



TEST REPORT

Technical Report

21/09/2018

Date Received

12/07/2018

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Factory Company Name:
Factory Address:

Fellicolor spa
Via Trieste, 55, 24057 Martinengo (Bg)

Sample Type:
Sample Pick Up Date:
Discharge Type:
Wastewater Discharge to:
On-Site Effluent Treatment Plant (ETP):
Test Period:
Testing Option:

Wastewater - Grab Samples
Direct Discharge
Factory Owned ETP
Yes
I001 Untreated Wastewater

REMARK

Sampling was performed directly by client

Sampling extraction and Formaldehyde test was performed at Bureau Veritas Certest srl, Via Risorgimento 16, San Miniato, Italy
Instrumental tests were executed at Bureau Veritas Germany – Wilhelm-Hennemann-Str. 8 Schwerin, Germany

Photo of the Sample





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Executive Summary

	I001
Glycols	o
Michlers base and ketone	o
Acrylonitrile and 1,3-Butadiene	o
Acrylamide	o
Bisphenol A	o
Epichlorohydrine	o
Ethylacrylate	o
Formaldehyde	
APs and APEOs	o
SCCP	o
Heavy Metal & compounds	●
Phthalates	o
Flame Retardants	o
PAHs	o
N-nitrosamine	o
Azo Dyes	o
Organotin Compounds	o
Perfluorinated and Polyfluorinated	o
Chlorobenzenes and Chlorotoluenes	●
Chlorophenols	o
Chlorinated solvents	o
Disperse and Carcinogenic Dyes	o

Note / Key :

- ● – Detected
- o – Not Detected



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Test Result

Glycols

Test Method / Standard:

Glycol ethers: With reference to USEPA 8270, GC-MS analysis, reporting limit: 5 mg/l

Glycols	I001 (mg/l)
Bis(2-methoxyethyl)-ether	<5 mg/l
2-Ethoxyethanol (Ethylene glycol monoethyl ether)	<5 mg/l
2-Ethoxyethyl acetate	<5 mg/l
Ethylene glycol dimethyl ether	<5 mg/l
2-Methoxyethyl acetate (Ethylene glycol monomethyl ethyl acetate)	<5 mg/l
Triethylene glycol dimethyl ether (Triglyme)	<5 mg/l
Ethylene glycol	<5 mg/l
1,2-Diethoxyethane	<5 mg/l
2-Methoxyethanol (Ethylene glycol monomethyl ether)	<5 mg/l

Michlers base and ketone

Test Method / Standard:

Michlers base and ketone: With reference to EPA 8270D, LC-MS analysis, reporting limit: 50 µg/l

Michlers base and ketone	I001 (ug/l)
Michler's base (N,N,N',N'-tetramethyl-4,4'-methylenedianiline)	<50 µg/l
Michler's ketone (4,4'-bis(dimethylamino)benzophenone)	<50 µg/l

Acrylonitrile and 1,3-Butadiene

Test Method / Standard:

Acrylonitrile and 1,3-Butadiene: With reference to USEPA 8260B, GC-MS analysis, reporting limit: 0.01 µg/ml

Acrylonitrile and 1,3-Butadiene	I001 (ug/l)
Acrylonitrile	<0.01 µg/ml
1,3-Butadiene	<0.01 µg/ml



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Acrylamide

Test Method / Standard:

Acrylamide: With reference to USEPA 8032A, LC-MS analysis, reporting limit: 50 µg/l

Acrylamide	I001 (ug/l)
Acrylamide	<50 µg/l

Bisphenol A

Test Method / Standard:

Bisphenol A: With reference to ASTM International Standard ASTM D7065, LC-QQQ analysis, reporting limit: 5 µg/l

Bisphenol A	I001 (ug/l)
Bisphenol A	<5 µg/l

Epichlorohydrine

Test Method / Standard:

Epichlorohydrine content: With reference to USEPA 8260B, GC-MS analysis, reporting limit: 0.1 µg/ml

Epichlorohydrine content	I001 (ug/ml)
Epichlorohydrine	<0.1 µg/ml

Ethylacrylate

Test Method / Standard:

Ethylacrylate: BVCPs inhouse method, GC-MS analysis, reporting limit: 0.1 µg/ml

Epichlorohydrine content	I001 (ug/ml)
Ethylacrylate	<0.1 µg/ml

Formaldehyde

Test Method / Standard:

Formaldehyde: inhouse metho UV-VS, reporting limit: 1 mg/l

Formaldehyde content	I001 (mg/l)
Formaldehyde	<1 mg/ml



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APs and APEOs

Test Method / Standard:

Alkylphenols & Alkylphenoethoxylates: With reference to ASTM International Standard ASTM D7065, reporting limit: 1 µg/l

APs and APEOs	I001 (ug/l)
Octylphenol OP, mixed isomers	<1 µg/l
Nonylphenol NP	<1 µg/l
Octylphenol monoethoxylates (OPEO n=1)	<1 µg/l
Octylphenoethoxylates (OPEO n=2 to n=18)	<1 µg/l
Nonylphenol monoethoxylates (NPEO n=1)	<1 µg/l
Nonylphenoethoxylates (NPEO n=2 to n=18)	<1 µg/l

SCCP

Test Method / Standard:

Short Chain Chlorinated Paraffins: With reference to International Standard ISO 12010, reporting limit: 0.4 µg/l

SCCP	I001 (ug/l)
Short chained chlorinated paraffines, C10-C13	<0.4 µg/l

Heavy Metals

Test Method / Standard:

Heavy metals, total content & Chromium VI: With reference to U.S. EPA 3015A, with reference to U.S. EPA 6020A and with reference to U.S. EPA 7196A, reporting limits: Cd: 0.1 µg/l, B: 5 µg/l, Hg: 0.05 µg/l, Each (Others): 1 µg/l

Heavy metals	I001 (ug/l)
Cadmium (Cd)	0.437 µg/l
Chromium (Cr)	12.0 µg/l
Lead (Pb)	6.45 µg/l
Mercury (Hg)	0.261 µg/l
Chromium VI	<1 µg/l



