



CREW CLOTHING COMPANY

CHEMICAL POLICY, RESTRICTED SUBSTANCES LIST

As Crew Clothing Company continues to build its sustainability commitment, we aim to reduce our environmental impact and eliminate the use of harmful chemicals to protect worker/ consumer health and the environment.

COMPLIANCE TO GLOBAL LEGISLATIONS

Crew Clothing Company 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 the trading territories Crew Clothing Company sells within, including REACH and Proposition 65. Crew Clothing Company expects all our suppliers to supply products that comply with applicable global legislative and regulatory requirements and to 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 the product development process.

RSL (RESTRICTED SUBSTANCE LIST)

The Crew Clothing Company 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.
- c) Crew Clothing Company accepts alternative to testing demonstration of compliance; Oekotex, Bluesign.
- d) If you become aware that any Product(s) may or do contain any restricted substance(s), please notify Crew Clothing Company immediately by emailing your technical contact.

ACTION FOR SUPPLIERS

Crew Clothing Company 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 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 your technologist prior to Gold Seal Approval.
- e) Highlight any non-conformance with our RSL prior to starting production/delivery.
- f) Respond swiftly to Crew Clothing Companies request to see evidence of compliance in cases of customer complaints or enforcement authority challenge.

BRAND/SUPPLIER ACTION ON CHEMICAL FAILURES

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

DEALING WITH COMPLAINTS AND ENFORCEMENT AUTHORITY CHALLENGES

In the event that:

- a) Crew Clothing Company receives notice that it has resold a product supplied by you that does not comply with our RSL; or
- b) Crew Clothing Company carries out testing on your product and determines a failure to comply with our RSL; or
- c) Crew Clothing receives a complaint from our customer, we will take steps to immediately withdraw the Product from further sale

CREW CLOTHING COMPANY ACTIONS ON CHEMICAL FAILURES

Crew Clothing Company 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 Crew Clothing Company 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 Crew Clothing Company 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

CAS NO	CHEMICAL NUMBER	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
Acetophenone and 2- phenyl-2- propanol			
98-86-2 617-94-7	Acetophenone and 2-phenyl-2- propanol	50 mg/kg each	Extraction in acetone or methanol GC/MS, sonication for 30 minutes at 60°C
Aromatic Hydrocarbons			
119-47-1	6,6'-di-tert-butyl-2,2'-methylenedi-p- cresol	1000 MG/KG	Solvent extraction, GC/MS
AP & APEO			
Various	Nonylphenol (NP), mixed isomers	Total APs: 10 mg/kg Total APs + APEOs: 100 mg/kg	EN ISO 21084
Various	Octylphenol (OP), mixed isomers		All materials except Leather: EN ISO 18254-1 Leather: Sample prep and analysis using EN ISO 18218-1 with quantification according to EN ISO 18254-1
Various	Nonylphenol ethoxylates (NPEO)		
Various	Octylphenol ethoxylates (OPEO)		

CAS NO	CHEMICAL NUMBER	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
Azo Amines			
92-67-1	4-Aminobiphenyl	20 MG/KG	
92-87-5	Benzidine		
95-69-2	4-Chloro-o-toluidine		
91-59-8	2-Naphthylamine		
97-56-3	o-Aminoazotoluene		
99-55-8	5-Nitro-o-toluidine		
106-47-8	4-Chloroaniline		
615-05-4	4-Methoxy-m-phenylenediamine		
101-77-9	4,4'-Diaminodiphenyl methane		
91-94-1	3,3'-Dichlorobenzidine		
119-90-4	3,3'-Dimethoxybenzidine		
119-93-7	3,3'-Dimethylbenzidine		
838-88-0	4,4'-Methylenedi-o-toluidine		
120-71-8	6-Methoxy-m-toluidine (p-cresidine)		
101-14-4	4,4'-Methylene-bis-(2-chloroaniline)		
101-80-4	4,4'-Oxydianiline		
139-65-1	4,4'-Thiodianiline		
95-53-4	o-Toluidine		
95-80-7	4-Methyl-m-phenylenedi-amine		
137-17-7	2,4,5-Trimethylaniline		
90-04-0	o-Anisidine		
87-62-7	2,6-Xylidine		
95-68-1	2,4-Xylidine		
3165-93-3	4-chloro-o-toluidinium chloride		
553-00-4	2-Naphthylammoniumacetate		
39156-41-7	4-methoxy-m-phenylene diammonium sulphate		
21436-97-5	2,4,5-trimethylaniline hydro-chloride		
60-09-3	4-Aminoazobenzene		Textile: ISO 14362-3 Leather: ISO 17234-2
Biocides			
624-49-7	Dimethylfumarate (DMFu or DMF)	0.1 mg/kg	Textiles: EN 17130 Other materials: ISO 16186
3380-34-5	Triclosan	5 mg/kg	Solvent extraction, GC/MS
90-43-7	Orthophenylphenol (OPP) & salts	Leather 1000mg/kg Textiles 5 mg/kg	All materials: DIN 50009:2021
59-50-7	4-chloro-3-methyphenol (CMK)	5 mg/kg	EN ISO 13365
21564-17-0	2-Thio-cyanato-methyl-thiobenzothiazole (TC-MTB)	5 mg/kg	
26530-20-1	2-n-Octyl-4-isothiazolin-3-one (OIT)	5 mg/kg	

