ASOS Requirements

ASOS Chemical policy; RSL

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Market of sale: All

Scope

For ASOS, 'Fashion with Integrity' means managing all aspects of our business transparently and appropriately. We want our customers to enjoy their fashion secure in the knowledge that, when buying from ASOS, they are buying from a responsible company that is actively working to deliver fashion with both integrity and respect for people, animals and the environment, on a sustainable long-term basis.
'Fashion with Integrity' therefore encompasses the chemicals that are used in any aspect of our products, our fabrics, our components and our packaging.

Policy statement

Eliminate Harmful Chemicals
As ASOS continues to build its sustainability commitment, we aim to reduce environmental impact and eliminate the use of harmful chemicals to protect worker / consumer health and the environment.
Compliance to Global Legislations
ASOS has developed a Restricted Substance List (RSL), which outlines the acceptable limits of potentially toxic or harmful substances which can be present in finished products. This RSL has been developed to comply with legislative and regulatory requirements of global trading territories ASOS sells within, including REACH and Proposition 65. ASOS expects all our suppliers (including brands) to supply products that comply with applicable global legislative and regulatory requirements and take responsibility for keeping up to date with any legislative changes. Suppliers should be risk-assessing all materials and product for compliance as
part of product development process.
Industry Collaboration
Chemical compliance and safer chemistry can be overwhelming and we cannot do it alone. We commit to working with our supply chain, industry associations and leaders to accelerate industry efforts towards safer, sustainable chemistry inputs, processes and outputs.

For further information

chemicalmanagement@asos.com

How to use this document

This document explains what we need you to do help us deliver Fashion with Integrity with regard to the chemicals used to manufacture products supplied to ASOS.

Contents

1. RSL (Restricted Substance List) overview

The ASOS RSL;
a) Applies to all fabrics, components, products and packaging.
b) Details the global requirement for restricted substances and respective limits in finished goods. For some high risk materials we require mandatory testing to be submitted per order, this is communicated in our Global Testing Manual.
c) Increasingly there will be a need to apply chemical tests in production, and more of these may become mandatory in future revisions. Suppliers not already doing so should begin to assess their ability to evidence compliance to the ASOS RSL through testing or through other means.
d) **If you become aware that any Product(s) may or do contain any restricted substance(s), please notify ASOS immediately - chemicalmanagement@asos.com and your retail / technical contact**

2. Action for suppliers

ASOS requires suppliers to ensure all products and packaging meet the limits set out in our RSL. To ensure compliant product, suppliers must:
a) Communicate our RSL and ZDHC's MRSL (Manufacturing Restricted Substance List) upstream to material, component and chemical suppliers.
b) Source materials / components responsibly at development / order stage by requesting declarations, recognised certifications and / or test reports from your suppliers showing compliance to our RSL.
c) Map material / component sources to establish compliant sources.
d) Test materials / components for high-risk chemicals and submit mandatory chemical testing to the requirements specified in our Global Testing Manual to your technologist prior to Gold Seal Approval.
e) Highlight any non-conformance with our RSL prior to starting production / delivery.
f) Respond swiftly to ASOS' request to see evidence of compliance in cases of customer complaints or enforcement authority challenge and SVHC data collection.
g) Refer to our Chemical management Manual to implement better chemical management practices

3. Brand / supplier action on Chemical Failures

As soon as the brand / supplier becomes aware of any product that may not comply with the ASOS RSL they must notify ASOS immediately. Providing evidence of compliance and product information required in the format set out below. The brand / supplier must co-operate with all reasonable requests to provide such information as necessary to demonstrate evidence of testing and product compliance.

4. Dealing with complaints and enforcement authority challenges

In the event that:
a) ASOS receives notice that it has resold a product supplied by you that does not comply with our RSL; or
b) ASOS carry out testing on your product and determine a failure to comply with our RSL; or
c) ASOS receives a complaint from our customer,
we will take steps to immediately withdraw the Product from further sale.

