

MANUFACTURING RESTRICTED SUBSTANCES LIST

VERSION JANUARY 2016

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Substance	CAS-nr	TEST METHOD		Combined MRSL - REPORTING LIMIT			
		Input water waste water	sludge - textiles raw materials - textiles articles - chemicals	Input water waste water (µg/L)	sludge - textiles raw materials - textiles articles - chemicals (mg/kg)		
1. Alkylphenols (AP) (APEO)							
AP	4-(1,1,3,3-Tetramethylbutyl)-phenol	140-66-9	GC-MSMS ISO 18857-1	GC-MSMS Sludge and Textiles articles: Solvent extrsrction ref. ISO 18857-1	1 (each)	1 (each)	
	Octylphenol	27193-28-8					
	4-Octylphenol	1806-26-4					
	4-Nonylphenol (branched)	25154-52-3					
	Nonylphenol	104-40-5					
	Nonylphenol (mixed isomers)	90481-04-2					
APEO	Nonylphenol Ethoxylates NPEO (1-2) various	9016-45-9, 68412-54-4, 127087-87-0, 37205-87-1	LC-MSMS ISO 18857-2	LC-MSMS ISO/DIS 18254 - ISO 18218-1	1 (each)	1 (each)	
	Nonylphenol Ethoxylates NPEO (3-18) various						
	Nonylphenol ethoxylated						
	4-Nonylphenol, ethoxylated						26027-38-3
	Octylphenol Ethoxylates OPEO (1-2) various						
	Octylphenol Ethoxylates OPEO (3-18) various						
4-tert-Octylphenolethoxylate	9036-19-5, 68987-90-6						
2. Phthalates							
	Di-Butyl Phthalate (DBP)	84-74-2	GC-MS / GC-MSMS / LC-MSMS EPA 3510C + EPA 8270D	GC-MS / GC-MSMS / LC-MSMS CPSC-CH-C1001-09.3 CEN ISO/TS 16181 EN 14372 EN ISO 14389	1 (each)	10 (each)	
	Di(2-Ethyl Hexyl) Phthalate(DEHP)	117-81-7					
	Benzyl Butyl Phthalate (BBP)	85-68-7					
	Di-Iso-Nonyl Phthalate (DINP)	28553-12-0,68515-48-0					
	Di-N-Octyl Phthalate (DNOP)	117-84-0					
	Di-Iso-Decyl Phthalate (DIDP)	26761-40-0,68515-49-1					
	Di-Iso-Butyl Phthalate (DIBP)	84-69-5					
	Di-N-Hexyl Phthalate (DNHP)	84-75-3					
	Di-(2-methoxyethyl) phthalate (DMEP)	117-82-8					
	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4					
	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6					
	Dipentyl phthalate (DPP)	131-18-0					
	Diisopentylphthalate	605-50-5					
	N-pentyl-isopentylphthalate	776297-69-9					
3. Brominated and Chlorinated Flame Retardants							
	Polybrominated diphenyl ethers (PBDEs) various	134237-50-6,134237-51-7,134237-52- 8, 25637-99-4,3194-55-6	GC-MSMS / LC-MSMS EPA 527	GC-MSMS / LC-MSMS ISO/DIS 17881-1/2 GB/T 24279	each = 5	each = 5	
	Monobromo diphenyl ethers (MonoBDE) -						
	Dibromo diphenyl ethers (DiBDE) -						
	Tribromo diphenyl ethers (TriBDE) -						
	Tetrabromo diphenyl ethers (TetraBDE)						40088-47-9
	Pentabromo diphenyl ethers (PentaBDE)						32534-81-9
	Hexabromo diphenyl ethers (HexaBDE)						36483-60-0
	Heptabromo diphenyl ethers (HeptaBDE)						68928-80-3
	Octabromo diphenyl ethers (OctaBDE)						32536-52-0
	Nonabromo diphenyl ethers (NonaBDE)						63936-56-1
	Decabromo diphenyl ether (DecaBDE)						1163-19-5
	Tris(2,3-Dibromopropyl)-Phosphate						126-72-7
	Tris(2-Chloroethyl)Phosphate (TCEP)						115-96-8
	Hexabromocyclododecane (HBCDD)						
	Tetrabromo-bisphenol A (TBBPA)						79-94-7
	Bis (2,3-dibromopropyl) phosphate						5412-25-9
	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)						13674-87-8
Tris (1-chloro-2-propyl) phosphate (TCPP)	13674-84-5						

