

January 7, 2015

## 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: Wire-wound type Inductor

VLS-HBX-1 Series (VLS201610HBX-1 / VLS201612HBX-1 / VLS252010HBX-1 /  
VLS252012HBX-1)

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.

### **Content of SVHC (Object Substances : Appendix "Candidate List")**

☒ Not intentionally contained

☐ Contained

Substance name: \_\_\_\_\_ CAS No.: \_\_\_\_\_

**Sincerely yours**

**Authorized signatory for TDK-EPC Corporation**



Signature of Dept./Environmental Manager

Name: Atsushi Hosoya

Position: Senior Manager

Department: Quality Assurance Department, Magnetics Business Group

## Candidate List (Number of substances : 161)

Substance name	EC No.	CAS No.	Date of inclusion
Bis (2-ethyl(hexyl)phthalate) (DEHP)	204-211-0	117-81-7	2014/12/17; 2008/10/28
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	2014/12/17
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetra decanoate (DOTE)	239-622-4	15571-58-1	2014/12/17
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetra decanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-oct yl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-	2014/12/17
2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328)	247-384-8	25973-55-1	2014/12/17
Cadmium fluoride	232-222-0	7790-79-6	2014/12/17
Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	2014/12/17
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	2014/6/16
Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-	2014/6/16
Sodium peroxometaborate	231-556-4	7632-04-4	2014/6/16
Cadmium chloride	233-296-7	10108-64-2	2014/6/16
Cadmium sulphide	215-147-8	1306-23-6	2013/12/16
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)	217-710-3	1937-37-7	2013/12/16
Dihexyl phthalate	201-559-5	84-75-3	2013/12/16
Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7	2013/12/16
Trixylyl phosphate	246-677-8	25155-23-1	2013/12/16
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphtha lene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	2013/12/16
Lead di(acetate)	206-104-4	301-04-2	2013/12/16
Cadmium	231-152-8	7440-43-9	2013/6/20
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	2013/6/20
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	2013/6/20
Dipentyl phthalate (DPP)	205-017-9	131-18-0	2013/6/20
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
Cadmium oxide	215-146-2	1306-19-0	2013/6/20

Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	2012/12/19
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	2012/12/19
Henicosfluoroundecanoic acid	218-165-4	2058-94-8	2012/12/19
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>	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	2012/12/19
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>	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	2012/12/19
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	2012/12/19
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	2012/12/19
Lead dinitrate	233-245-9	10099-74-8	2012/12/19
Silicic acid, lead salt	234-363-3	11120-22-2	2012/12/19
4-Aminoazobenzene	200-453-6	60-09-3	2012/12/19
Lead titanium zirconium oxide	235-727-4	12626-81-2	2012/12/19
Lead monoxide (lead oxide)	215-267-0	1317-36-8	2012/12/19
o-Toluidine	202-429-0	95-53-4	2012/12/19
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	2012/12/19
Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), 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>	272-271-5	68784-75-8	2012/12/19
Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	2012/12/19
Furan	203-727-3	110-00-9	2012/12/19
N,N-dimethylformamide	200-679-5	68-12-2	2012/12/19
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	-	2012/12/19
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
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	2012/12/19
Diethyl sulphate	200-589-6	64-67-5	2012/12/19
Dimethyl sulphate	201-058-1	77-78-1	2012/12/19
Lead oxide sulfate	234-853-7	12036-76-9	2012/12/19
Lead titanium trioxide	235-038-9	12060-00-3	2012/12/19
Acetic acid, lead salt, basic	257-175-3	51404-69-4	2012/12/19
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	2012/12/19
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5	2012/12/19

N-methylacetamide	201-182-6	79-16-3	2012/12/19
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	2012/12/19
1,2-Diethoxyethane	211-076-1	629-14-1	2012/12/19
Tetralead trioxide sulphate	235-380-9	12202-17-4	2012/12/19
N-pentyl-isopentylphthalate	-	776297-69-9	2012/12/19
Dioxobis(stearato)trilead	235-702-8	12578-12-0	2012/12/19
Tetraethyllead	201-075-4	78-00-2	2012/12/19
Pentalead tetraoxide sulphate	235-067-7	12065-90-6	2012/12/19
Pentacosfluorotridecanoic acid	276-745-2	72629-94-8	2012/12/19
Tricosfluorododecanoic acid	206-203-2	307-55-1	2012/12/19
Heptacosfluorotetradecanoic acid	206-803-4	376-06-7	2012/12/19
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	2012/12/19
Methoxyacetic acid	210-894-6	625-45-6	2012/12/19
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	2012/12/19
Methyloxirane (Propylene oxide)	200-879-2	75-56-9	2012/12/19
Trilead dioxide phosphonate	235-252-2	12141-20-7	2012/12/19
o-aminoazotoluene	202-591-2	97-56-3	2012/12/19
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	2012/12/19
4,4'-oxydianiline and its salts	202-977-0	101-80-4	2012/12/19
Orange lead (lead tetroxide)	215-235-6	1314-41-6	2012/12/19
Biphenyl-4-ylamine	202-177-1	92-67-1	2012/12/19
Diisopentylphthalate	210-088-4	605-50-5	2012/12/19
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	2012/12/19
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	2012/12/19
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	2012/12/19
Lead cyanamidate	244-073-9	20837-86-9	2012/12/19
$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) <i>[with <math>\geq 0.1\%</math> of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	229-851-8	6786-83-0	2012/6/18
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	2012/6/18
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-tri one ( $\beta$ -TGIC)	423-400-0	59653-74-6	2012/6/18
Diboron trioxide	215-125-8	1303-86-2	2012/6/18
1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	203-977-3	112-49-2	2012/6/18
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol <i>[with <math>\geq 0.1\%</math> of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	209-218-2	561-41-1	2012/6/18
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	2012/6/18
Formamide	200-842-0	75-12-7	2012/6/18
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethyla mmonium chloride (C.I. Basic Violet 3) <i>[with <math>\geq 0.1\%</math> of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]</i>	208-953-6	548-62-9	2012/6/18
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	2012/6/18

