

Chapter NR 664

APPENDIX IX

GROUNDWATER MONITORING LIST

Common name ¹	CAS RN ²	Chemical abstracts service index name ³
Acenaphthene.....	83-32-9	Acenaphthylene, 1,2-dihydro-.....
Acenaphthylene.....	208-96-8	Acenaphthylene.....
Acetone.....	67-64-1	2-Propanone.....
Acetophenone.....	98-86-2	Ethanone, 1-phenyl-.....
Acetonitrile; Methyl cyanide.....	75-05-8	Acetonitrile.....
2-Acetylaminofluorene; 2-AAF	53-96-3	Acetamide, N-9H-fluoren-2-yl-.....
Acrolein.....	107-02-8	2-Propenal.....
Acrylonitrile.....	107-13-1	2-Propenenitrile.....
Aldrin.....	309-00-2	1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a- hexahydro-c1 α ,4 α , 4a β , 5 α ,8 α ,8a β d-
Allyl chloride.....	107-05-1	1-Propene, 3-chloro-.....
4-Aminobiphenyl.....	92-67-1	[1,1[-Biphenyl]- 4-amine.....
Aniline.....	62-53-3	Benzenamine.....
Anthracene.....	120-12-7	Anthracene.....
Antimony.....	cTotald	Antimony.....
Aramite.....	140-57-8	Sulfurous acid, 2-chloroethyl 2-[4-c1,1-dimethylethylid phenoxy]-1- methylethyl ester
Arsenic.....	cTotald	Arsenic.....
Barium.....	cTotald	Barium.....
Benzene.....	71-43-2	Benzene.....
Benzo[a]anthracene; Benzanthracene	56-55-3	Benz[a]anthracene.....
Benzo[b]fluoranthene.....	205-99-2	Benz[e]acephenanthrylene.....
Benzo[k]fluoranthene.....	207-08-9	Benzo[k]fluoranthene.....
Benzo[ghi]perylene.....	191-24-2	Benzo[ghi]perylene.....
Benzo[a]pyrene.....	50-32-8	Benzo[a]pyrene.....
Benzyl alcohol.....	100-51-6	Benzenemethanol.....
Beryllium.....	cTotald	Beryllium.....
alpha-BHC.....	319-84-6	Cyclohexane, 1,2,3,4,5,6- hexachloro- ,c1 α ,2 α ,3 β ,4 α ,5 β , 6 β d-
beta-BHC.....	319-85-7	Cyclohexane, 1,2,3,4,5,6- hexachloro- ,c1 α ,2 β ,3 α ,4 β ,5 α , 6 β d-
delta-BHC.....	319-86-8	Cyclohexane, 1,2,3,4,5,6- hexachloro- ,c1 α ,2 α ,3 α ,4 β ,5 α , 6 β d-
gamma-BHC; Lindane.....	58-89-9	Cyclohexane, 1,2,3,4,5,6- hexachloro- ,c1 α ,2 α ,3 β ,4 α ,5 α , 6 β d-
Bisc2-chloroethoxydmethane.....	111-91-1	Ethane, 1,1[-[methylenebisoxyl] bis [2- chloro-
Bisc2-chloroethyldether.....	111-44-4	Ethane, 1,1[-oxybis[2-chloro-.....
Bisc2-chloro-1-methylethyl ether; 2,2[- Di- chlorodiisopropyl ether	108-60-1	Propane, 2,2[-oxybis[1-chloro-.....
Bisc2-ethylhexylid phthalate.....	117-81-7	1,2-Benzenedicarboxylic acid, bisc2- ethylhexylidester
Bromodichloromethane.....	75-27-4	Methane, bromodichloro-.....
Bromoform; Tribromomethane	75-25-2	Methane, tribromo-.....
4-Bromophenyl phenyl ether.....	101-55-3	Benzene, 1-bromo-4-phenoxy-.....
Butyl benzyl phthalate; Benzyl butyl phthalate	85-68-7	1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester
Cadmium.....	cTotald	Cadmium.....