2. ASOS Actions on Chemical Failures

ASOS will not accept products, which fail to comply with our RSL and reserves the right to:
a) Reject non-compliant products and require a replacement with compliant products.
b) Require re-working of the products to comply with the ASOS RSL.
c) Test and / or conduct a product recall.
d) Cancel any undelivered order / s.
e) Discount / price reduction of delivered orders.
f) Apply service credits
g) Apply monetary deductions including but not limited to covering the cost of paying fines to an enforcement authority.
h) Account for any lost profits incurred by ASOS including but not limited to as a result of a Product recall and making goodwill payments.
i) Destroy or safely dispose of products (at supplier's cost)
j) Reject stock (supplier to arrange and pay for the cost of storage and collection)
k)Recover associated costs from suppliers

CHEMICAL CLASS	CAS NO	CHEMICAL NAME	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
APEOS	Various	Nonylphenol (NP), mixed isomers	100 mg / kg	EN ISO 21084
APEOS	Various	Octylphenol (OP), mixed isomers	100 mg / kg	EN ISO 21084
APEOS	Various	Nonylphenol ethoxylates (NPEO)	100 mg / kg	EN ISO 21084
APEOS	Various	Octylphenol ethoxylates (OPEO)	100 mg / kg	EN ISO 21084
Azo Amines	92-67-1	4-Aminobiphenyl	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	92-87-5	Benzidine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	95-69-2	4-Chloro-o-toluidine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	91-59-8	2-Naphthylamine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	97-56-3	o-Aminoazotoluene	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	99-55-8	5-Nitro-o-toluidine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	106-47-8	4-Chloroaniline	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	615-05-4	4-Methoxy-m-phenylenediamine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	101-77-9	4,4'-Diaminodiphenylmethane	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	91-94-1	3,3'-Dichlorobenzidine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	119-90-4	3,3'-Dimethoxybenzidine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1

Azo Amines	119-93-7	3,3'-Dimethylbenzidine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	838-88-0	4,4'-Methylenedi-o-toluidine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	120-71-8	6-Methoxy-m-toluidine (p-cresidine)	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	101-14-4	4,4'-Methylene-bis-(2-chloroaniline)	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	101-80-4	4,4'-Oxydianiline	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	139-65-1	4,4'-Thiodianiline	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	95-53-4	o-Toluidine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	95-80-7	4-Methyl-m-phenylenediamine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	137-17-7	2,4,5-Trimethylaniline	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	90-04-0	o-Anisidine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	60-09-3	4-Aminoazobenzene	20 mg / kg	Textile: ISO 14362-3 Leather: ISO 17234-2
Azo Amines	87-62-7	2,6-Xylidine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	95-68-1	2,4-Xylidine	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	3165-93-3	4-chloro-o-toluidinium chloride	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	553-00-4	2-Naphthylammoniumacetate	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1

Azo Amines	39156-41-7	4-methoxy-m-phenylene diammonium sulphate	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Azo Amines	21436-97-5	2,4,5-trimethylaniline hydrochloride	20 mg / kg	Textile: ISO 14362-1 Leather: ISO 17234-1
Biocides	624-49-7	Dimethylfumarate (DMFu or DMF)	0.1 mg / kg	Textiles: EN 17130, other materials: ISO / TS 16186
Biocides	3380-34-5	Triclosan	5 mg / kg	solvent extraction, GC / MS
Biocides	90-43-7	Orthophenylphenol (OPP) & salts	Leather 1000mg / kg Textiles 5 mg / kg	1 M KOH extraction, 16 h at 90°C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070 or EN ISO 13365
Biocides	59-50-7	4-chloro-3-methyphenol (CMK)	5 mg / kg	EN ISO 13365
Biocides	21564-17-0	2-Thio-cyanato-methyl-thiobenzothiazole (TCMTB)	5 mg / kg	EN ISO 13365
Biocides	26530-20-1	2-n-Octyl-4-isothiazolin-3-one (OIT)	5 mg / kg	EN ISO 13365
BPA Bisphenol A	80-05-7	BPA Bisphenol A	Food contact products ≤ 0.05 mg/kg All other products 1 mg / kg	Extraction with THF, LC / MS
Carcinagenic dyes	569-61-9	Basic Red 9	50mg / kg	DIN 54231
Carcinagenic dyes	548-62-9	Basic Violet 3 with ≥ 0,1 % of Michler's ketone	50mg / kg	DIN 54231
Carcinagenic dyes	569-64-2;2437-29-8; 10309-95-2	C.I. Basic Green 4	50mg / kg	DIN 54231

