	CEN/TS 15968	Not allowed 1 µg/m <sup>2</sup> each

Flame Retardants			
Flame retardants	Various	DIN EN ISO 17881-1-2	Not allowed
Short chain chlorinated paraffins			
(SCCP, C10-C13)	85535-84-8	DIN EN ISO 18219 (modified)	Not allowed 100ppm
(MCCP C14-C17)	85535-85-9	DIN EN ISO 18219 (modified)	Not allowed 1000ppm
Pesticides			
Pesticides (for natural materials only)	Various Substances listed in Appendix 5	Extraction with acetone, silica gel clean up, analysis with GC-MS	Not allowed Limit value 0,5ppm
Phenols			
Pentachlorophenol (PCP)	87-86-5	LFGB §64 82.02.8 DIN EN ISO 17070 Modified KOH Extraction followed by derivatisation)	Limit value 0,5ppm
Tetrachlorophenols (TeCP) Sum	Various	LFGB §64 82.02.8 DIN EN ISO 17070 Modified KOH Extraction followed by derivatisation)	Limit value 0,5ppm
Trichlorophenols (TrCP) Sum	Various	LFGB §64 82.02.8 DIN EN ISO 17070 Modified KOH Extraction followed by derivatisation)	Limit value 0,5ppm
Orthophenylphenol (OPP)	90-43-7	LFGB §64 82.02.8 DIN EN ISO 17070 Modified KOH Extraction followed by derivatisation)	Limit value 100ppm
Dichlorophenols (DCP) Sum	Various	LFGB §64 82.02.8	Limit value 3.0ppm

		DIN EN ISO 17070 Modified KOH Extraction followed by derivatisation)	
Mohochlorophenols (MCP) Sum	Various	LFGB §64 82.02.8 DIN EN ISO 17070 Modified KOH Extraction followed by derivatisation)	Limit value 3.0ppm
<b>Isocyanates</b>			
Isocyanates	Various Substances listed in Appendix 6	In-house method Analysis conducted by LC/MS	Not allowed Limit value 50ppm each
<b>Chlorinated organic carriers</b>			
(Mono-, Di-, Tri-, Tetra-, Penta-, Hexa) Chlorinated Benzenes	Various	DIN 54232	Not allowed Limit value 1.0 ppm sum
(Mono-, Di-, Tri-, Tetra-, Penta-, Hexa) Chlorinated Toluene	Various	DIN 54232	Not allowed Limit value 1.0 ppm sum
<b>Dimethyl Fumarate (DMFu)</b>			
Dimethyl Fumarate (DMFu)	624-49-7	DIN EN ISO/TS 16186	Not allowed Limit value 0,1 ppm
<b>Solvent Residues/Volatile Organic Compounds (VOCs)</b>			
Benzene	71-43-2	Headspace GC-MC or solvent extraction followed by GC/MS analysis	Not allowed Limit value 1ppm
Toluene	108-88-3	Headspace GC-MC or solvent extraction followed by GC/MS analysis	Not allowed Limit value 10 ppm each
Others	Various Substances listed in Appendix 7	Headspace GC-MC or solvent extraction followed by GC/MS analysis	Limit value 10 ppm each
<b>Polycyclic aromatic hydrocarbons (PAH)</b>			

Benzo(a)pyrene	50-32-8	AfPS GS 2014:01 PAK	Sum of all 24 PAHs Total value 10 ppm
Benzo(e)pyrene	192-97-2	AfPS GS 2014:01 PAK	
Benzo(a)anthracene	56-55-3	AfPS GS 2014:01 PAK	
Chrysene	218-01-9	AfPS GS 2014:01 PAK	
Benzo (b-, j-, k-) Fluoranthene	205-99-2, 205-82-3, 207-08-9	AfPS GS 2014:01 PAK	
Dibenz (a, h) anthracene	53-70-3	AfPS GS 2014:01 PAK	
Others	Various Substances listed in Appendix 8	AfPS GS 2014:01 PAK	
<b>Organotin Compounds</b>			
Organotin Compounds	Various Substances listed in Appendix 9	DIN SPEC 91179/ DIN CEN ISO/TS 16179 (modified)	Not allowed Limit value 1ppm