Common name ¹	CAS RN ²	Chemical abstracts service index name ³
Carbon disulfide.....	75-15-0	Carbon disulfide.....
Carbon tetrachloride.....	56-23-5	Methane, tetrachloro-.....
Chlordane.....	57-74-9	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a- hexahydro-
p-Chloroaniline.....	106-47-8	Benzenamine, 4-chloro-.....
Chlorobenzene.....	108-90-7	Benzene, chloro-.....
Chlorobenzilate.....	510-15-6	Benzeneacetic acid, 4-chloro- α -c4-chlorophenyl- α -hydroxy-, ethyl ester
p-Chloro-m-cresol.....	59-50-7	Phenol, 4-chloro-3-methyl-.....
Chloroethane; Ethyl chloride.....	75-00-3	Ethane, chloro-.....
Chloroform.....	67-66-3	Methane, trichloro-.....
2-Chloronaphthalene.....	91-58-7	Naphthalene, 2-chloro-.....
2-Chlorophenol.....	95-57-8	Phenol, 2-chloro-.....
4-Chlorophenyl phenyl ether.....	7005-72-3	Benzene, 1-chloro-4-phenoxy-.....
Chloroprene.....	126-99-8	1,3-Butadiene, 2-chloro-.....
Chromium.....	cTotald	Chromium.....
Chrysene.....	218-01-9	Chrysene.....
Cobalt.....	cTotald	Cobalt.....
Copper.....	cTotald	Copper.....
m-Cresol.....	108-39-4	Phenol, 3-methyl-.....
o-Cresol.....	95-48-7	Phenol, 2-methyl-.....
p-Cresol.....	106-44-5	Phenol, 4-methyl-.....
Cyanide.....	57-12-5	Cyanide.....
2,4-D; 2,4-Dichlorophenoxyacetic acid	94-75-7	Acetic acid, c2,4- dichlorophenoxyd-
4,4[-DDD].....	72-54-8	Benzene 1,1[-c2,2-dichloroethylidened bis[4-chloro-
4,4[-DDE].....	72-55-9	Benzene, 1,1[-cdichloroethenylidened bis[4-chloro-
4,4[-DDT].....	50-29-3	Benzene, 1,1[-c2,2,2-trichloroethylidened bis[4-chloro-
Diallate.....	2303-16-4	Carbamothioic acid, bisc1-methylethyl- , S- c2,3-dichloro-2-propenylid ester
Dibenz[a,h]anthracene.....	53-70-3	Dibenz[a,h]anthracene.....
Dibenzofuran.....	132-64-9	Dibenzofuran.....
Dibromochloromethane; Chlorodibromomethane	124-48-1	Methane, dibromochloro-.....
1,2-Dibromo-3-chloropropane; DBCP	96-12-8	Propane, 1,2-dibromo-3-chloro-.....
1,2-Dibromoethane; Ethylene dibromide	106-93-4	Ethane, 1,2-dibromo-.....
Di-n-butyl phthalate.....	84-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester
o-Dichlorobenzene.....	95-50-1	Benzene, 1,2-dichloro-.....
m-Dichlorobenzene.....	541-73-1	Benzene, 1,3-dichloro-.....
p-Dichlorobenzene.....	106-46-7	Benzene, 1,4-dichloro-.....
3,3[-Dichlorobenzidine].....	91-94-1	[1,1[-Biphenyl]- 4,4[- diamine, 3,3[-dichloro-
trans-1,4-Dichloro-2-butene..... and	110-57-6 and	2-Butene, 1,4-dichloro-, cEd-..... and
Dichlorodifluoromethane.....	75-71-8	Methane, dichlorodifluoro-.....
1,1-Dichloroethane.....	75-34-3	Ethane, 1,1-dichloro-.....
1,2-Dichloroethane; Ethylene dichloride	107-06-2	Ethane, 1,2-dichloro-.....
1,1-Dichloroethylene; Vinylidene chloride	75-35-4	Ethene, 1,1-dichloro-.....
trans-1,2-Dichloroethylene.....	156-60-5	Ethene, 1,2-dichloro-, cEd-.....
2,4-Dichlorophenol.....	120-83-2	Phenol, 2,4-dichloro-.....
2,6-Dichlorophenol.....	87-65-0	Phenol, 2,6-dichloro-.....

