



RESTRICTED SUBSTANCE 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 Substance 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 20,000 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 SUBSTANCE LIST

CHEMICAL SAFETY REQUIREMENTS

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method
Alkylphenol (AP)	Nonyl-Phenol (NP) & Octylphenol (OP) mixed isomers	various CAS#	50ppm	LC – MS Textile: EN ISO 18254:2014
Alkylphenol Ethoxylates (APEOs)	Nonyl-Phenol Ethoxlates (NPEOs) & Octylphenol Ethoxlates (OPEOs), mixed isomers	various CAS#	100 ppm	Leather: EN ISO 18218-1:2015
Azo amines (Azo dyes)	4-Aminobiphenyl	92-67-1	20 ppm	EN 14362 EN ISO 17234 GB 17592
	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			

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method
Azo amines (Azo dyes)	p-Cresidine (2-Methoxy-5-mehtylaniline)	120-71-8	20 ppm	EN 14362 EN ISO 17234 GB 17592
	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		
	2-Methoxyaniline (O-Anisidine)	90-04-0		
	2,4-Xylidine	95-68-1		
	2,6-Xylidine	87-62-7		
	4-Aminoazobenzene	60-09-3		
Bisphenol A	Bisphenol-A (BPA)	80-05-7	UDL	Extraction with methanol Measurement: DIN 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 18219:2015
	Medium chain chlorinated paraffins / C14-17	85535-84-9	UDL	
Chlorinated Phenols	Pentachlorofenol (PCP)	87-86-5	0,05 ppm (0,5 for leather)	ISO 17070 GC-MS / GS-ECD
	2,3,5,6 - Tetrachlorphenol	935-95-5		
	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		
	Pentachlorofenol (PCP)	87-86-5		
	2,3,5,6 - Tetrachlorphenol	935-95-5		
	2,3,4,6 - Tetrachlorphenol	58-90-2		
	2,3,4,5 - Tetrachlorphenol	4901-51-3		

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method
Chlorinated Phenols	2,4,6 - Trichlorophenol	88-06-2	0,05 ppm (0,5 for leather)	ISO 17070 GC-MS / GS-ECD
	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 total	DIN 54232:2010
	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	DIN CEN ISO/TS 16189:2013
Dimethylfumarate	Dimethylfumarate (DMFu)	624-49-7	0,1 ppm	GC-MS / GS-ECD; ISO/TS 16186:2012

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method
Dispersed Dyes - allergenic and carcinogenic dyes	C.I. Disperse Blue 1	2475-45-8	UDL	DIN 54231:2005
	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		
		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-Dimethyl-aminoazobenzene	60-11-7			
C.I. Solvent Blue 4	6786-83-0			
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1			

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method	
Dyes Navy Blue Multi-component Mixture	Navy Blue Component 1	118685-33-9	UDL	DIN 54231:2005	
	Navy Blue Componenti 2	na			
Flame Retardant	Tris(2,3-dibromopropyl)phosphate (TRIS)	126-72-7	5 ppm	GC-MS or LC-MS	
	Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1		LC_MS	
	Pentabromodiphenyl ether (PentaBDE)	32534-81-9		Acetonitril extraction, LC-DAD-MS and confirmation with GC/MS	
	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			Methanol extraction, GC/MS
	Polybromobiphenyls (PBB)	59536-65-1			
	Bis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9			
	Hexabromocyclododecane (HBCDD)	3194-55-6			
	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	ISO 14184-1/2	
Heavy metals	Antimony (Sb)	7440-36-0	30ppm extractable / 60ppm migrable	Extractable: ISO 105-E04 AAS / ICP Migrable: EN 71 part 3	
	Arsenic (As)	7440-38-2	0,2ppm extractable / 25ppm migrable		
	Cadmium (Cd)	7440-43-9	0,1 ppm extractable / 50 ppm migrable	AAS	

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method
Heavy metals	Lead (Pb)	7439-92-1	0,20 ppm extraction / 90 ppm migrable	Extractable: ISO 105-E04 AAS / ICP Migrable: EN 71 part 3
	Mercury (Hg)	7439-97-6	0,02 ppm extractable / 25ppm migrable	Extractable: ISO 105-E04 AAS / ICP Migrable: EN 71 part 3
	Nickel (Ni)	7440-02-0	1 ppm + test on skin contact (pierced part missing)	ISO 105-E04 AAS / ICP EN 1811 / EN 12472
	Selenium (Se)	7782-49-2	500 pm (extracion)	EN 71 part 3
N-nitrosoamine	N-nitrosodimethylamine (NDMA)	62-75-9	0,5 ppm	GB/T 24153-2009
	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)	various	1 ppm	ISO 17353:2006 ISO 23161:2009
	Diocetyl tin (DOT)	various	1 ppm	
	Monobutyltin (MBT)	various	1 ppm	
	Tributyltin (TBT)	various	0,5 ppm	
	Triphenyltin (TPhT)	various	0,5 ppm	
	All tri-substituted Organotin compounds	various	1 ppm	

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method
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	1microg/m ²	Solvent extraction / LC-MS-MS CEN/TS 15968:2014
	Perfluorooctanoic acid (PFOAS) and its salts and esters	3825-26-1	1microg/m ²	
Pesticides - agricultural	(See attachment 1)		0,5 ppm each	ISO 15913/DIN 38407 F2 or EPA 8081/EPA 8151A or BVL L 00.00-34:2010-09
Phthalates	Di-iso-nonylphthalate (DINP)	28553-12-0	0,1%	EN 15777 for Textiles
	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			

CLASS	SUBSTANCE	CAS NUMBER	Limit	Test Method
Phtalates	Diisopentylphthalate (DIPP)	605-50-5	0,1%	EN 15777 for Textiles
	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	0,5 ppm / total 5 ppm	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			

REVISIONS

This version of the OVS SpA Restricted Substance List has been revised and issued on:

1st December 2016

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 the General Product Safety Directive (GPSD) 95/2001/CE and following amendments and all the other relevant worldwide regulations and related updates.

APPROVALS AND CONTACTS

Approved by:

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Quality Assurance Department Manager of OVS Spa

ATTACHMENT 1 – AGRICULTURAL PESTICIDES LIST

SUBSTANCE	CAS NUMBER
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

SUBSTANCE	CAS NUMBER
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
α-Hexachlorocyclohexane with and without Lindane	319-85-7
β-Hexachlorocyclohexane with and without Lindane	319-85-7
γ-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

SUBSTANCE	CAS NUMBER
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
Trifluraline	1582-09-8