

Annex 2C – General Terms and Conditions – rev. 2020 _ Technical Card n.24 MRSL

This document reflects the contents of the TECHNICAL CARD n.24 HEALTH PROTECTION IN TEXTILES edited by Seri.co integrated by Ratti S.p.A. with additional requirements.

n.a. = not applicable

Substances	CAS-Number	Notes	Limits for formulations / chemicals used in processes (mg/kg)	Limits for textiles (mg/kg)	Test Methods
Alkylphenols and alkylphenols ethoxylates					
Alkylphenols: nonylphenol octylphenol	various various	NP OP	250 (sum)	5	ref. ISO 18254-1 and ISO 18857-1
Alkylphenols ethoxylates: nonylphenol ethoxylate octylphenol ethoxylate	various various	NPEO OPEO	500 (sum)	25 (sum)	ISO 18254-1
Chlorinated Benzenes and Toluenes					
Chlorinated Toluenes Chlorinated Benzenes Annex I	various (see annex)	chlorinated carriers	200 (sum) (tetrachlorotoluenes e trichlorotoluenes each with limit of 5 ppm)	1 (sum)	ISO 17137
Benzyl chloride				100-44-7	
Dyestuffs					
Azo-dyes that may release aromatic amines Annex II	various (see annex)	arylamine	150 (for each amine)	20 (for each amine)	EN 14362-1 e 3
Blue Dyestuff (Blue navy)					

Substances	CAS-Number	Notes	Limits for formulations / chemicals used in processes (mg/kg)	Limits for textiles (mg/kg)	Test Methods
Dyestuffs					
Carcinogenic Annex III	various (see annex)		250 (for each dyestuff)	not detectable (1 - 50 mg/kg)	ref. DIN 54231 ISO 16373-2 e 3
Allergenic Annex IV	various (see annex)	disperse dyestuffs	250 (for each dyestuff)	not detectable (5-50 mg/kg)	DIN 54231 ISO 16373-2
Chlorophenols					
Pentachlorophenol and its salts	87-86-5	PCP	20 (sum)	non detectable (0,05 mg/kg per group of substances)	LMBG 82.02-8 UNI 11057
Tetrachlorophenols Annex V	various (see annex)	TeCP			
Trichlorophenols Annex V	various (see annex)	TCP o TrCP	50 (sum)	non detectable (0,5 mg/kg per group of substances)	
Dichlorophenols Annex V	various (see annex)	DCP			
Monochlorophenols Annex V	various (see annex)	MCP			
Other biocides					
o-phenylphenol	90-43-7	OPP	200	25	ref. UNI 11057 ref.LMBG 82.02-8 EN 17134
Dimethylfumarate	624-49-7	DMFu	n.a	0,1	ref. ISO/TS 16186 EN 17130
Triclosan	3380-34-5		250	1	EN 17134
Flame retardants					
Organohalogenated and phosphorated flameretardants + inorganic flameretardants Annex VI	various (see annex)	---	not used	not detectable (1, 5, 10 mg/kg)	ISO 17881-2 ISO 17881-1 AAS o ICP
Short-Chain Chlorinated paraffins- (C10-13)	85535-84-8	SCCP	50	50 (sum)	ISO 18219 (leather)
Medium-Chain Chlorinated paraffins- C14-C17	85535-85-9	MCCP	500		prEN ISO 22699

Substances	CAS-Number	Notes	Limits for formulations / chemicals used in processes (mg/kg)	Limits for textiles (mg/kg)	Test Methods
Solvents					
Alogenated Solvents All. VII	vari (vd allegato)	---	5	not detectable	Ref. EPA methods
Benzylchloride	100-44-7	carrier, alogenated solvent	100	1	ISO 17137
1-methyl-2-pyrrolidone	872-50-4	NMP	1000	300	HS-GC-MS
N,N'-dimethylformamide	68-12-2	DMF	1000	200	ISO/TS 16189 EN 17131 HS-GC-MS
N,N'-dimethylacetamide	127-19-5	DMAc	1000	300	HS-GC-MS
Formamide	75-12-7	---	500	20	
VOCs (Volatil Organic Compounds)					
Benzene	71-43-2		50	non detectable (1 mg/kg)	HS-GC-MS
Xylene	1330-20-7		500	20	
o-cresol	95-48-7		500		
p-cresol	106-44-5		500		
m-cresol	108-39-4		500		
Organotin compound					
Dibutyltin	14488-53-0	DBT	20	1 (per substance)	ISO/TS 16179 (leather) rif. ISO 23161 (soil)
Other Organotin Compounds Annex VIII	various (see annex)	TBT, DBT, TPhT etc... various acronyms (see annex)	5 (for each substance)		
Polycyclic Aromatic Hydrocarbon (PAH)					
Benzo[a]pirene	50-32-8	BaP	20	1	AfPS GS 2014:01 ISO/TS 16190 (leather) EN 17132 (textiles)
other PAHs All. IX	various (see annex)		200 (sum)	1	

