



RESTRICTED SUBSTANCES LIST

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INTRODUCTION

We consider the safety and quality of products an essential prerequisite for our product offer.

Therefore, all OVS Spa suppliers are formally required to sign and adhere to a list of restrictions on the use of potentially hazardous chemicals, called OVS Spa Restricted Substances List.

These restrictions are based on the most stringent regulations at global level. In the cases where there is some evidence that a chemical could potentially present a risk for the customer even if a specific legislation has not yet been issued, OVS has set stricter voluntary limitations.

These standards are mandatory and we fully expect and require that all our suppliers comply with these requirements, which form part of our contractual relationship.

Regardless of the commitments accepted by the Suppliers, to verify its correct implementation and ensure that these restrictions are met, OVS Spa constantly test all its products, performing more than 40,000 tests every year.

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

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

RESTRICTED SUBSTANCES LIST

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) Textile: EN ISO 18254 -1 Leather: EN ISO 18218-1
Alkylphenol Ethoxylates (APEOs)	Nonyl-Phenol Ethoxlates (NPEOs) & Octylphenol Ethoxlates (OPEOs), mixed isomers	various CAS#	≤100 ppm	
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-cloroaniline)	101-14-4		
	4,4'-Oxydianiline	101-80-4		
	4,4'-Thiodianiline	139-65-1		
	o-Toluidine	95-53-4		
2,4-Toluylendiamine	95-80-7			
2,4,5-Trimethylaniline	137-17-7			

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method and Technical details (indicative not exhaustive list)
	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		
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 ISO 18219
	Medium chain chlorinated paraffins / C14-17	85535-84-9	UDL	
Chlorinated Phenols	Pentachlorofenol (PCP)	87-86-5	≤0,05 ppm (≤0,5 for leather)	Textile UNI 11057 Leather ISO 17070
	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	DIN 54232
	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		

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method and Technical details (indicative not exhaustive list)
	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	12222-75-2		
	C.I. Disperse Blue 102	69766-76-6		
	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		
		13301-61-6		
		51811-42-8		
	C.I. Disperse Orange 149	85136-74-9		
	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 Red 151	61968-47-6		
	C.I. Disperse Yellow 1	119-15-3		
	C.I. Disperse Yellow 3	2832-40-8		
	C.I. Disperse Yellow 7	6300-37-4		
	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 56	54077-16-6		
C.I. Acid Red 26	3761-53-3			
C.I. Basic Red 9	569-61-9			
C.I. Basic Green 4	569-64-2			

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method and Technical details (indicative not exhaustive list)
		2437-29-8		
		10309-95-2		
	C.I. Basic Violet 3	548-62-9		
	C.I. Basic Violet 14	632-99-5		
	C.I. Basic Blue 26	2580-56-5		
	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	16071-86-6		
	4-Dimethylaminoazobenzene (Solvent Yellow 2)	60-11-7		
	C.I. Solvent Blue 4	6786-83-0		
	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1		
Dyes Navy Blue Multicomponent Mixture	Navy Blue Component 1	118685-33-9	UDL	DIN 54231
	Navy Blue Componenti 2	na		
Flame Retardant	Tris(2,3-dibromopropyl)phosphate (TRIS)	126-72-7	≤5 ppm	ISO 17881-1
	Tris(1-aziridinyl)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 (TBBP A)	79-94-7		
	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8		
	Polybromobiphenyls (PBB)	59536-65-1		
	Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9		
	Hexabromocyclododecane (HBCDD)	3194-55-6		

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method and Technical details (indicative not exhaustive list)
	2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0		
	Tris(1,3-dichloro-isopropyl) phosphate (TDCPP)	13674-87-8		
	Trixylyl phosphate (TXP)	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 ≤60 ppm migrable	Extractable: ISO 105-E04 Textile 16711-2 Leather EN 17072-1
	Arsenic (As)	7440-38-2	≤0,20 ppm extractable ≤25 ppm migrable	Migrable: EN 71-3 GB 25038
	Barium (Ba)		≤ 1000 ppm migrable	EN 71-3
	Cadmium (Cd)	7440-43-9	≤0,1 ppm extractable ≤75 ppm migrable	Extractable: ISO 105-E04 Textile 16711-2 Leather EN 17072-1 Migrable: EN 71-3 GB 25038
	Chromium (Cr)	744-47-3	≤1,0 ppm extractable ≤60 ppm migrable	Extractable: ISO 105-E04 Textile 16711-2 Leather EN 17072-1 Migrable: EN 71-3
	Chromium VI	18540-29-9	UDL	ISO 17075 for Leather