Common name ¹	CAS RN ²	Chemical abstracts service index name ³
1,2-Dichloropropane	78-87-5	Propane, 1,2-dichloro-.....
cis-1,3-Dichloropropene.....	10061-01-5	1-Propene, 1,3-dichloro-, cZd-.....
trans-1,3-Dichloropropene.....	10061-02-6	1-Propene, 1,3-dichloro-, cEd-.....
Dieldrin	60-57-1	2,7:3,6-Dimethanonaphth [2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3, 6,6a,7,7a- octahydro-, c1α,2β,2α,3β,6β,6α,7β, 7ααd-
Diethyl phthalate.....	84-66-2	1,2-Benzenedicarboxylic acid, diethyl ester
O,O-Diethyl O-2-pyrazinyl phospho- rothioate; Thionazin	297-97-2	Phosphorothioic acid, O,O- diethyl O- pyrazinyl ester
Dimethoate.....	60-51-5	Phosphorodithioic acid, O,O-dimethyl S- [2-cmethylaminod- 2-oxoethyl] ester
p-cDimethylaminod azobenzene	60-11-7	Benzenamine, N,N-dimethyl-4- cphenylazod-
7,12-Dimethylbenz[a] anthracene	57-97-6	Benz[a]anthracene, 7,12- dimethyl-.....
3,3[-Dimethylbenzidine.....	119-93-7	[1,1[-Biphenyl]-4,4[-diamine, 3,3[- dimethyl-
alpha, alpha- Dimethylphenethylamine	122-09-8	Benzenecethanamine, α,α-dimethyl-.....
2,4-Dimethylphenol.....	105-67-9	Phenol, 2,4-dimethyl-.....
Dimethyl phthalate.....	131-11-3	1,2-Benzenedicarboxylic acid, dimethyl ester
m-Dinitrobenzene	99-65-0	Benzene, 1,3-dinitro-.....
4,6-Dinitro-o-cresol.....	534-52-1	Phenol, 2-methyl-4,6-dinitro-.....
2,4-Dinitrophenol.....	51-28-5	Phenol, 2,4-dinitro-.....
2,4-Dinitrotoluene.....	121-14-2	Benzene, 1-methyl-2,4-dinitro-.....
2,6-Dinitrotoluene.....	606-20-2	Benzene, 2-methyl-1,3-dinitro-.....
Dinoseb; DNBP; 2-sec-Butyl- 4,6- dinitrophenol	88-85-7	Phenol, 2-c1-methylpropyl-4,6- dinitro-
Di-n-octyl phthalate	117-84-0	1,2-Benzenedicarboxylic acid, dioctyl ester
1,4-Dioxane.....	123-91-1	1,4-Dioxane.....
Diphenylamine.....	122-39-4	Benzenamine, N-phenyl-.....
Disulfoton.....	298-04-4	Phosphorodithioic acid, O,O-diethyl S-[2- cethylthiodethyl]ester
Endosulfan I.....	959-98-8	6,9-Methano-2,4,3-benzodi- oxathiepin,6,7,8,9,10,10-hexachloro- 1,5,5a,6,9,9a-hexahydro-, 3-ox- ide,c3α,5aβ,6α,9 α,9aβd-
Endosulfan II.....	33213-65-9	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a- hexahydro-, 3-oxide, c3α,5aα,6β,9β, 9ααd-
Endosulfan sulfate.....	1031-07-8	6,9-Methano-2,4,3-benzodi- oxathiepin,6,7,8,9,10,10-hexachloro- 1,5,5a,6,9,9a-hexahydro-, 3,3-dioxide
Endrin.....	72-20-8	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a, 7,7a- octahydro-, c1α,2β, 2aβ,3α,6α,6aβ,7β, 7ααd-
Endrin aldehyde	7421-93-4	1,2,4-Methenocyclopenta[cd] pentalene- 5- carboxaldehyde,2,2a,3,3,4,7-hex- achlorodecahydro-, c1α,2β,2aβ,4β,4aβ,5β,6aβ, 6bβ,7R*d-
Ethylbenzene.....	100-41-4	Benzene, ethyl-.....
Ethyl methacrylate.....	97-63-2	2-Propenoic acid, 2-methyl-, ethyl ester
Ethyl methanesulfonate.....	62-50-0	Methanesulfonic acid, ethyl ester