[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylenecyclohexa-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)]	219-943-6	2580-56-5	2012/6/18
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	2012/6/18
4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	202-027-5	90-94-8	2012/6/18
4-(1,1,3,3-tetramethylbutyl)phenol; 4-tert-octyl phenol	205-426-2	140-66-9	2011/12/19
N,N-dimethylacetamide	204-826-4	127-19-5	2011/12/19
Phenolphthalein	201-004-7	77-09-8	2011/12/19
Lead diazide; Lead azide	236-542-1	13424-46-9	2011/12/19
Lead dipicrate	229-335-2	6477-64-1	2011/12/19
1,2-Dichloroethane	203-458-1	107-06-2	2011/12/19
Calcium arsenate	231-904-5	7778-44-1	2011/12/19
Dichromium tris(chromate)	246-356-2	24613-89-6	2011/12/19
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	2011/12/19
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	2011/12/19
Arsenic acid	231-901-9	7778-39-4	2011/12/19
Potassium hydroxyoctaoxidizincatedichromate	234-329-8	11103-86-9	2011/12/19
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1	25214-70-4	2011/12/19
Lead styphnate	239-290-0	15245-44-0	2011/12/19
Trilead diarsenate; Lead(II) arsenate	222-979-5	3687-31-8	2011/12/19
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 ( $\mu\text{m}$ ). 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
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	2011/12/19
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 ( $\mu\text{m}$ ) 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
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	2011/12/19

2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	2011/12/19
Cobalt dichloride	231-589-4	7646-79-9	2011/06/20 - 2008/10/28
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	276-158-1	71888-89-6	2011/6/20
1,2-benzenedicarboxylic acid; di-C7-11-branched and linear alkyl esters (DHNUP)	271-084-6	68515-42-4	2011/6/20
Strontium chromate	232-142-6	7789-06-2	2011/6/20
1-methyl-2-pyrrolidone	212-828-1	872-50-4	2011/6/20
1,2,3-trichloropropane	202-486-1	96-18-4	2011/6/20
2-ethoxyethyl acetate	203-839-2	111-15-9	2011/6/20
Hydrazine	206-114-9	302-01-2, 7803-57-8	2011/6/20
Cobalt(II) diacetate	200-755-8	71-48-7	2010/12/15
Cobalt(II) sulphate	233-334-2	10124-43-3	2010/12/15
2-Ethoxyethanol	203-804-1	110-80-5	2010/12/15
Acids generated from chromium trioxide and their oligomers Group containing: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	231-801-5, 236-881-5	7738-94-5, 13530-68-2	2010/12/15
2-Methoxyethanol	203-713-7	109-86-4	2010/12/15
Chromium trioxide	215-607-8	1333-82-0	2010/12/15
Cobalt(II) carbonate	208-169-4	513-79-1	2010/12/15
Cobalt(II) dinitrate	233-402-1	10141-05-6	2010/12/15
Trichloroethylene	201-167-4	79-01-6	2010/6/18
Potassium dichromate	231-906-6	7778-50-9	2010/6/18
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	2010/6/18
Ammonium dichromate	232-143-1	7789-09-5	2010/6/18
Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	2010/6/18
Sodium chromate	231-889-5	7775-11-3	2010/6/18
Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	2010/6/18
Potassium chromate	232-140-5	7789-00-6	2010/6/18
Acrylamide	201-173-7	79-06-1	2010/3/30
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	2010/1/13
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	2010/1/13
Anthracene oil	292-602-7	90640-80-5	2010/1/13
2,4-Dinitrotoluene	204-450-0	121-14-2	2010/1/13
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	2010/1/13
Anthracene oil, anthracene-low	292-604-8	90640-82-7	2010/1/13
tris(2-chloroethyl)phosphate	204-118-5	115-96-8	2010/1/13
Diisobutyl phthalate (DIBP)	201-553-2	84-69-5	2010/1/13
Lead chromate	231-846-0	7758-97-6	2010/1/13
Anthracene oil, anthracene paste	292-603-2	90640-81-6	2010/1/13
Pitch, coal tar, high temp.	266-028-2	65996-93-2	2010/1/13
Anthracene oil, anthracene paste, distn. Lights	295-278-5	91995-17-4	2010/1/13
Lead hydrogen arsenate	232-064-2	7784-40-9	2008/10/28
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	2008/10/28



5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	2008/10/28
Diarsenic trioxide	215-481-4	1327-53-3	2008/10/28
Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	2008/10/28
Triethyl arsenate	427-700-2	15606-95-8	2008/10/28
Diarsenic pentaoxide	215-116-9	1303-28-2	2008/10/28
Sodium dichromate ,dihydrate	234-190-3	10588-01-9, 7789-12-0	2008/10/28
Dibutyl phthalate (DBP)	201-557-4	84-74-2	2008/10/28
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	2008/10/28
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	2008/10/28
Anthracene	204-371-1	120-12-7	2008/10/28
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ – HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	247-148-4 and 221-695-9	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	2008/10/28