

| T O M T A I L O R GROUP | | | RSL adults* | |
|---|--|---------------|---|-----------------------------|
| Group | Substance | CAS-No. | Test Method | Test Limit each in mg/kg |
| Dyestuffs | | | | |
| Dyes – Azo (Forming Restricted Amines) | please see Appendix A for detailed information (new aniline) | Appendix A | Textile: EN ISO 14362-1:2017, 4-aminoazobenzene confirmation: EN ISO 14362-3:2017 ; Leather: ISO 17234-1:2015, 4-aminoazobenzene confirmation: ISO-17234-2:2011 | 20 |
| Dyes – Disperse (Sensitizing) | please see Appendix B for detailed information | Appendix B | DIN 54231 | n.d. (detection limit 20) |
| Dyes – Carcinogenic or Equivalent Concern | please see Appendix C for detailed information | Appendix C | DIN 54231 | each 20 |
| Dyestuffs causing environmental problems (not allowed to be used during production process) | Component 1: C39H23ClCrN7O12S•2NA | 405-665-4 | DIN 54231 | n.d. (5) |
| | Component 2: C46H30CrN10O20S2•3NA | Not allocated | | |
| Heavy Metals | | | | |
| Total Heavy Metals | Cadmium (Cd) | 7440-43-9 | EN 16711-1 | 100 |
| | Lead (Pb) | 7439-92-1 | | 90 |
| | Mercury (Hg) | 7439-97-6 | | 0,5 |
| Chromium (VI) | Chromium VI | 18540-29-9 | ISO 17075-1:2017 , artificial aging: 24h, 80C, 10% rF | leather: 3 |
| | | | | textile: 1 |
| Nickel | Nickel release (direct and prolonged skin contact) | | EN 12471 EN 12472 / EN 1811:2011+A1:2015 | 0,5 µg/cm2/ week |
| Extractable Heavy Metal Content | Antimony (Sb) | 7440-36-0 | Extraction with artificial sweat solution (ISO 105 E04 solution II), analysis with ICP/AAS. Cr (VI) with UV/VIS | 30 |
| | Arsenic (As) | 7440-38-2 | | 1 |
| | Lead (Pb) | 7439-92-1 | | 1 |
| | Cadmium (Cd) | 7440-43-9 | | 1 |
| | Chromium (Cr) | 7440-47-3 | | textile: 2 leather: 100 |
| | Cobalt (Co) | 7440-48-4 | | 4 |
| | Copper (Cu) | 7440-50-8 | | 25 |
| | Nickel (Ni) | 7440-02-0 | | 4 |
| | Mercury (Hg) | 7439-97-6 | | n.d. (detection limit 0,02) |
| Heavy Metals in Packaging | Cadmium (Cd) | 7440-43-9 | In-House method; analysis by ICP; CrVI by alkaline extraction | sum 100 |
| | Lead (Pb) | 7439-92-1 | | |
| | Mercury (Hg) | 7439-97-6 | | |
| | Chromium VI | 18540-29-9 | | |

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| Organic Substances | | | | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | please see Appendix D for detailed information | Appendix D | AfPS GD 2014-01 PAK, GC-MS analysis | BaP, BeP, BaA, CHR, BbF, BfF, BkF, DBA, IPY, BPE: each 0,5; NAP 2; sum of ANA, ANY, ANT, FLU, PHE, FLT, PYR: 10 ; sum of 18 PAHs: 10 |
| Siloxane | Octamethylcyclotetrasiloxane D4 | 556-67-2 | Extraction with solvent, GC-MS | 1000 |
| | Decamethylcyclopentasiloxane D5 | 541-02-6 | | |
| | Dodecamethylcyclohexasiloxane D6 | 540-97-6 | | |
| Organotin Compounds | Tributyltin, Tricyclohexyltin, Trimethyltin, Trioctyltin, Triphenyltin, Tripropyltin | Appendix E | ISO/TS 16179 | each 1 |
| | Dibutyltin, Dimethyltin, Dioctylzinn, Diphenyltin, Monobutyltin, Monomethyltin, Monooctyltin, Monophenyltin, Tetraethyltin, Tetrabutyltin | | | each 2 |
| Phthalates | please see Appendix F for detailed information | Appendix F | ISO 14389, GC-MS analysis | sum 1000 |
| Spinning Solvents | Dimethylformamide (DMF) | 68-12-2 | headspace GC-MS | each 500 |
| | Dimethylacetamide (DMAC) | 127-19-5 | | |
| | N-methyl-2-pyrrolidone, 1-methyl-2-pyrrolidone (NMP) | 872-50-4 | | |
| Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers | Nonylphenol (NP), mixed isomers | various | Textile: ISO 18254-1 Leather: ISO 18218-1:2015; Extraction with solvent, GC-MS or LC-MS | 10 |
| | Octylphenol (OP), mixed isomers | | | 10 |
| | Octylphenol ethoxylates (OPEO) | | | sum 100 |
| | Nonylphenol ethoxylates (NPEO) | | | 1000 |
| | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP) | | | 1000 |
| | 4-tert-Butyl-Phenol | 98-54-4 | | 1000 |
| Perfluorinated and Polyfluorinated Chemicals (PFCs) | Perfluorooctane sulphonates (PFOS) and related substances | various | extraction with solvent, LC-MS | 1 μ g/m ² |
| | Perfluorooctanoic acid (PFOA) and related substances | | | 0,025 |
| Formaldehyde | Formaldehyde | 50-00-0 | textile: ISO 14184-1 leather: ISO 17226-2 | 75 |