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Sub Group 1: Other Flame Retardants					
TEPA	5455-55-1	GC-MSMS / LC-MSMS EPA 527	GC-MSMS / LC-MSMS - ISO/DIS 17881- 1/2 - GB/T 24279	each = 5	each =5
TRIS	5412-25-9				
Tri-o-cresyl phosphate	13674-87-8				
Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	1303-86-2				
Boric acid	10043-35-3 11113-50-1	Preliminary: ICP/MS-OES	Preliminary: Microwave digestion - ICP/MS-OES		
Antimony trioxide	1309-64-4				
Sodium tetraborate	1303-96-4 1303- 43-4 12179-04-3 215-540-4				
Boron trioxide	78-30-8				
4. Amines (Associated with Azo dyes)					
4-Aminodiphenyl	92-67-1	GC-MSMS / LC-MSMS EPA 8270D DIN 38407-16 (ref. EN ISO 14362-1/3)	GC-MSMS / LC-MSMS - EN ISO 14361- 1/3 - EN ISO 17234 - GB/T 19942 - GB/T 17592 GB/T 23344	1 (each)	1 (each)
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	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'-diaminodiphenylmethane	838-88-0				
p-Cresidine	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-Toluylenediamine	95-80-7				
2,4,5-Trimethylaniline	137-17-7				
o-Anisidine	90-04-0				
p-Aminoazobenzene	60-09-3				
2,4-Xylidine	95-68-1				
2,6-Xylidine	87-62-7				

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AzoDyes Sub Group 1: Allergenic Dyes				1 (each)	5 (each)
C.I. Disperse Blue 1	2475-45-8	EPA 3510C + EPA 8321B DIN 54231-2005)	(ref. LC-MSMS DIN 54231	1 (each)	5 (each)
C.I. Disperse Blue 3	2475-49-9				
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	12222-97-8				
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 37/76	13301-61-6				
C.I. Disperse Red 1	2872-48-2				
C.I. Disperse Red 11	2872-48-2				
C.I. Disperse Red 17	3179-89-3				
C.I. Disperse Yellow 1	119-15-3				
C.I. Disperse Yellow 3	2832-40-8				
C.I. Disperse Yellow 9	6373-73-5				
C.I. Disperse Yellow 39	12236-29-2				
C.I. Disperse Yellow 49	54824-37-2				
AzoDyes Sub Group 2: Carcinogenic Dyes				1 (each)	5 (each)
C.I. Acid Red 26	3761-53-3	EPA 3510C + EPA 8321B DIN 54231 + 16373-2)	(ref. LC-MSMS DIN 54231 - ISO F/DIS 16373-2)	1 (each)	5 (each)
C.I. Basic Red 9 monohydrochloride	569-61-9				
C.I. Basic Violet 14	632-99-5				
C.I. Direct Blue 6	2602-46-2				
C.I. Direct Red 28	573-58-0				
C.I. Direct Black 38	1937-37-7				
C.I. Direct Disperse Blue 1	2475-45-8				
C.I. Direct Disperse Yellow 3	2832-40-8				
C.I. Direct Disperse Orange 11	82-28-0				
C.I. Direct Disperse Yellow 23	6250-23-3				
C.I. Direct Disperse Orange 149	85136-74-9				
C.I. Direct Solvent Yellow 1	60-09-3				
C.I. Direct Solvent Yellow 2	60-11-7 EN71-9				
C.I. Direct Solvent Yellow 3	97-56-3				
C.I. Direct Solvent Yellow 14	842-07-9				
Octabromo diphenyl ethers (OctaBDE)	2580-56-5				
C.I. Basic Violet 1	8004-87-3 EN71-9				
C.I. Direct Brown 95	16071-86-6				
C.I. Direct Blue 15	2429-74-5				
C.I. Direct Blue 218	28407-36-6				
C.I. Acid Red 114	6459-94-5				
C.I. Acid Violet 49	1694-09-3				

