



## RoHS 3/REACH Certificate of Compliance

Declaration in regards of RoHS-Directive 2011/65/EU, 2015/863/EU and REACH Regulation 1907/2006

We herewith certify that to the best of our knowledge all our products and all packaging material is manufactured in accordance with the RoHS-Directive 2011/65/EU, 2015/863/EU and REACH Regulation 1907/2006 and the PFOS-Directive 2006/122/ EU. If any of these materials are present, it can only be in traces and well below the limits given with this standard.

Lead (0, 1 %)

Mercury (0, 1 %)

Cadmium (0,01 %)

Hexavalent chromium (0, 1 %)

Polybrominated biphenyls (PBB) (0, 1 %)

Polybrominated diphenyl ethers (PBDE) (0, 1 %)

Bis(2-ethylhexyl) phthalate (DEHP) (0,1 <sup>0</sup>/0)

Butyl benzyl phthalate (BBP) (0, 1 %)

Dibutyl phthalate (DBP) (0,1 <sup>0</sup>/0)

Diisobutyl phthalate (DIBP) (0,1

219 SVHC materials according to the REACH candidate list dd. 07/14/2021

Some components of our products may contain lead-containing alloys (lead content > 0.1% w/w) where the following substance identified as a SVHC occurs in concentrations greater than 0.1% (w/w).

Irrespective of the REACH regulation, per the RoHS – 2011/65/EU and 2015/863/EU directive, exception 6c, lead is permitted in copper alloys up to a mass content of 4%. Our products meet these requirements.

Regarding the REACH regulation, we can confirm, that On-Shore Technology is a Downstream user solely. For all our products, we only use substances which are from well-known manufacturers, common in the market and in accordance with this regulation (Annex XVII). We will verify the registration of all these substances on schedule and get them registered together with the manufacturer if needed.

ANTHONY J. THOMAS, QC/MFG DIRECTOR

A handwritten signature in black ink, appearing to read 'AJT', is written over a faint, illegible printed name.

7/14/2021

# REACH SVHC List

Candidate List 219Substances

No.	SUBSTANCE NAME	CAS NUMBER	EC NUMBER
1	蒽 Anthracene	120-12-7	204-371-1
2	4,4'-二氨基二苯甲烷 4,4'-Diaminodiphenylmethane	101-77-9	202-974-4
3	鄰苯二甲酸二丁酯 Dibutyl phthalate	84-74-2	201-557-4
4	氯化鈷 Cobalt dichloride	7646-79-9	231-589-4
5	五氧化砷 Diarsenic pentaoxide	1303-28-2	215-116-9
6	三氧化二砷 Diarsenic trioxide	1327-53-3	215-481-4
7	重鉻酸鈉 Sodium dichromate	7789-12-0	
8	二甲苯麝香 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
9	鄰苯二甲酸二(2-乙基己)酯 Bis(2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0
10	六溴環十二烷 Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	247-148-4 221-695-9
11	C10-13 氯代烴(短鏈氯化蠟) Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5
12	三丁基氧化錫 Bis(tributyltin)oxide	56-35-9	200-268-0
13	酸式砷酸鉛 Lead hydrogen arsenate	7784-40-9	232-064-2
14	鄰苯二甲酸丁苄酯 Benzyl butyl phthalate	85-68-7	201-622-7
15	三乙基砷酸酯 Triethyl arsenate	15606-95-8	427-700-2
16	2,4-二硝基甲苯 2,4-Dinitrotoluene	121-14-2	204-450-0
17	蒽油 Anthracene oil	90640-80-5	292-602-7
18	蒽油,蒽糊,輕油 Anthracene oil, anthracene paste, distr. Lights	91995-17-4	295-278-5
19	蒽油,蒽糊,蒽醌分離液 Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9
20	蒽油,含蒽量少 Anthracene oil, anthracene-low	90640-82-7	292-604-8
21	蒽油,蒽糊 Anthracene oil, anthracene paste	90640-81-6	292-603-2
22	二異丁基鄰苯二甲酯 Diisobutyl phthalate	84-69-5	201-553-2
23	鉻酸鉛 Lead chromate	7758-97-6	231-846-0
24	紅色鉻酸鉛硫酸鹽 (C.I.紅色 104) Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	235-759-9
25	黃色硫化鉻酸鉛 (C.I.黃色 34) Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7
26	丙烯醯胺 Acrylamide	1979/6/1	201-173-7
27	三2-(氯乙基)磷酸酯 Tris(2-chloroethyl)phosphate	115-96-8	204-118-5
28	煤瀝青,高溫 (Coal tar pitch, high temperature)	65996-93-2	266-028-2
29	三氯乙烯 Trichloroethylene	79-01-6	201-167-4
30	硼酸 Boric acid	10043-35-3 / 11113-50-1	233-139-2 / 234-343-4
31	無水四硼酸二鈉 Disodium tetraborate, anhydrous	12179-04-3	215-540-4
32	水合硼酸鈉 Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
33	鉻酸鈉 Sodium chromate	7775-11-3	231-889-5

