



CONFINDUSTRIA TOSCANA NORD
Lucca Pistoia Prato



Gestione Impianti Depurazione Acque S.p.A

Accordo CTN - G.I.D.A Spa per il monitoraggio della qualità dell'acqua dell'acquedotto industriale nell'ambito del progetto Detox

Il Progetto Detox di Confindustria Toscana Nord

A febbraio 2016, per la prima volta nello scenario mondiale, 20 aziende manifatturiere del distretto pratese, associate a Confindustria Toscana Nord, hanno aderito agli impegni Detox, riconoscendo l'importanza dell'eliminazione delle sostanze pericolose dal ciclo produttivo tessile.

Le aziende, con il supporto e la guida dell'associazione, hanno così intrapreso il loro percorso di miglioramento verso l'eliminazione di tali sostanze seguendo i principi di trasparenza, prevenzione e precauzione della campagna Detox, e hanno raccolto la sfida mediatica della campagna di Greenpeace che ha cambiato rapidamente l'attenzione e i contenuti dei capitoli dei grandi brand della moda.

Le aziende che hanno sottoscritto l'impegno Detox, attraverso il comune percorso di distretto, rappresentano varie parti della filiera manifatturiera tessile. Ne fanno parte aziende produttrici di filato, di tessuto e di materie prime, aziende di tintoria e rifinitura filati o tessuti, produttori di chemicals per l'industria tessile.

Un nodo fondamentale dell'impegno è il monitoraggio e la pubblicazione dei dati relativi alla presenza degli 11 gruppi di sostanze pericolose elencate nella MRSL nelle acque in ingresso e in uscita dalle aziende ad umido.

G.I.D.A. : il recupero e il riutilizzo dell'acqua usata

L'approvvigionamento di acqua per usi industriali e civili, effettuato in massima parte dalla falda idrica attraverso i pozzi, ha determinato il progressivo impoverimento di questa risorsa, che da sola non è più in grado di soddisfare le esigenze complessive civili e industriali.

G.I.D.A., consapevole di possedere le due principali sorgenti di acqua "riciclabile" derivanti dallo scarico dei 2 impianti centralizzati di depurazione, ha unificato le esperienze cittadine ed ha conseguentemente acquisito un ruolo determinante nel recupero ai fini del riutilizzo delle acque reflue.

In questo modo il distretto possiede una importante alternativa al consumo di acqua primaria tale da contribuire significativamente alla preservazione della risorsa, evitando di dover drammaticamente scegliere, in un prossimo futuro, fra consumi civili e industriali.



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G.I.D.A. gestisce attualmente i due impianti di affinamento di acqua depurata (uno di proprietà e l'altro di proprietà CONSER) insieme a tutta la rete di distribuzione. Gli impianti hanno una potenzialità di produzione di circa 15 milioni di mc di acqua l'anno. Negli ultimi anni sono stati distribuiti mediamente oltre 5 milioni di mc/anno.

La rete di distribuzione di G.I.D.A. si estende per 60 km e rifornisce i Macrolotti industriali, la città di Prato e la zona industriale di Montemurlo.

Piano di monitoraggio e controllo per Detox

G.I.D.A., condividendo gli obiettivi e le finalità di questo ambizioso e innovativo progetto che coinvolge il distretto di Prato, metterà a disposizione le proprie competenze e risorse per strutturare una campagna analitica di monitoraggio della qualità delle acque dell'acquedotto industriale secondo le specifiche descritte nell'allegato tecnico (allegato 1).

Prato, 9 marzo 2016

G.I.D.A. S.p.A.

IL PRESIDENTE

(Alessandro Brogi)

Confindustria Toscana Nord

IL PRESIDENTE

(Andrea Cavicchi)

All.to 1: Modalità operative del piano di monitoraggio acquedotto industriale

All.to 2: Elenco sostanze MRSL

Allegato 1- Modalità operative del piano di monitoraggio acquedotto industriale

La campagna analitica di monitoraggio della qualità delle acque dell'acquedotto industriale avrà una durata corrispondente alla durata del progetto (2016-2020) e sarà effettuata attraverso un campionamento nei seguenti punti di immissione:

- impianto di affinamento G.I.D.A.
- impianto di affinamento di proprietà della società CONSER

Le sostanze analizzate saranno quelle elencate nella MRSL del progetto Detox appartenenti ai seguenti gruppi e dettagliate, insieme ai limiti di rilevabilità dei metodi analitici, nell'Allegato 2.

1. Alkylphenols (AP) (APEO)
2. Phthalates
3. Brominated and Chlorinated Flame retardants
4. Amines (Associated with Azo dyes)
5. Organotin compounds
6. PFCs
7. Chloro benzenes
8. Chlorinated solvents
9. Chloro phenols
10. SCCP
11. Heavy metals

Le indagini analitiche sugli 11 gruppi di sostanze saranno effettuate una volta l'anno con campione medio prelevato nell'arco delle 3 ore. In base ai risultati delle analisi saranno programmate specifiche campagne di indagine e monitoraggio. Le ulteriori indagini dovranno riguardare anche le sostanze presenti nel dodicesimo punto della MRSL

Saranno utilizzati laboratori con accreditamento delle prove sulle sostanze di interesse e in grado di garantire limiti di rivelabilità compatibili con la MRSL allegata.