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5. Organotin compounds					
MBT(Monobutyltin)	78763-54-9	GC-MSMS ISO 17353	GC-MSMS - ISO/TS 16179 - UNI EN 71-3 (ref. ISO 17353)	0,1 (each)	1 (each)
DBT(Dibutyltin)	1002-53-5				
TBT(Tributyltin)	36643-28-4				
DOT(Dioctyltin)	94410-05-6				
MOT(Monooctyltin)	15231-44-4				
DPhT(Diphenyltin)	1011-95-6, 6381-06-2				
TeBT(Tetrabutyltin)	1461-25-2				
TCHT(Tricyclohexyl Tin)	6056-50-4				
TPT(Tripropyltin)	NA				
TeET(Tetraethyltin)	597-64-8				
Tributyltin oxide (TBTO)	56-35-9				
Dibutyltin dichloride (DBTC)	683-18-1				
Triphenyltin (TPhT)	668-34-8				
Dibutyltin hydrogen borate (DBB)	75113-37-0				
6. PFCs					
PFBA	375-22-4	GC-MSMS / LC-MSMS CEN/TS 15968	GC-MSMS / LC-MSMS CEN/TS 15968	0,01 (each)	0,01 (each)
PFPeA	2706-90-3				
PFHxA	307-24-4				
PFHpA	375-85-9				
PFOA	335-67-1				
PFNA	375-95-1				
PFDA	335-76-2				
PFUnA	2058-94-8				
PFDoA	307-55-1				
PFTrA	72629-94-8				
PFteA	376-06-7				
PFBS	375-73-5 or 59933-66-3				
PFHxS	355-46-4				
PFHpS	375-92-8				
PFOS	1763-23-1				
PFDS	335-77-3				
4:2 FTOH	2043-47-2				
6:2 FTOH	647-42-7				
8:2 FTOH	678-39-7				
10:2 FTOH	865-86-1				
6:2 FTA	17527-29-6				
8:2 FTA	27905-45-9				
Octabromo diphenyl ethers (OctaBDE)	17741-60-5				
PFOSA	754-91-6				
POSF	307-35-7				
N-Me-FOSA	31506-32-8				
N-Et-FOSA	4151-50-2				
N-Me-FOSE alcohol	24448-09-7				
N-Et-FOSE alcohol	1691-99-2				
PF-3,7-DMOA	172155-07-6				
HPFHpA	1546-95-8				
4HPFUnA	34598-33-9				
1H, 1H, 2H, 2H-PFOS	27619-97-2				
				0,01 (each)	0,01 (each)

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		Input water waste water	sludge - textiles raw materials - textiles articles - chemicals	Input water waste water (µg/L)	sludge - textiles raw materials - textiles articles - chemicals (mg/kg)
7. Chloro benzenes					
Dichlorobenzenes various					
1,2-Dichlorobenzene	95-50-1				
1,3-Dichlorobenzene	541-73-1				
1,4-Dichlorobenzene	106-46-7				
Trichlorobenzenes various					
1,2,3-Trichlorobenzene	87-61-6				
1,2,4-trichlorobenzene	120-82-1				
1,3,5-Trichlorobenzene	108-70-3				
Tetrachlorobenzene	12408-10-5				
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				
chlorobenzene	108-90-7				
		Liquid/Liquid extraction 54232)	(ref.DIN GC-MSMS DIN 54232	0,02 (each)	0,5 (each)
Chloro-Toluenes (solvents and biocides. Production dyes. Chemical Intermediates. Antifelting)					
2-chlorotoluene	95-49-8				
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				
2,7-dichlorotoluene	118-69-4				
3,4-dichlorotoluene	95-75-0				
2,3,6-trichlorotoluene	2077-46-5				
2,4,5-trichlorotoluene	6639-30-1				
Benzotrichloride	98-07-7				
alfa, 2,4-trichlorotoluene	94-99-5				
alfa,2,6-trichlorotoluene	2014-83-7				
alfa,3,4-trichlorotoluene	102-47-6				
alpha, alpha, 2,6- tetrachlorotoluene	81-19-6				
alpha, alpha, alpha, 2,- tetrachlorotoluene	2136-89-2				
alpha, alpha, alpha, 4- tetrachlorotoluene	5216-25-1				
2,3,4,5,6-pentachlorotoluene	877-11-2				
		Liquid/Liquid extraction 54232)	(ref.DIN GC-MSMS DIN 54232	0,02 (each)	0,5 (each)
8. Chlorinated solvents					
Dichloromethane	75-09-2				
Octabromo diphenyl ethers (OctaBDE)	67-66-3				
Tetrachloromethane	56-23-5				
1,1,2-Trichloroethane	79-00-5				
1,1-Dichloroethane	75-34-3				
1,2-Dichloroethane	107-06-2				
Trichloroethylene	79-01-6				
Perchloroethylene	127-18-4				
1,1,1-trichloroethane	71-55-6				
1,1,1,2-Tetrachloroethane	630-20-6				
1,1,2,2-Tetrachloroethane	79-34-5				
Pentachloroethane	76-01-7				
1,1-Dichloroethylene	75-35-4				
1,2,3-trichloropropane	96-18-4				
		Headspace HS-GCMS EPA 5021 + EPA 8260	Headspace HS-GCMS GB 19340 (ref. EPA 5021 + EPA 8260)	1 (each)	0,5 (each) 10 0,5 (each)

