

**Certificate of Non-inclusion of Substances from the Candidate list of SVHC
for authorization of REACH**

TDK Corporation (including its subsidiaries) certifies that the following product(s) delivered directly by us to you, does (do) not include substances from the “Candidate List of substances of very high concern for Authorization” of the REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH regulation) in thresholds exceeding 1000 ppm.

*Note: Inclusion information of Substances from the Candidate list of SVHC for authorization by ECHA (European Chemical Agency) (<http://echa.europa.eu/web/guest/candidate-list-table>) is reported based on our current knowledge.

TDK Product Name: Multilayer Ceramic Chip Capacitors

Sincerely yours

Authorized signatory for TDK Corporation

Hideki Masuda

Signature of Dept./Environmental Manager

Name: Hideki Masuda

Position: Department Head

Department: Ceramic Capacitor Quality Assurance

***REACH SVHC 181 substances.**

Item	Substance name	CAS No.	Date of inclusion
1	Benz[a]anthracene	56-55-3 1718-53-2	2018/1/15
2	Cadmium carbonate	513-78-0	2018/1/15
3	Cadmium hydroxide	21041-95-2	2018/1/15
4	Cadmium nitrate	10022-68-1 10325-94-7	2018/1/15
5	Chrysene	218-01-9 1719-03-5	2018/1/15
6	1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.1 ^{6,9} .0 ^{2,13} .0 ^{5,10}] octadeca-7,15-diene ("Dechlorane Plus" TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	13560-89-9 135821-74-8 135821-03-3	2018/1/15
7	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	—	2018/1/15
8	Perfluorohexane-1-sulphonic acid and its salts PFHxS	—	2017/7/7
9	4,4'-isopropylidenediphenol Bisphenol A; BPA	80-05-7	2017/1/12
10	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]	—	2017/1/12
11	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	2017/1/12
12	p-(1,1-dimethylpropyl)phenol	80-46-6	2017/1/12
13	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	2016/06/20
14	1,3-propanesultone	1120-71-4	2015/12/17
15	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	2015/12/17
16	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	2015/12/17
17	Nitrobenzene	98-95-3	2015/12/17
18	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	2015/12/17
19	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	2015/06/15
20	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 stereoisomers of [1] and [2] or any combination thereof]	-	2015/06/15
21	2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328)	25973-55-1	2014/12/17
22	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	2014/12/17
23	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	2014/12/17
24	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	2014/12/17; 2008/10/28.
25	Cadmium fluoride	7790-79-6	2014/12/17

26	Cadmium sulphate	10124-36-4, 31119-53-6	2014/12/17
27	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
28	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	2014/06/16
29	Cadmium chloride	10108-64-2	2014/06/16
30	Sodium perborate; perboric acid, sodium salt	15120-21-5, 11138-47-9	2014/06/16
31	Sodium peroxometaborate	7632-04-4	2014/06/16
32	Cadmium sulphide	1306-23-6	2013/12/16
33	Dihexyl phthalate	84-75-3	2013/12/16
34	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
35	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
36	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	2013/12/16
37	Lead di(acetate)	301-04-2	2013/12/16
38	Trixylyl phosphate	25155-23-1	2013/12/16
39	4-Nonylphenol, branched and linear, ethoxylated <i>[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]</i>	-	2013/06/20
40	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	2013/06/20
41	Cadmium	7440-43-9	2013/06/20
42	Cadmium oxide	1306-19-0	2013/06/20
43	Dipentyl phthalate (DPP)	131-18-0	2013/06/20
44	Pentadecafluorooctanoic acid (PFOA)	335-67-1	2013/06/20
45	[Phthalato(2-)]dioxotrilead	69011-06-9	2012/12/19
46	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	2012/12/19
47	1,2-Diethoxyethane	629-14-1	2012/12/19
48	1-bromopropane (n-propyl bromide)	106-94-5	2012/12/19
49	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	2012/12/19
50	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	2012/12/19
51	4,4'-methylenedi-o-toluidine	838-88-0	2012/12/19
52	4,4'-oxydianiline and its salts	101-80-4	2012/12/19
53	4-Aminoazobenzene	60-09-3	2012/12/19
54	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	2012/12/19
55	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