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No.	SUBSTANCE NAME	CAS NUMBER	EC NUMBER
34	鉻酸鉀 Potassium chromate	7789-00-6	232-140-5
35	重鉻酸銨 Ammonium dichromate	7789-09-5	232-143-1
36	重鉻酸鉀 Potassium dichromate	7778-50-9	231-906-6
37	硫酸鈷(II) Cobalt(II) Sulphate	10124-43-3	233-334-2
38	硝酸鈷(II) Cobalt(II) dinitrate	10141-05-6	233-402-1
39	碳酸鈷(II) Cobalt(II) carbonate	513-79-1	208-169-4
40	醋酸鈷(II) Cobalt(II) diacetate	71-48-7	200-755-8
41	2-甲氧基乙醇 2-Methoxyethanol	109-86-4	203-713-7
42	2-乙氧基乙醇 2-Ethoxyethanol	110-80-5	203-804-1
43	三氧化鉻 Chromium trioxide	1333-82-0	215-607-8
44	鉻酸/重鉻酸/鉻酸和重鉻酸的低聚物 Acids generated from chromium trioxide and their loigomers : ●Chromic acid ●Dichromic acid●Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2 --	231-805-5 236-881-5 --
45	乙二醇乙醚醋酸酯 2-ethoxyethyl acetate	111-15-9	203-839-2
46	鉻酸銣strontium chromate	7789-6-2	232-142-6
47	1,2-苯二酸-二(C7- 11 支鏈與直鏈)烷基(醇)酯 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6
48	聯氨 Hydrazine	7803-57-8 302-01-2	206-114-9
49	1-甲基-2-吡咯烷酮1-methyl-2-pyrrolidone	872-50-4	212-828-1
50	1,2,3-三氯丙烷1,2,3-trichloropropane	96-18-4	202-486-1
51	1,2-苯二酸-二(C6-8支鏈)烷基酯(富 C7) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1
52	鉻酸鉻 Dichromium tris(chromate)	24613-89-6	246-356-2
53	氫氧化鉻酸鉀Potassium hydroxyoctaoxodizincatedi-chromate	11103-86-9	234-329-8
54	八氫氧化五鉻酸鉀 Pentazinc chromate octahydroxide	49663-84-5	256-418-0
55	矽酸鋁, 耐火陶瓷纖維 Aluminosilicate Refractory Ceramic Fibres (RCF)	-	650-017-00-8*
56	氧化鋯矽酸,耐火陶瓷纖維 Zirconia Aluminosilicate RefractoryCeramic Fibres (Zr-RCF)	-	650-017-00-8
57	甲醛和苯胺聚合物 Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1
58	鄰苯二甲酸二甲氧基酯 Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
59	鄰甲氧基苯胺 2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1
60	對特辛基苯酚 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2
61	1,2-二氯乙烷 1,2-Dichloroethane	107-06-2	203-458-1
62	二甘醇二甲醚 Bis(2-methoxyethyl) ether	111-96-6	203-924-4
63	砷酸 Arsenic acid	7778-39-4	231-901-9
64	砷酸鈣 Calcium arsenate	7778-44-1	231-904-5
65	砷酸鉛 Trilead diarsenate	3687-31-8	222-979-5
66	N,N-二甲基乙醯胺 N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4
67	2,2'-4,4'-二氨基-二氯二苯甲烷 2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9

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No.	SUBSTANCE NAME	CAS NUMBER	EC NUMBER
68	酚酞 Phenolphthalein	1977/9/8	201-004-7
69	疊氮化鉛 Lead azide Lead diazide	13424-46-9	236-542-1
70	收斂酸鉛 Lead styphnate	15245-44-0	239-290-0
71	苦味酸鉛 Lead dipicrate	6477-64-1	229-335-2
72	三甘醇二甲醚 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3
73	乙二醇二甲醚 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
74	三氧化二硼 Diboron trioxide	1303-86-2	215-125-8
75	甲醯胺 Formamide	27735	200-842-0
76	甲基磺酸鉛 Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5
77	異氰尿酸三縮水甘油酯 TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3
78	異氰脲酸B-三縮水甘油酯 β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0
79	米氏酮 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5
80	4,4'-(對二甲氨基)二苯基甲烷 N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2
81	結晶紫；甲基紫；龍膽紫；鹼性紫3 [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6
82	鹼性藍26 [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6
83	溶劑藍4 α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8
84	A,A-二[(二甲氨基)苯基]-4-氨基苯甲醇 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2
85	十溴聯苯醚 Bis(pentabromophenyl) ether(Decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9
86	全氟十三酸 Pentacosafuorotridecanoic acid	72629-94-8	276-745-2
87	全氟十二烷酸 Tricosafuorododecanoic acid	307-55-1	206-203-2
88	全氟十一烷酸 Henicosafuoroundecanoic acid	2058-94-8	218-165-4
89	全氟代十四酸 Heptacosafuorotetradecanoic acid	376-06-7	206-803-4
90	偶氮二甲醯胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8
91	六氫鄰苯二甲酸酐 Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9
92	甲基六氫苯酐 Hexahydromethylphthalic anhydride, 4-甲基六氫苯酐 Hexahydro-4-methylphthalic anhydride, 甲基六氫化鄰苯二甲酸酐 Hexahydro-1-methylphthalic anhydride, 3-甲基六氫苯二甲酸酐 Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1

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No.	SUBSTANCE NAME	CAS NUMBER	EC NUMBER
93	支鏈及直鏈壬基酚-包括含有9個碳烷基鏈之所有獨立同分異構體及所有含有含直鏈或支鏈之9個碳烷基鏈 UVCB 物質 4-Nonylphenol, branched and linear - 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	-	-
94	辛基酚聚醚-9，包括界定明確的物質以及UVCB物質、聚合物及同系物 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-
95	甲氧基乙酸 Methoxy acetic acid	625-45-6	210-894-6
96	二甲基甲酰胺 N,N-dimethylformamideN,N-	25174	200-679-5
97	二丁基二氧化錫 Dibutyltin dichloride (DBT)	683-18-1	211-670-0
98	一氧化鉛 Lead monoxide (Lead oxide )	1317-36-8	215-267-0
99	四氧化三鉛 Orange lead (Lead tetroxide )	1314-41-6	215-235-6
100	氟硼酸鉛 Lead bis (Tetrafluoroborate)	13814-96-5	237-486-0
101	鹼式碳酸鉛 Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6
102	鈦酸鉛 Lead titanium trioxide	12060-00-3	235-038-9
103	鈦酸鉛鋯 Lead Titanium Zirconium Oxide	12626-81-2	235-727-4
104	矽酸鉛 Silicic acid, lead salt	11120-22-2	234-363-3
105	摻雜鉛的矽酸鋇 Silicic acid, barium salt, lead-doped	68784-75-8	272-271-5
106	1-溴丙烷 1-bromopropane (n-propyl bromide)	106-94-5	203-445-0
107	1,2-環氧丙烷 Methyloxirane (propylene oxide)	75-56-9	200-879-2
108	1,2-苯二羧二戊酯（支鏈和直鏈） 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
109	鄰苯二甲酸二異戊酯 Diisopentylphthalate (DIPP)	605-50-5	210-088-4
110	鄰苯二甲酸正戊基異戊基酯 N-pentyl-isopentylphthalate	776297-69-9	-
111	乙二醇二乙醚 1,2-Diethoxyethane	629-14-1	211-076-1
112	鹼式乙酸鉛 Acetic acid, lead salt, basic	51404-69-4	257-175-3
113	鹼式硫酸鉛 Lead oxide sulfate	12036-76-9	234-853-7
114	二鹽基鄰苯二甲酸鉛 [Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
115	雙(十八酸基)二氧代三鉛 Dioxobis(stearato)trilead	12578-12-0	235-702-8
116	脂肪酸鉛鹽 Fatty acids, C16-18, lead saltsC16-C18	91031-62-8	292-966-7
117	氨基氰鉛鹽 Lead cyanamide	20837-86-9	244-073-9
118	硝酸鉛 Lead dinitrate	10099-74-8	233-245-9