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Other VOCs					
Methyl-ethyl ketone	78-93-3	Headspace HS-GCMS EPA 5021 + EPA 8260	Headspace HS-GCMS GB 19340 (ref. EPA 5021 + EPA 8260)	1	0,5 (each)
Benzene	71-43-2				
Toluene	108-88-3				
Ethylbenzene	100-41-4				
Xylene	1330-20-7				
Styrene	100-42-5				
Cyclohexanone	108-94-1				
2-ethoxyethylacetate	111-15-9				
1,2,3-trichloropropane	96-18-4				
Acetophenone	98-86-2				
Naphtalene	91-20-3				
N,N-dimethylformamide	68-12-2				
1-methyl-2-pyrrolidone	872-50-4				
2-phenyl-2-propanole	617-94-7				
Bis-(2-methoxyethyl) ether	111-96-6				
N,N-dimethylacetamide	127-19-5				
9. Chloro phenols					
Pentachlorophenols (PCP)	87-86-5	GC-MSMS EPA 3510C + EPA 8270D	GC-MSMS UNI 11057 EN ISO 17070 GB/T 18414-1	0,5 (each)	0,05 (each)
Tetrachlorophenols (TeCP)	25167-83-3				
2,3,4,5-Tetrachlorophenol	4901-51-3				
2,3,4,6-Tetrachlorophenol	58-90-2				
2,3,5,6-tetrachlorophenol	935-95-5				
Trichlorophenol (TriCP)	25167-82-2				
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				
Dichlorophenols (DiCP)	25167-81-1				
2,3-dichlorophenol	576-24-9				
2,4-dichlorophenol	120-83-2				
2,5-dichlorophenol	583-78-8				
3, 4-dichlorophenol	95-77-2				
3, 5-dichlorophenol	591-35-5				
Mono Chlorophenol various					
10. SCCP					
Octabromo diphenyl ethers (OctaBDE)	85535-84-8	GC-MSMS ISO 12010	GC-MSMS In-house method (ref. ISO/DIS 18219)	0,5 (sum)	1 (sum)

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11. Heavy metals					
Total Cadmium(Cd)	7440-43-9	ICP-OES / ICP-MS EPA 6020B	ICP-OES / ICP-MS - EN 16711-1 - EN ISO 17072-2	0,1	1
Total Lead(Pb)	7439-92-1			1	1
Total Mercury(Hg)	7439-97-6			0,1	1
Total Nickel(Ni)	7440-02-0			1	1
Total Hexavalent chromium (Cr-VI)	18540-29-9	APAT IRSA CNR 3150	UV-VIS SPECTROMETRY ISO 17075	1	1
Total Arsenic(As)	7440-38-2	ICP-OES / ICP-MS EPA 6020B	ICP-OES / ICP-MS - EN 16711-1 - EN ISO 17072-2	1	1
Total Chromium(Cr)	7440-47-3			1	1
Total Copper(Cu)	7440-50-8			1	5
Total Zinc(Zn)	7440-66-6			1	1
Total Manganese(Mn)	7439-96-5			1	1
Total Antimony (Sb)	7440-36-0			1	1
Total Cobalt(Co) (Extractable heavy-metals by artificial acid sweat)	7440-48-4	//	ICP-OES / ICP-MS - EN 16711-2 - EN ISO 17072-1	1	4