<i>Substances</i>	<i>CAS-Number</i>	<i>Notes</i>	<i>Limits for formulations / chemicals used in processes (mg/kg)</i>	<i>Limits for textiles (mg/kg)</i>	<i>Test Methods</i>
Perfluorinated Compounds (PFCs)					
Long-chain perfluorinated Polymers (≥C8) Annex XII	various		not used	not used	----
Perfluorooctanoic Acid (including its salts and polymers characterized by the structure C7F15-) Annex XII	335-67-1	PFOA	0,025	0,025 (25 µg/kg)	ref. UNI CEN/TS 15968
Related substance (including salts and polymers) with structure formula C7F15The structure must be C7F15C-X except X = F, Cl, Br Annex XII		vari	1	1 (1000 µg/kg)	ref. UNI CEN/TS 15968
Related substance (including its salts and polymers) with structure formula C8F17- Annex XII		various (including telomeres)	1	1 (1000 µg/kg)	ref. UNI CEN/TS 15968
Perfluorooctansulfonic acid and its derivatives (C8F17SO2X with X = OH, or Metal salts, halides, amides and other derivatives including polymers) Annex XII	various 1763-23-1	PFOS	2	1 µg/m²	UNI CEN/TS 15968
Other PFAS Annex. XII	various	PFC, PFAS	1 (1000 µg/kg)	1 (1000 µg/kg)	LC-MS/MS
Phthalates					
Phthalates Annex X	various (see annex)	various (see annex)	250 (sum)	200 (sum)	CPSC-CH-C-1001-09.3 UNI EN ISO 14389

<i>Substances</i>	<i>CAS-Number</i>	<i>Notes</i>	<i>Limits for formulations / chemicals used in processes (mg/kg)</i>	<i>Limits for textiles (mg/kg)</i>	<i>Test Methods</i>
Metals					
total metals:					
Antimony	7440-36-0	Sb	250	260 (polyester) 50 (other)	EN 16711-1
Silver	7440-22-4	Ag	100 in dyes	-	ref. EN 16711-1
Arsenic	7440-38-2	As	50	not detectable (1 mg/kg)	EN 16711-1
Cadmium	7440-43-9	Cd	20 (50 in pigments)	40	EN 1122 EN 16711-1
Cobalt	7440-78-4	Co	500 in dyes (not applicable to premetallized dyes)	-	ref. EN 16711-1
Chromium VI	18540-29-9	Cr VI	10	not detectable (3 mg/kg)	ref. ISO 17075 -1 (leather)
Total Chromium	7440-47-3	Cr	100 in dyes and pigments (not applicable to premetallized dyes)	-	ref. EN 16711-1
Barium	7440-39-3	Ba	100 in dyes and pigments	-	ref. EN 16711-1
Mercury	7439-97-6	Hg	4 (25 in pigments)	not detectable (0,1 mg/kg)	ref. EN 16711-1
Nickel	7440-02-0	Ni	250 in dyes and pigments (not applicable to premetallized dyes)		ref. EN 16711-1
Piombo	7439-92-1	Pb	100	40	CPSC-CH-E-1002-08, EN 16711-1
Rame	7440-50-8	Cu	250 in dyes and pigments (not applicable to premetallized dyes)	-	ref. EN 16711-1
Selenio	7782-49-2	Se	20 in dyes (100 in pigments)	-	ref. EN 16711-1
Tin	7440-31-5	Sn	250 in dyes	-	ref. EN 16711-1