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Metals

Test Method / Standard:

Heavy metals, total content & Chromium VI: With reference to U.S. EPA 3015A, with reference to U.S. EPA 6020A and with reference to U.S. EPA 7196A, reporting limits metals: 0.001 mg/l; reporting limits metal compounds: 0.05 mg/l;

Heavy metals	I001 (mg/l)
Antimony (Sb)	0.0116 mg/l
Antimony compounds (come Sb)	< 0.05 mg/l
Arsenic	0.00210 mg/l
Arsenic compounds (come As)	< 0.05 mg/l
Cobalt (Co)	< 0.001 mg/l
Cobalt compounds (Co)	< 0.05 mg/l
Nickel (Ni)	13.5 mg/l
Nickel compounds (as Ni)	13.5 mg/l

Phthalates

Test Method / Standard:

Phthalates: With reference to USEPA 8270D, reporting limit: 1 µg/L



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Phthalates	1001 (ug/L)
Benzylbutylphthalate (BBP)	<1 µg/l
Dibutylphthalate (DBP)	<1 µg/l
Di(2-ethylhexyl)phthalate (DEHP)	<1 µg/l
Di-n-octylphthalate (DNOP)	<1 µg/l
Di-iso-nonylphthalate (DINP)	<1 µg/l
Di-iso-decylphthalate (DIDP)	<1 µg/l
Diethylphthalate (DEP)	<1 µg/l
Di-n-propylphthalate (DPRP)	<1 µg/l
Di-iso-butylphthalate (DIBP)	<1 µg/l
Dicyclohexylphthalate (DCHP)	<1 µg/l
Di-n-hexylphthalate (DnHP)	<1 µg/l
Dinonylphthalate (DNP)	<1 µg/l
Di-iso-octylphthalate (DIOP)	<1 µg/l
Bis(2-methoxyethyl)phthalate (DMEP)	<1 µg/l
1,2-Benzenedicarboxylic acid, di C6-8 branched alkyl esters, C7-rich (DIHP)	<1 µg/l
1,2-Benzenedicarboxylic acid, di C7-11- branched and linear alkyl esters (DHNUP)	<1 µg/l
Di-n-pentylphthalate (DnPP)	<1 µg/l
Di-iso-pentylphthalate (DiPP)	<1 µg/l
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear (DHP)	<1 µg/l
Diisohexylphthalate (DIHxP)	<1 µg/l
1,2-benzenedicarboxylic acid, di C6-10-alkyl esters	<1 µg/l
1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl di esters with ≥0.3% of dehexylphthalate (EC 201-559-5)	<1 µg/l



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Flame retardants

Test Method / Standard:

Flame retardants: With reference to U.S. EPA 527 and with reference to U.S. EPA 8321B

Flame retardants	I001 (ug/l)
Monobromodiphenylether (MonoBDE)	<5 µg/l
Dibromodiphenylether (DiBDE)	<5 µg/l
Tribromodiphenylether (TriBDE)	<5 µg/l
Tetrabromodiphenylether (TetraBDE)	<5 µg/l
Pentabromodiphenylether (PentaBDE)	<5 µg/l
Hexabromodiphenylether (HexaBDE)	<5 µg/l
Heptabromodiphenylether (HeptaBDE)	<5 µg/l
Octabromodiphenylether (OctaBDE)	<5 µg/l
Nonabromodiphenylether (NonaBDE)	<5 µg/l
Decabromodiphenylether (DecaBDE)	<5 µg/l
Tris-(2,3-dibromopropyl)phosphate (TRIS)	<5 µg/l
Tris (2-chloroethyl)phosphate (TCEP)	<5 µg/l
Hexabromocyclododecane (HBCDD)	<5 µg/l
Tetrabromobisphenol A (TBBPA)	<5 µg/l
Bis (2,3-dibromopropyl) phosphate (BIS)	<5 µg/l
Tris (2-chloroisopropyl) phosphate (TCPP)	<5 µg/l
Tris (1,3-Dichloroisopropyl)phosphate (TDCP)	<5 µg/l
Calculation to Boric acid theoretical	2080 µg/l
Calculation to Diboron trioxide theoretical	1690 µg/l
Calculation to Sodium tetraborate theoretical	3350 µg/l
Calculation to Sodium perborate tetrahydrate theoretical	5150 µg/l
Calculation to Sodium perborate monohydrate theoretical	5150 µg/l
Calculation to Di Sodium tetraborate n hydrate theoretical	1990 µg/l
Calculation to Orthoboric acid, sodium salt theoretical	4280 µg/l
Calculation to Borate, zinc salt theoretical	5260 µg/l



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PAHs

Test Method / Standard:

Determination of PAH: With reference to USEPA 8270, DIN 38407-39

PAHs	I001 (ug/L)
Acenaphthene	<0.1 µg/l
Acenaphthylene	<0.1 µg/l
Anthracene	<0.1 µg/l
Benzo (a) anthracene	<0.1 µg/l
Benzo (b) fluoranthene	<0.1 µg/l
Benzo (j) fluoranthene	<0.1 µg/l
Benzo (k) fluoranthene	<0.1 µg/l
Benzo (a) pyrene	<0.1 µg/l
Benzo (e) pyrene	<0.1 µg/l
Benzo (g,h,i) perylene	<0.1 µg/l
Chrysene	<0.1 µg/l
Dibenzo (a,h) anthracene	<0.1 µg/l
Fluoranthene	<0.1 µg/l
Fluorene	<0.1 µg/l
Indeno (1,2,3-cd) pyrene	<0.1 µg/l
Napthalene	<0.1 µg/l
Phenanthrene	<0.1 µg/l
Pyrene	<0.1 µg/l

N-nitrosamines

Test Method / Standard:

