

REACH Certificate of Compliance

TDK Corporation and its subsidiaries (hereinafter called collectively 'TDK') certifies compliance with all legal requirements from REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH regulation) concerning the following products:

TDK Product Name: Multilayer Ceramic Chip Capacitors

Note: Information on substances indicated as candidate substances for authorization by ECHA (European Chemical Agency) is provided in good faith and to the best of our knowledge.

Such information is available for intentional use or inclusion of the referred substances based on supplier surveys in accordance with the "TDK Green Procurement Standard Document" or direct report from our suppliers. Any time that new relevant information becomes available,

TDK will inform you.

Sincerely yours

Authorized signatory for TDK-EPC Corporation



Signature of Dept./Environmental Manager

Name: Taisuke Ahiko

Position: Deputy General Manager

Department: Ceramic Capacitor Quality Assurance

***REACH SVHC 161 substances.**

Item	REACH SVHC	CAS No.	Registered Date
1	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	2014/12/17; 2008/10/28.
2	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	2014/12/17
3	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	2014/12/17
4	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)	-	2014/12/17
5	2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328)	25973-55-1	2014/12/17
6	Cadmium fluoride	7790-79-6	2014/12/17
7	Cadmium sulphate	10124-36-4, 31119-53-6	2014/12/17
8	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	2014/6/16
9	Cadmium chloride	10108-64-2	2014/6/16
10	Sodium peroxometaborate	7632-04-4	2014/6/16
11	Sodium perborate; perboric acid, sodium salt	15120-21-5, 11138-47-9	2014/6/16
12	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	2013/12/16
13	Trixylyl phosphate	25155-23-1	2013/12/16
14	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	2013/12/16
15	Cadmium sulphide	1306-23-6	2013/12/16
16	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	2013/12/16
17	Lead di(acetate)	301-04-2	2013/12/16
18	Dihexyl phthalate	84-75-3	2013/12/16
19	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	2013/6/20
20	Cadmium oxide	1306-19-0	2013/6/20
21	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]	-	2013/6/20

22	Pentadecafluorooctanoic acid (PFOA)	335-67-1	2013/6/20
23	Dipentyl phthalate (DPP)	131-18-0	2013/6/20
24	Cadmium	7440-43-9	2013/6/20
25	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>	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	2012/12/19
26	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	2012/12/19
27	6-methoxy-m-toluidine (p-cresidine)	120-71-8	2012/12/19
28	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	2012/12/19
29	Pentalead tetraoxide sulphate	12065-90-6	2012/12/19
30	Silicic acid, lead salt	11120-22-2	2012/12/19
31	4,4'-oxydianiline and its salts	101-80-4	2012/12/19
32	1-bromopropane (n-propyl bromide)	106-94-5	2012/12/19
33	Furan	110-00-9	2012/12/19
34	Lead bis(tetrafluoroborate)	13814-96-5	2012/12/19
35	Diethyl sulphate	64-67-5	2012/12/19
36	N-pentyl-isopentylphthalate	776297-69-9	2012/12/19
37	o-aminoazotoluene	97-56-3	2012/12/19
38	Lead cyanamidate	20837-86-9	2012/12/19
39	Tetralead trioxide sulphate	12202-17-4	2012/12/19
40	o-Toluidine	95-53-4	2012/12/19
41	Dioxobis(stearato)trilead	12578-12-0	2012/12/19
42	Silicic acid (H ₂ SiO ₅), barium salt (1:1), lead-doped <i>[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]</i>	68784-75-8	2012/12/19
43	4,4'-methylenedi-o-toluidine	838-88-0	2012/12/19
44	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	2012/12/19
45	N,N-dimethylformamide	68-12-2	2012/12/19
46	4-Aminoazobenzene	60-09-3	2012/12/19
47	N-methylacetamide	79-16-3	2012/12/19
48	Heptacosafuorotetradecanoic acid	376-06-7	2012/12/19
49	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	2012/12/19
50	Pentacosafuorotridecanoic acid	72629-94-8	2012/12/19
51	Tetraethyllead	78-00-2	2012/12/19
52	Trilead dioxide phosphonate	12141-20-7	2012/12/19
53	Lead monoxide (lead oxide)	1317-36-8	2012/12/19
54	Acetic acid, lead salt, basic	51404-69-4	2012/12/19
55	Dibutyltin dichloride (DBTC)	683-18-1	2012/12/19
56	Lead dinitrate	10099-74-8	2012/12/19
57	Methoxyacetic acid	625-45-6	2012/12/19
58	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	2012/12/19

59	Pyrochlore, antimony lead yellow	8012-00-8	2012/12/19
60	Lead titanium trioxide	12060-00-3	2012/12/19
61	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	2012/12/19
62	Methyloxirane (Propylene oxide)	75-56-9	2012/12/19
63	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>	85-42-7, 13149-00-3, 14166-21-3	2012/12/19
64	Fatty acids, C16-18, lead salts	91031-62-8	2012/12/19
65	Dimethyl sulphate	77-78-1	2012/12/19
66	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
67	Biphenyl-4-ylamine	92-67-1	2012/12/19
68	1,2-Diethoxyethane	629-14-1	2012/12/19
69	Sulfurous acid, lead salt, dibasic	62229-08-7	2012/12/19
70	[Phthalato(2-)]dioxotrilead	69011-06-9	2012/12/19
71	Tricosafuorododecanoic acid	307-55-1	2012/12/19
72	Lead oxide sulfate	12036-76-9	2012/12/19
73	Diisopentylphthalate	605-50-5	2012/12/19
74	Orange lead (lead tetroxide)	1314-41-6	2012/12/19
75	Lead titanium zirconium oxide	12626-81-2	2012/12/19
76	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	2012/12/19
77	Henicosafuoroundecanoic acid	2058-94-8	2012/12/19
78	Trilead bis(carbonate)dihydroxide	1319-46-6	2012/12/19
79	Formamide	75-12-7	2012/06/18
80	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	2012/06/18
81	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) <i>[with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	6786-83-0	2012/06/18
82	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	2012/06/18
83	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	2012/06/18
84	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	2012/06/18
85	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	2012/06/18
86	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) <i>[with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	2580-56-5	2012/06/18

