



CHEMICAL SAFETY REQUIREMENTS for TEXTILES, APPAREL, ACCESSORIES AND FOOTWEAR

INTRODUCTION

A -The requirements, listed in the following pages, are applicable to Materials and Products included in the category: Textiles, Apparel accessories and Footwear.

Where not differently specified, the applicability extends to Children Garment & Accessories, Adults Garment & Accessories; Children Footwear; Adult Footwear and Home Textile.

B - All products supplied to OVS Spa must comply with Directive EC 95/2001 General Product Safety (GPSD), Reg.(EC) 1907 as amended, Reg.(EC) 850 as amended and with OVS Spa RSL (Restricted Substances List) .

C - Rev. 10 -Reviewed on September 2023.

We provides updates to support suppliers to be aligned with the continuous evolution of global applicable regulations, the new evidences on chemical risks and toxicology and the related scientific advancements. Information has informative value only and all suppliers are fully responsible for products compliance.

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CHEMICAL SAFETY REQUIREMENTS

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method and Technical details (indicative not exhaustive list)
Alkylphenol (AP)	Nonyl-Phenol (NP) & Octylphenol (OP) mixed isomers	various CAS#	≤50ppm	GC - MC LC - MS (Liquid chromatography – mass spectrometry)
Alkylphenol Ethoxylates (APEOs)	Nonyl-Phenol Ethoxylates (NPEOs) & Octylphenol Ethoxylates (OPEOs), mixed isomers	various CAS#	≤100 ppm	Textile: EN ISO 18254 -1 Leather: EN ISO 18218-1
Azo amines (Azo dyes)	4-Aminobiphenyl	92-67-1	≤20 ppm	Textile EN 14362 - 1/3 Leather EN ISO 17234 - 1/2 GB/T 17592 GB/T 19942
	Benzidine	92-87-5		
	4-Chloro-o-toluidine	95-69-2		
	2-Naphthylamine	91-59-8		
	O-Aminoazotoluene	97-56-3		
	2-Amino-4-nitrotoluene	99-55-8		
	p-Chloroaniline	106-47-8		
	2,4-Diaminoanisole (4-methoxy-m-phenylenediamine)	615-05-4		
	4,4'-Diaminodiphenylmethane	101-77-9		
	3,3'-Dichlorobenzidine	91-94-1		
	3,3'-Dimethoxybenzidine	119-90-4		
	3,3'-Dimethylbenzidine	119-93-7		
	3,3'-Dimethyl-4,4'-diaminobiphenylmethane	838-88-0		
	p-Cresidine (2-Methoxy-5-mehtylaniline)	120-71-8		
	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4		
	4,4'-Oxydianiline	101-80-4		
	4,4'-Thiodianiline	139-65-1		
	o-Toluidine	95-53-4		
	2,4-Toluyldiamine	95-80-7		
	2,4,5-Trimethylaniline	137-17-7		
	2-Methoxyaniline (O-Anisidine)	90-04-0		
	2,4-Xylidine	95-68-1		
	2,6-Xylidine	87-62-7		
4-Aminoazobenzene	60-09-3			
Aniline	62-53-3	≤100 ppm		
Bisphenol A	Bisphenol-A (BPA)	80-05-7	UDL	EN ISO 18857-2
Chlorinated Paraffins - Flame Retardants	Short chain chlorinated paraffins / C10-13	85535-84-8	UDL	GC-MS or LC-MS; GC-MS headspace
	Medium chain chlorinated paraffins / C14-17	85535-84-9	UDL	ISO 18219
Chlorinated Phenols	Pentachlorofenol (PCP)	87-86-5	≤0,05 ppm (≤0,5 for leather)	Textile UNI 11057 ISO 17070 Leather
	2,3,5,6 - Tetrachlorphenol	935-95-5	≤0,05 ppm (≤0,5 for leather)	
	2,3,4,6 - Tetrachlorphenol	58-90-2		
	2,3,4,5 - Tetrachlorphenol	4901-51-3		
	2,4,6 - Trichlorophenol	88-06-2		
	2,3,4 - Trichlorophenol	15950-66-0		
	2,3,5 - Trichlorophenol	933-78-8		
	2,3,6 - Trichlorophenol	933-75-5		
	2,4,5 - Trichlorophenol	95-95-4		
	3,4,5 - Trichlorophenol	609-19-8		
Chloro Organic Carriers (Chlorobenzenes and Chlorotoluenes)	2-Chlorotoluene	95-49-8		≤1 ppm
	3-Chlorotoluene	108-41-8		
	4-Chlorotoluene	106-43-4		
	2,3-Dichlorotoluene	32768-54-0		
	2,4-Dichlorotoluene	95-73-8		
	2,5-Dichlorotoluene	19398-61-9		
	2,6-Dichlorotoluene	118-69-4		
	3,4-Dichlorotoluene	95-75-0		
	2,3,6-Trichlorotoluene	2077-46-5		
	2,4,5-Trichlorotoluene	6639-30-1		
	2,3,4,5-Tetrachlorotoluene	76057-12-0		
	2,3,5,6-Tetrachlorotoluene	875-40-1		
	Pentachlorotoluene	877-11-2		
	1,3-Dichlorobenzene	541-73-1		
	1,4-Dichlorobenzene	106-46-7		
	1,2,3-Trichlorobenzene	87-61-6		
	1,2,4-Trichlorobenzene	120-82-1		
	1,3,5-Trichlorobenzene	108-70-3		
	1,2,3,4-Tetrachlorobenzene	634-66-2		
	1,2,3,5-Tetrachlorobenzene	634-90-2		
	1,2,4,5-Tetrachlorobenzene	95-94-3		
	Pentachlorobenzene	608-93-5		
	Hexachlorobenzene	118-74-1		
1,2-Dichlorobenzene	95-50-1			
Dimethylformamide	Dimethylformamide (DMFa)	68-12-2	≤200 ppm	ISO/TS 16189
Dimethylfumarate	Dimethylfumarate (DMFu)	624-49-7	≤0,1 ppm	GC-MS / GS-ECD; ISO/TS 16186