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| Benzene | Benzene | 74-43-2 | VDA 278 | 5 |
| Quinoline | Quinoline | 91-22-5 | Extraction with THF and HPLC/MS | 50 |
| Biocides | Dimethylfumarate (DMFu) | 624-49-7 | extraction with organic solvent, GC-MS or LC-MS | 0,1 |
| | Triclosan | 3380-34-5 | | n.d. (detection limit 0,5) |
| | 2-(Thiocyanomethylthio)-Benzothiazol TCMTB | 21564-17-0 | | leather: 500 |
| | 4-Chlor-3-Methylphenol | 59-50-7 | | leather: 600 |
| | 2-Phenylphenol (OPP) | 90-43-7 | | leather: 1000 |
| | 2-Octylisothiazol-3(2H)-on | 26530-20-1 OIT | | textile: 100 leather: 250 |
| Chlorinated phenols | please see Appendix G for detailed information | Appendix G | Textile / Leather: LFGB § 64 BVL B82.02.8, GC-ECD analysis; Leather: ISO 17070; Polyester / Polyester-blend / printed fabric: Modified § 64 LFGB BVL B82.02.8 with alkaline digestion | each 0,5 |
| PVC | Polyvinylchloride | 9002-86-2 | Beilstein test; FTIR (if Beilstein test positive) | negative |
| Chlorinated Organic Carriers (COC) | chlorinated toluene and benzene (please see Appendix H for detailed information) | Appendix H | DIN 54232; GC-MS analysis | sum 1 |
| Glycols | please see Appendix I for detailed information | Appendix I | In house method, GC-MS analysis | n.d. (detection limit 10) |
| Fat Liquoring Agents | Short Chain Chlorinated Paraffin (SCCP) (C10 - C13) | 85535-84-8 | EN ISO 18219 (modified) | 250 |
| | Medium Chain Chlorinated Paraffin (MCCP) | 85535-85-9 | | 1000 |
| soluble Proteins | soluble Proteine (from Natural rubber) | | DIN EN 455-3 (modified) Lowry method | n.d (detection limit 20 in sum) |
| Flame Retardants | please see Appendix J for detailed information | Appendix J | Requested if sample treated with flame retardants In-house method: GC-MS/GC-NPD/MS/LC-MS analysis | n.d. (detection limit 10) |

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| Volatle Organic Compounds (VOC) | please see Appendix K for detailed information | Appendix K | for general VOC screening: GC/MS headspace 45 minutes at 120 degrees C ; for DMAC: DIN CEN ISO/TS 16189:2013 | sum 100 |
| Pesticides | please see Appendix L for detailed information | Appendix L | in-house (solvent extract) by GC-MS analysis | Total concentration of Pesticides < 1 |
| Asbestos | Actinolit | 77536-66-4 | Polarized light microscopy for qualitative analysis | negative |
| | Amosit | 12172-73-5 | | |
| | Anthophyllit | 77536-67-5 | | |
| | Chrysolit | 12001-29-5 | | |
| | Krokydolith | 12001-28-4 | | |
| | Tremolit | 77536-68-6 | | |
| Polychlorinated and Halogenated Biphenyls, Naphthalenes and Terphenyles | Halogenated biphenyls, including Trichlorinated or higher chlorinated Biphenyls (PCB) | Appendix M | PCB: Test method: DIN 38407 (part 2) group F, analysis by GC-EC/GC-MSD (detection limit of each: 0,01 mg/kg) PCT: Test method: In-house method, analysis by GC-ECD (detection limit of each: 1 ppm) Ugilec 141, ugilec 121 | n.d. (please see test method for detection limit) |
| | Halogenated naphthalenes, including Polychlorinated naphthalenes (PCN) | | | |
| | Halogenated terphenols, including Polichlorinated terphenyl (PCT) | | | |
| Dioxins and Furans | please see Appendix N for detailed information | Appendix N | in-house | n.d. (sum 1) |
| ph value | | | Textile: ISO 3071 Leather: ISO 4045 | 4 - 7,5 |
| Determination of Odours | No odour from mould, high boiling fraction of petrol, fish, aromatic hydrocarbons or perfume. | | Sensoric determination of odours: SNV 195 651 | 3 (tolerable odour) or below |
| only for UV Absorbers, Stabilizers | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one; 3-benzylidene camphor; 3-BC | 15087-24-8 | Extraction, GC-MS | 1000 |