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Gestione Impianti Depurazione Acque S.p.A

I risultati delle analisi saranno messi a disposizione del pubblico attraverso la pubblicazione sul sito GIDA www.gida-spa.it e pubblicate sulla pagina web del progetto <https://www.confindustriatoscananord.it/sostenibilita/detox>.

Priority 11 group examples

Note that the restriction applies to all members of each of the 11 groups. Where applicable, a list of specific examples is given for each group. These are examples, and do not provide an exhaustive

Note: all chemicals to be tested in input formulations and output discharge (wastewater and sludge) and products

Note: annex: examples for detection limit from different labs

			Combined MRSL - PRATO DISCRICT	
Category	Name to list	CAS	Input water waste water (µg/L)	sludge - textiles raw materials - textiles articles - chemicals (mg/kg)
Alkylphenols (APEO)				
1	AP	4-(1,1,3,3-Tetramethylbutyl)-phenol	1 (each)	1 (each)
2		Octylphenol		
3		4-Octylphenol		
4		4-Nonylphenol (branched)		
5		Nonylphenol		
6		Nonylphenol (mixed isomers)		
7	APEO	Nonylphenol Ethoxylates NPEO (1-2) various	1 (each)	1 (each)
8		Nonylphenol Ethoxylates NPEO (3-18) various		
9		Nonylphenol ethoxylated		
10		4-Nonylphenol, ethoxylated		
11		Octylphenol Ethoxylates OPEO (1-2) various		
12		Octylphenol Ethoxylates OPEO (3-18) various		
13		4-tert-Octylphenoethoxylate		

Phthalates				
14		Di-Butyl Phthalate (DBP)	1 (each)	10 (each)
15		Di(2-Ethyl Hexyl) Phthalate(DEHP)		
16		Benzyl Butyl Phthalate (BBP)		
17		Di-Iso-Nonyl Phthalate (DINP)		
18		Di-N-Octyl Phthalate (DNOP)		
19		Di-Iso-Decyl Phthalate (DIDP)		
20		Di-Iso-Butyl Phthalate (DIBP)		
21		Di-N-Hexyl Phthalate (DNHP)		
22		Di-(2-methoxyethyl) phthalate (DMEP)		
23		1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)		
24		1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)		
25		Dipentyl phthalate (DPP)		
26		Diisopentylphthalate		
27		N-pentyl-isopentylphthalate		

Category

Name to list

CAS

**Input water
waste water
(µg/L)**

**sludge -
textiles raw materials -
textiles articles -
chemicals (mg/kg)**

**Brominated and Chlorinated
Flame retardants**

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Polybrominated diphenyl ethers (PBDEs) various			
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	each = 5	each = 5
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)	134237-50-6,134237-51-7,134237-52-8,		
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		

**Amines (Associated with Azo
dyes)**

NOTE; the restriction applies to the manufacture/use all azo dyes that can release one or more of the listed amines (Note, the restriction also applies to the use of the listed amines, such as for use in dye manufacture).

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4-Aminodiphenyl	92-67-1		
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	1 (each)	1 (each)
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		

Category	Name to list	CAS	Input water waste water (µg/L)	sludge - textiles raw materials - textiles articles - chemicals (mg/kg)
68	2,4-Xylidine	95-68-1		
69	2,6-Xylidine	87-62-7		

Organotin compounds

70	MBT(Monobutyltin)	78763-54-9	0,1 (each)	1 (each)
71	DBT(Dibutyltin)	1002-53-5		
72	TBT(Tributyltin)	36643-28-4		
73	DOT(Dioctyltin)	94410-05-6		
74	MOT(Monooctyltin)	15231-44-4		
75	DPhT(Diphenyltin)	1011-95-6, 6381-06-2		
76	TeBT(Tetrabutyltin)	1461-25-2		
77	TCHT(Tricyclohexyl Tin)	6056-50-4		
78	TPT(Tripropyltin)	NA		
79	TeET(Tetraethyltin)	597-64-8		
80	Tributyltin oxide (TBTO)	56-35-9		
81	Dibutyltin dichloride (DBTC)	683-18-1		
82	Triphenyltin (TPhT)	668-34-8		
83	Dibutyltin hydrogen borate (DBB)	75113-37-0		

