

Chapter 1 MRSL

Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

Potential Uses in Apparel and Footwear Textile Processing:

APEOs can be used as or found in: detergents, scouring agents, spinning oils, wetting agents, softeners, emulsifier/dispersing agents for dyes and prints, impregnating agents, de- gumming for silk production, dyes and pigment preparations, polyester padding and down/feather fillings.

		•	•		
Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
104-40-5	Nonylphenol	Textile	No intentional use	250 ppm	Liquid chromatography-
11066-49-	(NP),mixed isomers	Leather	No intentional use	250 ppm	mass spectrometry (LC-
2 25154-52- 3 84852-15- 3		Polymers (R,F,A)*	No intentional use	250 ppm	MS), gas chromatography- mass spectrometry (GC- MS)
9016-45-9	Nonylphenolethoxyl	Textile	No intentional use	500 ppm	Liquid chromatography-
26027-38-	ates (NPEO)	Leather	No intentional use	500 ppm	mass spectrometry (LC-
3 37205-87- 1 68412-54- 4 127087-87		Polymers (R,F,A)*	No intentional use	500 ppm	MS), gas chromatography- mass spectrometry (GC- MS)
9002-93-1	Octylphenolethoxyla	Textile	No intentional use	500 ppm	Liquid chromatography-
9036-19-5	tes (OPEO)	Leather	No intentional use	500 ppm	mass spectrometry (LC-
68987-90- 6		Polymers (R,F,A)*	No intentional use	500 ppm	MS), gas chromatography- mass spectrometry (GC- MS)
140-66-9	26-4 (OP),mixed isomers	Textile	No intentional use	250 ppm	Liquid chromatography-
1806-26-4		Leather	No intentional use	250 ppm	mass spectrometry (LC-
27193-28- 8		Polymers (R,F,A)*	No intentional use	250 ppm	MS), gas chromatography- mass spectrometry (GC- MS)



Anti- Microbials & Biocides

Potential Uses in Apparel and Footwear Textile Processing:

These substances have biocidal properties, making it useful for various preservation applications.

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
90-43-7	o-Phenylphenol	Textile	No intentional use	5000 ppm	Solvent extraction LC MS,
	(+salts)	Leather		Use is permitted and OPP is approved for use under BPR PT6 as a preservative for formulations.	LC DAD, GC MS
		Polymers (R,F,A)*	No Limit		
Multiple Pe	Permethrin	Textile	No intentional use	250 ppm except for processes mentioned	Solvent extraction, LC MS/MS, GC MS/MS
		Leather	No intentional use	250 ppm except for processes mentioned	
		Polymers (R,F,A)*	No intentional use	250 ppm except for processes mentioned	
BPR and is p 2016/425, EF	tions, deliberate use is not p permitted for use on wool cur PA registered product, APVN d uses such as military. All e	tains and carpets, r IA Registered Prod	ugs and floor coverin uct, PMRA Registere	gs. Permethrin is permitted d Product, etc.). Also, its us	I for PPE use (EU se is sometimes stipulated

3380-34-5	Triclosan	Textile	No intentional use	250 ppm	solvent extraction LC MS,
		Leather	No intentional use	250 ppm	DAD
		Polymers (R,F,A)*	No intentional use	250 ppm	



Chlorinated Parafins

Potential Uses in Apparel and Footwear Textile Processing:

These are used occasionally as flame retardants in certain industries. In leather formulations, these are also used as fat liquoring agents.

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
85535-84-	85535-84- Short-chain	Textile	No intentional use	50 ppm	prEN ISO 22699-2
8	Chlorinatedparaffin	Leather	No intentional use	250 ppm	
	(C10– C13)	Polymers (R,F,A)*	No Limit		
85535-85-	Medium-chain	Textile	No intentional use	500 ppm	prEN ISO 22699-2
9	Chlorinatedparaffins (MCCPs) (C14-C17)	Leather	No intentional use	500 ppm	
		Polymers (R,F,A)*	No intentional use	500 ppm	

Chlorobenzenes and Chlorotoluenes

Potential Uses in Apparel and Footwear Textile Processing:

Chlorobenzenes and Chlorotoluenes (chlorinated aromatic hydrocarbons) can be used as carriers in the dyeing process of polyester or wool/polyester fibres. They can also be used as solvents.

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
95-50-1	1,2-dichlorobenzene	Textile	No intentional use	500 ppm	GC-MS
		Leather	No intentional use	500 ppm	
		Polymers (R,F,A)*	No intentional use	500 ppm	
Multiple	ultiple Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono-, di-, tri-, tetra- and penta-chlorotoluene	Textile	No intentional use	Sum = 200 ppm tetrachlorotoluene, and trichlorotoluene 5 ppm each	GC-MS
		Chlorobenzene and Chlorobenzene and Mo intentional use Sum = 200 ppm tetrachlorotoluene 5 trichlorotoluene 5	tetrachlorotoluene, and trichlorotoluene 5 ppm		
		Polymers (R,F,A)*	No intentional use	Sum = 200 ppm tetrachlorotoluene, and trichlorotoluene 5 ppm each	



Chlorophenols

Potential Uses in Apparel and Footwear Textile Processing:

Chlorophenols are polychlorinated compounds used as preservatives or pesticides. Pentachlorophenol (PCP) and tetrachlorophenol (TeCP) have been used in the past to prevent mould when storing/ transporting raw hides and leather. They are now regulated and should not be used.

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
87-86-5	Pentachlorophenol (PCP) ¹	Textile	No intentional use	Sum of substances ¹ = 20 ppm	GC-MS EN ISO 17070
	. ,	Leather	No intentional use	Sum of substances ¹ = 20 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ¹ = 20 ppm	
Multiple	Tetrachlorophenol(T eCP) ¹	Textile	No intentional use	Sum of substances ¹ = 20 ppm	GC-MS EN ISO 17070
	·	Leather	No intentional use	Sum of substances ¹ = 20 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ¹ = 20 ppm	
120-83-2	2,4-dichlorophenol ²	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
95-57-8 2-chlorophen	2-chlorophenol ²	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
583-78-8	2,5-dichlorophenol ²	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
87-65-0	2,6-dichlorophenol ²	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
88-06-2	2,4,6-trichloropheno I ²	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
591-35-5	3,5-dichlorophenol ²	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	



Chlorophe	Culturate	A secretical at 100	Cumelia - O 11	Farmulation Living	Conord Torbuisans (A 1)
as No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
95-95-4	2,4,5-trichloropheno I ²	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
576-24-9	2,3-dichlorophenol ²	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
95-77-2	3,4-dichlorophenol ²	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
108-43-0	3-chlorophenol ²	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
106-48-9	4-chlorophenol ²	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
15950-66-)	2,3,4-trichloropheno I ²	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
609-19-8	3,4,5-trichloropheno	Textile	No intentional use	Sum of substances ² = 50 ppma	GC-MS EN ISO 17070
		Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
933-78-8	2,3,5-trichloropheno	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
	•	Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ² = 50 ppm	
933-75-5	2,3,6-trichloropheno	Textile	No intentional use	Sum of substances ² = 50 ppm	GC-MS EN ISO 17070
	•	Leather	No intentional use	Sum of substances ² = 50 ppm	
		Polymers	No intentional use	Sum of substances ² =	

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Dyes – Azo (Forming Restricted Amines)

Potential Uses in Apparel and Footwear Textile Processing:

Azo dyes and pigments are colourants that incorporate one or several azo groups (-N=N-) bound with aromatic compounds. Thousands of azo dyes exist, but only those that degrade to form the listed cleavable amines are restricted. Azo dyes that release these amines are regulated and should no longer be used for the dyeing of textiles. Please find a non-exhaustive list of dyes which can form restricted amines in the appendix.