CHEMICAL SAFETY REQUIREMENTS

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method and Technical details (indicative not exhaustive list)
Dispersed Dyes - allergenic and cancerogenic dyes	C.I. Disperse Blue 1	2475-45-8	UDL	DIN 54231 ISO 16373 ISO 16374
	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	1222-75-2		
	C.I. Disperse Blue 100	69196-16-6		
	C.I. Disperse Blue 106	12223-01-7		
	C.I. Disperse Blue 124	61951-51-7		
	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 11	82-28-0		
	C.I. Disperse Orange 37/76/59	12223-33-5		
	C.I. Disperse Orange 149	13301-61-6		
	C.I. Disperse Orange 149	51811-42-8		
	C.I. Disperse Red 1	85136-74-9		
	C.I. Disperse Red 13	2872-52-8		
	C.I. Disperse Red 13	2872-48-2		
	C.I. Disperse Red 17	3179-88-3		
	C.I. Disperse Red 151	61968-47-5		
	C.I. Disperse Yellow 1	119-15-3		
	C.I. Disperse Yellow 2	2872-46-8		
	C.I. Disperse Yellow 7	6300-31-4		
	C.I. Disperse Yellow 8	6373-73-5		
	C.I. Disperse Yellow 23	6250-23-3		
	C.I. Disperse Yellow 39	17236-28-2		
	C.I. Disperse Yellow 49	54824-37-7		
	C.I. Disperse Yellow 56	54077-16-6		
	C.I. Acid Red 26	3783-53-3		
	C.I. Basic Red 9	569-61-9		
	C.I. Basic Green 4	569-64-2		
	C.I. Basic Violet 2	2447-28-8		
	C.I. Basic Violet 3	10309-95-2		
	C.I. Basic Violet 4	548-62-9		
	C.I. Basic Blue 26	632-99-5		
	C.I. Basic Blue 26	2980-36-5		
	C.I. Direct Black 38	1937-37-7		
	C.I. Direct Blue 6	2602-46-2		
	C.I. Direct Red 28	573-58-0		
	C.I. Direct Brown 95	16071-86-5		
	4-Dimethylaminoazobenzene (Solvent Yellow 4)	60-11-7		
	C.I. Solvent Blue 4	6786-83-0		
	4,4'-bis(dimethylamino)-4''-(methylenedioxy)triphenyl alcohol	118685-33-9		
	Navy Blue Component 1	na		
	Navy Blue Component 2	na		
Flame Retardant	Tris(2,3-dibromopropyl)phosphate (TBP)	126-72-7	≤5 ppm	ISO 17881-1
	Tris(1-acridinyl)phosphine oxide (TEPA)	545-55-1		
	Pentabromodiphenyl ether (PentaBDE)	32534-81-9		
	Octabromodiphenyl ether (OctaBDE)	32536-52-0		
	Decabromodiphenyl ether (DecaBDE)	1163-19-5		
	Tetrabromobisphenol A (TBBPA)	79-94-7		
	Tris(2-chloroethyl)phosphate (TCPEP)	115-96-8		
	Dibromobisphenol A (DBPA)	59536-45-1		
	Bi(2,3-dibromopropyl)phosphate (BIS)	5412-25-9		
	Hexabromocyclohexane (HBCDD)	3194-55-6		
	1,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0		
	Tris(1,3-dichloro-isopropyl)phosphate (TDCIP)	13674-87-8		
	Triethyl phosphate (TEP)	25155-23-1		