PFCs

84	PFBA	375-22-4	0,01 (each)	0,01 (each)
85	PFPeA	2706-90-3		
86	PFHxA	307-24-4		
87	PFHpA	375-85-9		
88	PFOA	335-67-1		
89	PFNA	375-95-1		
90	PFDA	335-76-2		
91	PFUnA	2058-94-8		
92	PFDoA	307-55-1		
93	PFTTrA	72629-94-8		
94	PFteA	376-06-7		
95	PFBS	375-73-5 or 59933-66-3		
96	PFHxS	355-46-4		
97	PFHpS	375-92-8		
98	PFOS	1763-23-1		
99	PFDS	335-77-3		
100	4:2 FTOH	2043-47-2		
101	6:2 FTOH	647-42-7		
102	8:2 FTOH	678-39-7		
103	10:2 FTOH	865-86-1	0,01 (each)	0,01 (each)
104	6:2 FTA	17527-29-6		
105	8:2 FTA	27905-45-9		
106	10:2 FTA	17741-60-5		
107	PFOSA	754-91-6		
108	POSF	307-35-7		
109	N-Me-FOSA	31506-32-8		
110	N-Et-FOSA	4151-50-2		
111	N-Me-FOSE alcohol	24448-09-7		

Category

Name to list

CAS

**Input water
waste water
(µg/L)**

**sludge -
textiles raw materials -
textiles articles -
chemicals (mg/kg)**

112
113
114
115
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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

Chloro benzenes

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Dichlorobenzenes various		0,02 (each)	0,5 (each)
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		

Chlorinated solvents

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Dichloromethane	75-09-2	1 (each)	0,5 (each)
Chloroform	67-66-3		
Tetrachloromethane	56-23-5		
1,1,2-Trichloroethane	79-00-5		10
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		

Chloro phenols

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Pentachlorophenols (PCP)	87-86-5		
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		

Category	Name to list	CAS	Input water waste water (µg/L)	sludge - textiles raw materials - textiles articles - chemicals (mg/kg)
154	2,3,5-trichlorophenol	933-78-8	0,5 (each)	0,05 (each)
155	2,3,6-trichlorophenol	933-75-5		
156	2,4,5-trichlorophenol	95-95-4		
157	3,4,5-trichlorophenol	609-19-8		
158	Dichlorophenols (DiCP)	25167-81-1		
159	2,3-dichlorophenol	576-24-9		
160	2,4-dichlorophenol	120-83-2		
161	2,5-dichlorophenol	583-78-8		
162	3, 4-dichlorophenol	95-77-2		
163	3, 5-dichlorophenol	591-35-5		
164	Mono Chlorophenol various			

SCCP

165	SCCP C10–13	85535-84-8	0,5 (sum)	1 (sum)
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Heavy metals

166	Total Cadmium(Cd)	7440-43-9	0,1	1
167	Total Lead(Pb)	7439-92-1	1	1
168	Total Mercury(Hg)	7439-97-6	0,5	1
169	Total Hexavalent chromium (Cr-VI)	18540-29-9	1	1

**Beyond Priority 11 group
examples**

NOTE; Categories are in no particular order

Brominated solvents

174 Br-solvent	1,2-dibromoethane	106-93-4	1 (each)	1 (each)
175 Br-solvent	1-bromopropane; n-propyl bromide	106-94-5		
176 Br-solvent/dye intermediate	Bromoethane	74-96-4		
177 Br-solvent/dye intermediate	2-bromopropane	75-26-3		

α-chlorotoluenes

178 α-chlorotoluene	Benzyl chloride; α-chlorotoluene	100-44-7	1 (each)	1 (each)
179 α-chlorotoluene	p-chlorobenzotrichloride	5216-25-1		
180 α-chlorotoluene	α,α,α-trichlorotoluene; benzotrichloride	98-07-7		
181 α-chlorotoluene	α,α-Dichlorotoluene (Benzal chloride)	98-87-3		

Category

Name to list

CAS

**Input water
waste water
(µg/L)**

**sludge -
textiles raw materials -
textiles articles -
chemicals (mg/kg)**

Glycol ethers

239 glycol ether	Glycol; diglyme	111-96-6	10 (each)	10 (each)
240 glycol ether	Ethylene glycol monomethyl ether	109-86-4		
241 glycol ether	Ethylene glycol monomethyl ether acetate; 2-Methoxyethyl acetate	110-49-6		
242 glycol ether	1,2-dimethoxyethane; ethylene glycol dimethyl ether; EGDME	110-71-4		
243 glycol ether	Ethylene glycol monoethyl ester	110-80-5		
244 glycol ether	Ethylene glycol monoethyl ether acetate	111-15-9		
245 glycol ether	1,2-diethoxyethane	629-14-1		
246 glycol ether	Ethylene glycol	107-21-1		
247 glycol ether	Glycol; triglyme (TEGDME)	112-49-2		