CAS NO	CHEMICAL NUMBER	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
Bisphenol			
80-05-7	BPA -Bisphenol A	Food contact products · 0.05 mg/kg Items coming in contact with the mouth: 1 mg/kg	Extraction with THF, LC/MS
Carcinogenic dyes			
569-61-9	Basic Red 9	30MG/KG	DIN 54231
548-62-9	Basic Violet 3 with 0,1 % of Michler’s ketone		
569-64-2; 2437-29-8; 1 0309-95-2	C.I. Basic Green 4		
6786-83-0	C.I. Solvent Blue 4		
561-41-1	4,4’-bis(dimethylamino)-4’’-(methylamino)trityl alcohol		
82-28-0	C.I. Disperse Orange 11		
632-99-5	C.I. Basic Violet 14		
60-11-7	4-Dimethylaminoazobenzene (Solvent Yellow 2)		
2580-56-5	C.I. Basic Blue 26		
Chlorinated toluenes & benzenes			
5216-25-1	a,a,a-4-tetrachlorotoluene	1 mg/kg	EN 17137
98-07-7	a,a,a-trichlorotoluene		
100-44-7	a-chlorotoluene		
Various	Monochlorotoluenes	Sum of Chlorinated Benzenes and Toluene’s: 1 mg/kg	
Various	Dichlorotoluenes		
Various	Trichlorotoluenes		
108-90-7	Monochlorobenzenes		
Various	Dichlorobenzenes		
Various	Trichlorobenzenes		
877-11-2	Pentachlorotoluene		
Various	Tetrachlorobenzenes		
608-93-5	Pentachlorobenzene		
118-74-1	Hexachlorobenzene		
Chlorophenols			
87-86-5	Pentachlorophenol (PCP)	0.5 MG/KG	All materials: DIN 50009:2021
4901-51-3	2,3,4,5-Tetrachlorophenol (TeCP)		
58-90-2	2,3,4,6-Tetrachlorophenol (TeCP)		
935-95-5	2,3,5,6-Tetrachlorophenol (TeCP)		
15950-66-0	2,3,4-Trichlorophenol (TriCP)		
933-78-8	2,3,5-Trichlorophenol (TriCP)		
933-75-5	2,3,6 Trichlorophenol (TrCP)		
95-95-4	2,4,5-Trichlorophenol (TriCP)		
88-06-2	2,4,6-Trichlorophenol (TriCP)		
609-19-8	3,4,5-Trichlorophenol (TriCP)		