Substances	CAS-Number	Notes	Limits for formulations / chemicals used in processes (mg/kg)	Limits for textiles (mg/kg)	09th July 202 Test Methods
Extractable by artificial acid perspiration metals:					
Antimonio	7440-36-0	Sb	n.a	30	EN 16711-2
Arsenic	7440-38-2	As	n.a	0,2	
Cadmium	7440-43-9	Cd	n.a	0,1	
Cobalt	7440-48-4	Co	n.a	4	
Chromium	7440-47-3	Cr	n.a	4 (pre-metallized dyestuffs) 2 (other cases)	
Chromium VI	18540-29-9	Cr VI	n.a	not detectable	
Mercury	7439-97-6	Hg	n.a	0,02	
Nickel	7440-02-0	Ni	n.a	1	
Lead	7439-92-1	Pb	n.a	1	
Copper	7440-50-8	Cu	n.a	25	
Pesticides					
Pesticides	various (see annex)	---	n.a.	0,5 mg/kg	ref. EPA methods
Annex XI					
Permethrin	52645-53-1 and others	---	250	1 mg/kg	
Glycols					
bis (2-methoxyethyl) ether	111-96-6		50	10	GC/MS LC/MS
2-ethoxyethanol	110-80-5		50	10	
2-ethoxyethyl acetate	111-15-9		50	10	
Ethylene glycol dimethyl ether	110-71-4		50	10	
2-methoxyethanol	109-86-4		50	10	
2-methoxyethylacetate	110-49-6		50	10	
2-methoxypropyl acetate	70657-70-4		50	10	
Triethylene glycol dimethyl ether	112-49-2		50	10	
Other requirements					
Formaldehyde	50-00-0	---	n.a.	75	ISO 14184-1
pH	--	---	n.a.	4-7,5	ISO 3071
abnormal odour	--	---	n.a.	none	GB 18401 - SNV 195 651
Biological active products	--	---	n.a.	not used	---
diazene-1,2-dicarboxamide	123-77-3	PVC foaming	1000	100	GC-MS

<i>Substances</i>	<i>CAS-Number</i>	<i>Notes</i>	<i>Limits for formulations / chemicals used in processes (mg/kg)</i>	<i>Limits for textiles (mg/kg)</i>	<i>Test Methods</i>
2-(2-aminoethylamino)ethanol	111-41-1	AEEA	100	10	GC/MS
Bisphenol A	80-05-7		100	1	GC/MS o LC/MS (ref. ASTM D7858, EN 71-9 e 11)
Thiourea	62-56-6		1000	50	LC-MS/MS or UV
Quinoline	91-22-5		1000	50	GC/MS ref. ISO 17137
UV Adsorbers Annex XIII	various (see Annex XIII)		1000	100	LC- MS/MS
Cyclic Siloxanes	various (see Annex XIV)	D4, D5, D6	1000	1000	GC-MS

ANNEX I

<u>Name</u>	<u>CAS-N</u>	<u>Name</u>	<u>CAS-N</u>
Monochlorobenzene	108-90-7	<i>Monochlorotoluenes:</i>	
<i>Dichlorobenzenes:</i>		2-chlorotoluene	95-49-8
1,2-dichlorobenzene	95-50-1	3-chlorotoluene	108-41-8
1,3-dichlorobenzene	541-73-1	4-chlorotoluene	106-43-4
1,4-dichlorobenzene	106-46-7	α -Chlorotoluene; benzylchloride	100-44-7
<i>Trichlorobenzenes:</i>			
1,2,3-trichlorobenzene	87-61-6	<i>Dichlorotoluenes:</i>	
1,2,4-trichlorobenzene	120-82-1	2,4-dichlorotoluene	95-73-8
1,3,5-trichlorobenzene	108-70-3	2,6-dichlorotoluene	118-69-4
		3,4-dichlorotoluene	95-75-0
<i>Tetrachlorobenzenes:</i>		2,3-dichlorotoluene	32768-54-0
1,2,3,4-tetrachlorobenzene	634-66-2	2,5-dichlorotoluene	19398-61-9
1,2,3,5-tetrachlorobenzene	634-90-2	<i>Trichlorotoluenes:</i>	
1,2,4,5-tetrachlorobenzene	95-94-3;	2,3,6 trichlorotoluene	2077-46-5
		a,a,a-trichlorotoluene	98-07-7;
Pentachlorobenzene	608-93-5	2,4,5-trichlorotoluene	6639-30-1
Esachlorobenzene	118-74-1	a,2,4-trichlorotoluene	94-99-5
		a,2,6-trichlorotoluene	2014-83-7
		2,3,4-trichlorotoluene	7539-72-0
		a,3,4-trichlorotoluene	102-47-6
		<i>Tetrachlorotoluenes:</i>	
		a,a,a,2-tetrachlorotoluene	2136-89-2
		2,3,4,5-tetrachlorotouene	1006-32-2
		a,a,a,4-tetrachlorotoluene	5216-25-1
		a,a,2,6-tetrachlorotoluene	81-19-6
		2,3,4,6-tetrachlorotouene	875-40-1
		2,3,5,6-tetrachlorotoluene	29733-70-8
Others Chlorinated benzenes and toluenes		Pentachlorotoluene	877-11-2
1,2-Dichloro-4-(trichloromethyl)-benzene CAS 13014-24-9			
A,a,2-4-Tetrachlorotoluene CAS 134-25-8			
Monomethyl-tetrachloro-diphenyl methane CAS 76253-60-6			
Monomethyl-dichloro-diphenyl methane CAS 81161-70-8			

