



**SAMSUNG  
ELECTRO-MECHANICS**

## CERTIFICATE OF COMPLIANCE

### REACH SVHC Declaration

(Candidate list on 10 Jun 2022)

Company Name: Samsung Electro-Mechanics  
Strategic Marketing Center

  
SAMSUNG ELECTRO-MECHANICS CO., LTD.

Company Address: Maeyoung-ro 150 Yeongtong-gu, Suwon, Gyeonggi-do 16674

#### Part Number Information: Passive Products

MLCC  
LEAD FREE CHIP RESISTOR  
BEAD  
INDUCTOR  
POWER INDUCTOR  
TANTALUM CAPACITOR

※ General chip resistors may contain more than 0.1% of product weight for each of 224 substances.

Products (Passive components) from Samsung Electro-Mechanics do not contain more than 0.1% of product weight for each of 224 substances which are announced by ECHA as "Substances of Very High Concern(SVHC)".

No	Substance name	CAS number	EC number
1	Anthracene	120-12-7	204-371-1
2	4,4'-Diaminodiphenylmethane	101-77-9	202-974-4
3	Diarsenic pentaoxide	1303-28-2	215-116-9
4	Diarsenic trioxide	1327-53-3	215-481-4
5	Sodium dichromate, dihydrate	7789-12-0 10588-01-9	234-190-3
6	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
7	Hexabromocyclododecane (HBCDD)	25637-99-4	247-148-4
8	Alkanes, C10-13, chloro [Short Chain Chlorinated Paraffins] (SCCP)	85535-84-8	287-476-5
9	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0
10	Lead hydrogen arsenate	7784-40-9	232-064-2
11	Triethyl arsenate	15606-95-8	427-700-2
12	2,4-Dinitrotoluene	121-14-2	204-450-0
13	Anthracene oil	90640-80-5	292-602-7
14	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5
15	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9
16	Anthracene oil, anthracene-low	90640-82-7	292-604-8
17	Anthracene oil, anthracene paste	90640-81-6	292-603-2
18	Lead chromate	7758-97-6	231-846-0
19	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	235-759-9
20	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7
21	Tris(2-chloroethyl) phosphate	115-96-8	204-118-5
22	Coal tar pitch, high temperature	65996-93-2	266-028-2
23	Acrylamide	79-06-1	201-173-7
24	Trichloroethylene	79-01-6	201-167-4
25	Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4
26	Disodium tetraborate	1330-43-4 12179-04-3 1303-96-4	215-540-4
27	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
28	Sodium chromate	7775-11-3	231-889-5
29	Potassium chromate	7789-00-6	232-140-5
30	Ammonium dichromate	7789-09-5	232-143-1
31	Potassium dichromate	7778-50-9	231-906-6
32	Chromium trioxide	1333-82-0	215-607-8
33	2-Ethoxyethanol; Ethylene glycol monoethyl ether (EGEE)	110-80-5	203-804-1
34	2-Methoxyethanol; Ethylene glycol monomethyl ether (EGME)	109-86-4	203-713-7

No	Substance name	CAS number	EC number
35	Cobalt (di)acetate	71-48-7	200-755-8
36	Cobalt carbonate	513-79-1	208-169-4
37	Cobalt dinitrate	10141-05-6	233-402-1
38	Cobalt sulphate	10124-43-3	233-334-2
39	Acids generated from chromium trioxide and their oligomers:		
	Chromic acid	7738-94-5	231-801-5
	Dichromic acid	13530-68-2	236-881-5
	Oligomers of chromic acid and dichromic acid	-	-
40	2-Ethoxyethyl acetate	111-15-9	203-839-2
41	strontium chromate	7789-06-2	232-142-6
42	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6
43	Hydrazine	7803-57-8	206-114-9
		302-01-2	
44	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone	872-50-4	212-828-1
45	1,2,3-trichloropropane	96-18-4	202-486-1
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1
47	Cobalt dichloride	7646-79-9	231-589-4
48	Dichromium tris(chromate)	24613-89-6	246-356-2
49	Potassium hydroxyoctaoxodizincate-dichromate	11103-86-9	234-329-8
50	Pentazinc chromate octahydroxide	49663-84-5	256-418-0
51	Aluminosilicate Refractory Ceramic Fibres (RCF)	(JAMP-SN0007)	(650-017-00-8)
52	Zirconia Aluminosilicate Refractory Ceramic Fibres (ZrRCF)	(JAMP-SN0055)	(650-017-00-8)
53	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1
54	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
55	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1
56	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2
57	1,2-Dichloroethane	107-06-2	203-458-1
58	Bis(2-methoxyethyl) ether	111-96-6	203-924-4
59	Arsenic acid	7778-39-4	231-901-9
60	Calcium arsenate	7778-44-1	231-904-5
61	Trilead diarsenate	3687-31-8	222-979-5
62	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4
63	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9
64	Phenolphthalein	77-09-8	201-004-7
65	Lead diazide; Lead azide	13424-46-9	236-542-1
66	Lead styphnate	15245-44-0	239-290-0