<b>Appendix 1</b>			
<b>Azodyes releasing cleavable arylamines</b>			
<b>Substance</b>	<b>CAS NO.</b>	<b>Substance</b>	<b>CAS NO.</b>
4-Aminobiphenol	92-67-1	3,3` - Dimethyl -4,4`- diaminobiphenolmethane	838-88-0
Benzindine	92-87-5	p-Cresidine	120-71-8
4-Chloro-o-toluidine	95-69-2	4,4`-Methylene-bis-(2- chloroaniline	101-14-4
2- Naphthylamine	91-59-8	4,4´ -Oxydianiline	101-80-4
o-Aminoazotoluene	97-56-3	4,4´ -Thiodianiline	139-65-1
2-Amino-4-nitrotoluene	99-55-8	0-Toluidine	95-53-4
p-Chloroanisole	106-47-8	2,4 - Toluyldiamine	95-80-7
2,4- Diaminoanisole	615-05-4	2,4,5 -Trimethylaniline	137-17-7
4,4´ - Diaminobiphenylmethane	101-77-9	O -Anisidine (2-Methozyaniline)	90-04-0
3,3´ - Dichlorobenzidine	91-94-1	4 – Aminoazobenzene	60-09-2

3,3' - Dimethoxybenzene	119-90-4	2,4 – Xylidine	95-68-1
3,3' - Dimethylbenzidine	119-93-7	2,6 – Xylidine	87-62-7

<b>Appendix 2</b>			
<b>Forbidden and Disperse dyes</b>			
<b>Substance</b>	<b>CAS NO</b>	<b>Substance</b>	<b>CAS NO</b>
Acid Red 26	3761-53-3	Direct Red 28	537-58-0
Basic Red 9	569-61-9	Disperse Blue 1	2475-45-8
Basic Violet 14	632-99-5	Disperse Orange 11	82-28-0
Direct Black 38	1937-37-7	Disperse Yellow 3	2832-40-8
Direct Blue 6	2602-46-2	Pigment Red 104	12646-85-8
Pigment Yellow	1344-37-2	Basic Blue 26	2580-56-5
Basic Violet 3	548-62-9	Basic Green 4 (oxalate)	2437-29-8
Basic Green 4 (Chloride)	569-64-2	Basic Green 4 (free)	10309-95-2
Disperse Blue 1	2475-45-8	Disperse orange 37/76	13301-61-6
Disperse Blue 3	2475-46-9	Disperse Red 1	2872-52-8
Disperse Blue 7	3179-90-6	Disperse Red 11	2872-48-2
Disperse Blue 26	3860-63-7	Disperse Red 17	3179-89-3
Disperse Blue 35	12222-75-2	Disperse Red 151	61968-47-6
Disperse Blue 35 A	56524-77-7	Disperse Yellow 1	119-15-3
Disperse Blue 35 B	56524-76-6	Disperse Yellow 3	2832-40-8
Disperse Blue 102	12222-97-8	Disperse Yellow 7	6300-37-4
Disperse Blue 106	12223-01-7	Disperse Yellow 9	6373-73-5
Disperse Blue 124	61951-51-7	Disperse Yellow 39	12236-29-2
Solvent Blue	6786-83-0	Disperse Yellow 49	54824-37-2
Disperse Orange 1	258-69-3	Disperse Yellow 56	54077-16-6
Disperse Orange 3	730-40-5	Disperse Brown 1	23355-64-8
		Direct Brown 95	1671-86-6

Disperse Orange 149	85136-74-9	Disperse Yellow 23	6250-23-3
4-Dimethylaminoazobenzene (solvent Yellow2)	60-117	4,4'-bis(dimethylamine)-4''-(methylamino)trityl alcohol	