Common name ¹	CAS RN ²	Chemical abstracts service index name ³
Famphur	52-85-7	Phosphorothioic acid, O-[4-[cdimethylaminodisulfonyl] phenyl]-O,O-dimethyl ester
Fluoranthene	206-44-0	Fluoranthene.....
Fluorene	86-73-7	9H-Fluorene
Heptachlor.....	76-44-8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro- 3a,4,7,7a-tetrahydro-
Heptachlor epoxide	1024-57-3	2,5-Methano-2H-indeno[1,2-b] oxirene, 2,3,4,5,6,7,7-heptachloro- 1a,1b,5,5a,6,6a,-hexahydro- ,c1α,1bβ,2α,5α, 5aβ,6β,6aαd
Hexachlorobenzene.....	118-74-1	Benzene, hexachloro-
Hexachlorobutadiene.....	87-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Hexachlorocyclopentadiene.....	77-47-4	1,3-Cyclopentadiene,1,2,3,4,5,5-hexachloro-
Hexachloroethane.....	67-72-1	Ethane, hexachloro-
Hexachlorophene.....	70-30-4	Phenol, 2,2[-methylenebis[3,4,6-trichloro-
Hexachloropropene	1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-
2-Hexanone	591-78-6	2-Hexanone
Indenoc1,2,3-cddpyrene.....	193-39-5	Indeno[1,2,3-cd]pyrene.....
Isobutyl alcohol.....	78-83-1	1-Propanol, 2-methyl-.....
Isodrin.....	465-73-6	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a hexahydro-c1α, 4α, 4aβ,5β, 8β,8aβd-
Isophorone.....	78-59-1	2-Cyclohexen-1-one, 3,5,5-trimethyl-
Isosafrole.....	120-58-1	1,3-Benzodioxole, 5-c1-propenyld-
Kepone	143-50-0	1,3,4-Metheno-2H-cyclobuta-[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-
Lead.....	cTotald	Lead.....
Mercury.....	cTotald	Mercury.....
Methacrylonitrile.....	126-98-7	2-Propenenitrile, 2-methyl-
Methapyrilene	91-80-5	1,2,Ethanediamine, N,N-dimethyl-N[-2-pyridinyl- N[-c2-thienylmethyl]-
Methoxychlor	72-43-5	Benzene, 1,1[-c2,2,2,trichloroethylidened-bis[4-methoxy-
Methyl bromide; Bromomethane	74-83-9	Methane, bromo-.....
Methyl chloride; Chloromethane	74-87-3	Methane, chloro-
3-Methylcholanthrene	56-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-
Methylene bromide; Dibromomethane	74-95-3	Methane, dibromo-.....
Methylene chloride; Dichloromethane	75-09-2	Methane, dichloro-.....
Methyl ethyl ketone; MEK.....	78-93-3	2-Butanone.....
Methyl iodide; Iodomethane.....	74-88-4	Methane, iodo-.....
Methyl methacrylate.....	80-62-6	2-Propenoic acid, 2-methyl-, methyl ester
Methyl methanesulfonate.....	66-27-3	Methanesulfonic acid, methyl ester
2-Methylnaphthalene.....	91-57-6	Naphthalene, 2-methyl-.....
Methyl parathion; Parathion methyl	298-00-0	Phosphorothioic acid, O,O-dimethyl O-c4-nitrophenyld ester
4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1	2-Pentanone, 4-methyl-.....
Naphthalene	91-20-3	Naphthalene.....
1,4-Naphthoquinone.....	130-15-4	1,4-Naphthalenedione
1-Naphthylamine	134-32-7	1-Naphthalenamine
2-Naphthylamine.....	91-59-8	2-Naphthalenamine
Nickel.....	cTotald	Nickel.....