N-nitroso compounds

266 N-nitroso compounds	N-Nitrosopiperidine	100-75-4	5 (each)	10 (each)
267 N-nitroso compounds	N-Nitrosomethylethylamine	10595-95-6		
268 N-nitroso compounds	N-Nitrosodiethanolamine	1116-54-7		
269 N-nitroso compounds	N-Ethyl-N-nitrosoanilin	612-64-6		
270 N-nitroso compounds	N-Methyl-N-nitrosoanilin	614-00-6		
271 N-nitroso compounds	N-Nitrosodi-n-propylamine	621-64-7		
272 N-nitroso compounds	N-Nitrosodimethylamine	62-75-9		
273 N-nitroso compounds	N-Methyl-N'-nitro-N-nitrosoguanidine	70-25-7		
274 N-nitroso compounds	N-Nitrosodiphenylamine	86-30-6		
275 N-nitroso compounds	N-Nitrosodiethylamine (NDEA)	55-18-5		
276 N-nitroso compounds	N-Nitrosodi-n-butylamine (NDBA)	924-16-3		
277 N-nitroso compounds	N-Nitrosopyrrolidine (NPYR)	930-55-2		
278 N-nitroso compounds	N-Nitrosomorpholine (NMOR)	59-89-2		
279 other nitroso compounds	p-Nitrosodiphenylamine	156-10-5		

Polyaromatic hydrocarbons (PAHs)

280 polyaromatic hydrocarbons (PAHs)	Anthracene	120-12-7	0,5 (each)	0,5 (each)
281 polyaromatic hydrocarbons (PAHs)	Pyrene	129-00-0		
282 polyaromatic hydrocarbons (PAHs)	Polycyclic Aromatic Compounds (PACs)	130498-29-2		
283 polyaromatic hydrocarbons (PAHs)	benzo[e]pyrene	192-97-2		
284 polyaromatic hydrocarbons (PAHs)	Indeno[1,2,3-cd]pyren	193-39-5		
285 polyaromatic hydrocarbons (PAHs)	benzo[j]fluoranthene	205-82-3		
286 polyaromatic hydrocarbons (PAHs)	Benzo[b]fluoranthene	205-99-2		
287 polyaromatic hydrocarbons (PAHs)	Benzo[k]fluoranthene	207-08-9		
288 polyaromatic hydrocarbons (PAHs)	Acenaphthylen	208-96-8		
289 polyaromatic hydrocarbons (PAHs)	9,10-Benzophenanthren	217-59-4		
290 polyaromatic hydrocarbons (PAHs)	Chrysene	218-01-9		
291 polyaromatic hydrocarbons (PAHs)	benzo[a]pyrene; benzo[def]chrysene	50-32-8		
292 polyaromatic hydrocarbons (PAHs)	Dibenz[a,h]anthracene	53-70-3		
293 polyaromatic hydrocarbons (PAHs)	Benz[a]anthracene	56-55-3		
294 polyaromatic hydrocarbons (PAHs)	Coal tar pitch	65996-93-2		
295 polyaromatic hydrocarbons (PAHs)	Anthracene oil	90640-80-5		

Category	Name to list	CAS	Input water waste water (µg/L)	sludge - textiles raw materials - textiles articles - chemicals (mg/kg)
296 polyaromatic hydrocarbons (PAHs)	Anthracene oil, anthracene paste	90640-81-6		
297 polyaromatic hydrocarbons (PAHs)	Anthracene oil, anthracenelow	90640-82-7		
298 polyaromatic hydrocarbons (PAHs)	Naphthalene	91-20-3	2	1
299 polyaromatic hydrocarbons (PAHs)	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0,5 (each)	0,5 (each)
300 polyaromatic hydrocarbons (PAHs)	Anthracene oil, anthracene paste, distn. Lights	91995-17-4		
301 polyaromatic hydrocarbons (PAHs)	Benzo[ghi]perylene	191-24-2		
302 polyaromatic hydrocarbons (PAHs)	Fluoranthene	206-44-0		
303 polyaromatic hydrocarbons (PAHs)	Acenaphthene	83-32-9		
304 polyaromatic hydrocarbons (PAHs)	Phenanthrene	85-01-8		

Metals/metalloids:

345 As	Arsenic & arsenic compounds	7440-38-2 (element)	0,1	1
346 Be	Beryllium & beryllium oxide	7440-41-7 (element) / 1304-56-9	1	1
347 Co	cobalt & cobalt compounds	7440-48-4 (element)	1	10
348 Ni	nickel and nickel compounds	7440-02-0 (element)	5	10
349 Sb	Antimony & antimony compounds	7440-36-0 (element)	1	5
350 V	Vanadium pentoxide	1314-62-1 (element)	10	10

Category

Name to list

CAS

Antioxidant

170 antioxidant	2,4,6-tri(t-butyl)Phenol	732-26-3	5 (sum)	10 (sum)
171 antioxidant	2,6-di-tert-butyl-4-(1-methylpropyl)-hydroxybenzene	17540-75-9		
172 antioxidant	2,6-di-tert-butyl-4-(methylthioacetic acid, 2-ethylhexyl ester)-hydroxybenzene	80387-97-9		
173 antioxidant	6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	96-69-5		

Azo dyes that release carcinogenic amines through reductive cleavage (in addition to the priority 11 examples linked to amines listed in EU & Chinese regulations)