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Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
101-80-4	4,4-oxydianiline	Textile	No intentional use	150 ppm	LC, GC
		Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
101-14-4	4,4-methylene-bis-(Textile	No intentional use	150 ppm	LC, GC
	2-chloro-aniline)	Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
119-90-4	3,3-dimethoxylbenzi	Textile	No intentional use	150 ppm	LC, GC
	dine	Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
101-77-9	4,4-methylenedianili	Textile	No intentional use	150 ppm	LC, GC
	ne	Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
106-47-8	4-chloroaniline	Textile	No intentional use	150 ppm	LC, GC
		Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
119-93-7	3,3-dimethylbenzidi	Textile	No intentional use	150 ppm	LC, GC
	ne	Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
120-71-8	6-methoxy-m-	Textile	No intentional use	150 ppm	LC, GC
	toluidine	Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
139-65-1	4,4-thiodianiline	Textile	No intentional use	150 ppm	LC, GC
		Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
60-09-3	4-aminoazobenzene	Textile	No intentional use	150 ppm	LC, GC
	Leather	No intentional use	150 ppm		
		Polymers (R,F,A)*	No intentional use	150 ppm	
137-17-7	2,4,5-trimethylanilin	Textile	No intentional use	150 ppm	LC, GC
	е	Leather	No intentional use	150 ppm	
	Polymers (R,F,A)*	No intentional use	150 ppm		



Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
90-04-0	o-anisidine	Textile	No intentional use	150 ppm	LC, GC
55 5 7 6	o-anisidine	Leather	No intentional use		
		Polymers (R,F,A)*	No intentional use		_
838-88-0	4,4-methylenedi-o-	Textile	No intentional use	150 ppm	LC, GC
	toluidine	Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
91-94-1	3,'3-dichlorobenzidi	Textile	No intentional use	150 ppm	LC, GC
	ne	Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
615-05-4	4-methoxy-m-	Textile	No intentional use	150 ppm	LC, GC
	phenylenediamine	Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
37-62-7	2,6-xylidine	Textile	No intentional use	150 ppm	LC, GC
		Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
91-59-8	59-8 2-naphthylamine	Textile	No intentional use	150 ppm	LC, GC
		Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
95-53-4	o-toluidine	Textile	No intentional use	150 ppm	LC, GC
		Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
92-87-5	Benzidine	Textile	No intentional use	150 ppm	LC, GC
		Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
95-69-2	4-chloro-o-toluidine	Textile	No intentional use	150 ppm	LC, GC
		Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
92-67-1	4-aminodiphenyl	Textile	No intentional use	150 ppm	LC, GC
		Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
95-80-7	4-methyl-m-	Textile	No intentional use	150 ppm	LC, GC
	phenylenediamine	Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	_
95-68-1	2,4-xylidine	Textile (R,F,A)*	No intentional use	150 ppm	LC, GC
		Leather	No intentional use	150 ppm	
	Polymers	No intentional use	150 ppm		



Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing
					Chemicals
97-56-3	o-aminoazotoluene	Textile	No intentional use	150 ppm	LC, GC
		Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
99-55-8	5-nitro-o-toluidine	Textile	No intentional use	150 ppm	LC, GC
		Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
553-00-4	2-Naphthylammoniu	Textile	No intentional use	150 ppm	LC, GC
	macetate	Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
3165-93-3	4-chloro-o-	Textile	No intentional use	150 ppm	LC, GC
	toluidinium chloride	Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	
39156-41-	4-methoxy-m-	Textile	No intentional use	150 ppm	LC, GC
7	phenylene 	Leather	No intentional use	150 ppm	
	diammonium sulphate; 2,4-diaminoanisole sulphate	Polymers (R,F,A)*	No intentional use	150 ppm	
21436-97-	2,4,5-trimethylanilin	Textile	No intentional use	150 ppm	LC, GC
5	e hydrochloride	Leather	No intentional use	150 ppm	
		Polymers (R,F,A)*	No intentional use	150 ppm	



Dyes – Carcinogenic or Equivalent Concern

Potential Uses in Apparel and Footwear Textile Processing:

Most of these substances are regulated and should no longer be used for the dyeing of textiles.

