Annex 3.1

EU Ecolabel Restricted Substance List (RSL) compiled from the existing criteria

Substance	Scope of restriction	Threshold limit	Test method
Biocides			
Biocides shall not be used to give biocidal properties to the final product	Including triclosan, nano-silver, zinc organic compounds, tin organic compounds, dichlorophenyl(ester) compounds, benzimidazol derivatives and isothiazolinones.	Limit of detection 0.05 ppm	Derivatisation with acetic anhydride, determination by capillary gas-liquid chromatography with electron capture
The following biocides shall not be used to protect goods during transportation and storage. Only biocides that are authorised under Biocide Directive 98/8/EC	Chlorophenols (their salts and esters) PCB Organotin compounds		detection.
and Biocide Regulation (EC) No 528/2012 are permited.	DMFu (dimethyl fumarate)	100 ppm	Solvent extraction and GCMS
Auxilliaries			
The following substances	Alkylphenolethoxylates (APEOs)	Limit of	C65 Solvent extraction LCMS
shall not be used in any preparations or formulations.	bis(hydrogenated tallow alkyl) dimethyl ammonium chloride (DTDMAC)	100 ppm	SAUGORON EDIVID
	distearyl dimethyl ammonium chloride (DSDMAC)		
	di(hardened tallow) dimethyl		

	ammonium chloride (DHTDMAC)		
	ethylene diamine tetra acetate (EDTA),		
	diethylene triamine penta acetate (DTPA)		
	4-(1,1,3,3-tetramethylbutyl)phenol		
	1-Methyl-2-pyrrolidone		
	Nitrilotriacetic acid (NTA)		
Dyeing			
Halogenated carriers shall not be used to dye polyester.	Including trichlorobenzene	1 ppm	Solvent extraction and GCMS
Azo dyes	Azo dyes shall not be used that may cleave to aromatic amines - see Annex 3.2: Azo dye listing.	5 ppm	EN 14362-1 and 2
CMR dyes	Dyes shall not be used that are carcinogenic, mutagenic or toxic to reproduction – see Annex 3.3: CMR dye listing		DIN 54231
Potentially sensitising dyes	Dyes shall not be used that are potentially sensitising – see Annex 3.3: Sensitising dye listing		
Chrome mordant dyes	Chrome mordant dyes shall not be used	3 ppm	EN ISO 17075:2007
Metal complex dyes based on copper, chrome and nickel shall only be permitted for dyeing wool	Cellulose fibre dyeing.	80% dye fixation required	Cu and Ni: ISO 8288 Cr: EN 1233
or polyamide.	Wool fibre dyeing.	93% dye fixation required	

Dyestuff should not contain impurities exceeding the following limit values.	Antimony (Sb)	50 ppm	MSDS and
	Arsenic (As)	50 ppm	supplementary data from suppliers
	Barium (Ba)	100 ppm	
	Cadmium (Cd)	20 ppm	
	Chromium (Cr)	100 ppm	
	Cobalt (Co)	500 ppm	
	Copper (Cu)	250 ppm	
	Iron (Fe)	2,500 ppm	
	Lead (Pb)	100 ppm	
	Nickel (Ni)	200 ppm	
	Manganese (Mn)	1,000 ppm	
	Mercury (Hg)	4 ppm	
	Selenium (Se)	20 ppm	
	Silver (Ag)	100 ppm	
	Tin (Sn)	250 ppm	
	Zinc (Zn)	1,500 ppm	
Pigments should not	Antimony (Sb)	250 ppm	MSDS and
contain impurities exceeding the following	Arsenic (As)	50 ppm	supplementary data from suppliers
limit values.	Barium (Ba)	100 ppm	
	Cadmium (Cd)	50 ppm	
	Chromium (Cr)	100 ppm	
	Cobalt (Co)	500 ppm	
	Lead (Pb)	100 ppm	

		I	
	Mercury (Hg)	25 ppm	
	Selenium (Se)	100 ppm	
	Tin (Sn)	250 ppm	
	Zinc (Zn)	1,000 ppm	
Printing			
Printing pastes shall not contain more than the specified levels of VOC's	Examples to be listed	5% w/w	Solvent extraction and GCMS
Plastisols	Plastisol print applications shall not be used.	n/a	
Finishes			
Formaldehyde	Products for babies and children under 3 years old.	20 ppm	EN ISO 14184-1
	Products that come into direct contact with the skin.	75 ppm	
	All other products.	300 ppm	
Anti-felting	Halogenated substances or preparations shall only be applied to wool slivers and loose scoured wool.	xx ppm	ISO 11480:97
Water repellents	PFOS (perflourooctane sulfonate and its derivatives)	>1µg/m² of the coated materials.	Solvent extraction LCMS
	PFOA (perfluoroctanoic acid)	25 ppm	
Flame retardants shall not	HBCD – Hexabromocyclododecane	5 ppm	Solvent extraction
be used unless they are required by Member State legislation or their use is	PeBDE – Pentabromodiphenyl ether		and GCMS/LCMS