182 azo dye (CMR)	(methylenebis(4,1-phenylenazo(1-(3-(dimethylamino)propyl)-1,2-dihydro-6-hydroxy-4-methyl-2-oxypyridine-5,3-diy)))-1,1'-dipyridinium dichloride dihydrochloride	118658-99-4	1 (each)	5 (each)
183 azo dye (CMR)	C.I. Acid Red 26	3761-53-3		
184 azo dye (CMR)	Pigment Rot 53:1 (C.I. 15585:1); D&C Red No. 9	5160-02-1		
185 azo dye (CMR)	C.I. Solvent Yellow 14	842-07-9		
186 azo dye (CMR)	1,2-dihydro-6-hydroxy-4-methyl-1-[3-(1-methylethoxy)propyl]-2-oxo-5-[[4-(phenylazo)phenyl]azo]-3-pyridinecarbonitrile	85136-74-9		
187 azo dye (CMR)	C.I. Disperse Yellow 3	2832-40-8		

Category	Name to list	CAS	Input water waste water (µg/L)	sludge - textiles raw materials - textiles articles - chemicals (mg/kg)
188 azo dye (CMR)	C.I. Solvent Yellow 2	60-11-7		
189 azo dye (CMR)	C.I. Direct Blue 218	28407-37-6		
190 azo dye amine	Diaminobenzidine [biphenyl-3,3',4,4'-tetrayltetraamine]	91-95-2	1 (each)	1 (each)
191 azo dye amine	diaminotoluene	25376-45-8		
192 azo dye amine	N,N'-Diacetylbenzidine	613-35-4		
193 azo dye amine	toluene-2,4-diammonium sulphate	65321-67-7		

Dyes

194 dye (CMR)	C.I. Acid Violet 49	1694-09-3	1 (each)	5 (each)
195 dye (CMR)	Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride	548-62-9		
196 dye (CMR)	C.I. Basic Red 9 monohydrochloride	569-61-9		
197 dye (CMR)	C.I. 77332, C.I. Pigment Black 25, cobalt nickel gray periclase	68186-89-0		
198 dye (CMR)	C.I. 77900, C.I. Pigment Yellow 157, nickel barium titanium primrose priderite	68610-24-2		
199 dye (CMR)	D&C Red No. 19	81-88-9		
200 dye	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2		
201 dye	Auramine hydrochloride	2465-27-2		
202 dye	C.I. Basic Green 4 leuco base	129-73-7		
203 dye	C.I. Disperse Blue 1	2475-45-8		
204 dye	C.I. Pigment Brown 22	29398-96-7		
205 dye	C.I. Pigment Red 53; D&C Red No. 8	2092-56-0		
206 dye	Pigment Red 168	4378-61-4		
207 dye	Disperse Orange 11	82-28-0		

Dye intermediate

208 dye intermediate	3-amino-9-ethyl carbazole, 9-ethylcarbazol-3-ylamine	132-32-1	1 (each)	5 (each)
209 dye intermediate	4,4-isobutylethylidenediphenol	6807-17-6		
210 dye intermediate	4-amino-3-fluorophenol	399-95-1		
211 dye intermediate	Anthraquinone	84-65-1		
212 dye intermediate	anthraquinone, 1-hydroxy	129-43-1		
213 dye intermediate	Carbazole	86-74-8		
214 dye intermediate	diazomethane	334-88-3		
215 dye intermediate	Dimethylcarbamoyl chloride	79-44-7		
216 dye intermediate	quinoline	91-22-5		
217 dye reagent	potassium bromate	7758-01-2		

Dinitrotoluenes

218 dinitrotoluene	2,4-dinitrotoluene	121-14-2	0,1 (each)	1 (each)
219 dinitrotoluene	dinitrotoluene (isomer mixture)	25321-14-6		
220 dinitrotoluene	2,3-dinitrotoluene	602-01-7		
221 dinitrotoluene	2,6-Dinitrotoluene	606-20-2		
222 dinitrotoluene	3,4-dinitrotoluene	610-39-9		

Category	Name to list	CAS	Input water waste water (µg/L)	sludge - textiles raw materials - textiles articles - chemicals (mg/kg)
223 dinitrotoluene	3,5-dinitrotoluene	618-85-9		
224 dinitrotoluene	2,5-dinitrotoluene	619-15-8		

Epoxy intermediate (CMRs)