<b>Appendix 3</b>			
<b>Phthalates</b>			
<b>Substance</b>	<b>CAS NO</b>	<b>Substance</b>	<b>CAS NO</b>
Butylbenzylphthalate (BBP)	85-68-7	Di-iso-butylphthalate (DIBP)	84-69-5
Dibutylphthalate (DBP)	84-74-2	Di-iso-decylphthalate (DIDP)	26761-40-0 68515-49-1
Di-(2-ethylhexyl)-phthalate (DEHP)	117-81-7	Di-iso-hexylphthalate (DIHxP)	71850-09-4
Di-(2-methoxyethyl)-phthalate (DMEP)	117-82-8	Di-iso-nonylphthalate (DINP)	28553-12-0 68515-48-0
Di-C6-8-branched alkylphthalates. C7 rich (DIHP)	71888-89-6	Di-n-hexylphthalate (DHP)	84-75-3
Di-C7-11-branched and linear alkylphthalates (DHNUP)	68515-42-4	Di-n-octylphthalate (DNOP)	117-84-0
Di-hezylphthalate, branched and linear (DHxP)	68515-50-4	Di-pentylphthalate (n-, iso- or mixed) (DDP)	131-18-0; 605-50-5; 77697-69-9; 84777-06-0
Di-cyclohexylphthalate (DCHP)	84-61-7	1,2-benzenedicarboxylic acid, di-C6-10-alkylesters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0,3\%$ of dihexyl phthalate (EC 201-559-5)	68515-51-5 68648-93-1
Di-ethylphthalate (DEP)	84-66-2	Di-iso-octylphthalate (DIOP)	27554-26-3
Di-n-propylphthalate (DPrP)	131-16-8	Di-n-nonylphthalate (DNP)	84-76-4

<b>Appendix 4</b>			
<b>Perfluorinated chemicals</b>			
<b>Substance</b>	<b>CAS NO</b>	<b>Substance</b>	<b>CAS NO</b>
Perfluoroundecanoic acid / heni-cosafluoroundecanoic acid	2058-94-8	Perfluoroundecanoic acid / tricosafuoroundecanoic acid (PFDoA)	305-55-1
Perfluorotridecanoic acid / pentacosafuorotridecanoic acid (PFTTrDA)	72629-94-8	Perfluorotetradecanoic acid / heptacosafuorotetradecanoic acid (PFTeDA)	376-06-7
Perfluoroheptanoic acids (PFHpA)	Various	Perfluorononanoic acids (PFNA)	Various
Perfluorodecanoic acids (PFDA)	Various	Perfluorooctane sulfonamide (PFOSA)	754-91-6
Perfluorooctane sulfonfluoride (PFOF/POF)	307-35-7	N-Methyl perfluorooctane sulfonamide	31506-32-8
N-Ethyl perfluorooctane sulfonamide	4151-50-2	N-M perfluorooctane sulfonamide ethanol	24448-09-7
N-Ethyl perfluorooctane sulfonamide ethanol	1691-99-2		

<b>Appendix 5</b>
<b>Pesticides</b>

Substance	CAS NO.	Substance	CAS NO:
2-(2,4,5-Trichlorophenoxy) propionic acid, salts and compounds ("2,4,5-T")	93-76-5	2,4- Dichlorophenoxyacetic acid, salts and compounds ("2,4-D")	94-75-7
Azinophosmethyl	86-50-0	Azinophosethyl	2642-71-9
Aldrine	309-00-2	Bromophos-ethyl	4824-78-6
Captafol	2425-06-1	Carbaryl	63-25-2
Chlordane	57-74-9	Chlordimeform	6164-98-3
Chlorfenvinphos	470-90-6	Coumaphos	56-72-4
Cyfluthrin	68359-37-5	Cyhalothrin	91465-08-6
Cypermethrin	52315-07-8	DEF	78-48-8
Deltamethrin	52918-63-5	DDD	53-19-0, 72-54-8
DDE	3424-82-6; 72-55-9	DDT	50-29-3; 789-02-06
Diazinon	333-41-5	Dichlorprop	120-36-2
Dicrotophos	141-66-2	Dieldrine	60-57-1
Dimethoate	60-51-5	Dinoseb it salts and acetate	88-85-7
Endosulfane, alpha	959-98-8	Endosulfane, beta	33213-65-9
Endrine	72-20-8	Esfenvalerate	66230-04-4
Fenvalerate	51630-58-1	Heptachlor	76-44-8
Heptachloroepoxide	1024-57-3	Hexachlorobenzene	118-74-1
Hexachlorocyclohexane, alpha	319-84-6	Hexachlorocyclohexane, beta	319-85-7
Hexachlorocyclohexane, gamma	319-86-8	Isodrin	465-73-6
Kelevane	4234-79-1	Kepone	143-50-0
Lindane	58-89-9	Malathion	121-75-5
MCPA	94-74-6	MCPB	94-81-5
Mecoprop	93-65-2	Metamidophos	10265-92-6
Methoxychlor	72-43-5	Mirex	2385-85-5