Carcinagenic dyes	6786-83-0	C.I. Solvent Blue 4	50mg / kg	DIN 54231
Carcinagenic dyes	561-41-1	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	50mg / kg	DIN 54231
Carcinagenic dyes	82-28-0	C.I. Disperse Orange 11	50mg / kg	DIN 54231
Carcinagenic dyes	632-99-5	C.I. Basic Violet 14	50mg / kg	DIN 54231
Carcinagenic dyes	60-11-7	4-Dimethylaminoazobenzene (Solvent Yellow 2)	50 mg / kg	DIN 54231
Carcinagenic dyes	2580-56-5	C.I. Basic Blue 26	50mg / kg	DIN 54231
Chlorinated toluenes & benzenes	5216-25-1	a,a,a 4-tetrachlorotoulene	1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	98-07-7	a,a,a-trichlorotoulene	1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	100-44-7	a-chlorotoulene	1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	Various	Monochlorotoluenes	Sum of Chlorinated Benzenes and Toluenes: 1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	Various	Dichlorotoluenes	Sum of Chlorinated Benzenes and Toluenes: 1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	Various	Triochlorotoluenes	Sum of Chlorinated Benzenes and Toluenes: 1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	Various	Tetrachlorotoluenes	Sum of Chlorinated Benzenes and Toluenes: 1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	877-11-2	Pentachlorotoluene	Sum of Chlorinated Benzenes and Toluenes: 1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	Various	Monochlorobenzenes	Sum of Chlorinated Benzenes and Toluenes: 1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	Various	Dichlorobenzenes	Sum of Chlorinated Benzenes and Toluenes: 1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	Various	Trichlorobenzenes	Sum of Chlorinated Benzenes and Toluenes: 1 mg / kg	EN 17137

Chlorinated toluenes & benzenes	Various	Tetrachlorobenzenes	Sum of Chlorinated Benzenes and Toluenes: 1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	608-93-5	Pentachlorobenzene	Sum of Chlorinated Benzenes and Toluenes: 1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	118-74-1	Hexachlorobenzene	Sum of Chlorinated Benzenes and Toluenes: 1 mg / kg	EN 17137
Chlorinated toluenes & benzenes	100-44-8	1,2-Dichlorobenzene	10 mg / kg	EN 17137
Cholorphenols	87-86-5	Pentachlorophenol (PCP)	0.5 mg / kg	1 M KOH extraction, 16 h at 90°C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070
Cholorphenols	4901-51-3	2,3,4,5-Tetrachlorophenol (TeCP)	0.5mg / kg	1 M KOH extraction, 16 h at 90°C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070
Cholorphenols	58-90-2	2,3,4,6-Tetrachlorophenol (TeCP)	0.5mg / kg	1 M KOH extraction, 16 h at 90°C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070
Cholorphenols	935-95-5	2,3,5,6-Tetrachlorophenol (TeCP)	0.5mg / kg	1 M KOH extraction, 16 h at 90°C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070
Cholorphenols	15950-66-0	2,3,4-Trichlorophenol (TriCP)	0.5mg / kg	1 M KOH extraction, 16 h at 90°C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070
Cholorphenols	933-78-8	2,3,5-Trichlorophenol (TriCP)	0.5mg / kg	1 M KOH extraction, 16 h at 90°C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070
Cholorphenols	933-75-5	2,3,6 Trichlorophenol (TrCP)	0.5mg / kg	1 M KOH extraction, 16 h at 90°C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070
Cholorphenols	95-95-4	2,4,5-Trichlorophenol (TriCP)	0.5mg / kg	1 M KOH extraction, 16 h at 90°C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070
Cholorphenols	88-06-2	2,4,6-Trichlorophenol (TriCP)	0.5mg / kg	1 M KOH extraction, 16 h at 90°C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070

Cholorphenols	609-19-8	3,4,5-Trichlorophenol (TriCP)	0.5mg / kg	1 M KOH extraction, 16 h at 90°C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070
Disperse dyes (Carinagenic)	2475-45-8	Disperse Blue 1	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	2475-46-9	Disperse Blue 3	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	3179-90-6	Disperse Blue 7	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	3860-63-7	Disperse Blue 26	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	12222-75-2	Disperse Blue 35	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	12222-97-8	Disperse Blue 102	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	12223-01-7	Disperse Blue 106	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	61951-51-7	Disperse Blue 124	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	23355-64-8	Disperse Brown 1	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	2581-69-3	Disperse Orange 1	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	730-40-5	Disperse Orange 3	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	13301-61-6 12223-33-5 13301-61-6	Disperse Orange 37 / 59 / 76	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	2872-52-8	Disperse Red 1	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	2872-48-2	Disperse Red 11	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	3179-89-3	Disperse Red 17	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	119-15-3	Disperse Yellow 1	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	2832-40-8	Disperse Yellow 3	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	6373-73-5	Disperse Yellow 9	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	12236-29-2	Disperse Yellow 39	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	54824-37-2	Disperse Yellow 49	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	85136-74-9	Disperse Orange 149	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	56548-64-2	Disperse Blue 291	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	128-95-0	Disperse Violet 1	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	122463-28-9	Disperse Violet 93	50mg / kg	DIN 54231
Disperse dyes (Allergenic)	10319-14-9	Disperse Yellow 64	50mg / kg	DIN 54231
Disperse dyes (Carinagenic)	6250-23-3	Disperse Yellow 23	50mg / kg	DIN 54231