225 epoxy intermediate (CMR)	Epichlorohydrin	106-89-8	10 (each)	10 (each)
226 epoxy intermediate (CMR)	phenyl glycidyl ether; 2,3-epoxypropyl phenyl ether; 1,2-epoxy-3-phenoxypropane	122-60-1		
227 epoxy intermediate (CMR)	2,2'-bioxirane [1,2:3,4-diepoxybutane]	1464-53-5		
228 epoxy intermediate (CMR)	2,3-epoxypropyltrimethylammonium chloride; EPTAC; Oxiranemethanaminium, N,N,N-trimethyl chloride; Glycidyltrimethylammonium chloride	3033-77-0		
229 epoxy intermediate (CMR)	R-1-chloro-2,3-epoxypropane	51594-55-9		
230 epoxy intermediate (CMR)	Glycidol [2,3-epoxy-1-propanol]	556-52-5		
231 epoxy intermediate (CMR)	R-2,3-epoxy-1-propanol	57044-25-4		
232 epoxy intermediate (CMR)	1,3,5-tris-[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione	59653-74-6		
233 epoxy intermediate (CMR)	oxiranemethanol, 4-methylbenzene-sulfonate, (S)-	70987-78-9		
234 epoxy intermediate (CMR)	ethylene oxide; oxirane	75-21-8		
235 epoxy intermediate (CMR)	propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9		
236 epoxy intermediate (CMR)	styrene oxide; (epoxyethyl)benzene; phenyloxirane	96-09-3		

Fibrous mineral

237 fibrous mineral	asbestos	-	Not Detectable (Best current testing technology using lowest detection/reporting limits always updated and applied)	Not Detectable (Best current testing technology using lowest detection/reporting limits always updated and applied)
238 fibrous mineral	erionite	12510-42-8		

Monomers

248 monomer	1,3-Butadiene	106-99-0	5 (each)	5 (each)
249 monomer	Acetaldehyde	75-07-0		
250 monomer	Acrylonitrile	107-13-1		
251 monomer	Aziridine [Ethyleneimine]	151-56-4		
252 monomer	aziridine, 2-methyl	75-55-8		
253 monomer	chloroprene (stabilized); 2-chlorobuta-1,3-diene	126-99-8		
254 monomer	dimethylsulfamoylchloride	13360-57-1		
255 monomer	Ethyl acrylate	140-88-5		
256 monomer	Isobutyl nitrite	542-56-3		
257 monomer	Isoprene	78-79-5		
258 monomer	Methylcarbamate	598-55-0		
259 monomer	N-Vinyl-2-pyrrolidinone	88-12-0		
260 monomer	Propane sultone [1,3-propanesultone; 1,2-oxathiolane 2,2-dioxide]	1120-71-4		
261 monomer	Urethane (Ethyl carbamate)	51-79-6		
262 monomer	Vinyl bromide	593-60-2		

Category	Name to list	CAS	Input water waste water (µg/L)	sludge - textiles raw materials - textiles articles - chemicals (mg/kg)
263 monomer	Vinyl chloride	75-01-4		
264 monomer	Acrylamide	79-06-1		
265 monomer	N-Methylolacrylamide	924-42-5		

Respirable particles

305 respirable particles	Aluminium oxide (particles of respirable size)	1344-28-1	Not Detectable (Best current testing technology using lowest detection/reporting limits always updated and applied)	Not Detectable (Best current testing technology using lowest detection/reporting limits always updated and applied)
306 respirable particles	Silica (particles of respirable size)	14464-46-1; 14808-60-7; 7631-86-9		
307 respirable particles	Titanium dioxide (particles of respirable size)	13463-67-7; 1317-70-0; 1317-80-2		

Solvents

308 solvent	1,4-Dioxane	123-91-1	10	1
309 solvent	2-methoxypropanol	1589-47-5	5	10
310 solvent	2-methoxypropyl acetate	70657-70-4	5	1
311 solvent	Benzene	71-43-2	1	0,5
312 solvent	Cyclododecane	294-62-2	10	1
313 solvent	Dimethyl formamide (DMF)	68-12-2	10	1
314 solvent	Ethanol	64-17-5	10	10
315 solvent	Furan	110-00-9	10	1
316 solvent	hexamethylphosphoramide (HEMPA)	680-31-9	10	1
317 solvent	Methanol	67-56-1	10	5
318 solvent	Methyl isobutyl ketone	108-10-1	5	5
319 solvent	N,N-dimethylacetamide	127-19-5	10	1
320 solvent	Nitrilotriacetic acid	139-13-9	10	1
321 solvent	N-methyl-2-pyrrolidone	872-50-4	10	5
322 solvent	N-methylformamide	123-39-7	10	1
323 solvent	Toluene	108-88-3	1	1
324 solvent	Ethylbenzene	100-41-4	1	1

Petroleum distillates & related chemicals

325 petroleum distillate (CMR cat 1A/1B)	extracts, petroleum, light naphthenic distillate solvent	64742-03-6		
326 petroleum distillate (CMR cat 1A/1B)	distillate aromatic extract	64742-04-7		
327 petroleum distillate (CMR cat 1A/1B)	extracts, petroleum, light paraffinic distillate solvent	64742-05-8		
328 petroleum distillate (CMR cat 1A/1B)	extracts, petroleum, heavy naphthenic distillate solvent	64742-11-6		
329 petroleum distillate (CMR cat 1A/1B)	distillates, petroleum, chemically neutralized middle	64742-30-9		
330 petroleum distillate (CMR cat 1A/1B)	solvent-dewaxed heavy paraffinic petroleum distillates	64742-65-0		
331 petroleum distillate (CMR cat 1A/1B)	benzin 140 - 300	8002-05-9		
332 petroleum distillate (CMR cat 1A/1B)	naphtha	8030-30-6		
333 petroleum distillate (CMR cat 1A/1B)	pitch	61789-60-4		
334 petroleum distillate (CMR cat 1A/1B)	petroleum naphtha	64741-41-9		
335 petroleum distillate (CMR cat 1A/1B)	hydrotreated light straight run (petroleum)	64742-49-0	5 (each)	5 (each)