No	Substance name	CAS number	EC number
67	Lead dipicrate	6477-64-1	229-335-2
68	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3
69	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
70	[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)]	2580-56-5	219-943-6
71	[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)]	548-62-9	208-953-6
72	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	229-851-8
73	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)]	561-41-1	209-218-2
74	Diboron trioxide	1303-86-2	215-125-8
75	Formamide	75-12-7	200-842-0
76	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5
77	Michler's Base (N,N,N',N'-tetramethyl-4,4'-methylenedianiline)	101-61-1	202-959-2
78	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5
79	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3
80	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	423-400-0
81	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9
82	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2
83	Tricosafuorododecanoic acid	307-55-1	206-203-2
84	Henicosafuoroundecanoic acid	2058-94-8	218-165-4
85	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4
86	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-
87	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	-	-
88	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8
89	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic	85-42-7	201-604-9

No	Substance name	CAS number	EC number
	anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [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]	13149-00-3 14166-21-3	236-086-3 238-009-9
90	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [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]	25550-51-0 19438-60-9 48122-14-1 57110-29-9	247-094-1 243-072-0 256-356-4 260-566-1
91	Methoxy acetic acid	625-45-6	210-894-6
92	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
93	Diisopentylphthalate	605-50-5	210-088-4
94	N-pentyl-isopentylphthalate	776297-69-9	-
95	1,2-Diethoxyethane	629-14-1	211-076-1
96	N,N-dimethylformamide	68-12-2	200-679-5
97	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0
98	Acetic acid, lead salt, basic	51404-69-4	257-175-3
99	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6
100	Lead oxide sulphate	12036-76-9	234-853-7
101	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
102	Dioxobis(stearato)trilead	12578-12-0	235-702-8
103	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7
104	Lead bis (tetrafluoroborate)	13814-96-5	237-486-0
105	Lead cyanamide	20837-86-9	244-073-9
106	Lead dinitrate	10099-74-8	233-245-9
107	Lead monoxide (lead oxide)	1317-36-8	215-267-0
108	Orange lead (lead tetroxide)	1314-41-6	215-235-6
109	Lead titanium trioxide	12060-00-3	235-038-9
110	Lead titanium zirconium oxide	12626-81-2	235-727-4
111	Pentalead tetraoxide sulphate	12065-90-6	235-067-7
112	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1
113	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	272-271-5
114	Silicic acid, lead salt	11120-22-2	234-363-3
115	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
116	Tetraethyllead	78-00-2	201-075-4
117	Tetralead trioxide sulphate	12202-17-4	235-380-9
118	Trilead dioxide phosphonate	12141-20-7	235-252-2

No	Substance name	CAS number	EC number
119	Furan	110-00-9	203-727-3
120	Methyloxirane (Propylene oxide)	75-56-9	200-879-2
121	Diethyl sulphate	64-67-5	200-589-6
122	Dimethyl sulphate	77-78-1	201-058-1
123	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7
124	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7
125	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8
126	4,4'-oxydianiline and its salts	101-80-4	202-977-0
127	4-Aminoazobenzene	60-09-3	200-453-6
128	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1
129	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
130	Biphenyl-4-ylamine	92-67-1	202-177-1
131	o-aminoazotoluene	97-56-3	202-591-2
132	o-Toluidine	95-53-4	202-429-0
133	N-methylacetamide	79-16-3	201-182-6
134	1-bromopropane	106-94-5	203-445-0
135	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9
136	Cadmium oxide	1306-19-0	215-146-2
137	Ammonium pentadeca fluorootanoate (APFO)	3825-26-1	223-320-4
138	Cadmium	7440-43-9	231-152-8
139	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]	(JAMP-SN0064)	-
140	Dipentyl phthalate (DPP)	131-18-0	205-017-9
141	Cadmium sulphide	1306-23-6	215-147-8
142	Dihexyl phthalate	84-75-3	201-559-5
143	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4
144	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
145	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9
146	Lead di(acetate)	301-04-2	206-104-4
147	Trixylyl phosphate	25155-23-1	246-677-8
148	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5