Gas No. Substance Applicability Supplier Guidance Formulation Limit General Entitive (Analysing) Chemicals 632-99-5 C.I. Basic Violet 14 Textile No intentional use 250 ppm 250 ppm DIN 54231 1937-37-7 C.I. Direct Black 58 Textile No intentional use 250 ppm 250 ppm DIN 54231 2602-46-2 C.I. Direct Blue 6 Textile No intentional use 250 ppm 250 ppm DIN 54231 3761-53-3 C.I. Acid Red 26 Textile No intentional use 250 ppm 250 ppm DIN 54231 573-58-0 C.I. Direct Red 28 Textile No intentional use 250 ppm DIN 54231 573-58-0 C.I. Direct Red 28 Textile No intentional use 250 ppm DIN 54231 573-58-0 C.I. Direct Red 28 Textile No intentional use 250 ppm DIN 54231 569-61-9 C.I. Basic Red 9 Textile No intentional use 250 ppm DIN 54231 2475-45-8 C.I. Disperse Blue 1 Textile No intentional use 250 ppm DIN 54231 2580-56-5 C.I. Basic Blue 26 (with Michler's (with Michler's (with Michler's (3		9	, ,	
Leather	Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	
Polymers (R,F,A)* No intentional use 250 ppm DIN 54231	632-99-5	C.I. Basic Violet 14	Textile	No intentional use	250 ppm	DIN 54231
1937-37-7			Leather	No intentional use	250 ppm	
Leather No intentional use 250 ppm			•	No intentional use	250 ppm	
Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,A)* Pol	1937-37-7	C.I. Direct Black 38	Textile	No intentional use	250 ppm	DIN 54231
Textile No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,			Leather	No intentional use	250 ppm	
Leather No intentional use 250 ppm				No intentional use	250 ppm	
	2602-46-2	C.I. Direct Blue 6	Textile	No intentional use	250 ppm	DIN 54231
3761-53-3			Leather	No intentional use	250 ppm	
Leather No intentional use 250 ppm			•	No intentional use	250 ppm	
Polymers (R,F,A)* No intentional use 250 ppm	3761-53-3	C.I. Acid Red 26	Textile	No intentional use	250 ppm	DIN 54231
Family F			Leather	No intentional use	250 ppm	
Leather No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers R,F,A)* No intentional use 250 ppm Polymers R,F,A)* No intentional use 250 ppm Polymers Polymers No intentional use 250 ppm Polymers Polymers Polymers No intentional use 250 ppm Polymers Polym				No intentional use	250 ppm	
Polymers (R,F,A)* No intentional use 250 ppm	573-58-0	C.I. Direct Red 28	Textile	No intentional use	250 ppm	DIN 54231
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			Leather	No intentional use	250 ppm	
Leather No intentional use 250 ppm			•	No intentional use	250 ppm	
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			Leather	No intentional use	250 ppm	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			•	No intentional use	250 ppm	
$ \begin{array}{ c c c c c } \hline Polymers & No intentional use & 250 ppm \\ \hline \hline 2580-56-5 & C.I. Basic Blue 26 & (with Michler's Ketone > 0.1%) & Eather & No intentional use & 250 ppm & DIN 54231 \\ \hline \hline 2475-46-9 & C.I. Disperse Blue 3 & Textile & No intentional use & 250 ppm & DIN 54231 \\ \hline \hline \hline 2475-46-9 & C.I. Disperse Blue 3 & Textile & No intentional use & 250 ppm & DIN 54231 \\ \hline \hline \hline \hline 2437-29-8 & C.I. Basic Green 4 & (Malachite Green Oxalate) & Textile & No intentional use & 250 ppm & DIN 54231 \\ \hline $	2475-45-8	C.I. Disperse Blue 1	Textile	No intentional use	250 ppm	DIN 54231
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			Leather	No intentional use	250 ppm	
Leather No intentional use 250 ppm				No intentional use	250 ppm	
Ketone > 0.1%) Polymers $(R,F,A)^*$ No intentional use 250 ppm 2475-46-9 C.I. Disperse Blue 3 Leather No intentional use 250 ppm Polymers $(R,F,A)^*$ No intentional use 250 ppm Polymers $(R,F,A)^*$ No intentional use 250 ppm Polymers $(R,F,A)^*$ No intentional use 250 ppm 2437-29-8 C.I. Basic Green 4 (Malachite Green Oxalate) Polymers $(R,F,A)^*$ No intentional use 250 ppm Polymers $(R,F,A)^*$ No intentional use 250 ppm Polymers $(R,F,A)^*$ No intentional use 250 ppm Textile No intentional use 250 ppm Polymers $(R,F,A)^*$ No intentional use 250 ppm Textile No intentional use 250 ppm Polymers No intentional use 250 ppm	2580-56-5	C.I. Basic Blue 26	Textile	No intentional use	250 ppm	DIN 54231
2475-46-9 C.I. Disperse Blue 3 Textile No intentional use 250 ppm Leather No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm DIN 54231 DIN 54231 Textile No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm DIN 54231 DIN 54231 Textile No intentional use 250 ppm Polymers (R,F,A)* Textile No intentional use 250 ppm DIN 54231 DIN 54231 Polymers No intentional use 250 ppm DIN 54231			Leather	No intentional use	250 ppm	
Leather No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm 2437-29-8 C.I. Basic Green 4 (Malachite Green Oxalate) Polymers (R,F,A)* No intentional use 250 ppm Leather No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm DIN 54231 DIN 54231 Textile No intentional use 250 ppm Chloride) Polymers No intentional use 250 ppm Polymers No intentional use 250 ppm DIN 54231		Ketone > 0.1%)	,	No intentional use	250 ppm	
Polymers (R,F,A)* 2437-29-8 C.I. Basic Green 4 (Malachite Green Oxalate) Polymers (R,F,A)* No intentional use 250 ppm DIN 54231 Leather No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Textile No intentional use 250 ppm No intentional use 250 ppm Textile No intentional use 250 ppm DIN 54231 DIN 54231 DIN 54231 Polymers No intentional use 250 ppm Chloride) Polymers No intentional use 250 ppm Polymers No intentional use 250 ppm	2475-46-9	C.I. Disperse Blue 3	Textile	No intentional use	250 ppm	DIN 54231
2437-29-8 C.I. Basic Green 4 (Malachite Green Oxalate) Textile No intentional use 250 ppm Leather No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Textile No intentional use 250 ppm Oxalate) Textile No intentional use 250 ppm Textile No intentional use 250 ppm Chloride) DIN 54231 DIN 54231			Leather	No intentional use	250 ppm	
(Malachite Green Oxalate) Leather No intentional use 250 ppm Polymers (R,F,A)* No intentional use 250 ppm Textile No intentional use 250 ppm Chloride) No intentional use 250 ppm DIN 54231 Divided Divid				No intentional use	250 ppm	
Oxalate) Polymers (R,F,A)* No intentional use 250 ppm 569-64-2 C.I. Basic Green 4 (Malachite Green (Malachite Green (Chloride)) Leather No intentional use 250 ppm Polymers No intentional use 250 ppm No intentional use 250 ppm	2437-29-8	C.I. Basic Green 4	Textile	No intentional use	250 ppm	DIN 54231
569-64-2 C.I. Basic Green 4 (Malachite Green Chloride) Chloride) Colymers No intentional use 250 ppm (Polymers No intent		(Malachite Green	Leather	No intentional use	250 ppm	
(Malachite GreenLeatherNo intentional use250 ppmChloride)PolymersNo intentional use250 ppm		Oxalate)		No intentional use	250 ppm	
Chloride) Polymers No intentional use 250 ppm	569-64-2		Textile	No intentional use	250 ppm	DIN 54231
r dymers indimentional use 250 ppm			Leather	No intentional use	250 ppm	
		Chloride)		No intentional use	250 ppm	



Dyes – Ca	rcinogenic or Equival	ent Concern			
Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
82-28-0	Disperse Orange 11	Textile	No intentional use	250 ppm	DIN 54231
		Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
10309-95-	/** · · · · · · · · · · · · · · · · · ·	Textile	No intentional use	250 ppm	DIN 54231
2		Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
1694-09-3	C.I. Acid Violet 49	Textile	No intentional use	250 ppm	DIN 54231
		Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
548-62-9	Basic violet 3 with	Textile	No intentional use	250 ppm	DIN 54231
>0.1% of Michler's Ketone		Leather	No intentional use	250 ppm	
	Polymers (R,F,A)*	No intentional use	250 ppm	_	

Dyes – Disperse (Sensitising)

Potential Uses in Apparel and Footwear Textile Processing:

Disperse dyes are a class of water- insoluble dyes that penetrate the fibre system of synthetic or manufactured fibres and are held in place by physical forces without forming chemical bonds. Disperse dyes are used in synthetic fibre (e.g. polyester, acetate, polyamide). Restricted disperse dyes are suspected of causing allergic reactions and should no longer be used for dyeing of textiles.