N-nitrosamines: BVCPS inhouse method, LC-MS analysis, reporting limit: 10 µg/l

N-nitrosamines	I001 (ug/l)
N-nitrosodimethylamine (NDMA)	<10 µg/l
N-nitrosodibutylamine (NDBA)	<10 µg/l



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N-nitrosamines	1001 (ug/l)
N-nitrosodiethylamine (NDEA)	<10 µg/l
N-nitrosopiperidine (NPIP)	<10 µg/l
N-nitrosopyrrolidine (NPYR)	<10 µg/l
N-nitrosomorpholine (NMOR)	<10 µg/l
N-nitroso N-methyl N-phenylamine (NMPhA)	<10 µg/l
N-nitroso N-ethyl N-phenylamine (NEPhA)	<10 µg/l
N-nitrosodiethanolamine (NDELA)	<10 µg/l
N-nitrosomethylethylamine (NMEA)	<10 µg/l
N-nitrosodiphenylamine (NDPhA)	<10 µg/l
N-nitrosodi-n-propylamine (NDPA)	<10 µg/l
N-methyl-N'-nitro-N-nitrosoguanidine	<10 µg/l
p-Nitrosodiphenylamine	<10 µg/l

Azo Dyes

Test Method / Standard:

Azo dyes/Arylamines: With reference to German Standard DIN 38407-16 and with reference to European Standard EN 14362-1 incorporating Corrigendum, reporting limit: 0.1 µg/l
p-Aminoazobenzene is tested when Aniline and/or 1,4-Phenylenediamine is detected.

p-Aminoazobenzene: With reference to German Standard DIN 38407-16 and with reference to European Standard EN 14362-3, reporting limit: 0.1 µg/Ll

Azo Dyes	1001 (ug/l)
4,4'-Methylene-bis-(2-chloro-aniline)	<1 µg/l
4,4'-methylenedianiline	<1 µg/l
4,4'-Oxydianiline	<1 µg/l
4-Chloroaniline	<1 µg/l
1,4-Phenylenediamine	<1 µg/l
3,3'-Dimethoxybenzidine	<1 µg/l
3,3'-Dimethylbenzidine	<1 µg/l
6-methoxy-m-toluidine (p-Cresidine)	<1 µg/l
2,4,5-Trimethylaniline	<1 µg/l
4,4'-Thiodianiline	<1 µg/l



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Azo Dyes	1001 (ug/l)
4-Aminoazobenzene	<1 µg/l
4-Methoxy-m-phenylenediamine / 2,4-Diaminoanisole	<1 µg/l
Aniline	<1 µg/l
4,4'-Methylene-di-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	<1 µg/l
2,6-Xylidine	<1 µg/l
o-Anisidine	<1 µg/l
2-Naphthylamine	<1 µg/l
3,3'-Dichlorobenzidine	<1 µg/l
4-Aminodiphenyl	<1 µg/l
Benzidine	<1 µg/l
o-Toluidine	<1 µg/l
2,4-Xylidine	<1 µg/l
4-Chloro-o-toluidine	<1 µg/l
4-Methyl-m-phenylenediamine	<1 µg/l
o-Aminoazotoluene	<1 µg/l
5-nitro-o-toluidine	<1 µg/l

Organotin Compounds

Test Method / Standard:

Tinorganic compounds: With reference to European Standard EN ISO 17353, reporting limits: DBB: 5 µg/l, Each (Others): 0.01 µg/l

Organotin Compounds	1001 (ug/l)
Monobutyltin (MBT)	<0.01 µg/l
Dibutyltin (DBT) / Dibutyltin chloride (DBTC)	<0.01 µg/l
Dibutyltin hydrogen borate (DBB) (Reported as B and DBT)	<5 µg/l
Tributyltin (TBT) / Bis(Tributyltin) oxide (TBTO)	<0.01 µg/l
Tetrabutyltin (TeBT)	<0.01 µg/l
Monooctyltin (MOT)	<0.01 µg/l



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Organotin Compounds	1001 (ug/l)
Dioctyltin (DOT)	<0.01 µg/l
Trioctyltin (TOT)	<0.01 µg/l
Dipropyltin (DPT)	<0.01 µg/l
Tripropyltin (TPT)	<0.01 µg/l
Phenyltin (PhT)	<0.01 µg/l
Diphenyltin (DPHT)	<0.01 µg/l
Triphenyltin (TPHT)	<0.01 µg/l
Monomethyltin (MeT) / Monomethyltintrichloride (MeTCl)	<0.01 µg/l
Dimethyltin (DMeT)	<0.01 µg/l
Trimethyltin (TMeT)	<0.01 µg/l
Tetraethyltin (TeEtT) / Triethyltin (TEtT)	<0.01 µg/l
Tricyclohexyltin (TCyHT)	<0.01 µg/l

Perfluorinated and Polyfluorinated Chemicals

Test Method / Standard:

Perfluorinated and polyfluorinated compounds (PFC's): BVCPs Inhouse method and analysis with Liquid Chromatograph Mass Spectrometer (LC-MS), reporting limit: PFOS & PFOA: 0.01 µg/l, other: 0.5 µg/l

Perfluorinated and Polyfluorinated Chemicals	1001 (ug/L)
Perfluorooctanoic acid (PFOA)	<0.01 µg/l
Perfluorooctane sulfonate (PFOS) / Perfluorooctanesulfonyl fluoride (POSF / PFOF)	<0.01 µg/l
Perfluorohexanoic acid (PFHxA)	<0.5 µg/l
Perfluorobutanoic acid (PFBA)	<0.5 µg/l
Perfluoroheptanoic acid (PFHpA)	<0.5 µg/l
Perfluorodecanoic acid (PFDA)	<0.5 µg/l