ANNEX II***Aromatic Amines***

<u>Name</u>	<u>CAS-N</u>
2,2'- methylenbis(4-chlorophenol)	97-23-1
4-aminobiphenyl	92-67-1
Benzidine	92-87-5
4-chloro-o-toluidine	95-69-2
2-naphthylamine	91-59-8
o-aminoazo-toluene	97-56-3
5-nitro o-toluidine;	
(2-amine-4-nitrotoluene)	99-55-8
4-chloroaniline	106-47-8
4-methoxy-m phenylendiamine	615-05-4
4,4'-methylenedianiline;	
(4,4'-diaminobiphenylmethane)	101-77-9
3,3'-dichlorobenzidine	91-94-1
3,3'-dimethoxybenzidine;	
(o-dianisidine)	119-90-4
3,3'-dimethylbenzidine;	
(o-toluidine)	119-93-7
4,4'-methylen di-o-toluidine;	
(3,3'-dimethyl-4,4'-diaminobiphenylmethane) p-cresidine;	838-88-0
	120-71-8
(6-methoxy-m-toluidine)	
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
4 methyl-m-phenylendiamine	95-80-7
2,4,5,-trimethylaniline	137-17-7
o-anisidine (2-methoxyaniline)	90-04-0
4-aminoazobenzene	60-09-3
2,4-Xylidine	95-68-1
2,6-Xylidine	87-62-7
4-chloro-o-toluidinium chloride	3165-93-3
2-naphthylamonium acetate	553-00-4
4-methoxy-m phenylenediamonium sulphate	39156-41-7
2,4,5-trimethylaniline hydrochloride	21436-97-5

ANNEX III**Carcinogenic Dyestuffs**

<u>C.I. Generic Name</u>	<u>C.I. Structure Number</u>	<u>CAS-N.</u>
C.I. Acid Red 26	C.I. 16 150	3761-53-3
C.I. Basic Red 9	C.I. 42 500	569-61-9
C.I. Basic Violet 14	C.I. 42 510	632-99-5
C.I. Direct Black 38	C.I. 30 235	1937-37-7
C.I. Direct Blue 6	C.I. 22 610	2602-46-2
C.I. Direct Red 28	C.I. 22 120	573-58-0
C.I. Disperse Blue 1	C.I. 64 500	2475-45-8
C.I. Disperse Blue 3	C.I. 61 505	2475-46-9
C.I. Basic Blue 26	C.I. 44045	2580-56-5
		569-64-2
C.I. Basic Green 4 (malachite green)	varie	2437-29-8
		10309-95-2
C.I. Disperse Orange 11	C.I. 60 700	82-28-0
C.I. Disperse Yellow 23	C.I. 26 070	6250-23-3
C.I. Disperse Orange 149	=	85136-74-9
C.I. Disperse Yellow 3	C.I. 11 855	2832-40-8
C.I. Solvent Yellow 1	C.I. 11000	60-09-3
C.I. Solvent Yellow 3	C.I. 11160	97-56-3
C.I. Direct Brown 95	C.I. 30145	16071-86-6
C.I. Solvent Yellow 14	C.I. 12055	842-07-9
C.I. Acid Violet 49	C.I. 42640	1694-09-3
C.I. Solvent Yellow 2	C.I. 11020	60-11-7
C.I. Basic Violet 1	C.I. 42535	8004-87-3
Pigment Yellow 34	C. I. 77603	1344-37-2
Pigment Red 104	C. I. 77605	12656-85-8
Pigment Yellow 157	C. I. 77900	68610-24-2
Pigment Black 25	C.I. 77332	68186-89-0
C.I. Basic Violet 3		548-62-9
C.I. Solvent Blue 4		6786-83-0
4,4'-bis (dimethylamino) -4- (methylamino) trityl alcohol		561-41-1

