



ASSOCIATION POUR L'ASSURANCE QUALITÉ
DES FABRICANTS DE BRACELETS CUIR

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Replace LIS008_06

RESTRICTED SUBSTANCES LIST FOR TEXTILES AND THREADS

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Written by	Quality review (signature/date)  30-Jul-2024	Process owner (signature/date)  30-Jul-2024
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Change log

Version	Date	Modification
06	12Apr23	Revision: Decision TWG 17Oct22 – action CQI-22-059a - Suppression of "Textile for inside" scheme Decision TWG by mail 31Mar23– action CQI-23-081c - Aromatic Amines: Suppression of Polymeric MDA - Aromatic amines - Correction of name for substance with CAS 90-04-4 - Carcinogenic and allergenic dyes- move into an option for colored textiles - Carcinogenic and allergenic dyes - complete review of the list - Flame retardants - suppression - Metals - Suppression of total metals (Cd, As, Cr, As) - Metals - Change of limit for total Lead (ORRChim disposition 2.16, 3ter.1 and 3ter.2) - Metals - Change of method for total metal determination - Phenols - Precision of CAS number for isononylphenol and isononylphenol ethoxylated - Phenols - Suppression of PTPP and 4-HP - PFAS - Complete review of the list - PAHs - Correction of CAS number for anthracene (CQI-22-026c)
07	05Aug24	Revision: Exceptional no validation by Technical WG (summer break period) - Scope - introduction of definitions - Entry 72 of REACH.- New chapter for legal basis of integration in the scope of this entry of Annex XVII of REACH - Bisphenols - Suppression of restriction project as a legal reference and add of ISO method - Metals - Suppression of total Tin (add of organostannic compounds in the list) and add of Antimony - PFAS - EN 17681 for all PFAS testing – Add of PFHxS & related compounds – suppression of PFBS, PFHxA and C9-C14 PFAS - Phthalates - Add of DIOP - SVHCs - new family with resorcinol and bumetrizole - Organostannic compounds – option integrated to the list - Option for colored textiles - Suppression of the exemption for black/grey textiles - Add 2 notes for aromatic amines (entry 72) and Chromium (VI) related compounds at the end of the document

Associated document (level 1)

Document	Title
MAQ016	Chemical Compliance Process

Associated document (level 2)

Document	Title
PRO013	Textiles and threads Quality Control
PRO007	Control Scheme for Insides

Associated document (level 3)*

Document	Title
-	-

* Some internal documents are not disclosed

Scope of the document

This document defines the list of restricted chemical substances and testing requirements for textiles in the context of leather bracelet.

Textiles are materials which could be used in different layers of a watch bracelet.

We intend by **Textiles used for top**, all textiles, woven or nonwoven, located on the top layer of the bracelet. Those textiles include “fruit textiles” (apple, pineapple, pear, ...). In compliance with ISO 15115, AQC do not considers these materials as leather because they are not from animal origin.

We intend by **Textiles used for insides**, all textiles, woven or nonwoven, located in the inner layer of the bracelet. Those textiles include, for instance, tearproof materials and microfibers (padding).

AQC considers **cork** (used sporadically as a top material or padding) as a non-woven textile.

For the definition of the limits present in this Restricted Substances list (RSL), AQC takes into consideration all the current international regulations for dangerous substances available and select the strictest limit. The list of chemicals present in this document has been selected on a risk-based approach completed by AQC experience and knowledge.

International regulations mentioned in this document are specified in the table below

Abbreviation	Regulation	Country	Comment
EU PIC	Regulation (EU) 649/2012 concerning the export and import of hazardous chemicals	European Union	includes chemicals of Annexe III of Rotterdam Convention
EU POP	Regulation (EU) 2019/1021 of the European Parliament and of the Council on persistent organic pollutants	European Union	-
GB 18401	National general safety code for textile products	China	-
JP112	Law on Control of Household Products Containing Harmful Substances	Japan	-
OChim	Ordinance on Protection against Dangerous Substances and Preparations	Switzerland	-
ORRChim	Ordinance on the Reduction of Risks relating to the Use of Certain Particularly Dangerous Substances, Preparations and Articles	Switzerland	-
Proposition 65	Safe Drinking Water and Toxic Enforcement Act	USA (California)	-
QB/T 2540	Leather Bracelets	China	Voluntary norm
REACH XIV	Regulation (EC) no 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)	European Union	Annex XIV Substances subject to authorisation
REACH XVII			Annex XVII Substances subject to restriction
REACH SVHC			Substances of Very High Concern