Category	Name to list	CAS	Input water waste water (µg/L)	sludge - textiles raw materials - textiles articles - chemicals (mg/kg)
336 petroleum distillate (CMR cat 1A/1B)	distillates (petroleum), hydrotreated (mild) heavy naphthenic (9ci);	64742-52-5		
337 petroleum distillate (CMR cat 1A/1B)	hydrotreated heavy paraffinic petroleum distillates (mineral oil)	64742-54-7		
338 petroleum distillate (CMR cat 1A/1B)	distillates (petroleum), solvent-refined (mild) heavy paraffinic (9ci)	64741-88-4		
339 petroleum distillate (CMR cat 1A/1B)	distillates (petroleum), solvent-refined (mild) light paraffinic (9ci)	64741-89-5		
340 petroleum distillate (CMR cat 1A/1B)	aromatic naphtha, type 1	64742-95-6		
341 petroleum distillate (CMR cat 1A/1B)	aromatic petroleum derivative solvent	68477-31-6		
342 petroleum distillate (CMR cat 1A/1B)	petrolatum	8009-03-8		
343 additive/sealant	Bitumen	64742-93-4		
344 coal distillate (CMR cat 1A/1B)	Coal Tar oil	65996-82-9		

Others

351 -	(2-chloroethyl)(3-hydroxypropyl)ammonium chloride	40722-80-3	10	1
352 -	(4-ethoxyphenyl)(3-(4-fluoro-3-phenoxyphenyl)propyl)dimethylsilane	105024-66-6		
353 -	(BHA) Butylated hydroxyanisole	25013-16-5	5	10
354 -	1-(2-amino-5-chlorophenyl)-2,2,2-trifluoro-1,1-ethanediol, hydrochloride, containing < 0.1 % 4-chloroaniline (EC No 203-401-0)	214353-17-0		
355 -	2-butyryl-3-hydroxy-5-thiocyclohexan-3-yl-cyclohex-2-en-1-one	94723-86-1		
356 -	2-nitroanisole	91-23-6		
357 -	2-nitronaphthalene	581-89-5		
358 -	2-Nitropropane	79-46-9		
359 -	2-nitrotoluene	88-72-2	5 (each)	1 (each)
360 -	4,4'-Methylenbis(N-(1-methylpropyl)benzolamin)	5285-60-9		
361 -	4-Nitrobiphenyl	92-93-3		
362 -	5-Nitroacenaphthene	602-87-9		
363 -	7-methoxy-6-(3-morpholin-4-yl-propoxy)-3H-quinazolin-4-one Containing ≥ 0.5 % formamide (EC No 200-842-0)	199327-61-2		
364 -	AEEA [2-(2-aminoethylamino)ethanol]	111-41-1		
365 -	Aniline	62-53-3	5	5
366 -	Azobenzene	103-33-3	1	1
367 -	Carbon black	1333-86-4	Not Detectable (Best current testing technology using lowest detection/reporting limits always updated and applied)	Not Detectable (Best current testing technology using lowest detection/reporting limits always updated and applied)
368 -	chloro-N,N-dimethylformiminium chloride	3724-43-4		
369 -	Colchicine	64-86-8	1	1
370 -	Diazoaminobenzene	136-35-6		
371 -	Formaldehyde	50-00-0	10	15
372 -	formamide	75-12-7		
373 -	Hydrazine	302-01-2		