ANNEX IV**Allergenic Dyestuffs**

<u>C.I. Name</u>	<u>C.I. Structure</u>	<u>CAS-N.</u>
Disperse Blue 1	C.I. 64 500	2475-45-8
Disperse Blue 3	C.I. 61 505	2475-46-9
Disperse Blue 7	C.I. 62 500	3179-90-6
Disperse Blue 26	C.I. 63 305	3860-63-7
Disperse Blue 35		12222-75-2
Disperse Blue 35		56524-77-7
		56524-76-6
		12222-75-2
Disperse Blue 102		12222-97-8
Disperse Blue 106		12223-01-7
Disperse Blue 124		61951-51-7
Disperse Brown 1		23355-64-8
Disperse Orange 1	C.I. 11 080	2581-69-3
Disperse Orange 3	C.I. 11 005	730-40-5
Disperse Orange 37/76/59	C.I. 11132	12223-33-5
		13301-61-6
Disperse Red 1	C.I. 11 110	2872-52-8
Disperse Red 11	C.I. 62 015	2872-48-2
Disperse Red 17	C.I. 11 210	3179-89-3
Disperse Yellow 1	C.I. 10 345	119-15-3
Disperse Yellow 3	C.I. 11 855	2832-40-8
Disperse Yellow 9	C.I. 10 375	6373-73-5
Disperse Yellow 39		12236-29-2
Disperse Yellow 49		54824-37-2

ANNEX V**Chlorophenols**

<u>Nome</u>	<u>CAS-N</u>
<i>Monochlorophenols</i>	25321-22-6
2-chlorophenol	95-57-8
3-chlorophenol	108-43-0
4-chlorophenol	106-48-9
<i>Dichlorophenols</i>	25167-81-1
2,3-dichlorophenol	576-24-9
2,4-dichlorophenol	120-83-2
2,5-dichlorophenol	583-78-8
2,6-dichlorophenol	87-65-0
3,4-dichlorophenol	95-77-2
3,5-dichlorophenol	591-35-5
<i>Trichlorofenols</i>	25167-82-2
2,3,5-Trichlorophenol	9333-78-8
2,3,4-Trichlorophenol	15950-66-0
2,3,6-Trichlorophenol	933-75-5
2,4,5-Trichlorophenol	95-95-4
2,4,6-Trichlorophenol	88-06-2
3,4,5-Trichlorophenol	609-19-8
<i>Tetrachlorophenols</i>	25167-83-3
2,3,4,6-Tetrachlorophenol	58-90-2
2,3,5,6-Tetrachlorophenol	935-95-5
2,3,4,5-Tetrachlorophenol	4901-51-3
Pentachlorophenol	87-86-5