stipulated by EN or ISO standards for specific applications. The following flame retardants shall not be used:	OcBDE – Octabromidiphenyl ether PBBs – Polybrominated biphenyls TEPA – Tris(aziridinyl) phosphinoxide TRIS – Tris (2,3 dibromopropyl) phosphate TCEP – Tris (2,chloroethyl)phosphate		
Coatings, laminates and membranes should not contain the following phthalates:	DEHP (Bis-(2-ethylhexyl)-phthalate) BBP (Butylbenzylphthalate) DBP (Dibutylphthalate) Di-isononyl phthalate (DINP) Di-isodecyl phthalate (DIDP) Di-n-octyl phthalate (DNOP) Bis(2-methoxyethyl) phthalate DIBP (Diisobutylphthalat)	Sum total 1000 ppm	C61 solvent extraction and GCMS
Accessories			
Accessories such as buttons, rivets and zips, should not contain the following substances:	Metal accessories: Nickel and Chrome Rubber accessories: Organotin compounds		
	Plastic accessories: Phthalates (as listed under coatings, laminates and membranes)		

Annex 3.2

Dyes that may cleave to aromatic amines

Disperse dyes that may cleave to aromatic amines		
Disperse Orange 60	Disperse Yellow 7	
Disperse Orange 149	Disperse Yellow 23	
Disperse Red 151	Disperse Yellow 56	
Disperse Red 221	Disperse Yellow 218	

Basic dyes that may cleave to aromatic amines		
Basic Brown 4	Basic Red 114	
Basic Red 42	Basic Yellow 82	
Basic Red 76	Basic Yellow 103	
Basic Red 111		

Acid dyes that may cleave to aromatic amines			
CI Acid Black 29	CI Acid Red 26	CI Acid Red 128	
CI Acid Black 94	CI Acid Red 26:1	CI Acid Red 135	
CI Acid Black 131	CI Acid Red 26:2	CI Acid Red 148	
CI Acid Black 132	CI Acid Red 35	CI Acid Red 150	
CI Acid Black 209	CI Acid Red 48	CI Acid Red 158	
CI Acid Black 232	CI Acid Red 73	CI Acid Red 167	
CI Acid Brown 415	CI Acid Red 85	CI Acid Red 170	

CI Acid Orange 17	CI Acid Red 104	CI Acid Red 264
CI Acid Orange 24	CI Acid Red 114	CI Acid Red 265
CI Acid Orange 45	CI Acid Red 115	CI Acid Red 420
CI Acid Red 4	CI Acid Red 116	CI Acid Violet 12
CI Acid Red 5	CI Acid Red 119:1	
CI Acid Red 8	CI Acid Red 128	
CI Acid Red 24	CI Acid Red 115	

Direct dyes that may cleave to aromatic amines			
Direct Black 4	Direct Blue 201	Direct Green 6	Direct Red 39
Direct Black 29	Direct Blue 215	Direct Green 8	Direct Red 44
Direct Black 38	Direct Blue 295	Direct Green 8.1	Direct Red 46
Direct Black 154	Direct Blue 306	Direct Green 85	Direct Red 62
Direct Blue 1	Direct Brown 1	Direct Orange 1	Direct Red 67
Direct Blue 2	Direct Brown 1:2	Direct Orange 6	Direct Red 72
Direct Blue 3	Direct Brown 2	Direct Orange 7	Direct Red 126
Direct Blue 6	Basic Brown 4	Direct Orange 8	Direct Red 168
Direct Blue 8	Direct Brown 6	Direct Orange 10	Direct Red 216
Direct Blue 9	Direct Brown 25	Direct Orange 108	Direct Red 264
Direct Blue 10	Direct Brown 27	Direct Red 1	Direct Violet 1
Direct Blue 14	Direct Brown 31	Direct Red 2	Direct Violet 4
Direct Blue 15	Direct Brown 33	Direct Red 7	Direct Violet 12
Direct Blue 21	Direct Brown 51	Direct Red 10	Direct Violet 13