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
12236-29-	Disperse Yellow 39	Textile	No intentional use	250 ppm	LC
2		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
23355-64- Disperse Brown 1	Textile	No intentional use	250 ppm	LC	
8	8	Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
119-15-3	Disperse Yellow 1	Textile	No intentional use	250 ppm	LC
		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
12222-97-	Disperse Blue 102	Textile	No intentional use	250 ppm	LC
8		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		



Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing
10000 01	D' Bl. 100	Tavdil-	No intentional	050 nnm	Chemicals
12223-01- Disperse Blue 106 7	Disperse Blue 106	Textile	No I imit	∠ou ppm	LC
•		Leather Polymers	No Limit No Limit		
		(R,F,A)*	NO LITTIL		
13301-61-	Disperse Orange	Textile	No intentional use	250 ppm	LC
6	37/59/76	Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
2581-69-3	Disperse Orange 1	Textile	No intentional use	250 ppm	LC
		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
2832-40-8	Disperse Yellow 3	Textile	No intentional use	250 ppm	LC
		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
2872-48-2	Disperse Red 11	Textile	No intentional use	250 ppm	LC
		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
2872-52-8 Disperse Red 1	Textile	No intentional use	250 ppm	LC	
	Leather	No Limit			
		Polymers (R,F,A)*	No Limit		
3179-89-3	Disperse Red 17	Textile	No intentional use	250 ppm	LC
		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
54824-37-	Disperse Yellow 49	Textile	No intentional use	250 ppm	LC
2		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
3179-90-6	Disperse Blue 7	Textile	No intentional use	250 ppm	LC
		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
3860-63-7	Disperse Blue 26	Textile	No intentional use	250 ppm	LC
		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
6373-73-5	Disperse Yellow 9	Textile	No intentional use	250 ppm	LC
		Leather	No Limit		_
		Polymers (R,F,A)*	No Limit		
61951-51-	Disperse Blue 124	Textile	No intentional use	250 ppm	LC
7		Leather	No Limit		
		Polymers	No Limit		



Dyes – Dis	sperse (Sensitising)				
Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
12222-75-	Disperse Blue 35	Textile	No intentional use	250 ppm	LC
2		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
730-40-5	Disperse Orange 3	Textile	No intentional use	250 ppm	LC
		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		
56524-77-	Disperse Blue 35	Textile	No intentional use	250 ppm	LC
7		Leather	No Limit		
		Polymers (R,F,A)*	No Limit		-

Dyes – Navy Blue Colourant

Potential Uses in Apparel and Footwear Textile Processing:

Navy Blue Colourant is regulated and should no longer be used for the dyeing of textiles.

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
118685-33 Component 1: C39	Component 1: C39	Textile	No intentional use	250 ppm	LC
-9	H23Cl-CrN7O12S 2Na	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
Not	Component 2: C46	Textile	No intentional use	250 ppm	LC
Allocated H-30CrN10O20S2 3Na		Leather	No intentional use	250 ppm	
	Polymers (R,F,A)*	No intentional use	250 ppm		



Flame Retardants

Potential Uses in Apparel and Footwear Textile Processing:

Flame retardant chemicals are rarely used to meet flammability requirements in children's clothing and adult products. They should no longer be used in apparel and footwear.

All Halogenated Flame Retardants are banned from intentional use that means including but not exclusive the list below;

501011,					
Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
32536-52-	36-52- Octabromodiphenyl ether (OctaBDE)	Textile	No intentional use	250 ppm	GC-MS
0		Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
115-96-8	Tris(2-chloroethyl)p	Textile	No intentional use	250 ppm	GC-MS
	hosphate (TCEP)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
126-72-7	Tris(2,3,-dibromopro	Textile	No intentional use	250 ppm	GC-MS
	pyl)-phosphate	Leather	No intentional use	250 ppm	
	(TRIS)	Polymers (R,F,A)*	No intentional use	250 ppm	
5412-25-9	Bis(2,3-dibromoprop	Textile	No intentional use	250 ppm	GC-MS
	yl)phosphate (BIS)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
1163-19-5	Decabromodiphenyl	Textile	No intentional use	250 ppm	GC-MS
	ether (DecaBDE)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
32534-81-	Pentabromodipheny	Textile	No intentional use	250 ppm	GC-MS
9	I ether (PentaBDE)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
545-55-1	Tris(1-aziridinyl)pho	Textile	No intentional use	250 ppm	GC-MS
	sphineoxide)	Leather	No intentional use	250 ppm	
	(TEPA)	Polymers (R,F,A)*	No intentional use	250 ppm	
79-94-7	Tetrabromobisphen	Textile	No intentional use	250 ppm	GC-MS
	ol A(TBBPA)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
13674-87-	Tris(1,3-dichloro-	Textile	No intentional use	250 ppm	GC-MS
8	isopropyl)phosphate	Leather	No intentional use	250 ppm	
	(TDCP)	Polymers (R,F,A)*	No intentional use	250 ppm	
59536-65-	Polybromobiphenyls	Textile	No intentional use	250 ppm	GC-MS
1	(PBB)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	



Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing
	Capatario	πρριισασιιιτή	Cupplier Guidaille	Tomidadon Ellilli	Chemicals
3296-90-0	2,2-bis(bromomethy	Textile	No intentional use	250 ppm	GC-MS
	l)-1,3-propanediol	Leather	No intentional use	250 ppm	
	(BBMP)	Polymers (R,F,A)*	No intentional use	250 ppm	
3194-55-6	Hexabromocyclodo	Textile	No intentional use	250 ppm	GC-MS
	decane(HBCDD)	Leather	No intentional use	250 ppm	_
		Polymers (R,F,A)*	No intentional use	250 ppm	
10043-35-	Boric acid	Textile	No intentional use	250 ppm	GC-MS
3/ 11113-50-		Leather	No intentional use	250 ppm	_
1		Polymers (R,F,A)*	No intentional use	250 ppm	
13654-09-	Decabromobiphenyl	Textile	No intentional use	250 ppm	GC-MS
6	(DecaBB)	Leather	No intentional use	250 ppm	_
		Polymers (R,F,A)*	No intentional use	250 ppm	
1303-96-4/	Disodium	Textile	No intentional use	250 ppm	GC-MS
1000 10 1	tetraborate, anhydrous	Leather	No intentional use	250 ppm	
1330-43-4		Polymers (R,F,A)*	No intentional use	250 ppm	
12008-41-	008-41- Disodium octaborate	Textile	No intentional use	250 ppm	GC-MS
2		Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
21850-44-	dibromopropylether	Textile	No intentional use	250 ppm	GC-MS
2		Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
1303-86-2	Diboron trioxide	Textile	No intentional use	250 ppm	GC-MS
		Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
	Heptabromodipheny	Textile	No intentional use	250 ppm	GC-MS
68928-80- 3	I ether (HeptaBDE)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
Multiple	Dibromobiphenyls	Textile	No intentional use	250 ppm	GC-MS
	(DiBB)	Leather	No intentional use		_
		Polymers (R,F,A)*	No intentional use	250 ppm	
Multiple	Monobromodiphenyl	Textile	No intentional use	250 ppm	GC-MS
	ethers (MonoBDEs)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
	Monohromohinhenyl				GC-MS
Multiple	Monobromobiphenyl	Textile	No intentional use	250 ppm	GC-MS
Multiple	Monobromobiphenyl s (MonoBB)	Textile Leather	No intentional use		GC-MS



Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
36483-60-	6483-60- Hexabromodiphenyl ether (HexaBDE)	Textile	No intentional use	250 ppm	GC-MS
)		Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
Multiple	Nonabromobiphenyl	Textile	No intentional use	250 ppm	GC-MS
	s (NonaBB)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
63936-56-	Nonabromodiphenyl	Textile	No intentional use	250 ppm	GC-MS
1	ether (NonaBDE)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
59536-65-	Polybromobiphenyls	Textile	No intentional use	250 ppm	GC-MS
1	(Polybrominated	Leather	No intentional use	250 ppm	
	biphenyls) (PBBs)	Polymers (R,F,A)*	No intentional use	250 ppm	
Multiple	le Octabromobiphenyl	Textile	No intentional use	250 ppm	GC-MS
	s (OctaBB)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
12267-73-	Tetraboron	Textile	No intentional use	250 ppm	GC-MS
1	disodium	Leather	No intentional use	250 ppm	
	heptaoxide, hydrate	Polymers (R,F,A)*	No intentional use	250 ppm	
40088-47-	Tetrabromodiphenyl	Textile	No intentional use	250 ppm	GC-MS
9	ether (TetraBDE)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
Multiple	Tribromodiphenylet	Textile	No intentional use	250 ppm	GC-MS
	hers (TriBDEs)	Leather	No intentional use	250 ppm	
		Polymers (R,F,A)*	No intentional use	250 ppm	
	Tris-(2-chloro-1-met	Textile	No intentional use	250 ppm	GC-MS
13674-84-	hylethyl)phosphate	Leather	No intentional use	250 ppm	
5	(TCPP)	Polymers (R,F,A)*	No intentional use	250 ppm	



Glycols / Glycol Ethers

Potential Uses in Apparel and Footwear Textile Processing:

In apparel and footwear, glycols have a wide range of uses including as solvents for finishing/ cleaning, printing agents, and dissolving/ diluting fats, oils, and adhesives (e.g. in degreasing or cleaning operations).

0	0 0		` `	0 0	0 1
Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
110-71-4 Ethylene glycol	Textile	No intentional use	50 ppm	High-performance liquid	
	dimethylether	Leather	No intentional use	50 ppm	chromatography (HPLC),
		Polymers (R,F,A)*	No intentional use	50 ppm	LC- MS
110-49-6	2-methoxyethylacet	Textile	No intentional use	50 ppm	High-performance liquid
	ate	Leather	No intentional use	50 ppm	chromatography (HPLC),
		Polymers (R,F,A)*	No intentional use	50 ppm	LC- MS
110-80-5	2-ethoxyethanol	Textile	No intentional use	50 ppm	High-performance liquid
		Leather	No intentional use	50 ppm	chromatography (HPLC)
		Polymers (R,F,A)*	No intentional use	50 ppm	LC- MS
109-86-4	2-methoxyethanol	Textile	No intentional use	50 ppm	High-performance liquid
		Leather	No intentional use	50 ppm	chromatography (HPLC)
		Polymers (R,F,A)*	No intentional use	50 ppm	LC- MS
111-96-6	Bis(2-methoxyethyl)	Textile	No intentional use	50 ppm	High-performance liquid
	-ether	Leather	No intentional use	50 ppm	chromatography (HPLC), LC- MS
		Polymers (R,F,A)*	No intentional use	50 ppm	
111-15-9	2-ethoxyethyl	Textile	No intentional use	50 ppm	High-performance liquid
	acetate	Leather	No intentional use	50 ppm	chromatography (HPLC)
		Polymers (R,F,A)*	No intentional use	50 ppm	LC- MS
70657-70-	2-methoxypropylace	Textile	No intentional use	50 ppm	High-performance liquid
4 tate	tate	Leather	No intentional use	1000 ppm	chromatography (HPLC)
		Polymers (R,F,A)*	No Limit		LC- MS
112-49-2	Triethylene glycol	Textile	No intentional use	50 ppm	High-performance liquid
	dimethyl ether	Leather	No intentional use	50 ppm	chromatography (HPLC)
·		Polymers (R,F,A)*	No intentional use	50 ppm	LC- MS



Halogenated Solvents

Potential Uses in Apparel and Footwear Textile Processing:

In apparel and footwear, halogenated solvents are used as finishing/ cleaning and printing agents, for dissolving/ diluting fats, oils and adhesives (e.g. in degreasing or cleaning operations).

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
75-09-2	Methylene chloride	Textile	No intentional use	5 ppm	GC-MS
		Leather	No intentional use	5 ppm	
		Polymers (R,F,A)*	No intentional use	5 ppm	
79-01-6	Trichloroethylene	Textile	No intentional use	40 ppm	GC-MS
		Leather	No intentional use	40 ppm	
		Polymers (R,F,A)*	No intentional use	40 ppm	
127-18-4	Tetrachloroethylene	Textile	No intentional use	5 ppm	GC-MS
		Leather	No intentional use	5 ppm	
		Polymers (R,F,A)*	No intentional use	5 ppm	
100-44-7	Benzylchloride	Textile	No intentional use	5 ppm Dyes 100 ppm	GC-MS
		Leather	No intentional use	5 ppm Dyes 100 ppm	
		Polymers (R,F,A)*	No intentional use	5 ppm Dyes 100 ppm	
107-06-2	1,2-dichloroethane	Textile	No intentional use	5 ppm	GC- MS
		Leather	No intentional use	5 ppm	
		Polymers (R,F,A)*	No intentional use	5 ppm	



Organotin Compounds

Potential Uses in Apparel and Footwear Textile Processing:

Organotins are a class of chemicals combining tin and organics such as butyl and phenyl groups. Organotins are predominantly found in the environment as antifoulants in marine paints, but they can also be used as biocides (e.g. antibacterials), catalysts in plastic and glue production and heat stabilisers in plastics/rubber. In textiles and apparel, organotins are associated with plastics/rubber, inks, paints, metallic glitter, polyurethane products and heat transfer material.