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No.	SUBSTANCE NAME	CAS NUMBER	EC NUMBER
119	氧化鉛與硫酸鉛的複合物 Pentalead tetraoxide sulphate	12065-90-6	235-067-7
120	顏料黃 41Pyrochlore, antimony lead yellow	8012-00-8	232-382-1
121	亞硫酸鉛 (II)Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
122	四乙基鉛 Tetraethyllead	78-00-2	201-075-4
123	三鹼式硫酸鉛 Tetralead trioxide sulphate	12202-17-4	235-380-9
124	磷酸氧化鉛 Trilead dioxide phosphonate	12141-20-7	235-252-2
125	呋喃 Furan	110-00-9	203-727-3
126	硫酸二乙酯 Diethyl sulphate	64-67-5	200-589-6
127	硫酸二甲酯 Dimethyl sulphate	77-78-1	201-058-1
128	3-乙基-2-甲基-2-(3-甲基丁基)噁唑烷 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7
129	4,4'-二胺基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine	88-85-7	201-861-7
130	地樂酚 Dinoseb (6-sec-butyl-2,4-dinitrophenol)	838-88-0	212-658-8
131	4,4'-二氨基二苯醚 4,4'-oxydianiline and its salts	101-80-4	202-977-0
132	4-胺基偶氮苯 4-Aminoazobenzene	60-09-3	200-453-6
133	2,4-二氨基甲苯 4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1
134	2-甲氧基-5-甲基苯胺 6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
135	4-胺基聯苯 Biphenyl-4-ylamine	92-67-1	202-177-1
136	鄰氨基偶氮甲苯 o-aminoazotoluene[o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]]	97-56-3	202-591-2
137	鄰-甲苯胺 o-Toluidine	95-53-4	202-429-0
138	N-甲基乙醯胺 N-methylacetamide	79-16-3	201-182-6
139	鎘 admium	7440-43-9	231-152-8
140	氧化鎘 Cadmium oxide	1306-19-0	215-146-2
141	鄰苯二甲酸二正戊酯 (DPP) Dipentyl phthalate (DPP)	131-18-0	205-017-9
142	支鏈及直鏈乙氧基壬基酚- 包括含有9個碳烷基鏈及所有含有含直鏈或支鏈之9個碳烷基鏈 UVCB物質、聚合物及同系物，包括獨立同分異構物及複合物4-Nonylphenol, branched and linear, ethoxylated [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]	-	-
143	十五代氟辛酸銨鹽 Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4
144	全氟辛酸 Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9
145	硫化鎘 Cadmium sulphide	215-147-8	1306-23-6
146	CI直接紅28 Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diy]bis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4
147	CI直接黑38 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)	1937-37-7	217-710-3