Specific AQC consideration

In the column for regulation, “AQC” stands for extra-regulatory limit set by AQC in a pro-active way:

- “AQC” alone is applied for substances without known regulation.
For some substances, AQC performs testing without limit (for information) or with a limit concentration.
- (AQC) after a regulation indicate that the scope has been enlarged to textile by AQC or that the limit applied by AQC is lower than requested by the more stringent regulation.

Entry 72 of Annex XVII of REACH

As precisely described in the *EXPLANATORY GUIDE ON THE RESTRICTION ON CMRs 1A and 1B IN TEXTILES AND CLOTHING* endorsed by CARACAL on 27 June 2018 [CA/44/2018], watch bracelets (“wristwatch straps”) are in the scope of entry 72.

In compliance with Q&A 1805 version 1.0 of 02 June 2021, any material that enters the composition of an article in contact with human skin under normal and reasonably foreseeable conditions of use falls into the scope of this entry (cf extract below).

Entry 72 of Annex XVII to REACH – CMR substances in clothing, other textile

▼ **Does the restriction in entry 72 on specific substances which are carcinogenic, mutagenic and toxic to reproduction apply to clothing or related accessories such as rainwear, accessories or footwear mainly made of plastic material or synthetic leather?**

Yes. The European Commission has published an [explanatory guide](#) concerning the restriction under Entry 72 of Annex XVII to REACH aiming to clarify the scope of the articles intended to be covered by the restriction. It provides a non-exhaustive list of articles which are considered to be within the scope of the restriction and those that are not. The raw material of articles is not a determining factor for the application of the restriction, but rather the nature of the article in question, i.e. is it clothing, a related accessory, a textile other than clothing which under normal or reasonably foreseeable conditions of use comes into contact with human skin to an extent similar to clothing or footwear. Raincoats are explicitly mentioned as an example of articles covered by the restriction in the explanatory guide. According to paragraph 3 of the entry, the restriction does not apply to clothing, related accessories, footwear, or parts of clothing, related accessories or footwear, made exclusively of natural leather, fur or hide. It does not apply either to non-textile fasteners and non-textile decorative attachments.

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AQC considers the **textiles for top** to enter in contact with human skin (free loop) and **threads** to be in contact with skin because of the free loop and the sewing on the lining side and the

Threads could be present on the external and internal sides of the bracelet and consequently could have a direct contact with human skin contact.

AQC considers the **textiles used for insides** not to be in contact with skin. Nevertheless, as they are present in articles in prolonged contact with human skin, the requirement about “homogenous materials” mentioned in article 1 of the entry 72 applies.

Therefore, AQC includes **all textiles and threads** in the scope of the restriction entry 72 of the annex XVII of REACH

Limit for REACH and AGEV SVHCs

Article 33(1) of REACH requires that a supplier of articles containing a SVHC included in the Candidate List for authorization in a concentration above 0.1% (w/w) has to provide relevant safety information to the recipients of these articles (Watch Brands). Upon request of a consumer, Watch Brands have to provide relevant safety information about the SVHC to this consumer (Article 33(2) of REACH). This requirement is also present in Swiss ordinance OChim, article 71.

In article L451-9-1 of AGEV law, it is requested to inform consumers through a labelling of the product, any presence of dangerous substance (also called SVHCs in this document for practical reasons). Limit concentration for information of the consumer is 0.1% (w/w).

There is no regulatory requirement to limit SVHCs content in articles to 1'000 mg/kg. Nevertheless, AQC Bracelet manufacturers limit all SVHC listed substances to 1'000 mg/kg in leather bracelet and its components before manufacturing.

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AQC limit for Proposition 65

For substances listed in the Proposition 65 California, AQC limits consider the limit in articles present in the case law of Proposition 65 and more precisely the limits indicated in the reformulation injunctions of settlements and judgements.