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Multiple	Dibutyltin (DBT)	Textile	No intentional use	20 ppm	Solvent extraction, GC MS,
		Leather	No intentional use	20 ppm (EXCEPTION 100 ppm for polyurethane based thickeners used at	ISO TS 16179
	-	Polymers (R,F,A)*	No intentional use	20 ppm	
Multiple	Mono-, di- and tri-	Textile	No intentional use	5 ppm	Solvent extraction, GC MS,
	methyltin derivatives	Leather	No intentional use	5 ppm	ISO TS 16179
	-	Polymers (R,F,A)*	No intentional use	5 ppm	
Multiple	Mono-, di- and tri-	Textile	No intentional use	5 ppm	Solvent extraction, GC MS,
	octyltin derivatives	Leather	No intentional use	5 ppm	ISO TS 16179
	-	Polymers (R,F,A)*	No intentional use	5 ppm	
Multiple	Mono-, di- and tri-	Textile	No intentional use	5 ppm	Solvent extraction, GC MS,
	phenyltin derivatives	Leather	No intentional use	5 ppm	ISO TS 16179
	-	Polymers (R,F,A)*	No intentional use	5 ppm	
Multiple	Mono- and tri-	Textile	No intentional use	5 ppm	Solvent extraction, GC MS,
	butyltin derivatives	Leather	No intentional use	5 ppm	ISO TS 16179
		Polymers (R,F,A)*	No intentional use	5 ppm	
Multiple	Dipropyltin	Textile	No intentional use	5 ppm	Solvent extraction, GC MS,
	compounds (DPT)	Leather	No intentional use	5 ppm	ISO TS 16179
	-	Polymers (R,F,A)*	No intentional use	5 ppm	
Multiple	Tetraethyltin	Textile	No intentional use	1 ppm	Solvent extraction, GC MS,
	Compounds (TeET)	Leather	No intentional use	1 ppm	ISO TS 16179
	-	Polymers (R,F,A)*	No intentional use	1 ppm	
Multiple	Tripropyltin	Textile	No intentional use	1 ppm	Solvent extraction, GC MS,
	Compounds (TPT)	Leather	No intentional use	1 ppm	ISO TS 16179
		Polymers (R,F,A)*	No intentional use	1 ppm	
Multiple	Tetrabutyltin	Textile	No intentional use	1 ppm	Solvent extraction, GC MS,
	compounds (TeBT)	compounds (TeBT) Leather No intentional use 1 ppm	1 ppm	ISO TS 16179	
	-	Polymers (R,F,A)*	No intentional use	1 ppm	
Multiple	Tetraoctyltin	Textile	No intentional use	1 ppm	Solvent extraction, GC MS,
	compounds (TeOT)	Leather	No intentional use	1 ppm	ISO TS 16179
		Polymers	No intentional use	1 ppm	



Organotir	Compounds				
Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Multiple	Tricyclohexyltin	Textile	No intentional use 1 ppm		Solvent extraction, GC MS,
	(TCyHT)	Leather	No intentional use	1 ppm	ISO TS 16179
		Polymers (R,F,A)*	No intentional use	1 ppm	

Other/ Mis	cellaneous Chemica	als			
These are	other chemicals/ subst	ances/ process	with a usage ba	n.	
Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
12767-90-	Borate, zinc salt	Textile	No intentional use	1000 ppm	Acid digestion, ICP
7		Leather	No intentional use	1000 ppm	
		Polymers (R,F,A)*	No intentional use	1000 ppm	
3orate, zinc s	alt can be used as a flame r	etardant but also ir	n paints, pigments, an	d adhesives.	
80-05-7	Bisphenol A	Textile	No intentional use	100 ppm	Solvent extraction, LC
		Leather	No intentional use	100 ppm	MS/MS, GC MS
		Polymers (R,F,A)*	No Limit		
Bisphenol A (I harden plastic	, ,	al used along with o	other chemicals to cre	eate some plastics and re	esins. It is commonly used to
62-56-6	Thiourea	Textile	No intentional use	1000 ppm	Solvent extraction, LC MS/MS
		Leather	No intentional use	1000 ppm	
		Polymers (R,F,A)*	No intentional use	1000 ppm	
Thiourea is us	ed in many formulations to	increase the solubi	lity.		
91-22-5	Quinoline	Textile	No intentional use	1000 ppm	DIN 54231
		Leather	No intentional use	1000 ppm	
		Polymers (R,F,A)*	No intentional use	1000 ppm	
Contaminant of	of dispersing agents in dispe	erse dyes.			
	Silica (particles of respirable size)	Textile	No intentional use	No use of Sand Blasting	Process due diligence, no test method available
	•	Leather	No intentional use	No use of Sand Blasting	
		Polymers (R,F,A)*	No intentional use	No use of Sand Blasting	

Respirable particles of silica are often generate during the process of sand blasting.



Other/ Miscellaneous Chemicals

These are other chemicals/ substances/ process with a usage ban.

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
111-41-1	111-41-1 AEEA [2-(2-aminoet hylamino)ethanol]	Textile	No intentional use	100 ppm	Solvent extraction, LC
		hylamino)ethanol] Leather No intentional use 100 ppm MS	MS/MS		
		Polymers (R,F,A)*	No intentional use	100 ppm	

AEEA is used a.o. in chelating agents, surfactants and fabric softeners.

Perfluorinated and Polyfluorinated Chemicals (PFCs)

Durable water, oil and stain repellent finishes based on long-chain PFC's are banned from intentional use. There are two methods of manufacture of PFCs referred to as electrofluorination and telomerisation. PFC's made by the electrofluorination method have by-products associated with them called perfluoroalkyl sulphonates with the most common being the C8 species Perfluorooctane sulphonate (PFOS). The deliberate use of any PFCs made by electrofluorination with a chain length of C6 or above is not permitted. The detection of any PFOS analogue as where the chain length is 6 units or longer will trigger a failure [i.e. PFHS and above]. These types of PFCs are typically used in home textiles. PFC's made by the telomerisation method have by-products associated with them called perfluorocarboxylic acids with the most common being the C8 species perfluorooctanoic acid (PFOA). The deliberate use of any PFCs made by telomerisation with a chain length of C8 or above is restricted. ZDHC plans to further restrict the use of PFCs in future revisions and details can be found in the candidate list is not permitted. The detection of any PFOA analogue as where the chain length is 8 units or longer will trigger a failure (i.e. PFOA and above). These types of PFCs are typically used in clothing and footwear.