Disperse dye	91-22-5	Quinoline	50 mg / kg	EN 17137
Chlorinated Paraffins	85535-84-8	Short Chain Chloroparaffins (SCCP) (C10 - C13)	1000 mg / kg	EN ISO 18219: 2015
Chlorinated Paraffins	85535-85-9	Medium Chain Chloroparaffins (MCCP) (C14 - C17)	1000 mg / kg	EN ISO 18219: 2015
Flame retardants	Multiple	Polybromobiphenyls (PBB)	10 mg / kg	EN ISO 17881-1
Flame retardants	545-55-1	Tris(1-aziridinyl)phosphine oxide) (TEPA)	10 mg / kg	EN ISO 17881-2
Flame retardants	5412-25-9	Bis(2,3-dibromopropyl)phosphate (BIS) (BDBPP)	10 mg / kg	EN ISO 17881-2
Flame retardants	126-72-7	Tris(2,3,-dibromopropyl)phosphate (TRIS)	10 mg / kg	EN ISO 17881-2
Flame retardants	Multiple	Tetrabromodiphenyl ether (TetraBDE)	10 mg / kg	EN ISO 17881-1
Flame retardants	Multiple	Pentabromodiphenyl ether (PentaBDE)	10 mg / kg	EN ISO 17881-1
Flame retardants	Multiple	Hexabromodiphenyl ether (HexaBDE)	10 mg / kg	EN ISO 17881-1
Flame retardants	Multiple	Heptabromodiphenyl ether (HeptaBDE)	10 mg / kg	EN ISO 17881-1
Flame retardants	Multiple	Octabromodiphenyl ether (OctaBDE)	10 mg / kg	EN ISO 17881-1
Flame retardants	1163-19-5	Decabromodiphenyl ether (DecaBDE)	10 mg / kg	EN ISO 17881-1
Flame retardants	115-96-8	Tris(2-chloroethyl)phosphate (TCEP)	10 mg / kg	EN ISO 17881-2
Flame retardants	134237-50-6 134237-51-7 134237-52-8	Hexabromocyclododecane (HBCDD)	10mg / kg	EN ISO 17881-1
Flame retardants	13674-87-8	Tris(1,3-dichloro-isopropyl) phosphate (TDCPP)	10 mg / kg	EN ISO 17881-2

Flame retardants	25155-23-1	Trixylyl phosphate (TXP)	10 mg / kg	EN ISO 17881-2
Flame retardants	36355-01-8	Hexabromobiphenyl	10mg / kg	EN ISO 17881-1
Flame retardants	Multiple	Polychlorinated naphthalenes (PCN)	10mg / kg	EN ISO 17881-1 mod
Flame retardants	79-94-7	Tetrabromobisphenol A (TBBPA)	10 mg / kg	EN ISO 17881-1
Flame retardants	3296-90-0	2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	10 mg / kg	EN ISO 17881-1
Flame retardants	13674-84-5	Tris(1-chloro-2-propyl) phosphate (TCPP)	1000 mg / kg	EN ISO 17881-2
Flame retardants	10043-35-3 11113-50-1	Boric acid	1000 mg / kg	total digestion, ICP / MS
Flame retardants	1330-43-4 12179-04-3 1303-96-4	Disodium tetraborate, anhydrous	1000 mg / kg	total digestion, ICP / MS
Flame retardants	12267-73-1	Tetraboron disodium heptaoxide, hydrate	1000 mg / kg	total digestion, ICP / MS
Flame retardants	1303-86-2	Diboron trioxide	1000 mg / kg	total digestion, ICP / MS
Flame retardants	Multiple	All other Polybrominated diphenyl ether (PBDE)	10 mg.kg	EN ISO 17881-1:2016
Heavy metals	7440-36-0	Antimony (Extractable)	30 mg / kg	Textile EN 16711-2
Heavy metals	7440-38-2	Arsenic (Extractable)	1 mg / kg	Textile EN 16711-2
Heavy metals	7440-38-2	Arsenic (Total)	100 mg / kg	Test method: EN 16711-1
Heavy metals	7440-43-9	Cadmium (Extractable)	0.1 mg / kg	Textile EN 16711-2
Heavy metals	7440-43-9	Cadmium (Total)	100 mg / kg	Test method: EN 16711-1 - textiles EN ISO 17294-2 - Footwear

