



SAMSUNG Electro-Mechanics Co., Ltd.
150, Maeyeong-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, Korea 443-743

Dear, sir,

Supplier: Samsung Electro-Mechanics Co., Ltd
Subject: REACH Certificate of Compliance

Products (Passive components) from Samsung Electro-Mechanics do not contain more than 0.1% of product weight for each of 161 substances which are announced by ECHA as " Substances of Very High Concern (SVHC)".

Passive Products

Ceramic Chip Capacitors
Chip Resistor
Chip Inductor
Chip Bead
Tantalum Capacitors

We appreciate your continuous support and cooperation
Should you have questions, please feel free to contact us.

Sincerely yours,

Hwansoo Lee

HwanSoo Lee (Principal Engineer)
LCR Application Engineer
LCR Business Unit

Chifoon Choi
SAMSUNG ELECTRO-MECHANICS CO.,LTD.

Company Stamp

	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	dibutyl phthalate(DBP)	84-74-2	201-557-4
4	cobalt dichloride	7646-79-9	231-589-4
5	diarsenic pentaoxide	1303-28-2	215-116-9
6	diarsenic trioxide	1327-53-3	215-481-4
7	sodium dichromate	7789-12-0 10588-01-9	234-190-3
8	5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	81-15-2	201-329-4
9	Bis(2-ethyl(hexyl)phthalate)(DEHP)	117-81-7	204-211-0
10	hexabromocyclododecane(HBCDD)	25637-99-4	247-148-4 221-695-9
11	short chain chlorinated paraffins(SCCPs)	85535-84-8	287-476-5
12	bis(tributyltin)oxide(TBTO)	56-35-9	200-268-0
13	lead hydrogen arsenate	7784-40-9	232-064-2
14	triethyl arsenate	15606-95-8	427-700-2
15	benzyl butyl phthalate(BBP)	85-68-7	201-622-7
16	Anthracene oil	90640-80-5	292-602-7
17	Anthracene oil, anthracene paste, distn, light	91995-17-4	295-278-5
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9
19	Anthracene oil, anthracene-low	90640-82-7	292-604-8
20	Anthracene oil, anthracene-paste	90640-81-6	292-603-2
21	Coal tar pitch, hightemperature	65996-93-2	266-028-2
22	Acrylamide	1979-06-01	201-173-7
23	2,4-Dinitrotoluene	121-14-2	204-450-0
24	Diisobutyl phthalate	84-69-5	201-553-2
25	Lead chromate	7758-97-6	231-846-0
26	Lead chromate molybdate sulphate red	12656-85-8	235-759-9
27	Lead sulfochromate yellow	1344-37-2	215-693-7
28	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5
29	Trichloroethylene	79-01-06	201-167-4
30	Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4
31	Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
33	Sodium chromate	7775-11-03	231-889-5

34	Potassium chromate	7789-00-6	232-140-5
35	Ammonium dichromate	7789-09-05	232-143-1
36	Potassium dichromate	7778-50-9	231-906-6
37	Cobalt(II) sulphate	10124-43-3	233-334-2
38	Cobalt(II) dinitrate	10141-05-6	233-402-1
39	Cobalt(II) carbonate	513-79-1	208-169-4
40	Cobalt(II) diacetate	71-48-7	200-755-8
41	2-Methoxyethanol	109-86-4	203-713-7
42	2-Ethoxyethanol	110-80-5	203-804-1
43	Chromium trioxide	1333-82-0	215-607-8
44	Acids generated from chromium trioxide and their oligomers: -. Chromic acid -. Dichromic acid Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2	231-801-5 236-881-5
45	2-ethoxyethyl acetate	111-15-9	203-839-2
46	Strontium chromate	7789-06-02	232-142-6
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)	68515-42-4	271-084-6
48	Hydrazine Hydrazing hydrate	302-01-2 7803-57-8	206-114-9
49	1-methyl-2-pyrrolidone	872-50-4	212-828-1
50	1,2,3-trichloropropane	96-18-4	202-486-1
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters(DIHP)	71888-89-6	276-158-1
52	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	-	-
53	Calcium arsenate	7778-44-1	231-904-5
54	Bis(2-methoxyethyl) ether	111-96-6	203-924-4