Common name ¹	CAS RN ²	Chemical abstracts service index name ³
o-Nitroaniline.....	88-74-4	Benzenamine, 2-nitro.....
m-Nitroaniline.....	99-09-2	Benzenamine, 3-nitro.....
p-Nitroaniline.....	100-01-6	Benzenamine, 4-nitro.....
Nitrobenzene.....	98-95-3	Benzene, nitro.....
o-Nitrophenol.....	88-75-5	Phenol, 2-nitro.....
p-Nitrophenol.....	100-02-7	Phenol, 4-nitro.....
4-Nitroquinoline 1-oxide.....	56-57-5	Quinoline, 4-nitro-, 1-oxide.....
N-Nitrosodi-n-butylamine.....	924-16-3	1-Butanamine, N-butyl-N-nitroso.....
N-Nitrosodiethylamine.....	55-18-5	Ethanamine, N-ethyl-N-nitroso.....
N-Nitrosodimethylamine.....	62-75-9	Methanamine, N-methyl-N-nitroso.....
N-Nitrosodiphenylamine.....	86-30-6	Benzenamine, N-nitroso-N-phenyl.....
N-Nitrosodipropylamine; Di-n-propylnitrosamine	621-64-7	1-Propanamine, N-nitroso-N-propyl.....
N-Nitrosomethylethylamine.....	10595-95-6	Ethanamine, N-methyl-N-nitroso.....
N-Nitrosomorpholine.....	59-89-2	Morpholine, 4-nitroso.....
N-Nitrosopiperidine.....	100-75-4	Piperidine, 1-nitroso.....
N-Nitrosopyrrolidine.....	930-55-2	Pyrrolidine, 1-nitroso.....
5-Nitro-o-toluidine.....	99-55-8	Benzenamine, 2-methyl-5-nitro.....
Parathion.....	56-38-2	Phosphorothioic acid, O,O-diethyl-O-c4-nitrophenyl ester
Polychlorinated biphenyls; PCBs	See Note 4	1,1[-Biphenyl, chloro derivatives.....
Polychlorinated dibenzo-p-dioxins; PCDDs	See Note 5	Dibenzo[b,e][1,4]dioxin, chloro derivatives
Polychlorinated dibenzofurans; PCDFs	See Note 6	Dibenzofuran, chloro derivatives.....
Pentachlorobenzene.....	608-93-5	Benzene, pentachloro.....
Pentachloroethane.....	76-01-7	Ethane, pentachloro.....
Pentachloronitrobenzene.....	82-68-8	Benzene, pentachloronitro.....
Pentachlorophenol.....	87-86-5	Phenol, pentachloro.....
Phenacetin.....	62-44-2	Acetamide, N-c4-ethoxyphenyl.....
Phenanthrene.....	85-01-8	Phenanthrene.....
Phenol.....	108-95-2	Phenol.....
p-Phenylenediamine.....	106-50-3	1,4-Benzenediamine.....
Phorate.....	298-02-2	Phosphorodithioic acid, O,O-diethyl S-[cethylthiodmethyl] ester
2-Picoline.....	109-06-8	Pyridine, 2-methyl.....
Pronamide.....	23950-58-5	Benzamide, 3,5-dichloro-N-c1,1-dimethyl-2-propynyl-
Propionitrile; Ethyl cyanide.....	107-12-0	Propanenitrile.....
Pyrene.....	129-00-0	Pyrene.....
Pyridine.....	110-86-1	Pyridine.....
Safrole.....	94-59-7	1,3-Benzodioxole, 5-c2-propenyld.....
Selenium.....	cTotald	Selenium.....
Silver.....	cTotald	Silver.....
Silvex; 2,4,5-TP.....	93-72-1	Propanoic acid, 2-c2,4,5-trichlorophenoxyd-
Styrene.....	100-42-5	Benzene, ethenyl.....
Sulfide.....	18496-25-8	Sulfide.....
2,4,5-T; 2,4,5-Trichlorophenoxy-acetic acid	93-76-5	Acetic acid, c2,4,5-trichlorophenoxyd-
2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	Dibenzo[b,e][1,4]dioxin, 2,3,7,8-tetrachloro-
1,2,4,5-Tetrachlorobenzene.....	95-94-3	Benzene, 1,2,4,5-tetrachloro.....
1,1,1,2-Tetrachloroethane.....	630-20-6	Ethane, 1,1,1,2-tetrachloro.....
1,1,2,2-Tetrachloroethane.....	79-34-5	Ethane, 1,1,2,2-tetrachloro.....
Tetrachloroethylene; Perchloroethylene; Tetrachloroethene	127-18-4	Ethene, tetrachloro.....