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method and Technical details (indicative not exhaustive list)
	Cobalt (Co)	7440-48-4	≤1 ppm extractable	ISO 105-E04 Textile 16711-2 Leather EN 17072-1
	Copper (Cu)	7440-50-8	≤25 ppm extractable	ISO 105-E04 Textile 16711-2 Leather EN 17072-1
	Lead (Pb)	7439-92-1	≤0,20 ppm extractable ≤90 ppm migrable	Extractable: ISO 105-E04 Textile 16711-2 Leather EN 17072-1 Migrable: EN 71-3 GB 25038
	Mercury (Hg)	7439-97-6	≤0,02 ppm extractable ≤60 ppm migrable	Extractable: ISO 105-E04 Textile 16711-2 Leather EN 17072-1 Migrable: EN 71-3
	Nickel (Ni)	7440-02-0	≤1 ppm extractable	Extractable: ISO 105-E04 AAS / ICP
	Selenium (Se)	7782-49-2	≤100 ppm extractable ≤500 ppm migrable	Extractable: ISO 105-E04 Textile 16711-2 Leather EN 17072-1 Migrable EN 71-3
	Manganese (Mn)	7439-96-5	≤15.000 ppm migrable	Migrable EN 71-3
Nickel released	Nickel (Ni)	7440-02-0	≤0,5µg/cm ² /week ≤0,2 for Piercing	EN 1811 & EN 12472 EN

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method and Technical details (indicative not exhaustive list)
				16128:2015 for Sunglasses

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 (NMPPhA)	614-00-6		
	N-nitroso N-ethyl N-phenylamine (NEPhA)	612-64-6		
Organotin Compounds	Dibutyltin (DBT)		≤1,0 ppm	ISO 17353 ISO 23161
	Diocetyl tin (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)	2795-39-3	≤1 µg/m ²	Solvent extraction / LC-MS-MS CEN/TS 15968
	Perfluorooctanoic acid (PFOAS) and its salts and esters	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 GB/T 22048 CPSC-CH-C1001-9,4
	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 (DIPP)	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)	Acenaphthene	83-32-9	≤5,0 ppm single and total	AFPS GS 2014
	Acenaphthylene	208-96-8		
	Anthracene	120-12-7		
	Benzo[a]anthracene	56-55-3		
	Benzo[a]pyrene	50-32-8		
	Benzo[b]fluoranthene	205-99-2		
	Benzo[e]pyrene	192-97-2		
	Benzo[ghi]perylene	191-24-2		
	Benzo[j]fluoranthene	205-82-3		
	Benzo[k]fluoranthene	207-08-9		
	Chrysene	218-01-9		
	Cyclopenta[c,d]pyrene	27208-37-3		
	Dibenz[a,h]anthracene	53-70-3		
	Dibenzo[a,e]pyrene	192-65-4		
	Dibenzo[a,h]pyrene	189-64-0		
	Dibenzo[a,i]pyrene	189-55-9		
	Dibenzo[a,l]pyrene	191-30-0		
	Fluoranthene	206-44-0		
	Fluorene	86-73-7		
	Indeno[1,2,3-cd]pyrene	193-39-5		
1-Methylpyrene	2381-21-7			
Naphthalene	91-20-3			
Phenanthrene	85-01-8			
Pyrene	129-00-0			
Indeno[1,2,3-cd]pyrene	193-39-5			
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	
Short-chain chlorinated Paraffins (SCCP) (C10-C13)			ppm ≤ 1000	
Medium-chain chlorinated Paraffins (MCCP) (C14-C17)			ppm ≤ 1000	
Phenylmercury compounds			mg/kg 1000	ISO 8124-5
Reg. EC 1907/2006 "REACH" Encl. XVII (SVHC candidate list)	See SVHC latest List		≤0,1 %	
CMR substances - Reg.(CE) 1907 "REACH" & Reg. (EU) 2018/1513	See List from Regulation		≤0,1 %	
POPs - Reg. (EU) 2019/1021 Stockholm Convention on Persistent Organic Pollutants (POPs)	See List from Regulation		UDL	

REVISIONS

This version of the OVS Spa Restricted Substance List has been revised and issued on **December 2020**

The OVS Spa Restricted Substance List is regularly reviewed and updated to reflect the continuous evolution of global applicable regulations, the new evidences on chemical risks and toxicology and the related scientific advancements to further drive safety improvements across the industry. In any case, regardless of what specified in this Restricted Substance List, all products supplied to OVS SpA must comply also with Directive EC 95/2001 General Product Safety (GPSD), Reg.(EC) 1907/2016 as amended, Reg.(EC) 850/2004 as amended and with OVS Spa RSL (Restricted Substances List).

APPROVALS AND CONTACTS

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Quality Assurance Department Manager of OVS Spa

ATTACHMENT 1 – AGRICULTURAL PESTICIDES LIST

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
Dicofol	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
Tolyfluanide	731-27-1
Trifuraline	1582-09-8