CAS NO	CHEMICAL NUMBER	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
Disperse dyes (Carcinogenic, Allergenic)			
2475-45-8	Disperse Blue 1	30MG/KG	DIN 54231
2475-46-9	Disperse Blue 3		
3179-90-6	Disperse Blue 7		
3860-63-7	Disperse Blue 26		
12222-75-2	Disperse Blue 35		
12222-97-8	Disperse Blue 102		
12223-01-7	Disperse Blue 106		
61951-51-7	Disperse Blue 124		
23355-64-8	Disperse Brown 1		
2581-69-3	Disperse Orange 1		
730-40-5	Disperse Orange 3		
82-28-0	Disperse Orange 11		
13301-61-6 12223-33-5 13301-61-6	Disperse Orange 37/59/76		
85136-74-9	Disperse Orange 149		
2872-52-8	Disperse Red 1		
2872-48-2	Disperse Red 11		
3179-89-3	Disperse Red 17		
61968-47-6	Disperse Red 151		
119-15-3	Disperse Yellow 1		
2832-40-8	Disperse Yellow 3		
6300-37-4	Disperse Yellow 7		
6373-73-5	Disperse Yellow 9		
6250-23-3	Disperse Yellow 23		
12236-29-2	Disperse Yellow 39		
54824-37-2	Disperse Yellow 49	30MG/KG	DIN 54231
56548-64-2	Disperse Blue 291		
128-95-0	Disperse Violet 1		
122463-28-9	Disperse Violet 93		
10319-14-9	Disperse Yellow 64		
6250-23-3	Disperse Yellow 23		
Quinoline			
91-22-5	Quinoline	50 mg/kg each	DIN 54231
Chlorinated Paraffins			
85535-84-8	Short Chain Chloroparaf-fins (SCCP) (C10 - C13)	1000 mg/kg each	ISO 18219-1 OTHERS: ISO 22818
85535-85-9	Medium Chain Chloroparaf-fins (MCCP) (C14 - C17)	1000 mg/kg each	LEATHER: ISO 18219-2 OTHERS: ISO 22818

CAS NO	CHEMICAL NUMBER	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
Flame retardants			
Multiple	Polybromobiphenyls (PBB)	10MG/KG EACH	EN ISO 17881-1
Multiple	Tetrabromodiphenyl ether (TetraBDE)		
Multiple	Pentabromodiphenyl ether (PentaBDE)		
Multiple	Hexabromodiphenyl ether (HexaBDE)		
Multiple	Heptabromodiphenyl ether (HeptaBDE)		
Multiple	Octabromodiphenyl ether (OctaBDE)		
1163-19-5	Decabromodiphenyl ether (DecaBDE)		
134237-50-6 134237-51-7 134237-52-8	Hexabromocyclododecane (HBCDD)		
Multiple	Polychlorinated naphthalenes (PCN)		
79-94-7	Tetrabromobisphenol A (TB-BPA)		
Multiple	All other Polybrominated diphenyl ether (PBDE)		
545-55-1	Tris(1-aziridinyl)phosphine oxide) (TEPA)		EN ISO 17881-2
5412-25-9	Bis(2,3-dibromopropyl)phosphate (BIS) (BDBPP)		
126-72-7	Tris(2,3,-dibromopropyl)phosphate (TRIS)		
115-96-8	Tris(2-chloroethyl)phosphate (TCEP)		
13674-87-8	Tris(1,3-dichloro-isopropyl) phosphate (TDCPP)		
25155-23-1	Trixylyl phosphate (TXP)	1000MG/KG	
13674-84-5	Tris(1-chloro-2-propyl) phosphate (TCPP)		
10043-35-3 11113-50-1	Boric acid	10MG/KG EACH	TOTAL DIGESTION, ICP/MS
1330-43-4 12179-04-3 1303-96-4	Disodium tetraborate, anhydrous		
12267-73-1	Tetraboron disodium heptaoxide, hydrate		
1303-86-2	Diboron trioxide		
Heavy metals (total)			
7440-38-2	Arsenic (Total)	100 mg/kg	EN 16711-1
7440-43-9	Cadmium (Total)	40 mg/kg	EN 16711-1 (Textiles): EN ISO 17294-2 -(Footwear)

