

 ASSOCIATION POUR L'ASSURANCE QUALITÉ DES FABRICANTS DE BRACELETS CUIR		DOC nb LIS008_06
		Replace LIS008_05
RESTRICTED SUBSTANCES LIST FOR TEXTILES AND THREADS		
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Written by	Quality review (signature/date)  Apr 5, 2023	Process owner (signature/date)  Apr 5, 2023
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Change log

Version	Date	Modification
05	01Mar22	Revision: <ul style="list-style-type: none"> - Alkylphenols : precision of isononylphenol within the 4-nonylphenol, branched and linear family - MCCPs: limit to 1'000 mg/kg (entry in SVHC list) - PAHs: update of testing method version (2019) - PAHs : table for anthracene limit replaced by a comment - Addition of Bisphenols testing - Cobalt and Nickel from total to extractible (textile for top) - Suppression of reference to EU POP annexes (regulation recast – June 2019) - Suppression of Allergen risk reduction program table at the end of the document - Option for organotin reviewed with limit of Japan 112
06	12Apr23	Revision: <ul style="list-style-type: none"> Decision TWG 17Oct22 – action CQI-22-059a <ul style="list-style-type: none"> - Suppression of "Textile for inside" scheme Decision TWG by mail 31Mar23– action CQI-23-081c <ul style="list-style-type: none"> - 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)

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 dangerous chemical substances and testing requirements in the context of leather bracelet and textile bracelet as specified by AQC.

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.

AQC considers the textiles for top to be in contact with skin (free loop).

Threads are included in this category as they could be present on the external and internal faces of the bracelet and by the way have a skin contact.

We consider Threads and Textiles used as top in the scope of the entry 72 of REACH Annex XVII

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

AQC considers the textiles used as inside not to be in contact with skin. Nevertheless, as they are present in articles in prolonged contact with skin, we consider them to fall into the scope of entry 72 of REACH Annex XVII.

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 the basis of 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
16CFR1303	Ban of lead-containing paint and certain consumer products bearing lead-containing paint	USA	-
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)	-
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

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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.

AQC limit for REACH/Ochim 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.

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

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)	ISO 14362
	Benzidine	-	92-87-5			
	4-chloro-o-toluidine	-	95-69-2			
	2-naphthylamine	-	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	-	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	-	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	REACH XVII proposal (AQC)		
	p-phenylenediamine	PPD	106-50-3			
	Aniline	-	62-53-3			
Biocides	Dimethylfumarate	DMFu	624-49-7	0.1 mg/kg	REACH ORRChim	ISO 16186
Bisphenols	4,4'-isopropylidenediphenol (bisphenol A)	BPA	80-05-7	1000 mg/kg	REACH SVHC	Methanol extraction/ultrasound
	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	REACH restriction proposal	LC detection
	2,2'-methylene-diphenol (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 EU POP	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			
	Tin ¹	Sn	7440-31-5	1 mg/kg	AQC			
	Chromium (VI) and its related substances ²	Chromium (VI) and its related substances ²	Cr(VI)	18540-29-9	1 mg/kg	REACH XVII Entry 72	Adapted ISO 17075-2	
		Cadmium (extractible)	Cd	7440-43-9	1 mg/kg		EN 16711-2	
		Arsenic (extractible)	As	7440-38-2	1 mg/kg			
		Lead (extractible)	Pb	7439-92-1	1 mg/kg			
		Cobalt (extractible)	Co	7440-84-4	for information			REACH XVII Proposal for allergens (AQC)
		Nickel (extractible)	Ni	7440-02-0	for information			
Chromium (extractible)	Cr	7440-47-3	for information	AQC				
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)	
	Nonylphenol Ethoxylates - 4-Nonylphenol, branched and linear, ethoxylated Incl. isononylphenol	NPEO (4-NPEO)	- several CAS 11066-49-2					

¹ In case of total Tin > 1 mg/kg, the testing of organo-tins is performed following the option page 10/10

² Chromium (VI) related substances stands 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 hydroxyoctaoxodizincatedichromate (1-) (CAS 11103-86-9)
- Pentazinc chromate octahydroxide (CAS 49663-84-5)
- Dichromium tris(chromate) (CAS 24613-89-6)