55	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 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	-	-
56	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8
57	Lead dipicrate	6477-64-1	229-335-2
58	N,N-dimethylacetamide	127-19-5	204-826-4
59	Arsenic acid	7778-39-4	231-901-9
60	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1
61	Trilead diarsenate	3687-31-8	222-979-5
62	1,2-dichloroethane	107-06-2	203-458-1
63	Pentazinc chromate octahydroxide	49663-84-5	256-418-0
64	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1
65	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
66	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2
67	Lead diazide, Lead azide	13424-46-9	236-542-1
68	Phenolphthalein	77-09-08	201-004-7
69	Dichromium tris(chromate)	24613-89-6	246-356-2
70	Lead styphnate	15245-44-0	239-290-0
71	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9
72	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol	6786-83-0	229-851-8
73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2
74	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
75	Diboron trioxide	1303-86-2	215-125-8
76	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3
77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2
78	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5
79	Formamide	75-12-07	200-842-0
80	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride	548-62-9	208-953-6
81	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride	2580-56-5	219-943-6

83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3
84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9
86	Pentacosaf fluorotridecanoic acid	72629-94-8	276-745-2
87	Tricosaf fluorododecanoic acid	307-55-1	206-203-2
88	Henicosaf fluoroundecanoic acid	2058-94-8	218-165-4
89	Heptacosaf fluorotetradecanoic acid	376-06-7	206-803-4
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8
91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic 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].	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9
92	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
93	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	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-
95	Methoxyacetic acid	625-45-6	210-894-6
96	N,N-dimethylformamide	68-12-2	200-679-5
97	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0
98	Lead monoxide (Lead oxide)	1317-36-8	215-267-0
99	Orange lead (Lead tetroxide)	1314-41-6	215-235-6
100	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0
101	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6
102	Lead titanium trioxide	12060-00-3	235-038-9
103	Lead titanium zirconium oxide	12626-81-2	235-727-4
104	Silicic acid, lead salt	11120-22-2	234-363-3
105	Silicic acid (H ₂ Si ₂ O ₅), 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

106	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0
107	Methyloxirane (Propylene oxide)	75-56-9	200-879-2
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
109	Diisopentylphthalate (DIPP)	605-50-5	210-088-4
110	N-pentyl-isopentylphthalate	776297-69-9	-
111	1,2-diethoxyethane	629-14-1	211-076-1
112	Acetic acid, lead salt, basic	51404-69-4	257-175-3
113	Lead oxide sulfate	12036-76-9	234-853-7
114	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
115	Dioxobis(stearato)trilead	12578-12-0	235-702-8
116	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7
117	Lead cyanamate	20837-86-9	244-073-9
118	Lead dinitrate	10099-74-8	233-245-9
119	Pentalead tetraoxide sulphate	12065-90-6	235-067-7
120	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1
121	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
122	Tetraethyllead	78-00-2	201-075-4
123	Tetralead trioxide sulphate	12202-17-4	235-380-9
124	Trilead dioxide phosphonate	12141-20-7	235-252-2
125	Furan	110-00-9	203-727-3
126	Diethyl sulphate	64-67-5	200-589-6
127	Dimethyl sulphate	77-78-1	201-058-1
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7
130	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	212-658-8
131	4,4'-oxydianiline and its salts	101-80-4	202-977-0
132	4-aminoazobenzene	60-09-3	200-453-6
133	4-methyl- <i>m</i> -phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1
134	6-methoxy- <i>m</i> -toluidine (p-cresidine)	120-71-8	204-419-1
135	Biphenyl-4-ylamine	92-67-1	202-177-1
136	<i>o</i> -aminoazotoluene [(4- <i>o</i> -tolylazo- <i>o</i> -toluidine)]	97-56-3	202-591-2
137	<i>o</i> -toluidine	95-53-4	202-429-0
138	<i>N</i> -methylacetamide	79-16-3	201-182-6
139	Cadmium	7440-43-9	231-152-8
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9
142	Dipentyl phthalate (DPP)	131-18-0	205-017-9

143	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]	-	-
144	Cadmium oxide	1306-19-0	215-146-2
145	Cadmium sulphide	1306-23-6	215-147-8
146	Diethyl phthalate	84-75-3	201-559-5
147	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
148	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
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9
150	Lead di(acetate)	301-04-2	206-104-4
151	Triethyl phosphate	25155-23-1	246-677-8
152	Cadmium chloride	10108-64-2	233-296-7
153	Sodium peroxometaborate	239-172-9; 234-390-0	231-556-4
154	Sodium perborate; perboric acid, sodium salt	-	271-093-5
155	1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear	68515-50-4	271-093-5
156	Cadmium sulphate	10124-36-4, 31119-53-6	233-331-6
157	Cadmium fluoride	7790-79-6	232-222-0
158	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8
159	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)	-	
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4
161	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6