

Statement of Information Disclosure for the Requirement of SVHC (Substances of Very High Concern) under EU REACH (Registration, Evaluation, Authorization and Restriction of Chemicals)

Alpha & Omega Semiconductor (Hong Kong) Limited (AOS) hereby declares that these substances of Very High Concern (SVHC candidate as below listed) are not contained in AOS's product based upon the information collected from AOS's supply chain.

Note:

1. 'not contained' means equal or less than the defined threshold in the material. The defined threshold is 0.1 % (1,000 ppm) per weight, unless otherwise specified.
2. However, tube-style rails that product is stored and shipped in may contain phthalates in the PVC tube. The following package types are affected such as TO220, TO220F, TO251, TO251A, TO262, TO262F, TO247, PDIP etc.

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Date: 2018-01-16

Declaration
Providing for limitations below, Alpha & Omega Semiconductor certifies that the information provided in this document is correct as of the date indicated on this page. The warranty provided herein shall be null and void if the information is revised in any format by any party without AOS's prior written authorization. In the event of any issues arising from information in this document, the warranty section of Alpha & Omega's standard terms and conditions of sale shall apply, unless alternate contracts have been agreed upon in writing by both parties.

Candidate list of substances of Very High Concern for authorization (last updated: 15 Jan, 2018)

#	Substance Name	EC Number	CAS #	Date of Inclusion
1	Benz[a]anthracene	200-280-6	56-55-3 1718-53-2	2018/1/15
2	Cadmium carbonate	208-168-9	513-78-0	2018/1/15
3	Cadmium hydroxide	244-168-5	21041-95-2	2018/1/15
4	Cadmium nitrate	233-710-6	10022-68-1 10325-94-7	2018/1/15
5	Chrysene	205-923-4	218-01-9 1719-03-5	2018/1/15
6	Dodecachloropentacyclo[12.2.1.16,9.02,13.0 5,10]octadeca-7,15-diene ("Dechlorane Plus" TM) covering any of its individual anti- and syn-isomers or any combination thereof	-	-	2018/1/15
7	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear (4-HPb)	-	-	2018/1/15
8	Perfluorohexane-1-sulphonic acid and its salts PFHxS	-	-	2017/7/7
9	4,4'-isopropylidenediphenol	201-245-8	80-05-7	2017/1/12
10	4-Heptylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	-	2017/1/12
11	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts - Nonadecafluorodecanoic acid - Ammonium nonadecafluorodecanoate - Decanoic acid, nonadecafluoro-, sodium salt	206-400-3 221-470-5 -	335-76-2 3108-42-7 3830-45-3	2017/1/12
12	p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	2017/1/12
13	Benzo[def]chrysene	200-028-5	50-32-8	2016/6/20

#	Substance Name	EC Number	CAS #	Date of Inclusion
14	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with \geq 0.3% of dihexyl phthalate (EC No. 201-559-5)	271-094-0 272-013-1	68515-51-5 68648-93-1	2015/6/15
15	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	-	2015/6/15
16	Nitrobenzene	202-716-0	98-95-3	2015/12/17
17	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	2015/12/17
18	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	2015/12/17
19	1,3-propanesultone	214-317-9	1120-71-4	2015/12/17
20	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4	2015/12/17
21	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	2014/12/17
22	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-s-tannatetradecanoate (DOTE)	239-622-4	15571-58-1	2014/12/17
23	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-s-tannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannate tridecanoate (reaction mass of DOTE and MOTE)	-	-	2014/12/17
24	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	2014/12/17
25	Cadmium fluoride	232-222-0	7790-79-6	2014/12/17
26	Cadmium sulphate	233-331-6	10124-36-4,31119-53-6	2014/12/17
27	Cadmium chloride	233-296-7	10108-64-2	2014/6/16
28	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	2014/6/16

#	Substance Name	EC Number	CAS #	Date of Inclusion
29	Sodium peroxometaborate	231-556-4	7632-04-4	2014/6/16
30	Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-	2014/6/16
31	Cadmium sulphide	215-147-8	1306-23-6	2013/12/16
32	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	217-710-3	1937-37-7	2013/12/16
33	Diethyl phthalate	201-559-5	84-75-3	2013/12/16
34	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7	2013/12/16
35	Triethyl phosphate	246-677-8	25155-23-1	2013/12/16
36	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	2013/12/16
37	Lead di(acetate)	206-104-4	301-04-2	2013/12/16
38	Cadmium	231-152-8	7440-43-9	2013/6/20
39	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	2013/6/20
40	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	2013/6/20
41	Dipentyl phthalate (DPP)	205-017-9	131-18-0	2013/6/20
42	4-Nonylphenol, branched and linear, ethoxylated [<i>substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof</i>]	-	-	2013/6/20
43	Cadmium oxide	215-146-2	1306-19-0	2013/6/20
44	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [<i>The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry</i>]	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	2012/12/19