ANNEX VI
Flame Retardants

<u>Name</u>	<u>CAS-N.</u>
PBB (polybrominated biphenyls)	various, 59536-65-1
Octabromobiphenyl (OctaBB)	various
Nonabromobiphenyl (NonaBB)	various
Decabromobiphenyl (DecaBB)	13654-09-6
Monobromobiphenyls (MonoBB)	various
Dibromobiphenyls	various
Monobromobiphenylethers (Mono BDE)	various
Octabromobiphenylethers (octaBDE)	various
PBDE (polybrominated diphenyl ethers)	various
Tri BDE (tribromobiphenylethers)	various
Tetra BDE(tetrabromobiphenylethers)	40088-47-9 various
Penta BDE (pentabromodiphenylether)	32534-81-9
Hesa BDE (hesabromodiphenylether)	36483-60-0
Epta BDE (heptabromodiphenylether)	68928-80-3
Octa BDE (octabromodiphenylether)	32536-52-0
Nona BDE (nonabromodiphenylether)	63936-56-1; various
Deca BDE (decabromodiphenylether)	1163-19-5
Dibromopropylether	21850-44-2
HBCDD (hexabromocyclododecane and diastereoisomers)	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8
TRIS (tri-(2,3 dibromopropyl)-phosphate)	126-72-7
TEPA (tris-(aziridinyl)-phosphin -oxide)	545-55-1
Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8
Bis (2,3-dibromopropyl)-phosphate	5412-25-9
2,2-bis[bromomethyl]propane-1,3-diol (BBMP)	3296-90-0
Tetrabromobisphenol A (TBBPA)	79-94-7
Tetraboron disodium heptaoxide	12267-73-1
Diboron trioxide	1303-86-2
Disodium tetraborate	1303-96-4 e 1303-43-4 e 12179-04-3 e 215-540-4
Boric Acid	10043-35-3 e 11113-50-1
Disodium octaborate	12008-41-2
Zinc borate	12767-90-7
Antimony trioxide	1309-64-4
Tri-o- cresyl phosphate	78-30-8
Tris(2-Chloro-1-methylethyl) phosphate (TCPP)	13674-84-5
Trixylyl phosphate	25155-23-1
Chlorinated Paraffins - medium-chain C14-C17	85535-85-9
Chlorinated Paraffins - long-chain C18-C28	85535-86-0
2-Ethylhexyl-2,3,4,5- tetrabromobenzoate (TBB)	183658-27-7;
Bis(2-Ethylhexyl)-3,4,5,6- tetrabromophthalate (TBPH)	26040-51-7
Bis (2,3-dibromopropyl ether) tetrabromobisphenol A	21850-44-2

ANNEX VII***Halogenated Solvents***

<u>Name</u>	<u>CAS-N.</u>
1,2-dichloroethane	107-06-2
1,1-dichloroethane	75-34-3
dichloromethane	75-09-2
trichloroethylene	79-01-6
pentachloroethane	76-01-7
1,1,1,2-tetrachloroethane	630-20-6
1,1,2,2-tetrachloroethane	79-34-5
1,1,2-trichloroethane	79-00-5
1,1,1-trichloroethane	71-55-6
1,1-dichloroethylene	75-35-4
1,2,3-trichloropropane	96-18-4
chloroform	67-66-3
carbon tetrachloride	56-23-5
Tetrachloroethylene	127-18-4

ANNEX VIII***Organotin Compounds***

<u>Name</u>	<u>CAS-N.</u>
Monobutyltin (MBT)	various
Tributyltin (TBT)	various
Tetrabutyltin (TeBT)	various
Monophenyltin (MPhT)	various
Diphenyltin (DPhT)	1011-95-6 and various
Triphenyltin (TPhT)	various
Monomethyltin(MMT)	various
Dimethyltin (DMT)	various
Trimethyltin (TMT)	various
Tetraethyltin (TeET)	597-64-8
Tricyclohexyltin (TCyHT)	various
Dipropyltin (DPT)	various
Tripropyltin (TPT)	various
Monooctyltin (MOT)	various
Dioctyltin (DOT)	various
Trioctyltin (TOT)	various
Tetraoctyltin (TeOT) particularly:	various
Bis(tributyltin)oxide (TBTO)	56-35-9
Dichlorodibutyltin (DBTC)	683-18-1

ANNEX IX***Polycyclic Aromatic Hydrocarbons (PAH)***

Name	CAS N.
Benzo[a]pyrene (BaP)	50-32-8
Benzo[e]pyrene (BeP)	192-97-2
Benzo[a]anthracene (BaA)	56-55-3
Chrysene (CHR)	218-01-9
Benzo[b]fluoranthene (BbFA)	205-99-2
Benzo[j]fluoranthene (BjFA)	205-82-3
Benzo[k]fluoranthene (BkFA)	207-08-9
Dibenzo[a,h]anthracene (DBAhA)	53-70-3
Acenaphthene	83-32-9
Acenaphthalene	208-96-8
Anthracene	120-12-7
Benzo[g,h,i]perylene	191-24-2
Naphthalene	91-20-3
Phenanthrene	85-01-8
Pyrene	129-00-0
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno[1,2,3-cd]pyrene	193-39-5
Ciclopenta[c,d]pyrene	27208-37-3
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
1-methylpyrene	2381-21-7