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Perfluorinated and Polyfluorinated Chemicals	I001 (ug/L)
Perfluorononanoic acid (PFNA)	<0.5 µg/l
Perfluorooctane sulfonamide (PFOSA)	<0.5 µg/l
Perfluorododecanoic acid (PFDoA)	<0.5 µg/l
Perfluorotridecanoic acid (PFTrA)	<0.5 µg/l
Perfluorotetradecanoic acid (PFTeA)	<0.5 µg/l
Perfluoropentanoic acid (PFPeA)	<0.5 µg/l
Perfluoroundecanoic acid (PFUnA)	<0.5 µg/l
Perfluorobutanesulfonic acid (PFBS)	<0.5 µg/l
Perfluorohexanesulfonic acid (PFHxS)	<0.5 µg/l
Perfluoro-1-heptanesulfonic acid (PFHpS)	<0.5 µg/l
Perfluorodecanesulfonic acid (PFDS)	<0.5 µg/l
2-(N-ethylperfluoro-1-octanesulfonamide)-ethanol (N-EtFOSE)	<0.5 µg/l
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	<0.5 µg/l
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	<0.5 µg/l
2-(N-methylperfluoro-1-octanesulfonamide)-ethanol (N-MeFOSE)	<0.5 µg/l
2-Perfluorobutylethanol (FTOH 4-2)	<0.5 µg/l
2-Perfluorohexylethanol (FTOH 6-2)	<0.5 µg/l
2-Perfluorooctylethanol (FTOH 8-2)	<0.5 µg/l
2-Perfluorododecylethanol (FTOH 10-2)	<0.5 µg/l
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	<0.5 µg/l
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	<0.5 µg/l
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	<0.5 µg/l



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Perfluorinated and Polyfluorinated Chemicals	I001 (ug/L)
2H,2H,3H,3H-Perfluoroundecanoic acid	<0.5 µg/l
perfluoro-3,7-dimethyloctanoate (PF-3,7-DMOA)	<0.5 µg/l
7H-dodecafluoroheptanoate (HPFHpA)	<0.5 µg/l
1H,1H,2H,2H-Perfluorooctanesulphonic acid (H4PFOS 6:2)	<0.5 µg/l

Chlorobenzenes and Chlorotoluenes

Test Method / Standard:

Chlorobenzenes and Chlorotoluenes: Reference to EPA 8260B & EPA 8270D, reporting limit: 0.02 µg/L

Chlorobenzenes and Chlorotoluenes	I001 (ug/l)
Chlorobenzene	0.20 µg/l
1,2-Dichlorobenzene	<0.02 µg/l
1,3-Dichlorobenzene & 1,4-Dichlorobenzene	0.11 µg/l
1,2,3-Trichlorobenzene	<0.02 µg/l
1,2,4-Trichlorobenzene	<0.02 µg/l
1,3,5-Trichlorobenzene	0.24 µg/l
1,2,3,4-Tetrachlorobenzene	<0.02 µg/l
1,2,3,5-Tetrachlorobenzene	<0.02 µg/l
1,2,4,5-Tetrachlorobenzene	<0.02 µg/l
Pentachlorobenzene	<0.02 µg/l
Hexachlorobenzene	<0.02 µg/l
α,α,α,4-Tetrachlorotoluene	<0.02 µg/l
Benzotrichloride	<0.02 µg/l
Benzyl chloride (α-Chlorotoluene)	<0.02 µg/l



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Chlorophenols

Test Method / Standard:

Chlorophenols: With reference to EPA 8270D, reporting limit: 0.5 µg/l

Chlorophenols	I001 (ug/l)
2-Chlorophenol	<0.5 µg/l
3-Chlorophenol	<0.5 µg/l
4-Chlorophenol	<0.5 µg/l
2,3-Dichlorophenol	<0.5 µg/l
3,5&2,4&2,5&2,6-Dichlorophenol	<0.5 µg/l
2,3,5-Trichlorophenol	<0.5 µg/l
2,3,6&2,4,5-Trichlorophenol	<0.5 µg/l
2,4,6-Trichlorophenol	<0.5 µg/l
3,4,5& 2,3,4-Trichlorophenol	<0.5 µg/l
2,3,4,5-Tetrachlorophenol	<0.5 µg/l
2,3,4,6-Tetrachlorophenol	<0.5 µg/l
2,3,5,6-Tetrachlorophenol	<0.5 µg/l
Pentachlorophenol (PCP)	<0.5 µg/l
Tetrachlorophenol (TeCP)	<0.5 µg/l

Chlorinated solvents

Test Method / Standard:

Chlorinated Solvents: With reference to U.S. EPA 8260B, reporting limit: 1 µg/l

Chlorinated solvents	I001 (ug/l)
1,1-Dichloroethylene	<1 µg/l
1,2-Dichloroethane	<1 µg/l
cis-1,2-Dichloroethylene	<1 µg/l
trans-1,2-Dichloroethylene	<1 µg/l
1,1,1-Trichloroethane	<1 µg/l
1,1,2-Trichloroethane	<1 µg/l



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Trichloroethylene	<1 µg/l
1,1,1,2-Tetrachloroethane	<1 µg/l
Chloroform	<1 µg/l
Carbon tetrachloride	<1 µg/l
Methylene chloride	<1 µg/l
Tetrachloroethylene	<1 µg/l
1,2-Dibromoethane	<1 µg/l
1-Bromopropane (n-Propyl bromide)	<1 µg/l
Vinyl chloride	<1 µg/l
Ethylbenzene	<1 µg/l
Benzene	<1 µg/l
Hexachlorobutadiene	<1 µg/l

Disperse and Carcinogenic Dyes

Test Method / Standard:

Carcinogenic Dyes and Allergenic Disperse Dyes: BVCPS Inhouse method and analysis by Liquid Chromatograph Mass Spectrometer (LC-MS), reporting limit: 50 µg/l