Monocrotophos	6923-22-4	Parathion	56-38-2
Parathion-methyl	298-00-0	Perthrane	72-56-0
Phosdrin/Mevinphos	7786-34-7	Propethamphos	31218-83-4
Profenophos	41198-08-7	Quinalphos	13583-03-8
Strobane	8001-50-1	Telodrin	297-78-9
Toxaphene	8001-35-2	Trifluralin	1582-09-8
Aldicarb	116-06-3	Clothianidin	210880-92-5
Dinotefuran	16252-70-0	Imidaclorid	105827-78-9
Nitenpyram	150824-47-8	Thiacloprid	111988-49-9
Thiamethoxam	153719-23-4	Chlorbenzilate	510-15-6
Phosphamidone	13171-21-6		

<b>Appendix 6</b>			
<b>Isocyanates</b>			
<b>Substance</b>	<b>CAS NO</b>	<b>Substance</b>	<b>CAS NO.</b>
Toluene diisocyanate (TDI)	584-84-9; 91-08-7	Diphenylmethane diisocyanate (MDI)	101-68-8
Hexamethylene diisocyanate (HDI)	822-06-0	Isophorone diisocyanate	4098-71-9
Tetramethylxylene diisocyanate (TMXDI)	2778-42-9		

<b>Appendix 7</b>			
<b>Other solvents/Volatile organic compounds (VOCs)</b>			
<b>Substance</b>	<b>CAS NO</b>	<b>Substance</b>	<b>CAS NO</b>
1,1,1 – trichloroethane	71-55-6	Acetone	67-64-1

Cyclohexanone	108-94-1	Ethyl acetate	141-78-6
Isophorone	78-59-1	Methyl ethyl ketone (MEK)	78-93-3
Tetrachloroethylene (perchloroethylene)	127-18-4	Xylenes (Dimethylbenzenes)	1330-20-7

## Appendix 8

### Polycyclic aromatic Hydrocarbons (PAH)

Substance	CAS NO	Substance	CAS NO
Acenaphthene	83-32-9	Acenaphthylene	208-96-8
Anthracene	120-12-7	Benzo(ghi)perylene	191-24-2
Cyclopenta (c, d) pyrene	27208-37-3	Dibenzo (a, e) pyrene	192-65-4
Dibenzo (a, h) pyrene	189-64-0	Dibenzo (a, i) pyrene	189-55-9
Dibenzo (a, j) pyrene	191-30-0	Fluoranthene	206-44-0
Fluorene	86-73-7	Indeno(1,2,3-cd) pyrene	193-39-5
1-methylpyrene	2381-21-7	Naphthalene	91-20-3
Phenanthrene	85-01-8	Pyrene	129-00-0
Carbon Disulphide	75-15-0	Carbon tetrachloride	56-23-5
Chloroform	67-66-3	1,2-Dichloroethane	107-06-2
1,1-Dichloroethylene	75-35-4	Dimethylacetamide (DMAC)	127-19-5
Ethylbenzene	100-41-4	Pentachloroethane	76-01-7
1,1,1,2-Tetrachloroethane	630-20-6	1,1,2,2-Tetrachloroethane	79-34-5
Tetrachloroethylene (PER)	127-18-4	1,1,2-Trichloroethane	79-00-5
Trichloroethylene	79-01-6	Xylenes (meta-, ortho-, para-)	1330-20-7; 108-38-3; 95-47-6; 106-42-3

## Appendix 9

Organotin Compounds			
Substance	Substance	Substance	Substance
Monobutyltin (MBT)	Tributyltin (TBT)	Diphenyltin (DPHT)	Tetrabutyltin (TeBT)
Dibutyltin (DBT)	Triphenyltin (TPHT)	Monomethyltin (MMT)	Tritylcohexyltin (TCyHT)
Dioctyltin (DOT)	Dimethyltin (DMT)	Monooctyltin (MOT)	Trimethyltin (TMT)
Trioctyltin (TOT)	Tripropyltin (TPT)	Dipropyltin (DPT)	Monophenyltin (MPT)
Tetraethyltin (TeET)			

Supplier name:

We confirm that all above restrictions will be kept.

Date:

Signature and stamp: