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CERTIFICATE OF COMPLIANCE – REACH Declaration

No.	Section	Type	Rated Voltage(V)	Capacitance(F)
1	EDLC	Radial	2.3	3 - 360
2			2.7	3 - 50
3		Lug	2.3	120
4			2.7	90 - 400
5		N-Lug	2.7	325
6		Prismatic	2.7	600
7		Cylindrical	2.7	650 - 3000
8		Radial (Bent Lead)	2.7	3 - 25
9	Pseudo Cap	Radial	2.3	50 - 120
10		Lug	2.3	220 - 300
11	Module	Radial	5.0	1.5, 2.5

This letter is to assure that the above-mentioned product(s) made from the above-mentioned company **meet the requirements** of the REACH-SVHC (Substances of Very High Concern), as specified in the table below according to the Candidate list published by ECHA (European Chemical Agency).

No.	Chemical Substance	CAS No.	Concentration Threshold(PPM)	Date of inclusion
1	Anthracene	120-12-7	1000	2008.10.28
2	4,4'- Diaminodiphenylmethane	101-77-9	1000	2008.10.28
3	Dibutyl phthalate	84-74-2	1000	2008.10.28
4	Cobalt dichloride	7646-79-9	1000	2008.10.28
5	Diarsenic pentaoxide	1303-28-2	1000	2008.10.28
6	Diarsenic trioxide	1327-53-3	1000	2008.10.28
7	Sodium dichromate, dihydrate	7789-12-0, 10588-01-9	1000	2008.10.28
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	1000	2008.10.28
9	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	1000	2008.10.28
10	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	1000	2008.10.28

11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	1000	2008.10.28
12	Bis(tributyltin)oxide	56-35-9	1000	2008.10.28
13	Lead hydrogen arsenate	7784-40-9	1000	2008.10.28
14	Triethyl arsenate	15606-95-8	1000	2008.10.28
15	Benzyl butyl phthalate	85-68-7	1000	2008.10.28
16	Anthracene oil	90640-80-5	1000	2010.01.13
17	Anthracene oil, anthracene paste, distn. lights	91995-17-4	1000	2010.01.13
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	1000	2010.01.13
19	Anthracene oil, anthracene-low	90640-82-7	1000	2010.01.13
20	Anthracene oil, anthracene paste	90640-81-6	1000	2010.01.13
21	Coal tar pitch, high temperature	65996-93-2	1000	2010.01.13
22	2,4-Dinitrotoluene	121-14-2	1000	2010.01.13
23	Diisobutyl phthalate	84-69-5	1000	2010.01.13
24	Lead chromate	7758-97-6	1000	2010.01.13
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	1000	2010.01.13
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	1000	2010.01.13
27	Tris(2-chloroethyl)phosphate	115-96-8	1000	2010.01.13
28	Acrylamide	79-06-1	1000	2010.03.30
29	Trichloroethylene	79-01-6	1000	2010.06.18
30	Boric acid	10043-35-3 11113-50-1	1000	2010.06.18
31	Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3	1000	2010.06.18
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	1000	2010.06.18
33	Sodium chromate	7775-11-3	1000	2010.06.18
34	Potassium chromate	7789-00-6	1000	2010.06.18
35	Ammonium dichromate	7789-09-5	1000	2010.06.18
36	Potassium dichromate	7778-50-9	1000	2010.06.18
37	Cobalt(II) sulphate	10124-43-3	1000	2010.12.15
38	Cobalt(II) dinitrate	10141-05-6	1000	2010.12.15
39	Cobalt(II) carbonate	513-79-1	1000	2010.12.15
40	Cobalt(II) diacetate	71-48-7	1000	2010.12.15
41	2-Methoxyethanol	109-86-4	1000	2010.12.15
42	2-Ethoxyethanol	110-80-5	1000	2010.12.15
43	Chromium trioxide	1333-82-0	1000	2010.12.15
44	Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2	1000	2010.12.15
45	2-ethoxyethyl acetate	111-15-9	1000	2011.06.20
46	Strontium chromate	7789-06-2	1000	2011.06.20
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	1000	2011.06.20
48	Hydrazine	302-01-2 7803-57-8	1000	2011.06.20
49	1-methyl-2-pyrrolidone	872-50-4	1000	2011.06.20