Disperse and Carcinogenic Dyes	1001 (ug/l)
Disperse dyes - Disperse Yellow 1 (119-15-3)	< 50 µg/l
Disperse dyes - Disperse Blue 35 (12222-75-2)	< 50 µg/l
Disperse dyes - Disperse Blue 102 (12222-97-8/69766-79-6)	< 50 µg/l
Disperse dyes - Disperse Blue 106 (12223-01-7)	< 50 µg/l
Disperse dyes - Disperse Yellow 39 (12236-29-2)	< 50 µg/l
Disperse dyes - Orange 37 / 76 (13301-61-6)	< 50 µg/l
Carcinogenic dyestuffs - Direct Brown 95 (16071-86-6)	< 50 µg/l
Carcinogenic dyestuffs - Acid Violet 49 (1694-09-3)	< 50 µg/l
Carcinogenic dyestuffs - Direct Black 38 (1937-37-7)	< 50 µg/l



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Disperse and Carcinogenic Dyes	1001 (ug/l)
Disperse dyes - Disperse Brown 1 (23355-64-8)	< 50 µg/l
Carcinogenic dyestuffs - Direct Blue 15 (2429-74-5)	< 50 µg/l
Carcinogenic dyestuffs - Basic Green 4 (2437-29-8, 569-64-2, 10309-95-2)	< 50 µg/l
Disperse dyes - Disperse Blue 1 (2475-45-8)	< 50 µg/l
Disperse dyes - Disperse Blue 3 (2475-46-9)	< 50 µg/l
Carcinogenic dyestuffs - Basic Blue 26 (2580-56-5)	< 50 µg/l
Disperse dyes - Disperse Orange 1 (2581-69-3)	< 50 µg/l
Carcinogenic dyestuffs - Direct Blue 6 (2602-46-2)	< 50 µg/l
Disperse dyes - Disperse Yellow 3 (2832-40-8)	< 50 µg/l
Carcinogenic dyestuffs - Direct Blue 218 (28407-37-6)	< 50 µg/l
Disperse dyes - Disperse Red 11 (2872-48-2)	< 50 µg/l
Disperse dyes - Disperse Red 1 (2872-52-8)	< 50 µg/l
Disperse dyes - Disperse Red 17 (3179-89-3)	< 50 µg/l
Disperse dyes - Disperse Blue 7 (3179-90-6)	< 50 µg/l
Carcinogenic dyestuffs - Acid Red 26 (3761-53-3)	< 50 µg/l
Disperse dyes - Disperse Blue 26 (3860-63-7)	< 50 µg/l
Disperse dyes - Disperse Yellow 49 (54824-37-2)	< 50 µg/l
Carcinogenic dyestuffs - Basic Red 9 (569-61-9)	< 50 µg/l
Carcinogenic dyestuffs - Direct Red 28 (573-58-0)	< 50 µg/l
Carcinogenic dyestuffs - Solvent Yellow 1 (60-09-3)	< 50 µg/l
Carcinogenic dyestuffs - Solvent Yellow 2 (60-11-7)	< 50 µg/l
Disperse dyes - Disperse Blue 124 (61951-51-7)	< 50 µg/l
Carcinogenic dyestuffs - Disperse Yellow 23 (6250-23-3)	< 50 µg/l



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Disperse and Carcinogenic Dyes	I001 (ug/l)
Carcinogenic dyestuffs - Basic Violet 14 (632-99-5)	< 50 µg/l
Disperse dyes - Disperse Yellow 9 (6373-73-5)	< 50 µg/l
Carcinogenic dyestuffs - Acid Red 114 (6459-94-5)	< 50 µg/l
Disperse dyes - Disperse Orange 3 (730-40-5)	< 50 µg/l
Carcinogenic dyestuffs - Basic Violet 1 (8004-87-3)	< 50 µg/l
Carcinogenic dyestuffs - Disperse Orange 11 (82-28-0)	< 50 µg/l
Carcinogenic dyestuffs - Solvent Yellow 14 (842-07-9)	< 50 µg/l
Carcinogenic dyestuffs - Disperse Orange 149 (85136-74-9)	< 50 µg/l
Carcinogenic dyestuffs - Solvent Yellow 3 (97-56-3)	< 50 µg/l
Carcinogenic dyestuffs –Basic Green 4 leuco base (129-73-7)	< 50 µg/l



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Parameters & CAS No.