ANNEX X
Phthalates

<u>Name</u>	<u>CAS-N.</u>
BBP (Butyl benzyl phthalate)	85-68-7
DBP (Dibutyl phthalate)	84-74-2
DEHP (di-(2-ethylhexyl)-phthalate)	117-81-7
DINP (di-iso-nonylphthalate)	28553-12-0 68515-48-0
DNOP (di-n-octylphthalate)	117-84-0
DIDP (di-isodecylphthalate)	26761-40-0 68515-49-1
DIBP (di-isobutylphthalate)	84-69-5
DMEP (di-(2-methoxyethyl) phthalate)	117-82-8
1,2-benzendicarboxylic acid, di C6-C8-branched and linear alkyl ester	68545-42-4 84-75-3
DnHP (di-n-hexylphthalate)	
DPP (dipentylphthalate; n-, iso-, branched and linear)	131-18-0
Diisopentylphthalate (DIPP)	605-50-5
N-pentyl-isopentylphthalate (nPIP)	776297-69-9
1,2-Benzenedicarboxylic acid dipentylester, branched and linear	84777-06-0
1,2-Benzenedicarboxylic acid, dihexyl ester branched and linear	68515-50-4
Diisohexyl phthalate	71850-09-4
Dinonyl phthalate (DNP)	84-76-4
Diethyl phthalate (DEP)	84-66-2
di-n-propyl phthalate (DPRP)	131-16-8
Dicyclohexyl phthalate (DCHP)	84-61-7
Diisooctyl phthalate (DIOP)	27554-26-3
Dimethyl phthalate (DMP)	131-11-3
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5 68648-93-1

ANNEX XI
Pesticides

Name	CAS N.
2,4,5-trichlorophenoxyacetic acid and Salts	93-76-5 e vari
2,4-D	94-75-7
Acetsmipirid	135410-20-7 160430-64-8
Azinophosmethyl	86-50-0
Azinophosethyl	2642-71-9
Aldrine	309-00-2
Bromophos-ethyl	4824-78-6
Captafol	2425-06-1
Carbaryl	63-25-2
Chlorobenzilate	510-15-6
Chlordane	57-74-9
Chlordimeform	6164-98-3
Chlorfenvinphos	470-90-6
Coumaphos	56-72-4
Cyfluthrin	68359-37-5
Cyhalothrin	91465-08-6
Cypermethrin	52315-07-8
DEF (tribufos)	78-48-8
Deltamethrin	52918-63-5
DDD	53-19-0 72-54-8
DDE	3424-82-6 72-55-9
DDT	50-29-3 789-02-6
Diazinon	333-41-5
Dichlorprop	120-36-5
Dicrotophos	141-66-2
Dieldrine	60-57-1
Dimethoate	60-51-5
Dinoseb (Salts and Acetates)	88-85-7 e altri
Endosulfan, α -	959-98-8
Endosulfan, β -	33213-65-9
Endosulfan	115-29-7
Endrine	72-20-8
Esfenvalerate	66230-04-4
Fenvalerate	51630-58-1
Heptachlor	76-44-8
Heptachloroepoxide	1024-57-3
Hexachlorobenzene	118-74-1
Hexachlorcyclohexane, α -	319-84-6
Hexachlorcyclohexane, β -	319-85-7
Hexachlorcyclohexane, δ -	319-86-8 608-73-1
Imidacloprid	105827-78-9 138261-41-3

Isodrine	465-73-6
Kelevane	4234-79-1
Kepone (chlordecone)	143-50-0
Lindane	58-89-9
Malathion	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 (ethyl)	56-38-2
Parathion-methyl	298-00-0
Perthane	72-56-0
Phosdrin/Mevinphos	7786-34-7
Propethamphos	31218-83-4
Profenophos	41198-08-7
Quinalphos	13593-03-8
Strobane	8001-50-1
Telodrine	297-78-9
Toxaphene	8001-35-2
Trifluralin	1582-09-8
2-(2,4,5-Trichlorophenoxy)propionic acid and Salts	93-72-1 various
Epoxy-heptachlorine	1024-57-3
Pentachlorobenzene	609-93-5
Tetraclorobenzene	95-93-4
Quintozene	8001-50-1
PCB	vari
PCT	vari
Timiperone (DTTB)	57648-21-2
Pentabromobenzene	608-93-5
Hexabromobiphenyl	36355-01-8
PCP	87-86-5
Glyphosate and salts	1071-83-6, 70901-12-1 various