50	1,2,3-trichloropropane	96-18-4	1000	2011.06.20
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	1000	2011.06.20
52	Lead styphnate	15245-44-0	1000	2011.12.19
53	Lead diazide, Lead azide	13424-46-9	1000	2011.12.19
54	Lead dipicrate	6477-64-1	1000	2011.12.19
55	Phenolphthalein	1977-09-08	1000	2011.12.19
56	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	1000	2011.12.19
57	N,N-dimethylacetamide	127-19-5	1000	2011.12.19
58	Trilead diarsenate	3687-31-8	1000	2011.12.19
59	Calcium arsenate	7778-44-1	1000	2011.12.19
60	Arsenic acid	7778-39-4	1000	2011.12.19
61	Bis(2-methoxyethyl) ether	111-96-6	1000	2011.12.19
62	1,2-dichloroethane	107-06-2	1000	2011.12.19
63	4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol	140-66-9	1000	2011.12.19
64	2-Methoxyaniline; o-Anisidine	90-04-0	1000	2011.12.19
65	Bis(2-methoxyethyl) phthalate	117-82-8	1000	2011.12.19
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	1000	2011.12.19
67	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	1000	2011.12.19
68	Aluminosilicate Refractory Ceramic Fibres	-	1000	2011.12.19
69	Pentazinc chromate octahydroxide	49663-84-5	1000	2011.12.19
70	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	1000	2011.12.19
71	Dichromium tris(chromate)	24613-89-6	1000	2011.12.19
72	[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	1000	2012.06.18
73	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	1000	2012.06.18
74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	1000	2012.06.18
75	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	1000	2012.06.18
76	Lead(II) bis(methanesulfonate)	17570-76-2	1000	2012.06.18
77	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	1000	2012.06.18
78	Diboron trioxide	1303-86-2	1000	2012.06.18
79	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	1000	2012.06.18

80	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	1000	2012.06.18
81	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	1000	2012.06.18
82	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	1000	2012.06.18
83	[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	1000	2012.06.18
84	Formamide	75-12-7	1000	2012.06.18
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	1000	2012.12.19
86	Pentacosafuorotridecanoic acid	72629-94-8	1000	2012.12.19
87	Tricosafuorododecanoic acid	307-55-1	1000	2012.12.19
88	Henicosafuoroundecanoic acid	2058-94-8	1000	2012.12.19
89	Heptacosafuorotetradecanoic acid	376-06-7	1000	2012.12.19
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	1000	2012.12.19
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	1000	2012.12.19
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	1000	2012.12.19
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]	-	1000	2012.12.19
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	1000	2012.12.19
95	Methoxyacetic acid	625-45-6	1000	2012.12.19
96	N,N-dimethylformamide	68-12-2	1000	2012.12.19
97	Dibutyltin dichloride (DBTC)	683-18-1	1000	2012.12.19
98	Lead monoxide (Lead oxide)	1317-36-8	1000	2012.12.19

99	Orange lead (Lead tetroxide)	1314-41-6	1000	2012.12.19
100	Lead bis(tetrafluoroborate)	13814-96-5	1000	2012.12.19
101	Trilead bis(carbonate)dihydroxide	1319-46-6	1000	2012.12.19
102	Lead titanium trioxide	12060-00-3	1000	2012.12.19
103	Lead titanium zirconium oxide	12626-81-2	1000	2012.12.19
104	Silicic acid, lead salt	11120-22-2	1000	2012.12.19
105	Silicic acid (H ₂ SiO 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	1000	2012.12.19
106	1-bromopropane (n-propyl bromide)	106-94-5	1000	2012.12.19
107	Methyloxirane (Propylene oxide)	75-56-9	1000	2012.12.19
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	1000	2012.12.19
109	Diisopentylphthalate (DIPP)	605-50-5	1000	2012.12.19
110	N-pentyl-isopentylphthalate	776297-69-9	1000	2012.12.19
111	1,2-diethoxyethane	629-14-1	1000	2012.12.19
112	Acetic acid, lead salt, basic	51404-69-4	1000	2012.12.19
113	Lead oxide sulfate	12036-76-9	1000	2012.12.19
114	[Phthalato(2-)]dioxotrilead	69011-06-9	1000	2012.12.19
115	Dioxobis(stearato)trilead	12578-12-0	1000	2012.12.19
116	Fatty acids, C16-18, lead salts	91031-62-8	1000	2012.12.19
117	Lead cyanamidate	20837-86-9	1000	2012.12.19
118	Lead dinitrate	10099-74-8	1000	2012.12.19
119	Pentalead tetraoxide sulphate	12065-90-6	1000	2012.12.19
120	Pyrochlore, antimony lead yellow	8012-00-8	1000	2012.12.19
121	Sulfurous acid, lead salt, dibasic	62229-08-7	1000	2012.12.19
122	Tetraethyllead	78-00-2	1000	2012.12.19
123	Tetralead trioxide sulphate	12202-17-4	1000	2012.12.19
124	Trilead dioxide phosphonate	12141-20-7	1000	2012.12.19
125	Furan	110-00-9	1000	2012.12.19
126	Diethyl sulphate	64-67-5	1000	2012.12.19
127	Dimethyl sulphate	77-78-1	1000	2012.12.19
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	1000	2012.12.19
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	1000	2012.12.19
130	4,4'-methylenedi-o-toluidine	838-88-0	1000	2012.12.19
131	4,4'-oxydianiline and its salts	101-80-4	1000	2012.12.19
132	4-aminoazobenzene	60-09-3	1000	2012.12.19
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	1000	2012.12.19
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	1000	2012.12.19