CAS NO	CHEMICAL NUMBER	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
7439-92-1	Lead (Total)	Paint & other surface coating: 90mg/kg PVC: 200mg/kg leather: 300mg/kg Cubic zirconia, glass, hinstones: 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: CP-SC-CH-E1003- 09.1
7439-97-6	Mercury (Total)	0.5 mg/kg	EN 16711-1
Heavy metals (extractable)			
7440-36-0	Antimony (Extractable)	30 mg/kg	TEXTILE EN 16711-2
7440-38-2	Arsenic (Extractable)	1 mg/kg	TEXTILE EN 16711-2
7440-43-9	Cadmium (Extractable)	0.1 mg/kg	TEXTILE EN 16711-2
7440-47-3	Chromium (Extractable)	2 mg/kg	TEXTILE EN 16711-2
18540-29-9	Chromium (VI) (Extractable) (Leather)	3mg/ kg	EN ISO 17075-1 and EN ISO 17075-2 for confirmation in case of interference. At source of manufacture with ageing: (60° clothing and accessories / 80° Footwear, 5% relative humidity for 24 HRS) After delivery without ageing
18540-29-9	Chromium (VI) (Extractable) (Textile)	1 mg/kg	Textile EN 16711-2 with EN ISO 17075-1:2017 if Cr is detected
7440-48-4	Cobalt (Extractable)	4 mg/kg	TEXTILE EN 16711-2
7440-50-8	Copper (Extractable)	50 mg/kg	TEXTILE EN 16711-2
7439-92-1	Lead (Extractable)	1 mg/kg	TEXTILE EN 16711-2
7439-92-1	Lead (Release)	0.05 .g/cm 2 per hour (equivalent to 0.05 .g/g/h)	EN16711-3
7439-97-6	Mercury (Extractable)	0.02 mg/kg	TEXTILE EN 16711-2
7440-02-0	Nickel (Extractable)	4 mg/kg	TEXTILE EN 16711-2
7440-02-0	Nickel (Release)	Direct and prolong contact with skin 0.5 .g/cm2/ week; For body piercing 0.2 .g/cm2/week	EN 12472:2020 (Abrasion when coated) EN 1811:2011 +A1:2015 (Measuring)

CAS NO	CHEMICAL NUMBER	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
Nitrosamines			
62-75-9	N-Nitrosodimethylamine (NDMA)	ND 0.5MG/KG EACH	EN ISO 19577 (WITH LCMS CONFIRMATION)
55-18-5	N-Nitrosodiethylamine (NDEA)		
621-64-7	N-Nitrosodipropylamine (NDPA)		
924-16-3	N-Nitrosodibutylamine (NDBA)		
100-75-4	N-Nitrosopiperidine (NPIP)		
930-55-2	N-Nitrosopyrrolidine (NPYR)		
59-89-2	N-Nitrosomorpholine (NMOR)		
614-00-6	N-Nitroso N-methyl N-pheny-lamine (NMPHA)		
612-64-6	N-Nitroso N-ethyl N-pheny-lamine (NEPHA)		
Organotins			
Multiple	Tributyltin (TBT)	0.5 MG/KG EACH	ISO TS 16179
Multiple	Triphenyltin (TPhT)		
56-35-9	Bis(tributyltin) oxide (TBTO)	1 MG/KG EACH	
Multiple	Monobutyltin (MBT)		
Multiple	Dibutyltin (DBT)		
Multiple	Tricyclohexyltin (TCyHT)		
Multiple	Monomethyltin (MMT)		
Multiple	Dimethyltin (DMT)		
Multiple	Trimethyltin (TMT)		
Multiple	Monooctyltin (MOT)		
Multiple	Diocyltin (DOT)		
Multiple	Triocyltin (TOT)		
Multiple	Monophenyltin (MPhT)		
Multiple	Diphenyltin (DPhT)		
Multiple	Tripropyltin (TPT)		
683-18-1	Dibutyltin dichloride (DBTC)		
15571-58-1	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4- stannatetra-decanoate (DOTE)		
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- ethyl-hexyl)oxy]-2-oxoethyl]thio]-4- octyl-7-oxo-8-oxa-3,5-dithia-4- stannatet-radecanoate (reaction massof DOTE and MOTE)		