ANNEX XII

Per- and polyfluorinated compounds(PFCs)

<u>Name</u>	<u>CAS-N.</u>
	various
Perfluorooctansulfonic acid and its derivatives (C₈F₁₇SO₂X with X = OH, or Metal salts, halides, amides and other derivatives including polymers) including:	1763-23-1, 29031-56-9 (ammonium) 2795-39-3 (K) and others
PFOSA - perfluorooctansulfonamide	754-91-6
N-MeFOSA - N-methylperfluoro-1-octansulfonamide	31506-32-8
N-Et-FOSA - N - ethylperfluoro-1-octansulfonamide	4151-50-2
N-MeFOSE - 2-(N-methylperfluoro-1- octansulfonamide)-ethanol	24448-09-7
N-EtFOSE - 2-(N-ethylperfluoro- 1-octansulfonamide) -ethanol	1691-99-2
	various 3825-26-1 (ammonium) 335-95-5 (Na) 2395-00-8(K) 335-93-3(Ag) 335-60-0(F)
Perfluorooctanoic salts	
Any related substance (including its salts and polymers) having a linear or branched perfluoroheptil group with the formula C ₇ F ₁₅ - directly attached to another carbon atom, as one of the structural elements.	various
The structure must be C ₇ F ₁₅ -C-X except X = F, Cl, Br	
Any related substance (including its salts and polymers) having a linear or branched perfluorooctyl group with the formula C ₈ F ₁₇ - including:	various
1H,1H,2H,2H-Perfluoro-1-Dodecanol (C ₈ H ₁₇ -CH ₂ -CH ₂ -OH) (FTOH 8:2)	678-39-7
1H,1H,2H,2H-Perfluorodecyl acrylate (FTAC 8:2)	27905-45-9
Methylperfluorooctanoate (MePFOA)	376-27-2
Ethylperfluorooctanoate (EtPFOA)	3108-24-5
Except substances with structure C ₈ F ₁₇ -X where X=F, Cl, Br	
C ₈ F ₁₇ -C(=O)OH, C ₈ F ₁₇ -C(=O)O-X' (where X'= any group, including salts)	

ANNEX XII***Per- and polyfluorinated compounds(PFCs)***

<u>Name</u>	<u>CAS-N.</u>
Other poly and perfluorurated compounds	
Perfluorobutansulfonic acid (PFBS) and salts	375-73-5, 29420-49-3 (K), 25628-08-4 (ammonium), 68259-10-9 and others
Long Chain Fluorinated Polymers (≥ C8) - SVHC	
PFNA	375-95-1
PFDA	335-76-2
PFUdA	2058-94-8
PFDaA	307-55-1
PFTTrDA	72629-94-8
PFTeDA	376-06-7
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, salts and acylic ahalides various including:	
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid (Gen X)	13252-13-6
Ammonium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate (Gen-X)	62037-80-3

Others per and polyfluorinated compounds CAS: 335-67-1; 1691-99-2; 172155-07-6; 17527-29-6; 17741-60-5; 2058-94-8; 4234-23-5; 27619-97-2; 27905-45-9; 307-55-1; 31506-32-8; 335-76-2; 3108-42-7; 3830-45-3; 375-95-1; 376-06-7; 3825-26-1; 4151-50-2; 678-39-7; 72629-94-8; 754-91-6; 865-86-1; 882489-14-7.

ANNEX XIII**UV Adsorbers**

<u>Name</u>	<u>CAS-N.</u>
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec- butyl) phenol (UV-350)	36437-37-3
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7

ANNEX XIV

Cyclic siloxanes

<u>Name</u>	<u>CAS-N.</u>
Octamethylcyclotetrasiloxane (D4)	556-67-2
Decamethylcyclopentasiloxane (D5)	541-02-6
Dodecamethylcyclohexasiloxane (D6)	36437-37-3