Acrylamide (CAS No.)	o-Aminoazotoluene (97-56-3)
Acrylamide (79-06-1)	5-Nitro-o-toluidine (99-55-8)
Acrylonitrile & 1,3-Butadiene (CAS No.)	Bisphenol A (CAS No.)
1,3-Butadiene (106-99-0)	Bisphenol A (80-05-7)
Acrylonitrile (107-13-1)	
p-Aminoazobenzene (CAS No.)	Chlorobenzenes and Chlorotoluenes (CAS No.)
p-Aminoazobenzene (60-09-3)	Benzylchloride (o-chlorotoluene) (100-44-7)
	1,3,5-Trichlorobenzene (108-70-3)
Alkylphenols & Alkylphenoethoxylates (CAS No.)	Monochlorobenzene (108-90-7)
Octylphenols (OP) (140-66-9, 27193-28-8, 1806-26-4, 85771-77-3)	Hexachlorobenzene (118-74-1)
Nonylphenols (NP) (25154-52-3, 104-40-5, 90481-04-2, 84852-15-3, 1173019-62-9, 11066-49-2)	1,2,4-Trichlorobenzene (120-82-1)
Octylphenol monoethoxylates (OPEO n=1) (Various)	2,4-Dinitrotoluene (121-14-2)
Octylphenoethoxylates (OPEO n=2 to n=18) (Various.)	α,α,α,4-Tetrachlorotoluene (5216-25-1)
Nonylphenol monoethoxylates (NPEO n=1) (various)	1,3 & 1,4-Dichlorobenzene (541-73-1, 108-46-7)
Nonylphenoethoxylates (NPEO n=2 to n=18) (various.)	Pentachlorobenzene (608-93-5)
	1,2,3,4-Tetrachlorobenzene (634-66-2)
	1,2,3,5-Tetrachlorobenzene & 1,2,4,5-Tetrachlorobenzene (634-90-2, 95-94-3)
	1,2,3-Trichlorobenzene (87-61-6)
Azo dyes/Arylamines (CAS No.)	1,2-Dichlorobenzene (95-50-1)
4,4'-Methylene-bis-(2-chloro-aniline) (101-14-4)	Benzotrichloride (98-07-7)
4,4'-Methylenedianiline (4,4'-Diaminodiphenylmethane) (101-77-9)	
	Chlorophenols (CAS No.)
4,4'-Oxydianiline (101-80-4)	4-Chlorophenol (106-48-9)
4-Chloroaniline (106-47-8)	3-Chlorophenol (108-43-0)
1,4-Phenylenediamine (106-50-3)	3,5 & 2,4 & 2,5 & 2,6-Dichlorophenol (120-83-2, 583-78-8, 87-65-0, 591-35-5)
3,3'-Dimethoxybenzidine (119-90-4)	2,3,4,5-Tetrachlorophenol (2,3,4,5-TeCP) (4901-51-3)
3,3'-Dimethylbenzidine (119-93-7)	2,3-Dichlorophenol (576-24-9)
6-Methoxy-m-toluidine (p-Cresidine) (120-71-8)	2,3,4,6-Tetrachlorophenol (2,3,4,6-TeCP) (58-90-2)
2,4,5-Trimethylaniline (137-17-7)	4-Chloro-3-methylphenol (59-50-7)
4,4'-Thiodianiline (139-65-1)	3,4,5 & 2,3,4-Trichlorophenol (609-19-8, 15950-66-0)
4-Methoxy-m-phenylenediamine (2,4-Diaminoanisole) (615-05-4)	Pentachlorophenol (PCP) (87-86-5)
	2,4,6-Trichlorophenol (2,4,6-TCP) (88-06-2)
Aniline (62-53-3)	2,3,6 & 2,4,5-Trichlorophenol (2,3,6 & 2,4,5-TCP) (933-75-5, 95-95-4)
4,4'-Methylenedi-o-toluidine	2,3,5-Trichlorophenol (2,3,5-TCP) (933-78-8)
(3,3'-Dimethyl-4,4'-diaminodiphenylmethane) (838-88-0)	2,3,5,6-Tetrachlorophenol (2,3,5,6-TeCP) (935-95-5)
2,6-Xylidine (87-62-7)	2-Chlorophenol (95-57-8)
o-Anisidine (90-04-0)	3,4-Dichlorophenol (95-77-2)
2-Naphthylamine (91-59-8)	
3,3'-Dichlorobenzidine (91-94-1)	Short Chain Chlorinated Paraffins (CAS No.)
4-Aminobiphenyl (92-67-1)	Short chained chlorinated paraffines, C10-C13 (85535-84-8)
Benzidine (92-87-5)	
o-Toluidine (95-53-4)	Carcinogenic Dyes and Allergenic Disperse Dyes (CAS No.)
2,4-Xylidine (95-68-1)	Disperse dyes - Disperse Yellow 1 (119-15-3)
4-Chloro-o-toluidine (95-69-2)	
4-Methyl-m-phenylenediamine (2,4-Toluenediamine) (95-80-7)	