AQC considers in case law: leather articles and related articles to the watch bracelet but also any other article with a related exposure scenario (skin contact).

For substances without any indication of a limit in articles, AQC performs testing of a risk-based selection of substances potentially used for leather production and keeps available for Watch Brands all the data as a support for labelling decision.

General requirements for laboratory testing

- Sample picture

Picture of textile samples or threads roll received by the laboratory have to be taken **without** plastic bag.

- Sample preparation

Textile samples are prepared as indicated in the methods indicated.
AQC does not have specific requirements.

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Substance family	Substance Name	Abbr.	CAS Number	AQC limit	Strictest Regulation	Test Method
Aldehyde	Formaldehyde	-	50-00-0	75 mg/kg	JP 112	ISO 14184-1
Aromatic amines	Biphenyl-4-ylamine	-	92-67-1	30 mg/kg each	REACH XVII Entry 43 & Entry 72 ¹	ISO 14362
	Benzidine	-	92-87-5			
	4-chloro-o-toluidine ¹	-	95-69-2			
	2-naphthylamine ¹	-	91-59-8			
	4-o-tolylazo-o-toluidine	-	97-56-3			
	5-nitro-o-toluidine	-	99-55-8			
	4-chloroaniline	-	106-47-8			
	4-methoxy-m-phenylenediamine ¹	-	615-05-4			
	4,4'-methylenedianiline	MDA	101-77-9			
	3,3'-dichlorobenzidine	-	91-94-1			
	3,3'-dimethoxybenzidine	-	119-90-4			
	4,4'-bi-o-toluidine	-	119-93-7			
	4,4'-methylenedi-o-toluidine	-	838-88-0			
	6-methoxy-m-toluidine	-	120-71-8			
	4,4'-methylenebis[2-chloroaniline]	MOCA	101-14-4			
	4,4'-oxydianiline	-	101-80-4			
	4,4'-thiodianiline	-	139-65-1			
	o-toluidine	-	95-53-4			
	4-methyl-m-phenylenediamine	-	95-80-7			
	2,4,5-trimethylaniline ¹	-	137-17-7			
	o-anisidine	-	90-04-0			
	4-aminoazobenzene	-	60-09-3			
	2,6-xylidine	-	87-62-7			
2,4-xylidine	-	95-68-1				
Formaldehyde, oligomeric reaction products with aniline	Polymeric MDA	25214-70-4	for information	REACH XVII proposal (AQC)		
4-chloro-o-toluidinium chloride		3165-93-3				
2-naphthylammoniumacetate		553-00-4		REACH XVII entry 72		
4-methoxy-m-phenylene diammonium sulphate		39156-41-7				
2,4,5-trimethylaniline hydrochloride		21436-97-5				
p-phenylenediamine	PPD	106-50-3				
Aniline	-	62-53-3				
Biocides	Dimethylfumurate	DMFu	624-49-7	0.1 mg/kg	REACH XVII Entry 61 ORRChim	ISO 16186
Bisphenols	4,4'-isopropylidenediphenol (bisphenol A)	BPA	80-05-7	1000 mg/kg	REACH SVHC	ISO 23377
	4,4'-(1-methylpropylidene)bisphenol (bisphenol B)	BPB	77-40-7	1000 mg/kg		
	4,4'-sulphonyldiphenol (bisphenol S)	BPS	80-09-1	1000 mg/kg		
	4,4'-[2,2,2-trifluoro-1 (trifluoromethyl)ethylidene]diphenol (bisphenol AF)	BPAF	1478-61-1	for information	AQC	
	2,2'-methylenediphenol (bisphenol F)	BPF	2467-02-9			
Chlorophenols	Pentachlorophenol	PCP	87-86-5	0.5 mg/kg	ORRChim	ISO 17070
	Tetrachlorophenols 2,3,4,5- 2,3,4,6- 2,3,5,6-	TeCP	25167-83-3 4901-51-3 58-90-2 935-95-5	0.5 mg/kg	ORRChim	
	2,4,6-Trichlorophenols	TCP	88-06-2	for information	Prop65	
Chlorotoluenes	α , α , α , 4-tetrachlorotoluene; p-chlorobenzotrichloride	-	5216-25-1	1 mg/kg	REACH XVII Entry 72	EN 17317
	α , α , α -trichlorotoluene; benzotrichloride	-	98-07-7	1 mg/kg		
	α -chlorotoluene; benzyl chloride	-	100-44-7	1 mg/kg		