CAS NO	CHEMICAL NUMBER	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
Polycyclic Aromatic Hydrocarbons (PAH)			
91-20-3	Naphthalene (NAP)	Long term contact with skin (>30S): 2 mg/kg; Sum of 15 Σ 10mg/kg Short term contact with skin (<30S):10mg/kg;, Sum of 15 Σ 50mg/kg	AFPS GS 2019, EN 17132, OR ISO 16190
85-01-8	Phenanthrene (PHE)	Long term contact with skin (>30s): ; Sum of PHE, ANT, FLT, PYR Σ 10 mg/kg; Sum of 15 Σ 10mg/kg Short term contact with skin (<30s): Sum of PHE, ANT, FTL, PYR Σ 50mg/kg; Sum of 15 Σ 50mg/kg	
120-12-7	Anthracene (ANT)		
206-44-0	Fluoranthene (FLT)		
129-00-0	Pyrene (PYR)		
56-55-3	Benzo[a]anthracene (BaA)	Long term contact with skin (>30s): Individually: 0.5 mg/kg; Sum of 15 Σ 10mg/kg Short term contact with skin (<30s): Individually: 1 mg/kg;; Sum of 15 Σ 50mg/kg	
218-01-9	Chrysene (CHR)		
205-99-2	Benzo[b]fluoranthene (BbF)		
205-82-3	Benzo[j]fluoranthene (BjF)		
207-08-9	Benzo[k]fluoranthene (BkF)		
50-32-8	Benzo[a]pyrene (BaP)		
192-97-2	Benzo[e]pyrene (BeP)		
53-70-3	Dibenzo[a,h]anthracene (DBA)		
193-39-5	Indeno[1,2,3-cd]pyrene (IPY)		
191-24-2	Benzo[g,h,i]perylene (BPE)		
Per- and Polyfluoroalkyl Substances (PFAS)			
Multiple	Perfluorooctane sulfonates (PFOS) & related substances" as mentioend legally	(1 MG/M.)	EN ISO 23702-1 EN 17681-1, -2
Multiple	Perfluorooctanoic acid (PFOA) it;s salts as mentioend legally	(25 PPB)	
Multiple	Perfluorooctanoic acid (PFOA) related substances" as mentioend legally	ND: Ban (1000 PPB)	
3825-26-1	Ammoniumpentadecafluorootano ate (APFO)	ND: BAN	

CAS NO	CHEMICAL NUMBER	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
376-06-7	Heptacosafuorotetradecanoic acid (PFTeDA)	SUM OF PFTEDA, PFUDA, PFDOA, PFNA, PFDA, PFTR-DA: PF-3,7-DMOA: 25 PPB Related substances 260 ppb	EN ISO 23702-1 EN 17681-1, -2
2058-94-8	Henicosafuoroundecanoic acid (PFUdA)		
307-55-1	Tricosafuorododecanoic acid (PFDoA)		
375-95-1 21049-39-8 4149-60-4	Perfluorononane Acid (PFNA) and its sodium and ammonium salts		
3830-45-3 335-76-2 3108-42-7	Perfluorodecane Acid (PFDA) its sodium and ammonium salts		
72629-94-8	Pentacosafuorotridecanoic acid (PFTrDA)		
172155-07-6	Perfluoro-3-7-dimethyloctanecarboxylate (PF-3,7-DMOA)		
375-85-9	Perfluoroheptane Acid (PFHpA)	0.1mg/kg	
355-46-4	Perfluorohexane Sulfonate (PF-HxS) and its salts	25 ppb Related substances: 1 mg/kg	
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
84-74-2	Dibutyl phthalate (DBP)		
117-81-7	Bis(2-ethylhexyl) phthalate (DEHP)		
84-69-5	Diisobutyl phthalate (DIBP)		
84-75-3	Di-n-hexyl phthalate (DnHP)		
117-82-8	Bis(2-methoxyethyl)phthalate (DMEP)		
605-50-5	Di-iso-pentyl phthalate (DIPP)		
131-18-0	Di-n-pentyl phthalate (DnPP)		
776297-69-9	n-Pentyl-isopentyl phthalate (nPIPP)		
84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)		
71888-89-6	1,2-Benzenedicarboxylic acid, di- C6-8-branched alkyl esters, C7-rich (DIHP)		
68515-42-4	1,2-Benzenedicarboxylic acid, di- C7-11-branched and linear alkyl esters (DHNUP)		
68515-50-4	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DHP)		
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
28553-12-0 / 68515-48-0	Diisononyl phthalate (DINP)		
117-84-0	Di-n-octyl phthalate (DNOP)		
68515-51-5 68648-93-1	1,2-benzenedicarboxylic acid, di- C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixeddecyl and hexyl and octyl diesters with · 0.3% of dihexyl phthalate (EC No. 201-559-5)		
84-61-7	Di-cyclohexyl phthalate (DCHP)		