87	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	2012/06/18
88	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	2012/06/18
89	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	2012/06/18
90	Lead(II) bis(methanesulfonate)	17570-76-2	2012/06/18
91	Diboron trioxide	1303-86-2	2012/06/18
92	Lead diazide; Lead azide	13424-46-9	2011/12/19
93	Calcium arsenate	7778-44-1	2011/12/19
94	Bis(2-methoxyethyl) phthalate	117-82-8	2011/12/19
95	Arsenic acid	7778-39-4	2011/12/19
96	Lead dipicrate	6477-64-1	2011/12/19
97	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	2011/12/19
98	Phenolphthalein	77-09-8	2011/12/19
99	Bis(2-methoxyethyl) ether	111-96-6	2011/12/19
100	Pentazinc chromate octahydroxide	49663-84-5	2011/12/19
101	Zirconia Aluminosilicate Refractory Ceramic Fibres <i>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:</i> <i>a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges</i> <i>b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm).</i> <i>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</i>	-	2011/12/19
102	Trilead diarsenate	3687-31-8	2011/12/19
103	Dichromium tris(chromate)	24613-89-6	2011/12/19
104	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	2011/12/19
105	1,2-Dichloroethane	107-06-2	2011/12/19
106	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octyl phenol	140-66-9	2011/12/19
107	Lead styphnate	15245-44-0	2011/12/19
108	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	2011/12/19
109	2-Methoxyaniline; o-Anisidine	90-04-0	2011/12/19
110	Aluminosilicate Refractory Ceramic Fibres <i>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:</i> <i>a) oxides of aluminium and silicon are the main components</i>	-	2011/12/19

	<i>present (in the fibres) within variable concentration ranges</i> <i>b) fibres have a length weighted geometric mean diameter less</i> <i>two standard geometric errors of 6 or less micrometres (µm)</i> <i>c) alkaline oxide and alkali earth oxide</i> <i>(Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18%</i> <i>by weight</i>		
111	N,N-dimethylacetamide	127-19-5	2011/12/19
112	Cobalt dichloride	7646-79-9	2011/06/20 - 2008/10/28
113	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	2011/06/20
114	Strontium chromate	7789-06-2	2011/06/20
115	2-Ethoxyethyl acetate	111-15-9	2011/06/20
116	1,2,3-Trichloropropane	96-18-4	2011/06/20
117	Hydrazine	302-01-2, 7803-57-8	2011/06/20
118	1-methyl-2-pyrrolidone	872-50-4	2011/06/20
119	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	2011/06/20
120	Acids generated from chromium trioxide and their oligomers Group containing: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5, 13530-68-2	2010/12/15
121	2-Ethoxyethanol	110-80-5	2010/12/15
122	Cobalt(II) diacetate	71-48-7	2010/12/15
123	2-Methoxyethanol	109-86-4	2010/12/15
124	Chromium trioxide	1333-82-0	2010/12/15
125	Cobalt(II) sulphate	10124-43-3	2010/12/15
126	Cobalt(II) carbonate	513-79-1	2010/12/15
127	Cobalt(II) dinitrate	10141-05-6	2010/12/15
128	Potassium chromate	7789-00-6	2010/06/18
129	Ammonium dichromate	7789-09-5	2010/06/18
130	Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	2010/06/18
131	Sodium chromate	7775-11-3	2010/06/18
132	Potassium dichromate	7778-50-9	2010/06/18
133	Boric acid	10043-35-3, 11113-50-1	2010/06/18
134	Trichloroethylene	79-01-6	2010/06/18
135	Tetraboron disodium heptaoxide, hydrate	12267-73-1	2010/06/18
136	Acrylamide	79-06-1	2010/03/30
137	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	2010/01/13
138	Anthracene oil, anthracene-low	90640-82-7	2010/01/13
139	Diisobutyl phthalate	84-69-5	2010/01/13
140	Anthracene oil, anthracene paste	90640-81-6	2010/01/13
141	Tris(2-chloroethyl)phosphate	115-96-8	2010/01/13
142	Lead chromate	7758-97-6	2010/01/13
143	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	2010/01/13

144	Pitch, coal tar, high temp.	65996-93-2	2010/01/13
145	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	2010/01/13
146	Anthracene oil	90640-80-5	2010/01/13
147	2,4-Dinitrotoluene	121-14-2	2010/01/13
148	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	2010/01/13
149	Lead hydrogen arsenate	7784-40-9	2008/10/28
150	Benzyl butyl phthalate (BBP)	85-68-7	2008/10/28
151	Bis(tributyltin)oxide (TBTO)	56-35-9	2008/10/28
152	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	2008/10/28
153	Diarsenic trioxide	1327-53-3	2008/10/28
154	Triethyl arsenate	15606-95-8	2008/10/28
155	Diarsenic pentaoxide	1303-28-2	2008/10/28
156	Sodium dichromate	7789-12-0, 10588-01-9	2008/10/28
157	Dibutyl phthalate (DBP)	84-74-2	2008/10/28
158	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	2008/10/28
159	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	2008/10/28
160	Anthracene	120-12-7	2008/10/28
161	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	2008/10/28