56	6-methoxy-m-toluidine (p-cresidine)	120-71-8	2012/12/19
57	Acetic acid, lead salt, basic	51404-69-4	2012/12/19
58	Biphenyl-4-ylamine	92-67-1	2012/12/19
59	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	2012/12/19
60	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
61	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	2012/12/19
62	Dibutyltin dichloride (DBTC)	683-18-1	2012/12/19
63	Diethyl sulphate	64-67-5	2012/12/19
64	Diisopentylphthalate	605-50-5	2012/12/19
65	Dimethyl sulphate	77-78-1	2012/12/19
66	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	2012/12/19
67	Dioxobis(stearato)trilead	12578-12-0	2012/12/19
68	Fatty acids, C16-18, lead salts	91031-62-8	2012/12/19
69	Furan	110-00-9	2012/12/19
70	Henicosafuoroundecanoic acid	2058-94-8	2012/12/19
71	Heptacosafuorotetradecanoic acid	376-06-7	2012/12/19
72	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
73	Lead bis(tetrafluoroborate)	13814-96-5	2012/12/19
74	Lead cyanamidate	20837-86-9	2012/12/19
75	Lead dinitrate	10099-74-8	2012/12/19
76	Lead monoxide (lead oxide)	1317-36-8	2012/12/19
77	Lead oxide sulfate	12036-76-9	2012/12/19
78	Lead titanium trioxide	12060-00-3	2012/12/19
79	Lead titanium zirconium oxide	12626-81-2	2012/12/19
80	Methoxyacetic acid	625-45-6	2012/12/19
81	Methyloxirane (Propylene oxide)	75-56-9	2012/12/19
82	N,N-dimethylformamide	68-12-2	2012/12/19
83	N-methylacetamide	79-16-3	2012/12/19
84	N-pentyl-isopentylphthalate	776297-69-9	2012/12/19
85	o-aminoazotoluene	97-56-3	2012/12/19
86	Orange lead (lead tetroxide)	1314-41-6	2012/12/19
87	o-Toluidine	95-53-4	2012/12/19
88	Pentacosafuorotridecanoic acid	72629-94-8	2012/12/19
89	Pentalead tetraoxide sulphate	12065-90-6	2012/12/19
90	Pyrochlore, antimony lead yellow	8012-00-8	2012/12/19
91	Silicic acid (H ₂ Si ₂ O 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
92	Silicic acid, lead salt	11120-22-2	2012/12/19
93	Sulfurous acid, lead salt, dibasic	62229-08-7	2012/12/19
94	Tetraethyllead	78-00-2	2012/12/19
95	Tetralead trioxide sulphate	12202-17-4	2012/12/19
96	Tricosafuorododecanoic acid	307-55-1	2012/12/19
97	Trilead bis(carbonate)dihydroxide	1319-46-6	2012/12/19

98	Trilead dioxide phosphonate	12141-20-7	2012/12/19
99	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	2012/06/18
100	[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
101	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	2012/06/18
102	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	2012/06/18
103	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)	2451-62-9	2012/06/18
104	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
105	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	2012/06/18
106	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
107	Diboron trioxide	1303-86-2	2012/06/18
108	Formamide	75-12-7	2012/06/18
109	Lead(II) bis(methanesulfonate)	17570-76-2	2012/06/18
110	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	2012/06/18
111	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	2012/06/18
112	1,2-Dichloroethane	107-06-2	2011/12/19
113	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	2011/12/19
114	2-Methoxyaniline; o-Anisidine	90-04-0	2011/12/19
115	4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octyl phenol	140-66-9	2011/12/19
116	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 ($\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$) content less or equal to 18% by weight	-	2011/12/19
117	Arsenic acid	7778-39-4	2011/12/19
118	Bis(2-methoxyethyl) ether	111-96-6	2011/12/19
119	Bis(2-methoxyethyl) phthalate	117-82-8	2011/12/19
120	Calcium arsenate	7778-44-1	2011/12/19
121	Dichromium tris(chromate)	24613-89-6	2011/12/19
122	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	2011/12/19
123	Lead diazide; Lead azide	13424-46-9	2011/12/19
124	Lead dipicrate	6477-64-1	2011/12/19
125	Lead styphnate	15245-44-0	2011/12/19
126	N,N-dimethylacetamide	127-19-5	2011/12/19