#	Substance Name	EC Number	CAS #	Date of Inclusion
45	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	2012/12/19
46	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]</i>	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	2012/12/19
47	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	2012/12/19
48	Henicosaf fluoroundecanoic acid	218-165-4	2058-94-8	2012/12/19
49	4-Aminoazobenzene	200-453-6	60-09-3	2012/12/19
50	Silicic acid, lead salt	234-363-3	11120-22-2	2012/12/19
51	Lead titanium zirconium oxide	235-727-4	12626-81-2	2012/12/19
52	Lead monoxide (lead oxide)	215-267-0	1317-36-8	2012/12/19
53	o-Toluidine	202-429-0	95-53-4	2012/12/19
54	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	2012/12/19
55	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	2012/12/19
56	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	2012/12/19
57	Lead dinitrate	233-245-9	10099-74-8	2012/12/19
58	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	272-271-5	68784-75-8	2012/12/19
59	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	2012/12/19
60	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	2012/12/19
61	Diethyl sulphate	200-589-6	64-67-5	2012/12/19
62	Dimethyl sulphate	201-058-1	77-78-1	2012/12/19
63	N,N-dimethylformamide	200-679-5	68-12-2	2012/12/19
64	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	-	2012/12/19
65	4-Nonylphenol, branched and linear <i>[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]</i>	-	-	2012/12/19
66	Furan	203-727-3	110-00-9	2012/12/19
67	Lead oxide sulfate	234-853-7	12036-76-9	2012/12/19

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68	Lead titanium trioxide	235-038-9	12060-00-3	2012/12/19
69	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5	2012/12/19
70	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	2012/12/19
71	1,2-Diethoxyethane	211-076-1	629-14-1	2012/12/19
72	N-methylacetamide	201-182-6	79-16-3	2012/12/19
73	Tetralead trioxide sulphate	235-380-9	12202-17-4	2012/12/19
74	Acetic acid, lead salt, basic	257-175-3	51404-69-4	2012/12/19
75	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	2012/12/19
76	Tetraethyllead	201-075-4	78-00-2	2012/12/19
77	N-pentyl-isopentylphthalate	-	776297-69-9	2012/12/19
78	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	2012/12/19
79	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	2012/12/19
80	Tricosafuorododecanoic acid	206-203-2	307-55-1	2012/12/19
81	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	2012/12/19
82	Dioxobis(stearato)trilead	235-702-8	12578-12-0	2012/12/19
83	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	2012/12/19
84	Methoxyacetic acid	210-894-6	625-45-6	2012/12/19
85	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	2012/12/19
86	Trilead dioxide phosphonate	235-252-2	12141-20-7	2012/12/19
87	o-aminoazotoluene	202-591-2	97-56-3	2012/12/19
88	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	2012/12/19
89	Diisopentylphthalate	210-088-4	605-50-5	2012/12/19
90	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	2012/12/19
91	Biphenyl-4-ylamine	202-177-1	92-67-1	2012/12/19
92	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	2012/12/19
93	Orange lead (lead tetroxide)	215-235-6	1314-41-6	2012/12/19
94	4,4'-oxydianiline and its salts	202-977-0	101-80-4	2012/12/19
95	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	2012/12/19
96	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	2012/12/19
97	Lead cyanamidate	244-073-9	20837-86-9	2012/12/19
98	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	229-851-8	6786-83-0	2012/6/18

#	Substance Name	EC Number	CAS #	Date of Inclusion
99	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H, 3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	2012/6/18
100	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	2012/6/18
101	Diboron trioxide	215-125-8	1303-86-2	2012/6/18
102	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	2012/6/18
103	Formamide	200-842-0	75-12-7	2012/6/18
104	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	209-218-2	561-41-1	2012/6/18
105	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	2012/6/18
106	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	208-953-6	548-62-9	2012/6/18
107	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	2012/6/18
108	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	219-943-6	2580-56-5	2012/6/18
109	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	2012/6/18
110	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	2012/6/18
111	Phenolphthalein	201-004-7	77-09-8	2011/12/19
112	N,N-dimethylacetamide	204-826-4	127-19-5	2011/12/19
113	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	2011/12/19
114	Lead diazide, Lead azide	236-542-1	13424-46-9	2011/12/19
115	Lead dipicrate	229-335-2	6477-64-1	2011/12/19
116	1,2-dichloroethane	203-458-1	107-06-2	2011/12/19
117	Calcium arsenate	231-904-5	7778-44-1	2011/12/19
118	Dichromium tris(chromate)	246-356-2	24613-89-6	2011/12/19