Heavy metals	7440-47-3	Chromium (Extractable)	2 mg / kg	Textile EN 16711-2
Heavy metals	18540-29-9	Chromium (VI) (Extractable) (Leather)	3mg / kg	EN ISO 17075-1 and EN ISO 17075-2 for confirmation in case the extract causes interference. Alternatively, EN ISO 17075-2 may be used on its own At source of manufacture with ageing: (60° clothing and accessories / 80° Footwear, 5% relative humidity for 24 hrs) After delivery without ageing
Heavy metals	18540-29-9	Chromium (VI) (Extractable) (Textile)	1 mg / kg	Textile EN 16711-2 with EN ISO 17075-1:2017 if Cr is detected
Heavy metals	7440-48-4	Cobalt (Extractable)	4 mg / kg	Textile EN 16711-2
Heavy metals	7440-50-8	Copper (Extractable)	50 mg / kg	Textile EN 16711-2
Heavy metals	7439-92-1	Lead (Extractable)	1 mg / kg	Textile EN 16711-2
Heavy metals	7439-92-1	Lead (Total)	Paint & other surface coating: 90mg / kg PVC: 200mg / kg leather: 300mg / kg Cubic zirconia, glass, rhinestones: 500mg / kg Plastic or rubber jewellery 200 mg / kg All other materials 300mg / kg Crystal glass: Exempt, requires exemption certification	Jewellery: 3052 total digest Non-jewellery: Metal: CPSC-CH-E1001-08.3 Non-metal: CPSC-CH-E1002-08.3 Surface coating: CPSC-CH-E1003-09.1
Heavy metals	7439-92-1	Lead (Release)	0.05 µg/cm2 per hour (equivalent to 0.05	EN16711-3
Heavy metals	7439-97-6	Mercury (Extractable)	0.02 mg / kg	Textile EN 16711-2
Heavy metals	7439-97-6	Mercury (Total)	0.5 mg / kg	Test method: EN 16711-1
Heavy metals	7440-02-0	Nickel (Extractable)	4 mg / kg	Textile EN 16711-2

Heavy metals	7440-02-0	Nickel (Release)	Direct and prolong contact with skin 0.5 μg/cm2/ week; For body piercing 0.2 μg/cm2/week	EN 12472:2005+A1: 2009 (abrasion when coated) EN 1811:2011+A1:2015 (measuring)
Nitrosamines	62-75-9	N-Nitrosodimethylamine (NDMA)	ND 0.5mg / kg	GB / T 24153
Nitrosamines	55-18-5	N-Nitrosodiethylamine (NDEA)	ND 0.5mg / kg	GB / T 24153
Nitrosamines	621-64-7	N-Nitrosodipropylamine (NDPA)	ND 0.5mg / kg	GB / T 24153
Nitrosamines	924-16-3	N-Nitrosodibutylamine (NDBA)	ND 0.5mg / kg	GB / T 24153
Nitrosamines	100-75-4	N-Nitrosopiperidine (NPIP)	ND 0.5mg / kg	GB / T 24153
Nitrosamines	930-55-2	N-Nitrosopyrrolidine (NPYR)	ND 0.5mg / kg	GB / T 24153
Nitrosamines	59-89-2	N-Nitrosomorpholine (NMOR)	ND 0.5mg / kg	GB / T 24153
Nitrosamines	614-00-6	N-Nitroso N-methyl N-phenylamine (NMPhA)	ND 0.5mg / kg	GB / T 24153
Nitrosamines	612-64-6	N-Nitroso N-ethyl N-phenylamine (NEPhA)	ND 0.5mg / kg	GB / T 24153
Organotins	Multiple	Monobutyltin (MBT)	1 mg / kg	ISO TS 16179
Organotins	Multiple	Dibutyltin (DBT)	1 mg / kg	ISO TS 16179
Organotins	Multiple	Tributyltin (TBT)	0.5mg / kg	ISO TS 16179
Organotins	Multiple	Tricyclohexyltin (TCyHT)	1 mg / kg	ISO TS 16179
Organotins	Multiple	Monomethyltin (MMT)	1 mg / kg	ISO TS 16179