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No.	SUBSTANCE NAME	CAS NUMBER	EC NUMBER
148	鄰苯二甲酸二己酯 Dihexyl phthalate	84-75-3	201-559-5
149	亞乙基硫脲 Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9
150	鉛底 ( 醋酸 ) Lead di(acetate)	301-04-2	206-104-4
151	磷酸三(二甲苯)酯 Trixylyl phosphate	25155-23-1	246-677-8
152	鄰苯二甲酸二己酯(支鏈和直鏈) 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linea	68515-50-4	271-093-5
153	氯化鎘 Cadmium chloride	10108-64-2	233-296-7
154	過硼酸鈉 Sodium perborate; perboric acid, sodium salt	-	239-172-9 234-390-0
155	過氧偏硼酸鈉 Sodium peroxometaborate	7632/4/4	231-556-4
156	氟化鎘 Cadmium fluoride	7790-79-6	232-222-0
157	硫化鎘 Cadmium sulphate	10124-36-4 31119-53-6	233-331-6
158	2-[2-羥基-3',5'-二-叔-丁基苯基]-苯並三唑 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6
159	2-(2'-羥基-3',5'-二-叔-戊基苯基)-苯並三唑 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8
160	二正辛基-雙 ( 2-乙基己基巰基乙酸酯 ) 錫 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4
161	二正辛基-雙 ( 2-乙基己基巰基乙酸酯 ) 錫和單辛基-三(2-乙基己基巰基乙酸酯) 錫的反應物 Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	—	—
162	1,2-苯二甲酸二C6-10烷基酯；1,2-苯二甲酸混合癸與己和辛二酯，包含≥0.3%的鄰苯二甲酸二己酯(DNHP，EC No. 201-559-5，CASNo. 84-75-3)1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesterswith ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1
163	包含以下[1]與[2]之所有單獨立體異構物與其組成。[1]5-二級丁基-2-(2,4-二甲基環己-3-烯-1-基)-5-甲基-1,3-二【口零】【口東】[2]5-二級丁基-2-(4,6-二甲基環己-3-烯-1-基)-5-甲基-1,3-二5-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 stereoisomersof [1] and [2] or any combination thereof]	10124-36-4, 31119-53-6	233-331-6
164	硝基苯 Nitrobenzene	98-95-3	202-716-0
165	2,4-二-叔丁基-6-(5-氯代苯並三唑-2-基)苯酚 2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8
166	2-(2H-苯並三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1
167	1,3-丙烷磺內酯 1,3-Propanesultone	1120-71-4	214-317-9
168	全氟壬酸及其鈉鹽和銨鹽 Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3
169	苯並(a)芘 Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5
170	對(1,1-二甲基丙基)苯酚 p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9

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## Candidate List 219Substances

No.	SUBSTANCE NAME	CAS NUMBER	EC NUMBER
171	十九氟癸酸及其鈉和銨鹽 Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid Ammonium nonadecafluorodecanoate Decanoic acid, nonadecafluoro-, sodium salt	335-76-2 3108-42-7 3830-45-3	206-400-3 221-470-5 -
172	4-庚基苯酚, 支鍊及直鍊 包括含有7個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支7個碳烷基鏈的UVCB物質 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	-	-
173	雙酚A 4,4'-isopropylidenediphenol	80-05-7	201-245-8
174	全氟己基磺酸及其鹽類 Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	-
175	苯並[a]蒽 Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6
176	碳酸鎘 Cadmium carbonate	513-78-0	208-168-9
177	氫氧化鎘 Cadmium hydroxide	21041-95-2	244-168-5
178	硝酸鎘 Cadmium nitrate	10022-68-1, 10325-94-7	233-710-6
179	蒽 Chrysene	218-01-9, 1719-03-5	205-923-4
180	德克隆 Dodecachloropentacyclo[12.2.1.1.6,9.0.2,13.0.5,10]octadeca-7,15-diene ("Dechlorane Plus"™)	-	-
181	1,3,4-噁二唑-2,5-二硫酮、甲醛與支鍊和直鍊4-庚基苯酚的反應產物 (含有支鍊和直鍊4-庚基苯酚重量比大於或等於0.1%) Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-
182	1,2,4-苯三甲酸酐 Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)	552-30-7	209-008-0
183	苯並[g,h,i]芘 Benzo[ghi]perylene	191-24-2	205-883-8
184	十甲基環五矽氧烷 Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9
185	鄰苯二甲酸二環己酯 Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9
186	八硼酸二鈉 Disodium octaborate	12008-41-2	234-541-0
187	十二甲基環六矽氧烷 Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8
188	乙二胺 Ethylenediamine (EDA)	107-15-3	203-468-6
189	鉛 Lead	7439-92-1	231-100-4
190	八甲基環四矽氧烷 Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7
191	氫化聯三苯 Terphenyl, hydrogenated	61788-32-7	262-967-7
192	2,2-雙(4'-羥基苯基)-4-甲基戊烷 2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1
193	苯並[k]熾 Benzo[k]fluoranthene	207-08-9	205-916-6
194	熾 Fluoranthene	206-44-093951-69-0	205-912-4
195	菲 Phenanthrene	85-01-8	201-581-5
196	芘 Pyrene	129-00-01718-52-1	204-927-3



