



**SAMSUNG
ELECTRO-MECHANICS**

Samsung Electro-Mechanics Co., Ltd.
Maeyoung-ro 150 (Maetan-dong)
Yeongtong-gu, Suwon, Gyeonggi-do 16674

Dear, sir.

Supplier : Samsung Electro-Mechanics
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 197 substances which are announced by ECHA as " Substances of Very High Concern (SVHC)".

Passive Products

MLCC
Chip Resistor
Bead
Inductor
Tantalum Capacitor

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

Sincerely yours,

YOUNGDUK YOO / Principal Engineer
Component Solution Business Unit

SAMSUNG ELECTRO-MECHANICS CO., LTD.

Company Stamp

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

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 Dichromic acid Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2 -	231-801-5 236-881-5 -
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	7803-57-8 302-01-2	206-114-9
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
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	Pentacosaflluorotridecanoic acid	72629-94-8	276-745-2
83	Tricosaflluorododecanoic acid	307-55-1	206-203-2
84	Henicosaflluoroundecanoic acid	2058-94-8	218-165-4
85	Heptacosaflluorotetradecanoic 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 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

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 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
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
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	Diethyl 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	Triethyl phosphate	25155-23-1	246-677-8
148	1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear	68515-50-4	271-093-5
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 $\geq 0.3\%$ 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
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	Decamethylcyclotetrasiloxane	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