Formaldehyde	Formaldehyde	50-00-0	≤20 ppm	Textile ISO 14184-1/2; GB/T 2912.1 Leather ISO 17226-1/2 JIS 1041
Heavy metals (Extractable / Migrable vs EN 71-3)	Antimony (Sb)	7440-36-0	≤30 ppm extractable ≤600 ppm migrable	Extractable: ISO 105-E04
	Aluminium	7429-90-5	≤28130 ppm migrable	Textile 16711-2 Leather EN 17072-1 Migrable: EN 71-3:2019+A1:2021 GB 25038
	Arsenic (As)	7440-38-2	≤0,20 ppm extractable ≤47 ppm migrable	Extractable: ISO 105-E04
	Barium (Ba)		≤ 18750 ppm migrable	EN 71-3:2019+A1:2021
	Boron (B)		≤ 15000 ppm migrable	EN 71-3:2019+A1:2021
	Cadmium (Cd)	7440-43-9	≤0,1 ppm extractable ppm migrable	Extractable: ISO 105-E04 Textile 16711-2 Leather EN 17072-1 Migrable: EN 71-3:2019+A1:2021 GB 25038
	Chromium III (Cr)	744-47-3	≤1,0 ppm extractable ≤60 ppm extractable on leather ≤460 ppm migrable	Extractable: ISO 105-E04 Textile 16711-2 Leather EN 17072-1 Migrable: EN 71-3:2019+A1:2021
	Chromium VI	18540-29-9	≤0,053 ppm migrable	Migrable: EN 71-3:2019+A1:2021
	Chromium VI (on Leather)	18540-29-9	UDL	ISO17075 aft Ageing ISO10195 meth. A2 ISO 105-E04
	Cobalt (Co)	7440-48-4	≤1 ppm extractable ≤130 ppm migrable	Textile 16711-2 Leather EN 17072-1 Extractable: EN 71-3:2019+A1:2021 ISO 105-E04
	Copper (Cu)	7440-50-8	≤25 ppm extractable ≤7000 ppm migrable	Textile 16711-2 Leather EN 17072-1 Migrable: EN 71-3:2019+A1:2021 EN 71-3:2019+A1:2021
	Lead (Pb)	7439-92-1	≤0,20 ppm extractable ppm migrable	Extractable: ISO 105-E04 Textile 16711-2 Leather EN 17072-1 Migrable: EN 71-3:2019+A1:2021 GB 25038
	Mercury (Hg)	7439-97-6	≤0,02 ppm extractable ppm migrable	Extractable: ISO 105-E04 Textile 16711-2 Leather EN 17072-1 Migrable: EN 71-3:2019+A1:2021
	Nickel (Ni)	7440-02-0	≤1 ppm extractable ≤90ppm	Extractable: ISO 105-E04 AAS / ICP Migrable: EN 71-3:2019
	Selenium (Se)	7882-49-2	≤100 ppm extractable ppm migrable	Extractable: ISO 105-E04 Textile 16711-2 Leather EN 17072-1 Migrable EN 71-3:2019+A1:2021
	Manganese (Mn)	7439-96-5	≤15.000 ppm migrable	Migrable EN 71-3:2019+A1:2021
	Strontium (Sr)		≤56000 ppm migrable	Migrable EN 71-3:2019+A1:2021
	Tin (Sn)		≤180000 ppm migrable	EN 71-3:2019+A1:2021
	Organic Tin		≤12 ppm migrable	EN 71-3:2019+A1:2021
	Zinc (Zn)		≤46000ppm migrable	EN 71-3:2019+A1:2021
Nickel released	Nickel (Ni)	7440-02-0	0,5 µg/cm²/week	EN 1811 & EN 12472 EN 16128:2015 for Sunglasses