135	Biphenyl-4-ylamine	92-67-1	1000	2012.12.19
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	1000	2012.12.19
137	o-toluidine	95-53-4	1000	2012.12.19
138	N-methylacetamide	79-16-3	1000	2012.12.19
139	Cadmium	7440-43-9	1000	2013.06.20
140	Cadmium oxide	1306-19-0	1000	2013.06.20
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	1000	2013.06.20
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	1000	2013.06.20
143	Dipentyl phthalate (DPP)	131-18-0	1000	2013.06.20
144	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]	-	1000	2013.06.20
145	Cadmium sulphide	1306-23-6	1000	2013.12.16
146	Dihexyl phthalate	84-75-3	1000	2013.12.16
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. DirectRed 28)	573-58-0	1000	2013.12.16
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	1000	2013.12.16
149	Imidazolidine-2-thione;2-imidazoline-2-thiol	96-45-7	1000	2013.12.16
150	Lead di(acetate)	301-04-2	1000	2013.12.16
151	Trixylyl phosphate	25155-23-1	1000	2013.12.16
152	Cadmium chloride	233-296-7	1000	2014.06.16
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	1000	2014.06.16
154	Sodium peroxometaborate	231-556-4	1000	2014.06.16
155	Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	1000	2014.06.16
156	Cadmium fluoride	7790-79-6	1000	2014.12.17
157	Cadmium sulphate	10124-36-4; 31119-53-6	1000	2014.12.17
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	1000	2014.12.17
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	1000	2014.12.17
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	1000	2014.12.17
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)	-	1000	2014.12.17

162	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]	-	1000	2015.06.15
163	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	68515-51-5 68648-93-1	1000	2015.06.15
164	Nitrobenzene	98-95-3	1000	2015.12.17
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	1000	2015.12.17
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	1000	2015.12.17
167	1,3-propanesultone	1120-71-4	1000	2015.12.17
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	1000	2015.12.17
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	1000	2016.06.20
170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-07	1000	2017.01.12
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	1000	2017.01.12
172	p-(1,1-dimethylpropyl) phenol	80-46-6	1000	2017.01.12
173	4-heptylphenol, branched and linear (4-HPbl)	-	1000	2017.01.12
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	1000	2017.07.07
175	Benz[a]anthracene	56-55-3	1000	2018.01.15
176	Cadmium carbonate	513-78-0	1000	2018.01.15
177	Cadmium hydroxide	21041-95-2	1000	2018.01.15
178	Cadmium nitrate	10325-94-7	1000	2018.01.15
179	Chrysene	218-01-9	1000	2018.01.15

180	Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15- diene (Dechlorane Plus TM)	-	1000	2018.01.15
181	Reaction products of 1,3,4-thiadiazolidine- 2,5-dithione, formaldehyde and 4- heptylphenol, branched and linear (RP- HP)	-	1000	2018.01.15

Quality Management Team
Signature: Director In Goo Yoon  Date: 2018. 08. 08