Direct Blue 22	Direct Brown 59	Direct Red 13	Direct Violet 14
Direct Blue 25	Direct Brown 74	Direct Red 17	Direct Violet 21
Direct Blue 35	Direct Brown 79	Direct Red 21	Direct Violet 22
Direct Blue 76	Direct Brown 95	Direct Red 24	Direct Yellow 1
Direct Blue 116	Direct Brown 101	Direct Red 26	Direct Yellow 24
Direct Blue 151	Direct Brown 154	Direct Red 22	Direct Yellow 48
Direct Blue 160	Direct Brown 222	Direct Red 28	
Direct Blue 173	Direct Brown 223	Direct Red 37	
Direct Blue 192	Direct Green 1	Direct Red 21	

Annex 3.3

Dyes that are CMR or which potentially be sensitising

Dyes that are carcinogenic, mutagenic or toxic to reproduction			
C.I. Acid Red 26	C. I. Direct Black 38	C.I. Disperse Blue 1	
C.I. Basic Red 9	C. I. Direct Blue 6	C.I. Disperse Orange 11	
C.I. Basic Violet 14	C. I. Direct Red 28	C. I. Disperse Yellow 3	

Disperse dyes that are potentially sensitising				
C.I. Disperse Blue 1	C.I. Disperse Blue 106	C.I. Disperse Orange 76	C.I. Disperse Yellow 9	
C.I. Disperse Blue 3	C.I. Disperse Blue 124	C.I. Disperse Red 1	C.I. Disperse Yellow 39	
C.I. Disperse Blue 7	C.I. Disperse Brown 1	C.I. Disperse Red 11	C.I. Disperse Yellow 49	
C.I. Disperse Blue 26	C.I. Disperse Orange 1	C.I. Disperse Red 17		
C.I. Disperse Blue 35	C.I. Disperse Orange 3	C.I. Disperse Yellow 1		
C.I. Disperse Blue 102	C.I. Disperse Orange 37	C.I. Disperse Yellow 3		

Annex 4

Criteria 12 Hazard Statement categorisation

Acute toxicity

Category A	Category B	
(CLP Category 1	(CLP Category 3	
and 2 acute toxicity)	acute toxicity)	
H350i May cause		
cancer by inhalation (R49)		
(N49)		
H300 Fatal if	H301 Toxic if	
swallowed (R28)	swallowed (R25)	
H310 Fatal in	H311 Toxic in	
contact with skin	contact with skin	
(R27)	(R24)	
H330 Fatal if	H331 Toxic if	
inhaled (R23/26)	inhaled	
	(R23)	
H304 May be fatal if	EUH070 Toxic by	
swallowed and	eye contact	
enters airways	(R39/41)	
(R65)		

Organ toxicity

Category A (CLP Category 1 organ toxicity)	Category B (CLP Category 2 organ toxicity)
H370 Causes damage to organs (R39/23/24/25/26/27/28)	H371 May cause damage to organs (R68/20/21/22)
H372 Causes damage to organs (R48/25/24/23)	H373 May cause damage to organs (R48/20/21/22)

CMR substances

Category A	Category B
(CLP Category 1	(CLP Category 2
CMR substances)	CMR substances)
,	,
H340 May cause	H341 Suspected of
genetic defects	causing genetic
(R46)	defects (R68)
H350 May cause	H351 Suspected of
cancer (R45)	causing cancer
	(R49)
H360F May	H361f Suspected of
damage fertility	damaging fertility
(R60)	(R62)
H360D May	H361d Suspected
damage the unborn	of damaging the
child (R61)	unborn child (R63)
H360FD May	H361fd Suspected
damage fertility.	of damaging
May damage the	fertility. Suspected
unborn child	of damaging the
(R60/61/60-61)	unborn child
	(R62/63)
H360Fd May	H362 May cause
damage fertility.	harm to breast fed
Suspected of	children (R64)
damaging the	·
unborn child	
(R60/63)	
H360Df May	
damage the unborn	
child. Suspected of	
damaging fertility	
(R61/62)	

Sensitisers

Category A	Category B (CLP Category 1 sensitisation)
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled (R42)
	H317: May cause allergic skin reaction (R43)

Environmental hazards

Category A	Category B
(CLP Category 1	(CLP Category 2-
hazards)	4 hazards)
H400 Very toxic to	H411 Toxic to
aquatic life (R50)	aquatic life with
	long-lasting
	effects (R51/53)
H410 Very toxic to	H412 Harmful to
aquatic life with long-	aquatic life with
lasting effects	long-lasting
(R50/53)	effects (R52/53)
H413 May cause	
long-lasting effects to	
aquatic life (R53) 1	
EUH059 Hazardous	
to the ozone layer	
(R59)	

Notes:

1. Where a substance that is classified with H413 is both non-biodegradable and bioacumulative.