Rev 10

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CHEMICAL SAFETY REQUIREMENTS

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method and Technical details (indicative not exhaustive list)
N-nitrosoamine	N-nitrosodimethylamine (NDMA)	62-75-9	≤0,5 ppm	GB/T 24153
	N-nitrosodiethylamine (NDEA)	55-18-5		
	N-nitrosodipropylamine (NDPA)	621-64-7		
	N-nitrosodibutylamine (NDBA)			
	N-nitrosopiperidine (NPIP)	100-75-4		
	N-nitrosopyrrolidine (NPYR)			
	N-nitrosomorpholine (NMOR)	59-89-2		
	N-nitroso N-methyl N-phenylamine (NMPhA)	614-00-6		
	N-nitroso N-ethyl N-phenylamine (NEPhA)	612-64-6		
Organotin Compounds	Dibutyltin (DBT)		≤1,0 ppm	ISO 17353 ISO 23161
	Dioctyltin (DOT)		≤1,0 ppm	
	Monobutyltin (MBT)		≤1,0 ppm	
	Tributyltin (TBT)		≤0,5 ppm	
	Triphenyltin (TPhT)		≤0,5 ppm	
	All tri-substituted Organotin compounds		≤1,0 ppm	
Orto phenyl-phenol (OPP)	Orto phenyl-phenol	90-43-7	≤50 ppm	Solvent extraction / LC-MS-MS
Perfluorinated polyfluorinated chemicals (PFCs)	Perfluorooctane Sulfonate (PFOS) and related substances	2795-39-3	≤1 µg/m ²	EN ISO 23702-1 / EN 17681-1
	Perfluorooctanoic acid (PFOAS) and its salts	3825-26-1	25 ppb	
Pesticides	(See attachment 1)		≤0,5 ppm	ISO 15913/DIN 38407 F2 or EPA 8081/EPA 8151A
Phtalates	Di-iso-nonylphthalate (DINP)	28553-12-0	≤0,1% (≤1000ppm)	EN ISO 14389 CPSC-CH-C1001-9,4 GB/T 22048
	Di-n-octylphthalate (DNOP)	117-84-0		
	Di(2-ethylhexyl)-phthalate (DEHP)	117-81-7		
	Diisodecylphthalate (DIDP)	26761-40-0		
	Butylbenzylphthalate (BBP)	85-68-7		
	Dibutylphthalate (DBP)	84-74-2		
	Diisobutylphthalate (DIBP)	84-69-5		
	Di(C7-C11 alkyl) phthalate (DHUNP), linear + branched	68515-42-4		
	Di(C6-C8 alkyl) phthalate (DIHP), branched, C7 rich	71888-89-6		
	Di(2-methoxyethyl) phthalate (DMEP)	117-82-8		
	Di-n-hexylphthalate (DnHP)	84-75-3		
	Diethylphthalate (DEP)	84-66-2		
	Diisopentylphthalate (DIIPP)	605-50-5		
	n-Pentylisopentylphthalate (NPIPP)	776297-69-9		
	Di-n-pentylphthalate (DPP)	131-18-0		
	Dihexylphthalate, branched + linear	68515-50-4		
Dimethylphthalate (DMP)	131-11-3			
1,2-Benzenedicarboxylic acid, dipentylester, branched + linear	84777-06-0			
Polycyclic Aromatic Hydrocarbons (PAHs)	See List Attachment 2	See List Attachment 2	See Attachment 2	AFPS GS
Organic Volatile Compounds (VOCs)	Benzene	71-43-2	ppm ≤ 5	120°C - 1 hr - GC-MS head space
	Xylenes (meta-, ortho-,para-)	1330-20-7 + isomer	ppm ≤ 500	
	Acetophenone	98-86-2	ppm ≤ 50	
	N-N-Dimethylformamide	68-12-2	ppm ≤ 300	
	2-phenyl-2-pyrrolidone	617-94-7	ppm ≤ 50	
	Toluene	108-88-3	ppm ≤ 300	
Naphtalene	91-20-2	ppm ≤ 2		