Organotins	Multiple	Dimethyltin (DMT)	1 mg / kg	ISO TS 16179
Organotins	Multiple	Trimethyltin (TMT)	1 mg / kg	ISO TS 16179
Organotins	Multiple	Monoctyltin (MOT)	1 mg / kg	ISO TS 16179
Organotins	Multiple	Dioctyltin (DOT)	1 mg / kg	ISO TS 16179
Organotins	Multiple	Trioctyltin (TOT)	1 mg / kg	ISO TS 16179
Organotins	Multiple	Monophenyltin (MPhT)	1 mg / kg	ISO TS 16179
Organotins	Multiple	Diphenyltin (DPhT)	1 mg / kg	ISO TS 16179
Organotins	Multiple	Triphenyltin (TPhT)	0.5 mg / kg	ISO TS 16179
Organotins	Multiple	Tripropyltin (TPT)	1 mg / kg	ISO TS 16179
Organotins	683-18-1	Dibutyltin dichloride (DBTC)	1 mg / kg	ISO TS 16179
Organotins	56-35-9	Bis(tributyltin) oxide (TBTO)	0.5 mg / kg	ISO TS 16179
Organotins	15571-58-1	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	1000 mg / kg	ISO TS 16179
Organotins	N / A	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	1000 mg / kg	ISO TS 16179

PAHs	91-20-3	Naphthalene (NAP)	Long term contact with skin (>30s): 2 mg / kg; Sum of 15 ∑ 10mg/kg Short term contact with skin (<30s): 10mg/kg:, Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis
PAHs	85-01-8	Phenanthrene (PHE)	Long term contact with skin (>30s): ; Sum of Anthracene, Fluoranthene, Phenanthrene, Pyrene ∑ 10mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Sum of Anthracene, Fluoranthene, Phenanthrene, Pyrene ∑ 50mg/kg; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis
PAHs	120-12-7	Anthracene (ANT)	Long term contact with skin (>30s): ; Sum of Anthracene, Fluoranthene, Phenanthrene, Pyrene ∑ 10mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Sum of Anthracene, Fluoranthene, Phenanthrene, Pyrene ∑ 50mg/kg; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis

PAHs	206-44-0	Fluoranthene (FLT)	Long term contact with skin (>30s): ; Sum of Anthracene, Fluoranthene, Phenanthrene, Pyrene ∑ 10mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Sum of Anthracene, Fluoranthene, Phenanthrene, Pyrene ∑ 50mg/kg; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis
PAHs	129-00-0	Pyrene (PYR)	Long term contact with skin (>30s): ; Sum of Anthracene, Fluoranthene, Phenanthrene, Pyrene ∑ 10mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Sum of Anthracene, Fluoranthene, Phenanthrene, Pyrene ∑ 50mg/kg; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis
PAHs	56-55-3	Benzo[a]anthracene (BaA)	Long term contact with skin (>30s): Individually: 0.5 mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Individually: 1 mg/kg;; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis
PAHs	218-01-9	Chrysene (CHR)	Long term contact with skin (>30s): Individually: 0.5 mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Individually: 1 mg/kg;; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis

PAHs	205-99-2	Benzo[b]fluoranthene (BbF)	Long term contact with skin (>30s): Individually: 0.5 mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Individually: 1 mg/kg;; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis
PAHs	205-82-3	Benzo[j]fluoranthene (BjF)	Long term contact with skin (>30s): Individually: 0.5 mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Individually: 1 mg/kg;; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis
PAHs	207-08-9	Benzo[k]fluoranthene (BkF)	Long term contact with skin (>30s): Individually: 0.5 mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Individually: 1 mg/kg;; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis
PAHs	50-32-8	Benzo[a]pyrene (BaP)	Long term contact with skin (>30s): Individually: 0.5 mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Individually: 1 mg/kg;; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis
PAHs	192-97-2	Benzo[e]pyrene (BeP)	Long term contact with skin (>30s): Individually: 0.5 mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Individually: 1 mg/kg;; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis

PAHs	53-70-3	Dibenzo[a,h]anthracene (DBA)	Long term contact with skin (>30s): Individually: 0.5 mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Individually: 1 mg/kg;; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis
PAHs	193-39-5	Indeno[1,2,3-cd]pyrene (IPY)	Long term contact with skin (>30s): Individually: 0.5 mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Individually: 1 mg/kg;; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis
PAHs	191-24-2	Benzo[g,h,i]perylene (BPE)	Long term contact with skin (>30s): Individually: 0.5 mg/kg; Sum of 15 ∑ 10mg / kg Short term contact with skin (<30s): Individually: 1 mg/kg;; Sum of 15 ∑ 50mg / kg	with reference toAfPS GS 2019:01 PAK, GC-MS analysis
PFCs	Multiple	Perflurooctane sulfonates (PFOS) & related substances" as mentioend legally	(1 µg / m²)	EN ISO 23702-1
PFCs	Multiple	Perfluorooctanoic acid (PFOA) it;s salts as mentioend legally	(25 ppb)	EN ISO 23702-1
PFCs	Multiple	Perfluorooctanoic acid (PFOA) related substances" as mentioend legally	ND: Ban (1000 ppm)	EN ISO 23702-1
PFCs	3825-26-1	Ammoniumpentadecafluorootanoate (APFO)	ND: Ban	EN ISO 23702-1
PFCs	376-06-7	Heptacosafluorotetradecanoic acid (PFTeDA)	0.1mg / kg	EN ISO 23702-1
PFCs	2058-94-8	Henicosafluoroundecanoic acid (PFUdA)	0.1mg / kg	EN ISO 23702-1
PFCs	307-55-1	Tricosafluorododecanoic acid (PFDoA)	0.1mg / kg	EN ISO 23702-1