Potential Uses in Apparel and Footwear Textile Processing:

PFOA and PFOS may be present as unintended by-products in long-chain commercial water, oil and stain repellent agents. PFOA also may be in used in the production for polymers like polytetrafluoroethylene (PTFE).

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
Multiple	Perfluorooctane	Textile	No intentional use	Sum = 2 ppm	LC-MS
	sulfonate (PFOS)	Leather	No intentional use	Sum = 2 ppm	
	and related substances	Polymers (R,F,A)*	No intentional use	Sum = 2 ppm	
Multiple	Perfluorooctanoic acid (PFOA) and related substances	Textile	No intentional use	PFOA = 25 ppb PFOA- related substances = 1000 ppb	LC-MS
		Leather	No intentional use	PFOA = 25 ppb PFOA- related substances = 1000 ppb	
		Polymers (R,F,A)*	No intentional use	PFOA = 25 ppb PFOA- related substances = 1000 ppb	



Phthalates - including all other esters of ortho-phthalic acid

Potential Uses in Apparel and Footwear Textile Processing:

Esters of ortho-phthalic acid (phthalates) are a class of organic compounds commonly added to plastics to increase flexibility. They sometimes are used to facilitate moulding of plastic by decreasing its melting temperature. Phthalates can be found in:

- Flexible plastic components (e.g. PVC)
- Print pastes
- Adhesives
- Plastic buttons
- Plastic sleevings
- Polymeric coatings

1 Olymono					
Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
117-84-0	Di-n-octyl phthalate(DNOP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	, , , , , , , , , , , , , , , , , , , ,	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
117-82-8	Bis(2-methoxyethyl) phthalate (DMEP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	, ,	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
26761-40- 0	Di-iso-decyl phthalate(DIDP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	ן וטוט אווומומנים איז	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
117-81-7	Di(ethylhexyl) phthalate(DEHP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
28553-12- 0	Di-isononyl phthalate(DINP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
84-75-3	Di-n-hexyl phthalate(DnHP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	,	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
85-68-7	Butyl benzyl phthalate(BBP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	,	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	



	s – including all other				
Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
84-74-2	Dibutyl phthalate (DBP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	,	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
84-76-4	Dinonyl phthalate (DNP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	,	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
84-66-2	Diethyl phthalate (DEP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	·	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
131-16-8	Di-n-propyl phthalate(DPRP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	, ,	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
84-61-7	Di-cyclohexyl phthalate(DCHP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	, , , ,	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
84-69-5	Di-isobutyl phthalate(DIBP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	,	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
27554-26- 3	Di-iso-octyl phthalate(DIOP) ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	. , , ,	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
68515-42- 4/	1,2-benzenedicarbo xylic acid, di-C7-11	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
68515-50- 4	branched and liearalkyl esters	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
	(DHNUP) ⁵	Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
71888-89- 6/	1,2-benzenedicarbo xylic acid, di-C6-8	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
84777-06- 0	branched and liearalkyl esters ,	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
J	C7-rich (DIHP) ⁵	Polymers	No intentional use	Sum of substances ⁵ =	



			no-phthalic acid		
Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
605-50-5	Diisopentylphthalate s ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	
131-18-0	Di-n- pentylphthalates ⁵	Textile	No intentional use	Sum of substances ⁵ = 250 ppm	GC-MS
	, , , , , , , , , , , , , , , , , , , ,	Leather	No intentional use	Sum of substances ⁵ = 250 ppm	
		Polymers (R,F,A)*	No intentional use	Sum of substances ⁵ = 250 ppm	

Polycyclic Aromatic Hydrocarbons (PAHs)

Potential Uses in Apparel and Footwear Textile Processing:

Oil containing PAHs are added to rubber and plastics as a softener or extender and may be found in rubber, plastics, lacquers, and coatings. Within the footwear producing industry, PAHs are often found in the outsoles of footwear and in printing pastes for screen prints. PAHs can be present as impurities in carbon black dyestuffs.

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
50-32-8	Benzo[a]pyrene	Textile	No intentional use	20 ppm	GC-MS
		Leather	No intentional use	20 ppm	
		Polymers (R,F,A)*	No intentional use	20 ppm	
129-00-0	Pyrene ^{3,4}	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
191-24-2		Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
	3,4	Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
205-82-3	Benzo[j]fluoranthen e ^{3,4}	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
	•	Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
120-12-7	Anthracene ^{3,4}	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		



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Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
193-39-5	Indeno[1,2,3-cd]pyr ene ^{3,4}	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
192-97-2	Benzo[e]pyrene ^{3,4}	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
205-99-2	Benzo[b]fluoranthen	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
207-08-9	Benzo[k]fluoranthen e ^{3,4}	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
206-44-0	Fluoranthene ^{3,4}	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
208-96-8	Acenaphthylene ^{3,4}	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
53-70-3	Dibenz[a,h]anthrace	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
218-01-9	Chrysene ^{3,4}	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
35-01-8	Phenanthrene ^{3,4}	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		



	c Aromatic Hydrocarb		0 " 0 "		0 17 1 1 1 1 1
Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
83-32-9	Acenaphthene ^{3,4}	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
86-73-7	Fluorene ^{3,4}	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		
91-20-3	Naphthalene ³	Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
		Leather	No intentional use	300 ppm	
		Polymers (R,F,A)*	No Limit		
56-55-3		Textile	No intentional use	Sum of substances ³ = 200 ppm	GC-MS
	3,4	Leather	No intentional use	Sum of substances ⁴ = 200 ppm	
		Polymers (R,F,A)*	No Limit		



Total Heavy Metals

Listed metals are banned from intentional use in textile manufacturing/ finishing unless stated differently. The total heavy metal limits do not apply to products containing a listed metal as an inherent compositional part (e.g. metal-complex colorants, the double salts of certain cationic colourants or extenders like barium sulfate). In these cases, the extractable content of the corresponding metal has to be considered. Alternatively, the total content will be communicated to the customers, who will determine whether their final product will comply with the corresponding RSL(s) requirements.

Potential Uses in Apparel and Footwear Textile Processing:

Although typically associated with leather tanning, chromium VI also may be used in the dyeing of wool (after the chroming process).