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2,3,4,6-Tetrachlorophenol.....	58-90-2	Phenol, 2,3,4,6-tetrachloro-.....
Tetraethyl dithiopyrophosphate; Sulfotepp	3689-24-5	Thiodiphosphoric acid c[cHO ₂ PcSd] ₂ Od, tetraethyl ester
Thallium.....	cTotald	Thallium.....
Tin.....	cTotald	Tin
Toluene.....	108-88-3	Benzene, methyl-.....
o-Toluidine.....	95-53-4	Benzenamine, 2-methyl-.....
Toxaphene.....	8001-35-2	Toxaphene.....
1,2,4-Trichlorobenzene.....	120-82-1	Benzene, 1,2,4-trichloro-.....
1,1,1-Trichloroethane; Methylchloroform	71-55-6	Ethane, 1,1,1-trichloro-.....
1,1,2-Trichloroethane.....	79-00-5	Ethane, 1,1,2-trichloro-.....
Trichloroethylene; Trichloroethene	79-01-6	Ethene, trichloro-.....
Trichlorofluoromethane.....	75-69-4	Methane, trichlorofluoro-.....
2,4,5-Trichlorophenol.....	95-95-4	Phenol, 2,4,5-trichloro-.....
2,4,6-Trichlorophenol.....	88-06-2	Phenol, 2,4,6-trichloro-.....
1,2,3-Trichloropropane.....	96-18-4	Propane, 1,2,3-trichloro-.....
O,O,O-Triethyl phosphorothioate	126-68-1	Phosphorothioic acid, O,O,O- triethyl ester
sym-Trinitrobenzene.....	99-35-4	Benzene, 1,3,5-trinitro-.....
Vanadium.....	cTotald	Vanadium.....
Vinyl acetate.....	108-05-4	Acetic acid, ethenyl ester.....
Vinyl chloride.....	75-01-4	Ethene, chloro-.....
Xylene ctotald.....	1330-20-7	Benzene, dimethyl-.....
Zinc.....	cTotald	Zinc.....

¹ Common names are those widely used in government regulations, scientific publications and commerce; synonyms exist for many chemicals.

² Chemical Abstracts Service registry number. Where ZZTotal[] is entered, all species in the groundwater that contain this element are included.

³ CAS index names are those used in the 9th Cumulative Index.

⁴ Polychlorinated biphenyls cCAS RN 1336-36-3d. This category contains congener chemicals, including constituents of Aroclor-1016 cCAS RN 12674-11-2d, Aroclor-1221 cCAS RN 11104-28-2d, Aroclor-1232 cCAS RN 11141-16-5d, Aroclor-1242 cCAS RN 53469-21-9d, Aroclor-1248 cCAS RN 12672-29-6d, Aroclor-1254 cCAS RN 11097-69-1d and Aroclor-1260 cCAS RN 11096-82-5d.

⁵ This category contains congener chemicals, including tetrachlorodibenzo-p-dioxins csee also 2,3,7,8-TCDDd, pentachlorodibenzo-p-dioxins and hexachlorodibenzo-p-dioxins.

⁶ This category contains congener chemicals, including tetrachlorodibenzofurans, pentachlorodibenzofurans and hexachlorodibenzofurans.