PFCs	375-95-1 21049-39-8 4149-60-4	Perfluorononane Acid (PFNA) and its sodium and ammonium salts	0.1mg / kg	EN ISO 23702-1
PFCs	375-85-9	Perfluoroheptane Acid (PFHpA)	0.1mg / kg	EN ISO 23702-1
PFCs	3830-45-3 335-76-2 3108-42-7	Perfluorodecane Acid (PFDA) its sodium and ammonium salts	0.1mg / kg	EN ISO 23702-1
PFCs	355-46-4	Perfluorohexane Sulfonate (PFHxS) and its salts	0.1mg / kg	EN ISO 23702-1
Phthalates	85-68-7	Benzyl butyl phthalate (BBP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	84-74-2	Dibutyl phthalate (DBP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	117-81-7	Bis(2-ethylhexyl) phthalate (DEHP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389

Phthalates	84-69-5	Diisobutyl phthalate (DIBP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	84-75-3	Di-n-hexyl phthalate (DnHP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	117-82-8	Bis(2-methoxyethyl)phthalate (DMEP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	605-50-5	Di-iso-pentyl phthalate (DIPP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	131-18-0	Di-n-pentyl phthalate (DnPP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	776297-69-9	n-Pentyl-isopentyl phthalate (nPIPP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389

Phthalates	84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	71888-89-6	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	68515-42-4	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	PVC: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	68515-50-4	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DHP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	26761-40-0 / 68515-49-1	Diisodecyl phthalate (DIDP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	28553-12-0 / 68515-48-0	Diisononyl phthalate (DINP)	PVC: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389

Phthalates	117-84-0	Di-n-octyl phthalate (DNOP)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	68515-51-5 68648-93-1	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 No. 201-559-5)	Individual: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	84-61-7	Di-cyclohexyl phthalate (DCHP)	PVC: 500 mg / kg Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	84-66-2	Diethyl phthalate (DEP)	Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	27554-26-3	Di-isooctyl phthalate (DIOP)	Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	131-16-8	Di-n-propyl phthalate (DPRP)	Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	84-76-4	Dinonyl phthalate (DNP)	Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	131-11-3	Dimethylphthalate DMP	Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Phthalates	71850-09-4	Diisohexyl phthalate	Sum of all phthalates 1000 mg / kg	CPSC-CH-C1001-09.4 ISO 14389
Solvents	50-00-0	Formaldehyde	75 mg / kg	Textiles: ISO 14184-1 Leather: ISO 17226-2 (by UV method)

Solvents	75-09-2	Methylene chloride (DCM)	sum of Methylene chloride, 1,2-Dichloroethane, Trichloroethylen, Tetrachloroethylene: 500 mg / kg	Headspace GC-MS
Solvents	107-06-2	1,2-Dichloroethane	sum of Methylene chloride, 1,2-Dichloroethane, Trichloroethylen, Tetrachloroethylene: 500 mg / kg	Headspace GC-MS
Solvents	79-01-6	Trichloroethylene	sum of Methylene chloride, 1,2-Dichloroethane, Trichloroethylen, Tetrachloroethylene: 500 mg / kg	Headspace GC-MS
Solvents	127-18-4	Tetrachloroethylene	sum of Methylene chloride, 1,2-Dichloroethane, Trichloroethylen, Tetrachloroethylene: 500 mg / kg	Headspace GC-MS
Solvents	71-43-2	Benzene	5 mg / kg	Headspace GC-MS
Solvents	127-19-5	N,N-Dimethylacetamide (DMAc)	1000 mg / kg	Textiles: EN 17131 All other matierals: ISO / TS 16189
Solvents	1330-20-7	Xylene	500 mg / kg	Headspace GC-MS
Solvents	95-47-6	o-Xylene	500 mg / kg	Headspace GC-MS
Solvents	108-38-3	m-Xylene	500 mg / kg	Headspace GC-MS
Solvents	106-42-3	p-Xylene	500 mg / kg	Headspace GC-MS
Solvents	75-12-7	Formamide	1000 mg / kg	Textiles: EN 17131 All other matierals: ISO / TS 16189