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Substance family	Substance Name	Abbr.	CAS Number	AQC limit	Strictest Regulation	Test Method
Chlorine compounds	Alkanes, C10-13, chloro	SCCP	85535-84-8	1000 mg/kg	REACH SVHC ORRChim	ISO 22818
	Alkanes, C14-17, chloro	MCCP	85535-85-9	1'000 mg/kg	REACH SVHC	
heterocycle	Quinoline	-	91-22-5	50 mg/kg	REACH XVII Entry 72	Methanol or THF extraction HPLC-MS/MS or HPLC-DAD
Metals	Lead	Pb	7439-92-1	500 mg/kg	ORRChim	EN 16711-1
	Mercury	Hg	7439-97-6	1 mg/kg	JP 112	
	Chromium (VI) and its related substances ²	Cr(VI)	18540-29-9	1 mg/kg	REACH XVII Entry 72	Adapted ISO 17075-2
	Cadmium (extractable)	Cd	7440-43-9	1 mg/kg		
	Arsenic (extractable)	As	7440-38-2	1 mg/kg		
	Lead (extractable)	Pb	7439-92-1	1 mg/kg		
	Antimony extractable	Sb	7440-36-0	30 mg/kg	QB/T 2540	EN 16711-2
	Cobalt (extractable)	Co	7440-84-4	for information	REACH XVII Proposal for allergens (AQC)	
	Nickel (extractable)	Ni	7440-02-0	for information	AQC	
Chromium (extractable)	Cr	7440-47-3	for information			
Phenols	Octylphenols - 4-(1,1,3,3-tetramethylbutyl)phenol	OP (PTOP)	- 140-66-9	100 mg/kg (sum OP+OPEO)	REACH SVHC OChim Annex XIV (AQC) Sunset date 01.2021	ISO 18218
	Octylphenol ethoxylates - 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	OPEO -	9002-93-1 2497-59-8 2315-67-5 2315-61-9			
	Nonylphenols - 4-Nonylphenol, branched and linear	NP 4-NP	25154-52-3 several CAS	100 mg/kg (sum NP+NPEO)	REACH SVHC Annex XIV (AQC) Sunset date 01.2021	
	Nonylphenol Ethoxylates - 4-Nonylphenol, branched and linear, ethoxylated Incl. isononylphenol	NPEO (4-NPEO)	- several CAS 11066-49-2			