CAS NO	CHEMICAL NUMBER	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
84-66-2	Diethyl phthalate (DEP)	Sum of all phthalates 1000 mg/kg	CPSC-CH-C1001- 09.4 ISO 14389
27554-26-3	Di-isooctyl phthalate (DIOP)		
131-16-8	Di-n-propyl phthalate (DPRP)		
84-76-4	Dinonyl phthalate (DNP)		
131-11-3	Dimethylphthalate DMP		
71850-09-4	Diisohexyl phthalate		
Solvents			
50-00-0	Formaldehyde	75 mg/kg ND (16 mg/kg) Babies	Textiles: ISO 14184-1 Leather: ISO 17226-2 (by UV method) with EN ISO 17226-1 confirmation method in case of interferences
75-09-2	Methylene chloride (DCM)	sum of Methylene chloride, 1,2- Dichloroethane, Trichloro- ethylen, Tetrachloroethylene: 500 mg/kg	HEADSPACE GC- MS
107-06-2	1,2-Dichloroethane		
79-01-6	Trichloroethylene		
127-18-4	Tetrachloroethylene		
71-43-2	Benzene	5 mg/kg	
1319-77-3	Xylene (ortho-, meta-, para)	Sum of Xylene (ortho-, meta-, para: 500 mg/kg	
106-94-5	1-bromopropane; n-propyl bromide	1000 mg/kg	
75-15-0	Carbon Disulphide	1000 mg/kg	
127-19-5	N,N-Dimethylacetamide (DMAc)	1000 mg/kg	Textiles: EN 17131 All other materials: ISO 16189
75-12-7	Formamide	1000 mg/kg	
68-12-2	N,N-Dimethylformamide / Dimethylformamide (DMFa or DMF)	100mg/kg; water based pu 500 mg/kg : all other materials	
872-50-40	N-methyl-2-pyrrolidone (NMP)	1000 mg/kg	
56-23-5	Carbon tetrachloride	1000mg/kg (sum)	HEADSPACE GC- MS
67-66-3	Chloroform		
75-35-4	1,1-Dichloroethylene		
76-01-7	Pentachloroethane		
630-20-6	1,1,1,2 - Tetrachloroethane		
71-55-6	1,1,1- Trichloroethane		
79-34-5	1,1,2,2 -Tetrachloroethane,		
108-88-3	Toluene		
79-00-5	1,1,2 Trichloroethane		
108-94-1	Cyclohexanone		
100-41-4	Ethylbenzene		

REQUIREMENTS FOR SUNGLASSES

CAS NO	CHEMICAL NAME	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
Heavy metals			
7440-02-0	Nickel (Release)	Direct and prolong contact with skin 0.5 ·g/cm2/ week; For body piercing 0.2 ·g/cm2/week	EN 12472:2020 (Abrasion when coated) EN 1811:2011 +A1:2015 (Measuring)
7440-43-9	Cadmium (Total)	40 mg/kg	EN 16711-1
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: CP-SC-CH-E1003- 09.1
7439-92-1	Lead (Release)	0.05 ·g/cm2 per hour (equivalent to 0.05·g/g/h)	EN16711-3

CAS NO	CHEMICAL NAME	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
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
84-74-2	Dibutyl phthalate (DBP)		
117-81-7	Bis(2-ethylhexyl) phthalate (DEHP)		
84-69-5	Diisobutyl phthalate (DIBP)		
84-75-3	Di-n-hexyl phthalate (DnHP)		
117-82-8	Bis(2-methoxyethyl)phthalate (DMEP)		
605-50-5	Di-iso-pentyl phthalate (DIPP)		
131-18-0	Di-n-pentyl phthalate (DnPP)		
776297-69-9	n-Pentyl-isopentyl phthalate (nPIPP)		
84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)		
71888-89-6	1,2-Benzenedicarboxylic acid, di- C6-8-branched alkyl esters, C7-rich (DIHP)		
68515-42-4	1,2-Benzenedicarboxylic acid, di- C7-11-branched and linear alkyl esters (DHNUP)		
68515-50-4	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DHP)		
26761-40-0 / 68515-49-1	Diisodecyl phthalate (DIDP)		
28553-12-0 / 68515-48-0	Diisononyl phthalate (DINP)		
117-84-0	Di-n-octyl phthalate (DNOP)		
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)		
84-61-7	Di-cyclohexyl phthalate (DCHP)	Sum of all phthalates 1000 mg/kg	
84-66-2	Diethyl phthalate (DEP)		
27554-26-3	Di-isooctyl phthalate (DIOP)		
131-16-8	Di-n-propyl phthalate (DPRP)		
84-76-4	Dinonyl phthalate (DNP)		
131-11-3	Dimethylphthalate DMP		
71850-09-4	Diisohexyl phthalate		