List II - Pesticides

Name	CAS-Nr.
2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds	93-72-1
2,4,5-T	93-76-5
2,4,5-TP ChemRRV	93-72-1
2,4-D	94-75-7
Aldrine	309-00-2
Azinophosmethyl	86-50-0
Azinophosethyl	2642-71-9
Bromophos-ethyl	4824-78-6
Captafol	2425-06-01
Carbaryl	63-25-2
Chlorbenzilat	510-15-6
Chlordane	57-74-9
Chlordimeform	6164-98-3
Chlorfenvinphos	470-90-6
Chlorthalonil	1897-45-6
Coumaphos	56-72-4
Cyfluthrin	68359-37-5
Cyhalothrin	91465-08-6
Cypermethrin	52315-07-8
S,S,S-Tributyl phosphorotrithioate (Tribufos)	78-48-8
Deltamethrin	52918-63-5
DDD	5319-0 / 72-54-8
DDE	72-55-9
DDT	789-02-6
Diazinone	333-41-5
Dichlorofluanide	1085-98-9
Dichloroprop	120-36-2
Dicofof	115-32-2
Dicrotophos	141-66-2
Dieldrine	60-57-1
Dimethoate	60-51-5
Dinoseb, its salts and acetate	88-85-7
DTTB (Timiperone)	57648-21-2
Endosulfan	115-29-7
Endosulfan I (alpha)	959-98-8
Endosulfan II (beta)	115-29-7
Endrine	72-20-8
Esfenvalerate	66230-04-4
Ethylendibromid	108-93-4
Ethylparathione	56-38-2
Fenvalerate	51630-58-1
Halogenated biphenyls, including Polychlorinatedbiphenyl (PCB)	various
Halogenated terphenols, including polychlorinated terphenyl (PCT)	various
Halogenated naphthalenes, including polychlorinated naphthalenes (PCNs)	various
Halogenated diarylalkanes	various
Halogenated diphenyl methanes, including Monomethyl-dibromo-diphenyl methane, Monomethyl-dichloro-dephenyl methane, and Monomethyl-tetrachloro-diphenyl methane	99688-47-8 / 81161-70-8 / 76253-60-6
Heptachlor	76-44-8
Heptachloroepoxide	
Hexabromobiphenyl	36355-01-8
a-Hexachlorocyclohexane with and without Lindane	319-85-7
b-Hexachlorocyclohexane with and without Lindane	319-85-7
g-Hexachlorocyclohexane with and without Lindane	319-86-8
Hexachlorobenzene	118-74-1
Isodrine	465-73-6
Kelevane	4234-79-1
Kepone	143-50-0
Lead hydrogen arsenate	7784-40-9
Lindane	58-89-9
Malathione	121-75-5
MCPA	94-74-6
MCPB	94-81-5
Mecoprop	93-65-2
Metamidophos	10265-92-6
Methoxychlor	72-43-5
Mirex	2385-85-5
Monocrotophos	6923-22-4
Parathion	56-38-2
Parathion-methyl	298-00-0
Pentabromobenzene	608-90-2
Pentachloroanisole	1825-21-4
Permethrine	52645-53-1
Phosdrin/Mevinphos	7786-34-7
Perthane	72-56-0
Propethamphos	31218-83-4
Profenophos	41198-08-7
Quinalphos	13593-03-8
Quintozene	82-68-8
Strobane	8001-50-1
Telodrine	297-78-9
Toxaphene	8001-35-2
Tolyfluamide	731-27-1
Trifuraline	1582-09-8

List 2 - PAH					
Substance	Category 1	Category 2		Category 3	
	Materials intended to be put in the mouth, or materials of toys with intended to long-term skin contact(longer than 30 seconds)	Materials not covered by Category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact		Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 second(short term skin contact)	
		Toys in the scope of 2009/48/EC	Other products in the scope	Toys in the scope of 2009/84/EC	Other products in the scope
BENZO(a)PYRENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
BENZO(e)PYRENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
BENZO(a)ANTHRACENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
BENZO(b)FLUORANTHENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
BENZO(j)FLUORANTHENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
BENZO(k)FLUORANTHENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
CHRYSENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
DIBENZO(a,h)ANTHRACENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
BENZO(g,h,i)PERYLENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
INDENO(1,2,3-cd)PYRENE	< 0.2	< 0.2	< 0.5	< 0.5	< 1
PHENANTHRENE, PYRENE, ANTHRACENE, FLUORANTHENE	Sum > 1	Sum <5	Sum <10	Sum <20	Sum <50
NAPHTHALENE	< 1.0		< 2.0		< 2.0
Sum of 15 PAH	< 1	< 5	< 10	< 20	< 50