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Substance family	Substance Name	Abbr.	CAS Number	AQC limit	Strictest Regulation	Test Method
PFOS, its salts and related substances	Perfluorooctanesulfonic acid	PFOS	1763-23-1	Coated textile < 1 µg/m ² (sum)	EU POP ORRChim	EN 17681
	Perfluorooctanesulfonic acid, potassium salt	PFOS-K	2795-39-3			
	Perfluorooctanesulfonic acid, lithium salt	PFOS-Li	29457-72-5			
	Perfluorooctanesulfonic acid, ammonium salt	PFOS-NH ₄	29081-56-9			
	Perfluorooctane sulfonate diethanolamine salt	PFOS-NH(OH) ₂	70225-14-8			
	Perfluorooctanesulfonic acid, tetraethylammonium salt	PFOS-N(C ₂ H ₅) ₄	56773-42-3			
	N-Ethylperfluoro-1-octanesulfonamide	N-Et-FOSA	4151-50-2			
	N-Methylperfluoro-1-octanesulfonamide	N-Me-FOSA	31506-32-8			
	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol	N-Et-FOSE	1691-99-2			
	2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol	N-Me-FOSE	24448-09-7			
	Perfluoro-1-octanesulfonyl fluoride	POSF	307-35-7			
	Perfluorooctane sulfonamide	PFOSA	754-91-6			
1-Decanaminium, N-decyl-N,N-dimethyl-, salt with heptadecafluorooctane-1-sulfonic acid (1:1)	-	251099-16-8				
PFOA and its salts	Perfluorooctanoic acid	PFOA	335-67-1	0.025 mg/kg (sum)	EU POP ORRChim	EN 17681
	Sodium perfluorooctanoate	PFOA-Na	335-95-5			
	Potassium perfluorooctanoate	PFOA-K	2395-00-8			
	Silver perfluorooctanoate	PFOA-Ag	335-93-3			
	Perfluorooctanoyl fluoride	PFOA-F	335-66-0			
	Ammonium pentadecafluorooctanoate	APFO	3825-26-1			
	Chromium(3+) perfluorooctanoate	-	68141-02-6			
	Ethanaminium, N,N,N-triethyl-, salt with pentadecafluorooctanoic acid (1:1)	-	98241-25-9			
PFOA related substances	1H,1H,2H,2H-Perfluorodecanesulfonic acid	8:2 FTS	39108-34-4	1 mg/kg (sum)	EU POP ORRChim	EN 17681
	Methyl perfluorooctanoate (Me-PFOA)	Me-PFOA	376-27-2			
	Ethyl perfluorooctanoate (Et-PFOA)	Et-PFOA	3108-24-5			
	2-Perfluorooctylethanol (8:2 FTOH)	8:2 FTOH	678-39-7			
	1H,1H,2H,2H-Perfluorodecyl acrylate	8:2 FTA	27905-45-9			
	1H,1H,2H,2H-Perfluorodecyl methacrylate	8:2 FTMA	1996-88-9			
	2H,2H,3H,3H-Perfluoroundecanoic acid	4HPFUnA	34598-33-9			
	Perfluoro-3,7-dimethyloctanoic acid	PF3,7 DMOA	172155-07-6			
	1H,1H,2H,2H-Perfluorododecyl acrylate	10:2 FTA	17741-60-5			
	1H,1H,2H,2H-Perfluorododecan-1-ol	10:2 FTOH	865-86-1			
C4-C7 PFAS	Perfluorohexane-1-sulphonic acid	PFHxS	355-46-4	0.025 mg/kg (sum)	EU POP ORRChim	EN 17681
	Perfluorohexane sulfonyl fluoride	PFHxSF	423-50-7			
	Perfluorohexane sulfonate ammonium salt	PFHxS-NH ₄	68259-08-5			
	Potassium N-ethyl-N-[(tridecafluorohexyl)sulphonyl]glycinate	-	67584-53-6	1 mg/kg (sum)		
	Tridecafluoro-N-methylhexanesulphonamide	-	68259-15-4			
	Perfluorohexanesulfonamide	-	41997-13-1			
	Perfluoroheptanoic acid and its ammonium, sodium and potassium salts	PFHpA	375-85-9 6130-43-4 20109-59-5 21049-36-5			