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Disperse dyes - Disperse Blue 35 (12222-75-2)	Flame retardants (CAS No.)
Disperse dyes - Disperse Blue 102 (12222-97-8/69766-79-6)	Calculation to Boric acid theoretical * (10043-35-3)
Disperse dyes - Disperse Blue 106 (12223-01-7)	Monobromodiphenylether (MonoBDE) (101-55-3)
Disperse dyes - Disperse Yellow 39 (12236-29-2)	Calculation to Sodium perborate monohydrate theoretical * (10332-33-9, 12040-72-1, 15120-21-5, 11138-47-9)
Disperse dyes - Orange 37 / 76 (13301-61-6)	Calculation to Sodium perborate tetrahydrate theoretical * (10486-00-7, 11138-47-9, 13517-20-9)
Carcinogenic dyestuffs - Direct Brown 95 (18071-86-6)	Tris(2-chlorethyl)phosphat (TCEP) (115-96-8)
Carcinogenic dyestuffs - Acid Violet 49 (1694-09-3)	Decabromodiphenylether (DecaBDE) (1163-19-5)
Carcinogenic dyestuffs - Direct Black 38 (1937-37-7)	Calculation to Sodium tetraborate theoretical * (12179-04-3, 1303-96-4, 1330-43-4)
Disperse dyes - Disperse Brown 1 (23355-64-8)	Calculation to Di sodium tetraborate n hydrate theoretical * (12267-73)
Carcinogenic dyestuffs - Direct Blue 15 (2429-74-5)	Tris-(2,3-dibromopropyl) phosphate (TRIS) (126-72-7)
Carcinogenic dyestuffs - Basic Green 4 (2437-29-8, 569-64-2, 10309-95-2)	Calculation to Diboron trioxide theoretical * (1303-86-2)
Carcinogenic dyestuffs - Disperse Blue 1 (2475-45-8)	Calculation to Borate, zinc salt theoretical * (1332-07-6)
Carcinogenic dyestuffs - Disperse Blue 3 (2475-46-9)	Hexabromocyclododecane (HBCDD) (134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4, 3194-55-6)
Carcinogenic dyestuffs - Basic Blue 26 (2580-56-5)	Tris (2-chloroisopropyl) phosphate (TCPP) (13674-84-5)
Disperse dyes - Disperse Orange 1 (2581-69-3)	Tris(1,3-Dichloroisopropyl)Phosphate (TDCP) (13674-87-8)
Carcinogenic dyestuffs - Direct Blue 6 (2602-46-2)	Calculation to Orthoboric acid, sodium salt theoretical * (13840-56-7)
Carcinogenic dyestuffs - Disperse Yellow 3 (2832-40-8)	Pentabromodiphenylether (PentaBDE) (32534-81-9)
Carcinogenic dyestuffs - Direct Blue 218 (28407-37-6)	Octabromodiphenylether (OctaBDE) (32536-52-0)
Disperse dyes - Disperse Red 11 (2872-48-2)	Hexabromodiphenylether (HexaBDE) (36483-60-0)
Disperse dyes - Disperse Red 1 (2872-52-8)	Tetrabromodiphenylether (TetraBDE) (40088-47-9)
Disperse dyes - Disperse Red 17 (3179-89-3)	Tribromodiphenylether (TriBDE) (49890-94-0)
Disperse dyes - Disperse Blue 7 (3179-90-6)	Dibromodiphenylether (DiBDE) (53563-56-7)
Carcinogenic dyestuffs - Acid Red 26 (3761-53-3)	Bis(2,3-dibromopropyl) phosphate (BIS) (5412-25-9)
Disperse dyes - Disperse Blue 26 (3860-63-7)	Nonabromodiphenylether (NonaBDE) (63936-56-1)
Disperse dyes - Disperse Yellow 49 (54824-37-2)	Heptabromodiphenylether (HeptaBDE) (68928-80-3)
Carcinogenic dyestuffs - Basic Red 9 (569-61-9)	Boron (B), total content (7440-42-8)
Carcinogenic dyestuffs - Direct Red 28 (573-58-0)	Tetrabromobisphenol A (TBBPA) (79-94-7)
Carcinogenic dyestuffs - Solvent Yellow 1 (60-09-3)	Glycols (CAS No.)
Carcinogenic dyestuffs - Solvent Yellow 2 (60-11-7)	Ethylene glycol (107-21-1)
Disperse dyes - Disperse Blue 124 (61951-51-7)	2-Methoxyethanol (Ethylene glycol monomethyl ether) (109-86-4)
Carcinogenic dyestuffs - Disperse Yellow 23 (6250-23-3)	2-Methoxyethyl acetate (Ethylene glycol monomethyl ethyl acetate) (110-49-6)
Carcinogenic dyestuffs - Basic Violet 14 (632-99-5)	Ethylene glycol dimethyl ether (110-71-4)
Disperse dyes - Disperse Yellow 9 (6373-73-5)	2-Ethoxyethanol (Ethylene glycol monoethyl ether) (110-80-5)
Carcinogenic dyestuffs - Acid Red 114 (6459-94-5)	2-Ethoxyethyl acetate (111-15-9)
Disperse dyes - Disperse Orange 3 (730-40-5)	Bis(2-methoxyethyl)-ether (111-96-6)
Carcinogenic dyestuffs - Basic Violet 1 (8004-87-3)	Triethylene glycol dimethyl ether (Triglyme) (112-49-2)
Carcinogenic dyestuffs - Disperse Orange 11 (82-28-0)	1,2-Diethoxyethane (629-14-1)
Carcinogenic dyestuffs - Solvent Yellow 14 (842-07-9)	Heavy metals, total content & Chromium VI (CAS No.)
Carcinogenic dyestuffs - Disperse Orange 149 (85136-74-9)	
Carcinogenic dyestuffs - Solvent Yellow 3 (97-56-3)	
Epichlorohydrine content (CAS No.)	
Epichlorohydrine (106-89-9)	
Ethylacrylate (CAS No.)	
Ethylacrylate (140-88-5)	



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Lead (Pb) (7439-92-1) Mercury (Hg) (7439-97-6) Cadmium (Cd) (7440-43-9) Chromium (Cr) (7440-47-3)	Chrysene (218-01-9) Benzo (a) pyrene (50-32-8) Dibenzo (a,h) anthracene (53-70-3) Benzo (a) anthracene (56-55-3) Acenaphthene (83-32-9) Phenanthrene (85-01-8) Fluorene (86-73-7) Naphthalene (91-20-3)
Heavy metals, total content (CAS No.)	Perfluorinated and polyfluorinated compounds (CAS No.) (PFC's)
Cobalt compounds (as Co) (.various.) Nickel compounds (as Ni) (.various.) Nickel (Ni) (7440-02-0) Antimony (Sb) (7440-38-0) Arsenic (As) (7440-38-2) Cobalt (Co) (7440-48-4) Antimony compounds (as Sb) (various.) Arsenic compounds (as As) (various.)	7H-dodecafluoroheptanoate (HPFHpA) (1546-95-8) 2-(N-ethylperfluoro-1-octanesulfonamide)-ethanol (N-EtFOSE) (1691-99-2) perfluoro-3,7-dimethyloctanoate (PF-3,7-DMOA) (172155-07-8)
Michlers base and ketone (CAS No.)	1H,1H,2H,2H-Perfluorooctylacrylate (8:2 FTA) (17527-29-6) Perfluorooctane sulfonate (PFOS) / Perfluorooctanesulfonyl fluoride (POSF / PFOF) (1783-23-1, 56773-72-3, 307-35-7) 1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) (17741-60-5)
Michler's base (N,N,N',N'-tetramethyl-4,4'-methylenedianiline) (101-81-1) Michler's ketone (4,4'-bis(dimethylamino)benzophenone) (90-94-8)	2-Perfluorobutyl ethanol (FTOH 4-2) (2043-47-2) Perfluoroundecanoic acid (PFUnA) (2058-94-8) 2-(N-methylperfluoro-1-octanesulfonamide)-ethanol (N-MeFOSE) (2448-09-7) Perfluoropentanoic acid (PFPeA) (2706-90-3) 1H,1H,2H,2H-Perfluorooctanesulphonic acid (H4PFOS 8:2) (27619-97-2) 1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA) (27905-45-9) Perfluorohexanoic acid (PFHxA) (307-24-4) Perfluorododecanoic acid (PFDoA) (307-55-1) N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) (31506-32-8) Perfluorooctanoic acid (PFOA) (335-67-1) Perfluorodecanoic acid (PFDA) (335-76-2) Perfluorodecanesulfonic acid (PFDS) (335-77-3, 2806-15-7) 2H,2H,3H,3H-Perfluoroundecanoic acid (34598-33-9) Perfluorohexanesulfonic acid (PFHxS) (355-46-4, 3871-99-6) Perfluorobutanoic acid (PFBA) (375-22-4) Perfluorobutanesulfonic acid (PFBS) (375-73-5, 29420-49-3) Perfluoroheptanoic acid (PFHpA) (375-85-9) Perfluorononanoic acid (PFNA) (375-95-1) Perfluorotetradecanoic acid (PFTeA) (376-06-7) N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) (4151-50-2)
N-Nitrosamines (CAS No.)	Perfluoro-1-heptanesulfonic acid (PFHpS) (60270-55-5, 375-92-8) 2-Perfluorohexylethanol (FTOH 6-2) (647-42-7)
N-nitrosopiperidine (NPIP) (100-75-4) N-nitrosomethylethylamine (NMEA) (10595-95-8) N-nitrosodiethanolamine (NDELA) (1116-54-7) p-Nitrosodiphenylamine (156-10-5) N-nitrosodiethylamine (NDEA) (55-18-5) N-nitrosomorpholine (NMOR) (59-89-2) N-nitroso N-ethyl N-phenylamine (NEPhA) (612-64-6) N-nitroso N-methyl N-phenylamine (NMPhA) (614-00-6) N-nitrosodimethylamine (NDMA) (62-75-9) N-Nitrosodi-n-propylamine (NDPA) (621-64-7) N-Methyl-N'-nitro-N-nitrosoguanidine (70-25-7) N-Nitrosodiphenylamine (NDPhA) (86-30-6) N-nitrosodibutylamine (NDBA) (924-16-3) N-nitrosopyrrolidine (NPYR) (930-55-2)	
Determination of PAH (CAS No.)	
Anthracene (120-12-7) Pyrene (129-00-0) Benzo (g,h,i) perylene (191-24-2) Benzo (e) pyrene (192-97-2) Indeno (1,2,3-cd) pyrene (193-39-5) Benzo (j) fluoranthene (205-82-3) Benzo (b) fluoranthene (205-99-2) Fluoranthene (208-44-0) Benzo (k) fluoranthene (207-08-9) Acenaphthylene (208-96-8)	