No	Substance name	CAS number	EC number
149	Cadmium chloride	10108-64-2	233-296-7
150	Sodium perborate; Perboric acid, sodium salt	-	239-172-9 234-390-0
151	Sodium peroxometaborate	7632-04-4	231-556-4
152	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8
153	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6
154	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4
155	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
156	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0
157	Cadmium fluoride	7790-79-6	232-222-0
158	Cadmium sulphate	10124-36-4 31119-53-6	233-331-6
159	Dibutyl phthalate (DBP)	84-74-2	201-557-4
160	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2
161	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-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No.201-559-5)	68515-51-5; 68648-93-1	271-094-0; 272-013-1
163	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 isomers of [1] and [2] or any combination thereof]	-	-
164	1,3-propanesultone	1120-71-4	214-317-9
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1
167	Nitrobenzene	98-95-3	202-716-0
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts)	375-95-1 21049-39-8 4149-60-4	206-801-3
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5
170	4,4'-Isopropylidenediphenol (Bisphenol A)	80-05-7	201-245-8
171	4-Heptylphenol, branched and linear (4-HPbl)	-	-
172	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9
173	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	- 206-400-3 221-470-5

No	Substance name	CAS number	EC number
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	-
175	Benz[a]anthracene	56-55-3 1718-53-2	200-280-6
176	Cadmium carbonate	513-78-0	208-168-9
177	Cadmium hydroxide	21041-95-2	244-168-5
178	Cadmium nitrate	10022-68-1 10325-94-7	233-710-6
179	Chrysene	218-01-9 1719-03-5	205-923-4
180	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	-	-
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	209-008-0
183	Benzo[ghi]perylene	191-24-2	205-883-8
184	Decamethylcyclopentasiloxane	541-02-6	208-764-9
185	Dicyclohexyl phthalate	84-61-7	201-545-9
186	Disodium octaborate	12008-41-2	234-541-0
187	Dodecamethylcyclohexasiloxane	540-97-6	208-762-8
188	Ethylenediamine	107-15-3	203-468-6
189	Lead	7439-92-1	231-100-4
190	Octamethylcyclotetrasiloxane	556-67-2	209-136-7
191	Terphenyl, hydrogenated	61788-32-7	262-967-7
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1
194	Benzo[k]fluoranthene	207-08-9	205-916-6
195	Fluoranthene	206-44-0 93951-69-0	205-912-4
196	Phenanthrene	85-01-8	201-581-5
197	Pyrene	129-00-0 1718-52-1	204-927-3
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-
199	4-tert-butylphenol	98-54-4	202-679-0
200	2-methoxyethyl acetate	110-49-6	203-772-9
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	-
202	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-
203	Diisohexyl phthalate	71850-09-4	276-090-2
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
205	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3



No	Substance name	CAS number	EC number
206	1-vinylimidazole	1072-63-5	214-012-0
207	2-methylimidazole	693-98-1	211-765-7
208	butyl 4-hydroxybenzoate(Butylparaben)	94-26-8	202-318-7
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	-
212	1,4-dioxane	123-91-1	204-661-8
213	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/β-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)		
	3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	1522-92-5	-
	2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)	36483-57-5	253-057-0
	2,2-bis(bromomethyl)propane-1,3-diol (BMP)	3296-90-0	221-967-7
	2,3-dibromo-1-propanol (2,3-DBPA)	96-13-9	202-480-9
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers		
	(2R)-3-(4-tert-butylphenyl)-2-methylpropanal	75166-31-3	-
	2-(4-tert-butylbenzyl)propionaldehyde	80-54-6	201-289-8
	(2S)-3-(4-tert-butylphenyl)-2-methylpropanal	75166-30-2	-
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	201-025-1
216	glutaral	111-30-8	203-856-5
217	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		
	Alkanes, C14-16, chloro	1372804-76-6	-
	Alkanes, C14-17, chloro	85535-85-9	287-477-0
	di-, tri- and tetrachlorotetradecane	-	950-299-5
	Tetradecane, chloro derivs.	198840-65-2	-
218	orthoboric acid, sodium salt		
	boric acid (H3BO3), sodium salt, hydrate	25747-83-5	-
	Boric acid (H3BO3), disodium salt	22454-04-2	-
	Trisodium orthoborate	14312-40-4	238-253-6
	Boric acid, sodium salt	1333-73-9	215-604-1
	Orthoboric acid, sodium salt	13840-56-7	237-560-2
	Boric acid (H3BO3), sodium salt (1:1)	14890-53-0	-

No	Substance name	CAS number	EC number
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)		
	Phenol, 4-dodecyl, branched	210555-94-5	-
	4-isododecylphenol	27459-10-5	-
	Phenol, 4-isododecyl-	27147-75-7	-
	Phenol, dodecyl-, branched	121158-58-5	310-154-3
	Phenol, (tetrapropenyl) derivatives	74499-35-7	-
	Phenol, tetrapropylene-	57427-55-1	-
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)		
	(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1782069-81-1	-
	(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	95342-41-9	-
	(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-25-4	-
	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one	36861-47-9	253-242-6
	(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	741687-98-9	-
	(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-30-1	-
	(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-21-0	-
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	204-327-1
222	S-(tricyclo(5.2.1.0' <sup>2</sup> ,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	401-850-9
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0
224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2