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Substance family	Substance Name	Abbr.	CAS Number	AQC limit	Strictest Regulation	Testing Method
Phthalates	Diisobutyl phthalate	DIBP	84-69-5	1000 mg/kg (sum)	REACH XVII entry 51	ISO 14389
	Dibutyl phthalate	DBP	84-74-2			
	Benzyl butyl phthalate	BBP	85-68-7			
	Bis(2-ethylhexyl) phthalate	DEHP	117-81-7			
	Bis(2-methoxyethyl) phthalate	DMEP	117-82-8		REACH XVII entry 72	
	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	-	71888-89-6			
	Di-isopentyl phthalate	DIPP	605-50-5			
	Di-n-pentyl phthalate	DnPP	131-18-0			
	Di-n-hexyl phthalate	DnHP	84-75-3	1000 mg/kg (each)	REACH SVHC	
	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	DHNUP (L&R)	68515-42-4			
	N-pentyl-isopentylphthalate	nPIPP	776297-69-9			
	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	DNiPP (L&R)	84777-06-0			
	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	DIHxP (L&R)	68515-50-4			
	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	-	68648-93-1 68515-51-5			
	Dicyclohexyl phthalate	DHCP	84-61-7		REACH XVII entry 52 (AQC)	
	Diisohexyl phthalate	DIHP	71850-09-4			
	Di-n-octyl phthalate	DNOP	117-84-0			
	Di-"isononyl" phthalate	DINP	28553-12-0 68515-48-0			
Di-"iso-decyl" phthalate	DIDP	26761-40-0 68515-49-1	AGEC SVHC			
Diisooctyl phthalate	DIOP	27554-26-3				
Physical	Hydrogen ion	pH	-	4.0 - 8.5	GB 18401	ISO 3071
Polycyclic Aromatic Hydrocarbons (PAHs)	Benzo(a)pyrene	BaP	50-32-8	1 mg/kg	REACH XVII entry 72	AfPS-GS-2019-01-PAK
	Benzo(a)anthracene	BaA	56-55-3	1 mg/kg		
	Benzo(b)fluoranthene	BbF	205-99-2	1 mg/kg		
	Benzo(e)pyrene	BeP	192-97-2	1 mg/kg		
	Benzo(j)fluoranthene	BjF	205-82-3	1 mg/kg		
	Benzo(k)fluoranthene	BkF	207-08-9	1 mg/kg		
	Chrysene	CHR	218-01-9	1 mg/kg		
	Dibenzo(a,h)anthracene	DBA	53-70-3	1 mg/kg	REACH SVHC	
	Phenanthrene	PEH	85-01-8	1000 mg/kg		
	Fluoranthene	FLT	206-44-0	1000 mg/kg		
	Pyrene	PYR	129-00-0	1000 mg/kg		
	Benzo(g,h,i)perylene	BPE	191-24-2	1000 mg/kg	for information	
	Anthracene ³	-	120-12-7	5 mg/kg		
	Indeno(1,2,3-cd)pyrene	IPY	193-39-5	Prop 65		
	Naphtalene	NAP	91-20-3			
Acenaphthylene	ANY	208-96-8				
Acenaphthene	ANA	83-32-9				
Fluorene	FLU	86-73-7	AQC			
Solvents	N-methyl-2-pyrrolidone	NMP	872-50-4	1000 mg/kg	REACH XVII entry 72 (3000 mg/kg each) & REACH SVHC	ISO 16189
	N,N-dimethylacetamide	DMAC	127-19-5	1000 mg/kg		
	N,N-dimethylformamide	DMFo	68-12-2	1000 mg/kg		

³ Limit based on REACH SVHC Anthracene oil, anthracene paste, distn lights (CAS 91995-17-4) containing 0.5% to 25% of anthracene

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Substance family	Substance Name	Abbr.	CAS Number	AQC limit	Strictest Regulation	Test Method
SVHCs	1,3-benzènediol (Resorcinol)	-	108-46-3	1'000 mg/kg	AGEC SVHC	Internall method
	Bumetrizole	-	3896-11-5	1'000 mg/kg	REACH SVHC	
(organo) stannic compounds	Tributyltin and related compounds Incl. TBT metacrylate	TBT	several CAS incl. 2155-70-6	1'000 mg/kg	REACH XVII entry 20	ISO 16179
	Triphenyltin and related compounds Incl. TPT hydroxide	TPT	several CAS incl. 76-87-9	1'000 mg/kg		
	All other tri-substitued tin compounds	-	Several CAS	1'000 mg/kg		
	Dibutyltin and related compounds	DBT	several CAS incl. 683-18-1	1'000 mg/kg		
	Di-octyltin and related compounds	DOT	several CAS	1'000 mg/kg		
	Di-μ-oxo-di-n-butylstanniohydroxyboran (Dibutyltin hydrogen borate)	DBB	75113-37-0	1'000 mg/kg	REACH XVII entry 21	
Volatile Organic Compounds (VOCs)	Benzene	-	71-43-2	5 mg/kg	REACH XVII Entry 72	Headspace GC-MS

NOTES

¹ Analytical equivalence between aromatic amines listed in entry 43 and entry 72 of REACH Annex XVII

Entry 43			Entry 72		
Substance name	CAS number	Formula	Substance name	CAS number	Formula
4-chloro-o-toluidine	95-69-2		4-chloro-o-toluidinium chloride	3165-93-3	
2-naphthylamine	91-59-8		2-naphthylamoniumacetate	553-00-4	
4-methoxy-m-phenylenediamine	615-05-4		4-methoxy-m-phenylenediammonium sulphate	39146-41-7	
2,4,5-trimethylaniline	137-17-7		2,4,5-trimethylaniline hydrochloride	21436-97-5	