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2-Perfluorooctylethanol (FTOH 8-2) (678-39-7)
Perfluorotridecanoic acid (PFTrA) (72829-94-8)
Perfluorooctane sulfonamide (PFOSA) (754-91-6)
2-Perfluorodecylethanol (FTOH 10-2) (865-86-1)

Phthalates	(CAS No.)
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Di(2-ethylhexyl)phthalate (DEHP) (117-81-7)
Bis(2-methoxyethyl) phthalate (DMEP) (117-82-8)
Di-n-octylphthalate (DNOP) (117-84-0)
Di-n-propylphthalate (DPRP) (131-16-8)
Di-n-pentylphthalate (DnPP) (131-18-0)
Di-iso-octylphthalate (DIOP) (1330-91-2)
Di-iso-decylphthalate (DIDP) (26761-40-0, 68515-49-1)
Di-iso-nonylphthalate (DINP) (28553-12-0, 68515-48-0)
Di-iso-pentylphthalate (DIPP) (805-50-5)
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNU) -> determined as Diundecylphthalate (68515-42-4, 3648-20-2)
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear (DHP) (68515-50-4)
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl di esters with ≥0.3% of dehexylphthalate (EC 201-559-5) (68515-51-5 and 68649-93-1)
Diisohexylphthalate (DIHP) (71850-09-4)
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (71888-89-6)
n-Pentyl-iso-pentylphthalate (PIPP) (776297-89-0)
Dicyclohexylphthalate (DCHP) (84-61-7)
Diethylphthalate (DEP) (84-66-2)
Di-iso-butylphthalate (DIBP) (84-89-5)
Dibutylphthalate (DBP) (84-74-2)
Di-n-hexylphthalate (DnHP) (84-75-3)
Dinonylphthalate (DNP) (84-76-4)
Benzylbutylphthalate (BBP) (85-68-7)

Chlorinated Solvents	(CAS No.)
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Ethylbenzene (100-41-4)
1,2-Dibromoethane (106-93-4)
1-Bromopropane (n-Propyl bromide) (106-94-5)
1,2-Dichloroethane (107-06-2)
Tetrachloroethylene (127-18-4)
cis-1,2-Dichloroethylene (156-59-2)
trans-1,2-Dichloroethylene (156-60-5)
Carbon tetrachloride (56-23-5)
1,1,1,2-Tetrachloroethane (630-20-6)
Chloroform (67-68-3)
Benzene (71-43-2)

1,1,1-Trichloroethane (71-55-6)
Vinyl chloride (75-01-4)
Methylene chloride (75-09-2)
1,1-Dichloroethylene (75-35-4)
1,1,2-Trichloroethane (79-00-5)
Trichloroethylene (79-01-6)
Hexachlorobutadiene (87-68-3)

Tinorganic compounds	(CAS No.)
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Trioctyltin (TOT) (.nonexistent-)
Dibutyltin (DBT) / Dibutyltin chloride (DBTC) (1002-53-5, 683-18-1)
Diphenyltin (DPhT) (1011-95-6)
Trimethyltin (TMeT) (1068-45-1)
Monobutyltin (MBT) (1118-46-3)
Phenyltin (PhT) (1124-19-2)
Tetrabutyltin (TeBT) (1461-25-2)
Monooctyltin (MOT) (15231-44-4)
Tricyclohexyltin (TCyHT) (3091-32-5)
Tributyltin (TBT) / Bis(Tributyltin) oxide (TBTO) (56573-85-4, 56-35-9)
Tetraethyltin (TeEtT) / Triethyltin (TEtT) (597-84-8)
Triphenyltin (TPhT) (639-58-7)
Dibutyltin hydrogen borate (DBB) (Reported as B and DBT) (75113-37-0)
Dimethyltin (DMeT) (753-73-1)
Dipropyltin (DPT) (867-36-7)
Diocetyl tin (DOT) (94410-05-8)
Tripropyltin (TPT) (nonexistent)
Monomethyltin (MeT) / Monomethyltintrichloride (MeTCl) (various, 993-16-8)