Category	Name to list	CAS	Input water waste water (µg/L)	sludge - textiles raw materials - textiles articles - chemicals (mg/kg)
374 -	hydrazobenzene	122-66-7		
375 -	hydroquinone (1,4-Dihydroxybenzene)	123-31-9		
376 -	methoxyacetic acid	625-45-6		
377 -	Methylazoxymethanol acetate	592-62-1		
378 -	Michler's base (N,N,N',N'-tetramethyl-4,4'-methylendianiline)	101-61-1		
379 -	N-(2-Naphthyl)anilin	135-88-6		
380 -	N,N-(dimethylamino)thioacetamide hydrochloride	27366-72-9	5 (each)	5 (each)
381 -	N,N'-Bis-(1-ethyl-3-methylpentyl)-1,4-benzendiamin	139-60-6		
382 -	N,N-di-2-naphthyl-benzen-1,4-diamin (Diafen NN)	93-46-9		
383 -	N-[6,9-dihydro-9-[[2-hydroxy-1-(hydroxymethyl)ethoxy)methyl]-6-oxo-1H-purin-2-yl]acetamide	84245-12-5		
384 -	O-isobutyl-N-ethoxy carbonylthiocarbamate	103122-66-3		
385 -	o-Phenylphenate, sodium	132-27-4		
386 -	o-Phenylphenol	90-43-7	10	10
387 -	Phenolphthalein	77-09-8		
388 -	Phenylhydrazine	100-63-0		
389 -	phenylhydrazine hydrochloride	27140-08-5; 59-88-1		
390 -	phenylhydrazinium sulphate (2:1)	52033-74-6		
	potassium 1-methyl-3-morpholinocarbonyl-4-[3-(1-methyl-3-morpholinocarbonyl-5-oxo-2-pyrazolin-4-ylidene)-1-propenyl]pyrazole-5-olate containing < 0.5 %		5 (each)	5 (each)
391 -	N,N-dimethylformamide (EC No 200-679-5),	183196-57-8		
392 -	Pyridine	110-86-1		
393 -	tetrahydrothiopyran-3-carboxaldehyde	61571-06-0		
394 -	Thioacetamide	62-55-5		
395 -	Thiourea	62-56-6		
396 -	Toluene diisocyanate (1,3-)	26471-62-5	1 (each)	1 (each)
397 -	toluene diisocyanate (2,4-)	584-84-9		
398 -	Trimethyl phosphate	512-56-1	5 (each)	5 (each)
399 alkylating agent	Diethyl sulfate	64-67-5		
400 alkylating agent	Dimethyl sulfate	77-78-1		
401	Benzophenone	119-61-9		
402	benzophenone, 4,4'-bis(dimethylamino)- [Michler's ketone]	90-94-8		
403 biocide	Cycloheximide	66-81-9	1 (each)	1 (each)
404 Biocide / antiseptic (inc. Leather)	Dichlorophene [2,2'-Methylenbis(4-chlorophenol)]	97-23-4		
405 Biocide / antiseptic (inc. Leather)	Metam sodium	137-42-8		
406 Biocide / fragrance	Safrole [5-allyl-1,3-benzodioxole]	94-59-7		
407 -	Bisphenol A	80-05-7	1	1
408	boric acid	10043-35-3; 1303-86-2	5	5
409	Boric acid, disodium salt	12179-04-3; 1303-96-4; 1330-43-4;	5	5

Category	Name to list	CAS	Input water waste water (µg/L)	sludge - textiles raw materials - textiles articles - chemicals (mg/kg)
410	borate, zinc salt	1332-07-6		
411 chlorinated ether	Bis(chloromethyl)ether	542-88-1	5	5
412 chlorofluorophenol	2-chloro-6-fluoro-phenol	2040-90-6		
413 dimethyldithiocarbamates	dimethyldithiocarbamate, Potassium salt	128-03-0	5	5
414 dimethyldithiocarbamates	dimethyldithiocarbamate, Sodium salt	128-04-1		
415 dimethyldithiocarbamates	Disodium ethylenebis(N,N'-dithiocarbamate)	142-59-6		
416 Dimethylhydrazines	1,2-Dimethylhydrazine	540-73-8		
417 Dimethylhydrazines	1,1-Dimethylhydrazine (UDMH)	57-14-7		
418 dinitrobenzenes	dinitrobenzenes	99-65-0		
419 flame retardant	2-ethylhexyl diphenyl phosphate	1241-94-7		
420 fungicide	Carbendazim (N-2-benzimidazolecarbamic acid methyl ester)	10605-21-7	1	1
421 -	Carbon disulfide	75-15-0		
422 -	Ethylene thiourea	96-45-7		
423 -	Hexachlorobutadiene	87-68-3		
424 -	N-methylacetamide	79-16-3		
425 perboric acid compounds	perboric acid, sodium salt	10332-33-9; 10486-00-7; 11138-47-9;	5	10
426 polymer additive	Diazeno-1,2-dicarboxamide [C,C'-azodi(formamide), ADCA]	123-77-3		
427 polymer cross-linker	Triglycidylisocyanurate (TGIC)	2451-62-9	1	1
428 Polymerisation inhibitor	N-(1,4-Dimethylpentyl)-N'-phenyl-benzen-1,4-diamin	3081-01-4		
429 Styrene	Styrene	100-42-5	5	5
430 Surfactant	Diethanolamine	111-42-2	5	5
431 synthetic musk	musk xylene	81-15-2		
432 tert-butyl, benzotriazole-phenols	2-(2H-Benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)fenol	25973-55-1		
433 tert-butyl, benzotriazole-phenols	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)-phenol	3147-75-9	1	5
434 tert-butyl, benzotriazole-phenols	2-(2'-Hydroxy-3,5'-di-tert.butylphenyl)-benzotriazole	3846-71-7		
435 UV stabiliser	3-(4-methylbenzylidene) camphor	36861-47-9		