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Substance family	Substance Name	Abbr.	CAS Number	AQC limit	Strictest Regulation	Test Method
PFOS and related substances	Perfluorooctanesulfonic acid	PFOS	1763-23-1	1 µg/m ² (sum)	ORRChim EU POP	CEN 15968
	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	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	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				
C9-C14 PFCAs, their salts and related substances	Henicosafuoroundecanoic acid	PFU _n A	2058-94-8	0.025 mg/kg (sum)	REACH XVII Entry 68 (AQC)	
	Heptacosafuorotetradecanoic acid	PFTDA	376-06-7			
	Pentacosafuorotridecanoic acid	PFT _r DA	72629-94-8			
	Tricosafuorododecanoic acid	PFDoDA	307-55-1			
	Perfluorononanoic acid and its sodium and ammonium salts	PFNA	375-95-1			
	Nonadecafluorodecanoic acid and its sodium and ammonium salts	PFDA	3108-42-7 3830-45-3 335-76-2			
	C9-C14 PFCAs related substances	-	several	0.260 mg/kg (sum)		
C4-C6 PFAS	Perfluorohexane-1-sulphonic acid	PFH _x S	355-46-4	1'000 mg/kg	REACH SVHC	
	Perfluorobutane sulfonic acid and its salts	PFBS	375-73-5 375-72-4 25628-08-4 34454-97-2	1'000 mg/kg		
	Perfluoroheptanoic acid and its ammonium, sodium and potassium salts	PFHpA	375-85-9 6130-43-4 20109-59-5 21049-36-5	1'000 mg/kg	REACH SVHC	
	Undecafluorohexanoic acid, its salts and related substances	PFH _x A	several	for information	REACH restriction intention	

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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			
	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	1000 mg/kg (each)	REACH SVHC	
	Di-n-hexyl phthalate	DnHP	84-75-3			
	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			
	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				
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	1000 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		
Volatile Organic Compounds (VOCs)	Benzene	-	71-43-2	5 mg/kg	REACH XVII Entry 72	Headspace GC-MS

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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OPTION FOR COLOURED TEXTILES (EXCEPTED GREY/BLACK)

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					
	C.I. Solvent Violet 8	-	561-41-1	1000 mg/kg each	REACH SVHC			
	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	50 mg/kg each	REACH XVII entry 72			
	C.I. Basic Violet 3 with ≥ 0,1 % of Michler's ketone	Crystal Violet Gentian Violet	548-62-9					
	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				for information	Prop65
	C.I Disperse Orange 11	-	82-28-00					
	C.I. Acid Red 26	Ponceau Red	3761-53-3					
	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)



ASSOCIATION POUR L'ASSURANCE QUALITÉ
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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	For information	Prop65		
Heptachlor epoxide		1024-57-3				
Malathion		121-75-5				
Dichlorodiphenyldichloroethane	DDD	72-54-8				
Tribufos	DEF	78-48-8				
					EU PIC annex 1 part 3 (equivalent to Rotterdam convention annex III)	
					ORRChim	



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OPTION IF TIN ABOVE 1 MG/KG (footnote 1)

Substance family	Substance Name	Abbr.	CAS Number	AQC limit	Regulation	Test Method
Organotins	Tributyltin and related compounds Incl. TBT metacrylate	TBT	several CAS incl. 2155-70-6	1 mg/kg	REACH XVII entry 20 & REACH SVHC (AQC)	ISO 16179
	Triphenyltin and related compounds Incl. TPT hydroxide	TPT	several CAS incl. 76-87-9			
	All other tri-substituted tin compounds	-	Several CAS			
	Dibutyltin and related compounds	DBT	several CAS incl. 683-18-1			
	Diocetyl tin and related compounds	DOT	several CAS			
	Di- μ -oxo-di-n-butylstanniohydroxyboran (Dibutyltin hydrogen borate)	DBB	75113-37-0	1'000 mg/kg	REACH XVII entry 21	









LIS008_06 draft_AQC RSL for textiles and threads

Final Audit Report

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