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Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
7440-38-2	Arsenic (As)	Textile	No intentional use	50 ppm	Inductively coupled plasma-
		Leather	No intentional use	50 ppm	optical emission
		Polymers (R,F,A)*	No intentional use	50 ppm	spectrometry (ICP-OES), atomic absorption spectroscopy (AAS)
7440-43-9	Cadmium (Cd)	Textile	No intentional use	20 ppm (50 ppm for pigments)	Inductively coupled plasma- optical emission
		Leather	No intentional use	20 ppm (50 ppm for pigments)	spectrometry (ICP-OES), atomic absorption
		Polymers (R,F,A)*	No intentional use	20 ppm (50 ppm for pigments)	spectroscopy (AAS)
7439-97-6	Mercury (Hg)	Textile	No intentional use	4 ppm (25 ppm for pigments)	Inductively coupled plasma- optical emission
		Leather	No intentional use	4 ppm (25 ppm for pigments)	spectrometry (ICP-OES), atomic absorption
		Polymers (R,F,A)*	No intentional use	4 ppm (25 ppm for pigments)	spectroscopy (AAS)
7439-92-1	Lead (Pb)	Textile	No intentional use	100 ppm	Inductively coupled plasma-
		Leather	No intentional use	100 ppm	optical emission
		Polymers (R,F,A)*	No intentional use	100 ppm	spectrometry (ICP-OES), atomic absorption spectroscopy (AAS)
18540-29-	Chromium (VI)	Textile	No intentional use	10 ppm	Inductively coupled plasma
9		Leather	No intentional use	10 ppm	optical emission
		Polymers (R,F,A)*	No intentional use	10 ppm	spectrometry (ICP-OES), atomic absorption spectroscopy (AAS)
7440-36-0	Antimony	Textile	No intentional use	Dye 50/ Pigment 250 ppm	Acid digestion, ICP
		Leather	No intentional use	Dye 50/ Pigment 250 ppm	
		Polymers (R,F,A)*	No intentional use	Dye 50/ Pigment 250 ppm	
7440-47-3	Chromium	Textile	No intentional use	Dyes and Pigments 100 ppm	Acid digestion, ICP
		Leather	No intentional use	Dyes and Pigments 100 ppm	
		Polymers (R,F,A)*	No intentional use	Dyes and Pigments 100 ppm	



Total Heavy Metals

Listed metals are banned from intentional use in textile manufacturing/ finishing unless stated differently. The total heavy metal limits do not apply to products containing a listed metal as an inherent compositional part (e.g. metal-complex colorants, the double salts of certain cationic colourants or extenders like barium sulfate). In these cases, the extractable content of the corresponding metal has to be considered. Alternatively, the total content will be communicated to the customers, who will determine whether their final product will comply with the corresponding RSL(s) requirements.

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
7440-39-3	Barium	Textile	No intentional use	Dyes and Pigments 100 ppm	Acid digestion, ICP
		Leather	No intentional use	Dyes and Pigments 100 ppm	
		Polymers (R,F,A)*	No intentional use	Dyes and Pigments 100 ppm	
7782-49-2	Selenium	Textile	No intentional use	Dyes 20/ pigments 100 ppm	Acid digestion, ICP
		Leather	No intentional use	Dyes 20/ pigments 100 ppm	
		Polymers (R,F,A)*	No intentional use	Dyes 20/ pigments 100 ppm	
7440-31-5	Tin	Textile	No intentional use	Dyes 250 ppm	Acid digestion, ICP
		Leather	No intentional use	Dyes 250 ppm	
		Polymers (R,F,A)*	No intentional use	Dyes 250 ppm	
7440-02-0	Nickel	Textile	No intentional use	Dyes 250 ppm	Acid digestion, ICP
		Leather	No intentional use	Dyes 250 ppm	
		Polymers (R,F,A)*	No intentional use	Dyes 250 ppm	
7440-50-8	Copper	Textile	No intentional use	Dyes 250 ppm	Acid digestion, ICP
		Leather	No intentional use	Dyes 250 ppm	•
		Polymers (R,F,A)*	No intentional use	Dyes 250 ppm	
7440-48-4	Cobalt	Textile	No intentional use	Dyes 500 ppm	Acid digestion, ICP
		Leather	No intentional use	Dyes 500 ppm	-
		Polymers (R,F,A)*	No intentional use	Dyes 500 ppm	
7440-22-4	Silver	Textile	No intentional use	Dyes 100 ppm	Acid digestion, ICP
		Leather	No intentional use	Dyes 100 ppm	-
		Polymers (R,F,A)*	No intentional use	Dyes 100 ppm	



UV absorbers

Potential Uses in Apparel and Footwear Textile Processing:

These are frequently used in formulations to be stable to the influences of light and UV

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
36437-37-	2-(2H-benzotriazol-	Textile	No intentional use	1000 ppm	Solvent extraction, LC
3	2-yl)-4-(tert- Leather No intentional use 1000 ppm N	MS/MS, GC MS			
	butyl)-6-(sec- butyl) phenol (UV-350)	Polymers (R,F,A)*	No intentional use	1000 ppm	
3846-71-7	2-benzotriazol-2-yl-	Textile	No intentional use	1000 ppm	Solvent extraction, LC
	4,6-di-tert- butylphenol (UV-320)	Leather	No intentional use	1000 ppm	MS/MS, GC MS
		Polymers (R,F,A)*	No intentional use	1000 ppm	
3864-99-1	2,4-Di-tert-butyl-6-(5	Textile	No intentional use	1000 ppm	Solvent extraction, LC
	-chlorobenzotriazole	Leather	No intentional use	1000 ppm	MS/MS, GC MS
	-2-yl) phenol (UV-327)	Polymers (R,F,A)*	No intentional use	1000 ppm	
25973-55-	2-(2H-benzotriazol-	Textile	No intentional use	1000 ppm	Solvent extraction, LC
1	2-yl)-4,6-ditertpentyl	Leather	No intentional use	1000 ppm	MS/MS, GC MS
	phenol (UV-328)	Polymers (R,F,A)*	No intentional use	1000 ppm	



Volatile Organic Compounds (VOC)

Potential Uses in Apparel and Footwear Textile Processing:

These Volatile Organic Compounds (VOC) should not be used in textile auxiliary chemical preparations. They are associated with solvent-based processes like solvent-based polyurethane coatings and glues/ adhesives. They should not be used for any kind of facility cleaning or spot cleaning.

Cas No	Substance	Applicability	Supplier Guidance	Formulation Limit	General Techniques for Analysing Chemicals
71-43-2	Benzene	Textile	No intentional use	50 ppm	GC-MS
		Leather	No intentional use	50 ppm	
		Polymers (R,F,A)*	No intentional use	50 ppm	
95-48-7	o-cresol	Textile	No intentional use	500 ppm	GC-MS
		Leather	No intentional use	500 ppm	
		Polymers (R,F,A)*	No intentional use	500 ppm	
106-44-5	p-cresol	Textile	No intentional use	500 ppm	GC-MS
		Leather	No intentional use	500 ppm	
		Polymers (R,F,A)*	No intentional use	500 ppm	
1330-20-7	Xylene	Textile	No intentional use	500 ppm	GC-MS
		Leather	No intentional use	500 ppm	
		Polymers (R,F,A)*	No intentional use	500 ppm	
108-39-4	m-cresol	Textile	No intentional use	500 ppm	GC-MS
		Leather	No intentional use	500 ppm	
		Polymers (R,F,A)*	No intentional use	500 ppm	