² Chromium (VI) related substances stand for the following substances:

- Sodium chromate (CAS 7775-11-3)
- Sodium dichromate (CAS 7789-12-0, CAS 10588-01-9)
- Potassium chromate (CAS 7789-00-6)
- Potassium dichromate (CAS 7778-50-9)
- Ammonium dichromate (CAS 7789-09-5)
- Chromium trioxide (CAS 1333-82-0)
- Chromic acid (CAS 7738-94-5)
- Oligomers of chromic acid and dichromic acid and strontium chromate (CAS 7789-06-2)
- Potassium hydroxyoctaoxidizincatedichromate (1-) (CAS 11103-86-9)
- Pentazinc chromate octahydroxide (CAS 49663-84-5)
- Dichromium tris(chromate) (CAS 24613-89-6)



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OPTION FOR COLOURED TEXTILES

Substance family	Substance Name	Abbr.	CAS Number	AQC limit	Strictest Regulation	Test Method		
Carcinogenic and allergenic dyes	Navy blue 018112	-	118685-33-9	1000 mg/kg	REACH XVII Entry 43 (appx 9)	DIN 54231		
	C.I. Pigment Red 104 ⁴	-	12656-85-8	500 mg/kg each	REACH XVII entry 63			
	C.I. Pigment Yellow 34 ⁴	-	1344-37-2	1000 mg/kg each	REACH SVHC			
	C.I. Solvent Violet 8	-	561-41-1					
	C.I. Solvent Blue 4	Victoria blue B base	6786-83-0					
	C.I. Direct Red 28 ⁵	Congo Red	573-58-0					
	C.I. Direct Black 38 ⁵	Chlorazole Black E	1937-37-7					
	C.I. Basic Blue 26	Victoria Blue B	2580-56-5					
	C.I. Basic Red 9	Basic Fuschin	569-61-9					
	C.I. Basic Violet 3 with ≥ 0,1 % of Michler's ketone	Crystal Violet Gentian Violet	548-62-9	50 mg/kg each	REACH XVII entry 72			
	C.I. Disperse Blue 1	-	2475-45-8	for information	REACH XVII Proposal for allergens (AQC)			
	C.I. Disperse Blue 3	-	2475-46-9					
	C.I. Disperse Blue 7	-	3179-90-6					
	C.I. Disperse Blue 26	-	3860-63-7					
	C.I. Disperse Blue 35	-	12222-75-2					
	C.I. Disperse Blue 102	-	12222-97-8					
	C.I. Disperse Blue 106	-	68516-81-4					
	C.I. Disperse Blue 124	-	15141-18-1					
	C.I. Disperse Blue 291	-	56548-64-2					
	C.I. Disperse Brown 1	-	23355-64-8					
	C.I. Disperse Orange 1	-	2581-69-3					
	C.I. Disperse Orange 3	-	730-40-5					
	C.I. Disperse Orange 37/59/76	-	13301-61-6 12223-33-5 51811-42-8					
	C.I. Disperse Red 1	-	2872-52-8					
	C.I. Disperse Red 11	-	2872-48-2					
	C.I. Disperse Red 17	-	3179-89-3					
	C.I. Disperse Yellow 1	-	119-15-3					
	C.I. Disperse Yellow 9	-	6373-73-5					
	C.I. Disperse Yellow 23	-	6250-23-3					
	C.I. Disperse Yellow 39	-	12236-29-2					
	C.I. Disperse Yellow 49	-	54824-37-2					
	C.I. Disperse Yellow 64	-	10319-14-9					
	C.I. Disperse Orange 149	-	85136-74-9					
	C.I. Disperse Violet 1	-	128-95-0					
	C.I. Disperse Violet 93	-	122463-28-9					
	C.I. Disperse Yellow 3	-	2832-40-8					
	C.I. Disperse Orange 11	-	82-28-00					
	C.I. Acid Red 26	Ponceau Red	3761-53-3				for information	Prop65
	C.I. Acid Red 114	-	6459-94-5					
	C.I. Acid Violet 49	Benzyl violet 4B	1694-09-3					
C.I. Direct blue 6 ⁵	-	2602-46-2						
C.I. Direct Blue 15	-	2429-74-5						
C.I. Direct Blue 218	-	28407-37-6						
C.I. Direct Brown 95 ⁵	-	16071-86-6						
C.I. Pigment Red 53	D&C Red No.8	2092-56-0						
C.I. Pigment Red 53:1	D&C Red No.9	5160-02-1						
C.I. Pigment Violet 1(or Basic violet 10)	D&C Red No.19	81-88-9						
C.I. Solvent Yellow 14	-	842-07-9						
C.I. Solvent Yellow 34	-	492-80-8						