Solvents	68-12-2	N,N-Dimethylformamide / Dimethylformamide (DMFa or DMF)	100mg / kg; water based pu 500 mg / kg : all other materials	Textiles: EN 17131 All other matierals: ISO / TS 16189
Solvents	95-48-7	o-Cresol	500 mg / kg (sum)	Headspace GC-MS
Solvents	106-44-5	m-Cresol	500 mg / kg (sum)	Headspace GC-MS
Solvents	108-39-4	p-Cresol	500 mg / kg (sum)	Headspace GC-MS
Solvents	106-94-5	1-bromopropane; n-propyl bromide	1000 mg / kg	Headspace GC-MS
Solvents	75-15-0	Carbon Disulphide	1000 mg / kg	Headspace GC-MS
Solvents	872-50-40	N-methyl-2-pyrrolidone (NMP)	1000 mg / kg	ISO / TS 16189
Solvents	56-23-5	Carbon tetrachloride	Sum of: Carbon tetrachloride, Chloroform, 1,1-Dichloroethylene, Pentachloroethane, 1,1,1,2 - Tetrachloroethane, 1,1,2,2 -Tetrachloroethane, Toluene, 1,1,1 Trichloroethane, 1,1,2 Trichloroethane 1000mg / kg	Headspace GC-MS
Solvents	67-66-3	Chloroform	Sum of: Carbon tetrachloride, Chloroform, 1,1-Dichloroethylene, Pentachloroethane, 1,1,1,2 – Tetrachloroethane, 1,1,2,2 -Tetrachloroethane, Toluene, 1,1,1 Trichloroethane, 1,1,2 Trichloroethane 1000mg / kg	Headspace GC-MS

Solvents	75-35-4	1,1-Dichloroethylene	Sum of: Carbon tetrachloride, Chloroform, 1,1-Dichloroethylene, Pentachloroethane, 1,1,1,2 – Tetrachloroethane, 1,1,2,2 -Tetrachloroethane, Toluene, 1,1,1 Trichloroethane, 1,1,2 Trichloroethane 1000mg / kg	Headspace GC-MS
Solvents	76-01-7	Pentachloroethane	Sum of: Carbon tetrachloride, Chloroform, 1,1-Dichloroethylene, Pentachloroethane, 1,1,1,2 – Tetrachloroethane, 1,1,2,2 -Tetrachloroethane, Toluene, 1,1,1 Trichloroethane, 1,1,2 Trichloroethane 1000mg / kg	Headspace GC-MS
Solvents	630-20-6	1,1,1,2 – Tetra chloroethane	Sum of: Carbon tetrachloride, Chloroform, 1,1-Dichloroethylene, Pentachloroethane, 1,1,1,2 – Tetrachloroethane, 1,1,2,2 -Tetrachloroethane, Toluene, 1,1,1 Trichloroethane, 1,1,2 Trichloroethane 1000mg / kg	Headspace GC-MS
Solvents	79-34-5	1,1,2,2 - Tetrachloroethane, 1,1,1 Trichloroethane	Sum of: Carbon tetrachloride, Chloroform, 1,1-Dichloroethylene, Pentachloroethane, 1,1,1,2 – Tetrachloroethane, 1,1,2,2 -Tetrachloroethane, Toluene, 1,1,1 Trichloroethane, 1,1,2 Trichloroethane 1000mg / kg	Headspace GC-MS

Solvents	108-88-3	Toluene	Sum of: Carbon tetrachloride, Chloroform, 1,1-Dichloroethylene, Pentachloroethane, 1,1,1,2 – Tetrachloroethane, 1,1,2,2 -Tetrachloroethane, Toluene, 1,1,1 Trichloroethane, 1,1,2 Trichloroethane 1000mg / kg	Headspace GC-MS
Solvents	79-00-5	1,1,2 Tri chloroethane	Sum of: Carbon tetrachloride, Chloroform, 1,1-Dichloroethylene, Pentachloroethane, 1,1,1,2 – Tetrachloroethane, 1,1,2,2 -Tetrachloroethane, Toluene, 1,1,1 Trichloroethane, 1,1,2 Trichloroethane 1000mg / kg	Headspace GC-MS