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12. Others					
Cyanide	-	Best current testing technology always updated and applied	Best current testing technology always updated and applied	Declaration Non Use	Declaration Non Use
Formaldehyde (gas)	50-00-0	APAT IRSA CNR 5010	EN ISO 14184-1 ISO 17226-1	0,1	1
BIOCIDES					
Aldrin	309-00-2	GC-MSMS / LC-MSMS EPA 8081B + EPA 8141B + 8270D	EPA	GC-MSMS / LC-MSMS - (ref. EPA 8081B + EPA 8141B + EPA 8270D)	1 (each)
Captafol	2425-06-1				
Chlordane	57-74-9				
DDT	50-29-3				
o,p'-DDT	789-02-6				
Dieldrin	60-57-1				
Endrin	72-20-8				
Heptachlor	76-44-8				
Hexachlorobenzene #	118-74-1				
α-Hexachlorocyclohexane	319-84-6				
β-Hexachlorocyclohexane	319-85-7				
δ-Hexachlorocyclohexane	319-86-8				
2,4,5- T	93-76-5				
2,4-D	94-75-7				
chlordimeform	6164-98-3				
Ethyl-4,4'-dichlorobenzilate	510-15-6				
Dinoseb	88-85-7				
monocrotophos	6923-22-4				
Pentachlorophenol #	87-86-5				
Toxaphene	8001-35-2				
methamidophos	10265-92-6				
methyl parathion	298-00-0				
parathion	56-38-2				
phosphamidon	13171-21-6				
lindane	58-89-9				
DDD	53-19-0				
DDD (Dichlorodiphenyl- dichloroethane)	72-54-8				
diazinon	333-41-5				
propetanfos	31218-83-4				
chlorfenvinphos	470-90-6				
diclorofention	97-17-6				
clorpyrofos	5598-15-2				
fenchlorphos	299-84-3				
diflubenzurone	35367-38-5				
Octabromo diphenyl ethers (OctaBDE)	64628-44-0				
cypermethrin	52315-07-8				
deltamethrin	52918-63-5				
fenvalerate	51630-58-1				
cyhalothrin	91465-08-6				
flumethrin	69770-45-2				
Azinophosmethyl	86-50-0				
Azinophosethyl	2642-71-9				
Bromophos-ethyl	4824-78-6				
Carbaryl	63-25-2				
Coumaphos	56-72-4				
Cyfluthrin	68359-37-5				
DEF	78-48-8				

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DDE	3424-82-6 72-55-9	GC-MSMS / LC-MSMS EPA 8081B + EPA 8141B + EPA 8270D	GC-MSMS / LC-MSMS - (ref. EPA 8081B + EPA 8141B + EPA 8270D)	1 (each)	1 (each)
Dichlorprop	120-36-2				
Dicrotophos	141-66-2				
Dimethoate	60-51-5				
Endosolfan, a-	959-98-8				
Endosolfan, β-	33213-65-9				
Esfenvalerate	66230-04-4				
Heptachloroepoxide	1024-57-3				
Isodrine	465-73-6				
Kelevane	4234-79-1				
Kepone	143-50-0				
Malathion	121-75-5				
MCPA	94-74-6				
MCPB	94-81-5				
Mecoprop	93-65-2				
Mirex	2385-85-5				
Methoxychlor	72-43-5				
Perthane	72-56-0				
Phosdrin/Mevinphos	7786-34-7				
Profenophos	41198-08-7				
Quinalphos	13593-03-8				
Strobane	8001-50-1				
Telodrine	297-78-9				
Trifluralin	1582-09-8				
ORTHO-PHENYLPHENOL					
o-Phenylphenol (OPP)	90-43-7	GC-MSMS EN ISO 17070)	(ref. GC-MSMS EN ISO 17070)	(ref. 1	10
NITROSAMINES					
N-Nitrosodimethylamine (NDMA)	62-75-9	GC-MSMS (ref. UNI EN 14350-2:2005 par.5.3 - EN 12868)	GC-MSMS UNI EN 12868:2002 GB/T 24153-2009 UNI EN 14350-2:2005 par.5.3 - (UNI EN 12868:2002)	5	10
N-Nitrosodiethylamine (NDEA)	55-18-5				
N-Nitrosodi-n-propylamine (NDPA)	621-64-7				
N-Nitrosodi-n-butylamine (NDBA)	924-16-3				
N-Nitrosopiperidine (NPIP)	100-75-4				
N-Nitrosopyrrolidine (NPYR)	930-55-2				
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				
POLYAROMATIC HYDROCARBONS					
Benzo-[a]-pyrene (BaP)	50-32-8	GC-MSMS APAT IRSA CNR 5080	GC-MSMS - ISO/TS 16190 - ZEK 1.4- 08	0,5	0,5
Octabromo diphenyl ethers (OctaBDE)	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				
BIOCIDES — ANTI-MOULD					
Dimethyl fumarate (DMF)	624-49-7	GC-MSMS (ref. ISO/TS 16186)	GC-MSMS ISO/TS 16186	1	0,1
N,N-Dimethyl formamide (DMF(A))	68-12-2	GC-MSMS ref. ISO/TS 16189)	GC-MSMS ISO/TS 16189	10	1