⁴ Limit expressed as Lead metal content (entry 63) - Compliance ensured by total Lead testing with the limit of 500 mg/kg.

⁵ Compliance ensured by aromatic amines testing with the limit of 30 mg/kg (REACH Annex XVII entry 43)



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LIS008_07

RESTRICTED SUBSTANCES LIST FOR TEXTILES AND THREADS

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OPTION FOR "NATURAL FIBERS" BASED TEXTILES

Substance family	Substance Name	Abbr.	CAS Number	AQC limit	Regulation	AQC required Method
Pesticides	Aldrin	-	309-00-2	not detected	EU POP	EPA 8081B EPA 8141B EPA 8151A
	Chlordane		57-74-9			
	Chlordecone		143-50-0			
	4,4'-DDT	DDT	50-29-3			
	Dicofol		115-32-2 10606-46-9			
	Dieldrin		60-57-1			
	Endrin		72-20-8			
	Endosulfan		115-29-7 and isomers: 959-98-8 and 33213-65-9			
	Hexachlorocyclohexanes (mixed isomers)	HCH	608-73-1 319-84-6 (alpha) 319-85-7 (beta) 58-89-9 (gamma)			
	Heptachlor		76-44-8			
	Hexachlorobenzene		118-74-1			
	Lindane		58-89-9			
	Mirex		2385-85-5			
	Toxaphene		8001-35-2			
	1,2-dibromoethane	EDB	106-93-4			
	2,4,5-T and its salts and esters		several CAS			
	Alachlor		15972-60-8			
	Aldicarb		116-06-3			
	Azinphos-methyl		86-50-0			
	Benomyl		17804-35-2			
	Binapacryl		485-31-4			
	Captafol		2425-06-1			
	Carbofuran		1563-66-2			
	Chlordimeform		6164-98-3			
	Chlorobenzilate		510-15-6			
	Dinitro-ortho-cresol and its salts	DNOC	several CAS including 534-52-1			
	Dinoseb and its salts and esters		several CAS including 88-85-7			
	Ethylene dichloride (1,2-dichloroethane)		107-06-2			
	Ethylene oxide		75-21-8			
	Fluoroacetamide		640-19-7			
	Methamidophos		10265-92-6			
	Methyl-parathion		298-00-0			
	Monocrotophos		6923-22-4			
	Parathion		56-38-2			
	Phorate		298-02-2			
	Phosphamidon		297-99-4 13171-21-6 23783-98-4			
	Thiram		137-26-8			
	Trichlorfon		52-68-6			
	Isodrin		465-73-6			
	Kelevan		4234-79-1			
	Strobane		8001-50-1			
	Telodrin		297-78-9			
	Dichlorodiphenyldichloroethylene	DDE	72-55-9			
Dichlorodiphenyldichloromethane	DDD	53-19-0				
Methoxychlor		72-43-5				
Perthan		72-56-0				
Quinthozene		82-68-8				
Heptachlor epoxide		1024-57-3				
Carbaryl		63-25-2				
Dichloroprop	2,4-DP	120-36-5				
Heptachlor epoxide		1024-57-3				
Malathion		121-75-5				
Dichlorodiphenyldichloroethane	DDD	72-54-8				
Tribufos	DEF	78-48-8				
				For information	Prop65	









LIS008_07 AQC RSL for textiles and threads

Final Audit Report

2024-07-30

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