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119	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	2011/12/19
120	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	2011/12/19
121	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	-	-	2011/12/19
122	Arsenic acid	231-901-9	7778-39-4	2011/12/19
123	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	2011/12/19
124	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	2011/12/19
125	Lead styphnate	239-290-0	15245-44-0	2011/12/19
126	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	2011/12/19
127	Trilead diarsenate	222-979-5	3687-31-8	2011/12/19
128	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less	-	-	2011/12/19

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	micrometres (μm) c alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight			
129	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	2011/12/19
130	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	2011/12/19
131	Cobalt dichloride	231-589-4	7646-79-9	2011/06/20 2008/10/28
132	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	2011/6/20
133	Strontium chromate	232-142-6	7789-06-2	2011/6/20
134	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	2011/6/20
135	1-Methyl-2-pyrrolidone	212-828-1	872-50-4	2011/6/20
136	1,2,3-Trichloropropane	202-486-1	96-18-4	2011/6/20
137	2-Ethoxyethyl acetate	203-839-2	111-15-9	2011/6/20
138	Hydrazine	206-114-9	302-01-2, 7803-57-8	2011/6/20
139	Cobalt(II) diacetate	200-755-8	71-48-7	2010/12/15
140	2-Ethoxyethanol	203-804-1	110-80-5	2010/12/15
141	Cobalt(II) sulphate	233-334-2	10124-43-3	2010/12/15
142	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	231-801-5 236-881-5	7738-94-5, 13530-68-2	2010/12/15
143	2-Methoxyethanol	203-713-7	109-86-4	2010/12/15
144	Chromium trioxide	215-607-8	1333-82-0	2010/12/15
145	Cobalt(II) carbonate	208-169-4	513-79-1	2010/12/15
146	Cobalt(II) dinitrate	233-402-1	10141-05-6	2010/12/15
147	Trichloroethylene	201-167-4	79-01-6	2010/6/18
148	Potassium dichromate	231-906-6	7778-50-9	2010/6/18

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149	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	2010/6/18
150	Boric acid	233-139-2 234-343-4	10043-35-3, 11113-50-1	2010/6/18
151	Ammonium dichromate	232-143-1	7789-09-5	2010/6/18
152	Sodium chromate	231-889-5	7775-11-3	2010/6/18
153	Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	2010/6/18
154	Potassium chromate	232-140-5	7789-00-6	2010/6/18
155	Acrylamide	201-173-7	79-06-1	2010/3/30
156	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	2010/1/13
157	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	2010/1/13
158	2,4-Dinitrotoluene	204-450-0	121-14-2	2010/1/13
159	Anthracene oil	292-602-7	90640-80-5	2010/1/13
160	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	2010/1/13
161	Anthracene oil, anthracene-low	292-604-8	90640-82-7	2010/1/13
162	Diisobutyl phthalate	201-553-2	84-69-5	2010/1/13
163	Tris(2-chloroethyl)phosphate (T)	204-118-5	115-96-8	2010/1/13
164	Lead chromate	231-846-0	7758-97-6	2010/1/13
165	Anthracene oil, anthracene paste	292-603-2	90640-81-6	2010/1/13
166	Pitch, coal tar, high temp.	266-028-2	65996-93-2	2010/1/13
167	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	2010/1/13
168	Lead hydrogen arsenate	232-064-2	7784-40-9	2008/10/28
169	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	2008/10/28
170	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	2008/10/28
171	Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	2008/10/28
172	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	2008/10/28
173	Diarsenic trioxide	215-481-4	1327-53-3	2008/10/28
174	Triethyl arsenate	427-700-2	15606-95-8	2008/10/28
175	Diarsenic pentaoxide	215-116-9	1303-28-2	2008/10/28
176	Sodium dichromate	234-190-3	7789-12-0 10588-01-9	2008/10/28
177	Dibutyl phthalate (DBP)	201-557-4	84-74-2	2008/10/28
178	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	2008/10/28
179	Alkanes, C10-13, chloro (Short Chain	287-476-5	85535-84-8	2008/10/28

#	Substance Name	EC Number	CAS #	Date of Inclusion
	Chlorinated Paraffins)			
180	Anthracene	204-371-1	120-12-7	2008/10/28
181	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 221-695-9	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	2008/10/28