127	Pentazinc chromate octahydroxide	49663-84-5	2011/12/19
128	Phenolphthalein	77-09-8	2011/12/19
129	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	2011/12/19
130	Trilead diarsenate	3687-31-8	2011/12/19
131	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 (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight</i>	-	2011/12/19
132	1,2,3-Trichloropropane	96-18-4	2011/06/20
133	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	2011/06/20
134	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	2011/06/20
135	1-methyl-2-pyrrolidone	872-50-4	2011/06/20
136	2-Ethoxyethyl acetate	111-15-9	2011/06/20
137	Cobalt dichloride	7646-79-9	2011/06/20 - 2008/10/28
138	Hydrazine	302-01-2, 7803-57-8	2011/06/20
139	Strontium chromate	7789-06-2	2011/06/20
140	2-Ethoxyethanol	110-80-5	2010/12/15
141	2-Methoxyethanol	109-86-4	2010/12/15
142	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
143	Chromium trioxide	1333-82-0	2010/12/15
144	Cobalt(II) carbonate	513-79-1	2010/12/15
145	Cobalt(II) diacetate	71-48-7	2010/12/15
146	Cobalt(II) dinitrate	10141-05-6	2010/12/15
147	Cobalt(II) sulphate	10124-43-3	2010/12/15
148	Ammonium dichromate	7789-09-5	2010/06/18
149	Boric acid	10043-35-3, 11113-50-1	2010/06/18
150	Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	2010/06/18
151	Potassium chromate	7789-00-6	2010/06/18
152	Potassium dichromate	7778-50-9	2010/06/18
153	Sodium chromate	7775-11-3	2010/06/18
154	Tetraboron disodium heptaoxide, hydrate	12267-73-1	2010/06/18
155	Trichloroethylene	79-01-6	2010/06/18
156	Acrylamide	79-06-1	2010/03/30
157	2,4-Dinitrotoluene	121-14-2	2010/01/13
158	Anthracene oil	90640-80-5	2010/01/13
159	Anthracene oil, anthracene paste	90640-81-6	2010/01/13
160	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	2010/01/13
161	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	2010/01/13
162	Anthracene oil, anthracene-low	90640-82-7	2010/01/13
163	Diisobutyl phthalate(DIBP)	84-69-5	2010/01/13
164	Lead chromate	7758-97-6	2010/01/13

165	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	2010/01/13
166	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	2010/01/13
167	Pitch, coal tar, high temp.	65996-93-2	2010/01/13
168	Tris(2-chloroethyl)phosphate	115-96-8	2010/01/13
169	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	2008/10/28
170	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	2008/10/28
171	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	2008/10/28
172	Anthracene	120-12-7	2008/10/28
173	Benzyl butyl phthalate (BBP)	85-68-7	2008/10/28
174	Bis(tributyltin)oxide (TBTO)	56-35-9	2008/10/28
175	Diarsenic pentaoxide	1303-28-2	2008/10/28
176	Diarsenic trioxide	1327-53-3	2008/10/28
177	Dibutyl phthalate (DBP)	84-74-2	2008/10/28
178	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
179	Lead hydrogen arsenate	7784-40-9	2008/10/28
180	Sodium dichromate	7789-12-0, 10588-01-9	2008/10/28
181	Triethyl arsenate	15606-95-8	2008/10/28