CAS NO	CHEMICAL NAME	MAXIMUM LIMIT IN FINISHED PRODUCT	TEST METHOD
Polycyclic Aromatic Hydrocarbons (PAH)			
91-20-3	Naphthalene (NAP)	Long term contact with skin (>30s): 2 mg/kg; Sum of 15 Σ 10mg/kg	AFPS GS 2019, EN 17132, OR ISO 16190
85-01-8	Phenanthrene (PHE)	skin (>30s): ; Sum of ANT, FLT, PHE, PYR Σ 10 mg/kg; Sum of 15 Σ 10mg/kg	
120-12-7	Anthracene (ANT)		
206-44-0	Fluoranthene (FLT)		
129-00-0	Pyrene (PYR)		
56-55-3	Benzo[a]anthracene (BaA)	Long term contact with skin (>30s): Individually: 0.5 mg/kg; Sum of 15 Σ 10mg/kg	
218-01-9	Chrysene (CHR)		
205-99-2	Benzo[b]fluoranthene (BbF)		
205-82-3	Benzo[j]fluoranthene (BjF)		
207-08-9	Benzo[k]fluoranthene (BkF)		
50-32-8	Benzo[a]pyrene (BaP)		
192-97-2	Benzo[e]pyrene (BeP)		
53-70-3	Dibenzo[a,h]anthracene (DBA)		
193-39-5	Indeno[1,2,3-cd]pyrene (IPY)		
191-24-2	Benzo[g,h,i]perylene (BPE)		

In case of additional materials, such as textile, or leather, requirements for apparel apply as well, as given above.

Sunglasses as well as Blue Light glasses are classified as PPE (Personnel Protection Equipment). Those articles have to fulfil the requirements of EN ISO 12312-1. PPE has to have a UKCA (in EU: CE) label. Please note (EU) 2016/425.

Sunglasses should have a warning label “Don’t look directly into sunlight”

Reading aids are considered as medical devices and have to fulfil the requirements of EN 14139. Please note (EU) 2017/745. Packaging of reading aids should have an indication of the strength. Indication that certain articles should not be used in road traffic

REQUIREMENTS FOR WATER BOTTLES

REQUIREMENT	BASIS	TEST METHOD	MAXIMUM LIMIT
Overall Migration	EC 1935/2004; EC 10/2011	EN 1186	Depends on the product 10 mg/dm ² or 60 mg/kg
Special migration	EC 1935/2004; EC 10/2011; 85/500/EEC	EN 13130 PARTS 1 – 28	Depends on the product
Sensory test	EC 1935/2004	DIN 10955	GRADE 2.5
Metal migration	EC 10/2011 Council of Europe's policy statements	EN 1388-1	Depends on the product & material
Phthalates	EC 1907/2006 ANNEX XVII,	Extraction with organic solvent GC or LC/MS analysis EN ISO 14389	BBP, DEHP, DINP, DIDP: 0,1%; DBP: 0,05%
Nickel release	EC 1907/2006 Anhang XVII	EN 1811	0,5 mg/cm ² /WEEK
Cadmium, total content (plastic)	EC 1907/2006 ANNEX XVII	EN 16711-1	100 MG/KG
Lead, total content (plastic)	EC 1907/2006 ANNEX XVII	EN 16711-1	100 MG/KG
PAH	Recommendation	AFPS GS:2019 METHOD	1 MG/KG
Bisphenol A migration	(EU) 2018/213	CEN/TS 13130-13	SML: 0,05 MG/KG
Bisphenol A content		Extraction with organic solvent, GC/MS	France only: not detected
Silicone – Volatile organic Matter (VOM)	Recommendation	200 °C, 4 hours also applicable to products used at low temperatures	0,3 %
Pentachlorophenol – Wood	EU 2019/1021	DIN 50009	5 MG/KG
Formaldehyde specific migration – Wood	LFGB	CEN/TS 13130-23	15 MG/KG