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No.	SUBSTANCE NAME	CAS NUMBER	EC NUMBER
197	1,7,7-三甲基-3-(苯亞甲基)雙環[2,2,1]庚烷-2-酮 (3-苯亞甲基樟腦) 1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	239-139-9
198	2-甲氧基乙酸乙酯 2-methoxyethyl acetate	110-49-6	203-772-9
199	三(4-壬基苯基, 支鍊和直鍊) 亞磷酸酯(TNPP)(4-壬基酚4-NP, 支鍊和直鍊濃度≥ 0.1% 重量比) Tris (4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-
200	2,3,3,3-四氟-2-(七氟丙氧基)丙酸, 即其鹽類與鹵化醯類 (包括它們各自的異構 物及其組合) 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-
201	4-叔丁基苯酚 4-tert-butylphenol	98-54-4	-
202	2-苄基-2-二甲基氨基-1-(4-嗎啉基)丁酮 2-benzyl-2-(dimethylamino)-4'-morpholino-butyrph	119313-12-1	404-360-3
203	2-甲基-1-[4-(甲基硫代)苯基]-2-(4-嗎啉基)-1-丙酮 2-methyl-4'-(methylthio)-2-morpholino-propio-pheno	71868-10-5	400-600-6
204	鄰苯二甲酸二異己酯 diisohexyl phthalate	71850-09-4	276-090-2
205	全氟丁烷磺酸及其鹽類 Perfluorobutane sulfonic acid (PFBS) and its salts	98-54-4	-
206	雙(乙醯丙酮酸)二丁基錫 Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0
207	對羥基苯甲基丁酯 butyl 4-hydroxybenzoate	94-26-8	202-318-7
208	2-甲基咪唑 2-methylimidazole	693-98-1	211-765-7
209	1-乙烯基咪唑 1-vinylimidazole	1072-63-5	214-012-0
210	四乙二醇二甲醚 Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7
211	二月桂酸二辛基錫, 錫烷, 二辛基-, 雙(椰油醯氧基)衍生物, 以及任何其他錫 烷, 二辛基-, 雙(脂肪醯氧基)衍生物。其中C12為脂肪醯氧基部分的主要碳原 子數 Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the	-	-
212	1,4-二氧六環 1,4-Dioxane	123-91-1	204-661-8
213	2,2-雙(溴甲基)-1,3-丙二醇(BMP) 三溴新戊醇/3-溴-2,2-二溴乙基丙醇(TBNPA) 2,3-二溴丙醇(2,3-DBPA) 2,2-bis(bromomethyl)propane1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)- 1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	221-967-7 253-057-0 202-480-9
214	2-(4-叔丁基苄基)丙醛及其立體異構體 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-
215	雙酚B 4,4'-(1-methylpropylidene)bisphenol	77-40-7	201-025-1
216	戊二醛 Glutaral	111-30-8	203-856-5
217	中鏈氯化石蠟 (MCCP) (UVCB物質, 由≥80%的直鍊氯化烷烴組成, 碳鏈長度在C14到C17之間) Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17)	-	-
218	硼酸鈉鹽 Orthoboric acid, sodium salt	-	-
219	烷基酚, 碳鏈(C12為主, 直鍊或支鍊)主要在對位, 包括其任何單個異構體或 組合 (PDDP) Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	-