

Micro Commercial Components Corp.

20736, Marilla Street Chatsworth, CA 91311 Tel: 818-701-4933 Fax: 818-701-4939 www.mccsemi.com

Certificate of REACH Compliance

Micro Commercial Components Corp. (MCC) is aware of REACH as a European Community regulation on chemicals. Currently MCC supports the underlying goals of REACH, which are consistent with our own commitment to promote the responsible manufacturing, use and handling of hazardous materials and substances.

After careful review of the legislation and specifically the definition of an “article” as defined in EC Regulation 1907/2006, Title II, Chapter 1, Article 7.1(a)(b), it is our current view MCC products would be considered as “articles”. In light of the definition in §7.1(b) which requires registration of an article only if it contains a regulated substance that “is intended to be released under normal or reasonably foreseeable conditions of use,” Our analysis is that MCC products constitute non-registrable articles for their intended and anticipated use.

Micro Commercial Components Corp. (MCC) hereby certifies that all plastic devices manufactured by MCC meet the substance restrictions specified in Annex XVII of Regulation (EC) No. 1907/2006 (REACH), do not contain substances on the REACH 173 SVHC candidate list in concentrations greater than 0.1% by weight per article(Pls refer below pages for detail SVHC list) .

Sincerely,
Micro Commercial Components

Mr. Jason Gao
Quality Director

Date: 2017/01/06

The First Batch of SVHC List (Published on Oct 28,2008,total 15)

Item	SVHC	CAS
1	4,4-Diaminodiphenylmethane	101-77-9
2	5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2
3	Alkane, C10-13, chloro (Short Chain Chlorinated Pafaffins)	85535-84-8
4	Anthracene	120-12-7
5	Diarsenic pentaoxide	1303-28-2
6	Diarsenic trioxide	1327-53-3
7	Bis(2-ethylhexyphthalate)(DEHP)	117-81-7
8	Bis(tributyltin)oxide	56-35-9
9	Benzyl butyl phthalate(BBP)	85-68-7
10	Cobalt dichloride	7646-79-9
11	Dibutyl phthalate(DBP)	84-74-2
12	Hexabromocyclododecane(HBCDD) and all major diastereoispmers Identified(α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4 and 3194-55-6
13	Lead hydrogen arsenate	7784-40-9
14	Sodium dicromate	7789-12-0 10588-01-9
15	Triethyl arsenate	15606-95-8

The Second Batch of SVHC List (Published on Jan 13,2010,total 13)

Item	SVHC	CAS
16	Anthracene oil	90640-80-5
17	Anthracene oil, anthracene paste,distn. Lights	91995-17-4
18	Anthracene oil, anthracene paste,anthracene fraction	91995-15-2
19	Anthracene oil, anthracene-low	90640-82-7
20	Anthracene oil, anthracene paste	90640-81-6
21	Coal tar pitch, high temperature	65996-93-2
22	Tris(2-chloroethyl)phosphate	115-96-8
23	2,4-Dinitrotoluene	121-14-2
24	Diisobutyl phthalate	84-69-5
25	Lead Chromate Molybdate Sulfate red(C.I Pigment Red 104)	12656-85-8
26	Lead Sulfochromate yellow(C.I.Pigment Yellow 34)	1344-37-2
27	Lead Chromate	7758-97-6
28	Acrylamide	79-06-01



Micro Commercial Components[®]

The Third Batch of SVHC List (Published on June 18,2010,total 8)

Item	SVHC	CAS
29	Trichloroethylene	79-01-6
30	Boric acid	10043-35-3 11113-50-1
31	Disodium tetraborate, anhydrou	1330-43-4
32	Tetraboron disodium heptaoxide hydrate	12267-73-1
33	Sodium chromate	7775-11-3
34	Potassium chromate	7789-00-6
35	Ammonium dichromate	7789-09-5
36	Potassium dichromate	7778-50-9

The Four Batch of SVHC List (Published on December 15,2010,total 8)

Item	SVHC	CAS
37	Carbalt(II) sulphate	10124-43-3
38	Carbalt(II) dinitrate	10141-05-6
39	Cobalt(II) carbonate	513-79-1
40	Carbalt(II) diacetate	71-48-7
41	2-Methoxyethanol	109-86-4
42	2-Ethoxyethanol	110-80-5
43	Chromium trioxide	1333-82-0
44	Chromic acid Oligomers of chromic acid and dichromic acid, Dichromic acid	7738-94-5 13530-68-2

The Five Batch of SVHC List (Published on June 20,2011,total 7)

Item	SVHC	CAS
45	2-Ethoxyethyl acetate	111-15-9
46	Strontium chromate	7789-6-2
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)	68515-42-4
48	Hydrazine	302-01-2 7803-57-8
49	1-methyl-2-pyrrolidone	872-50-4
50	1,2,3-Trichloropropane	96-18-4
51	1,2-Benzenedicarboxylic acid,di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6



Micro Commercial Components[®]

The Six Batch of SVHC List (Published on December 19,2011,total 20)

Item	SVHC	CAS
52	Dichromium tris(chromate)	24613-89-6
53	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9
54	Pentazinc chromate octahydroxide	49663-84-5
55	Aluminosilicate Refractory Ceramic Fibres (RCF)	-
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	-
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4
58	Bis(2-methoxyethyl) phthalate	117-82-8
59	2-Methoxyaniline o-Anisidine	90-04-0
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9
61	1,2-Dichloroethane	107-06-2
62	Bis(2-methoxyethyl) ether	111-96-6
63	Arsenic acid	7778-39-4
64	Calcium arsenate	7778-44-1
65	Trilead diarsenate	3687-31-8
66	N,N-dimethylacetamide(DMAC)	127-19-5
67	2,2'-dichloro-4,4'-methylenedianiline(MOCA)	101-14-4
68	Phenolphthalein	77-09-8
69	Lead azide Lead diazide	13424-46-9
70	Lead styphnate	15245-44-0
71	Lead dipicrate	6477-64-1

The Seventh Batch of SVHC List (Published on June 18,2012,total 13)

Item	SVHC	CAS
72	1,2-bis(2-methoxyethoxy)ethane(TEGDME;triglyme)	112-49-2
73	1,2-dimethoxyethane;ethylene glycol dimethyl ether(EGDME)	110-71-4
74	Diboron trioxide(Note:Except Glass Package Products)	1303-86-2
75	Formamide	75-12-7
76	Lead(II) bis(methanesulfonate)	17570-76-2
77	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (T IC)	2451-62-9
78	β -TGIC(1,3,5-tris(2S and 2R)-2,3-epoxypropyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6

The Seventh Batch of SVHC List (Published on June 18,2012,total 13)

Item	SVHC	CAS
79	4,4'-bis(dimethylamino)benzophenone(Michler's ketone)	90-94-8
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline(Michler's base)	101-61-1
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride	2580-56-5
82	[4-4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,t-dien-1 -ylidene]dimethylammonium	548-62-9
83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1
84	α, α	6786-83-0

The Eighth Batch of SVHC List (Published on December 19,2012,total 54)

Item	SVHC	CAS
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5
86	Pentacosafuorotridecanoic acid	72629-94-8
87	Tricosafuorododecanoic acid	307-55-1
88	Henicosafuoroundecanoic acid	2058-94-8
89	Heptacosafuorotetradecanoic acid	376-06-7
90	C,C'-azodi(formamide)	123-77-3
91	Cyclohexane-1,2-dicarboxylic anhydride	85-42-7 13149-00-3 14166-21-3
92	Hexahydromethylphthalic anhydride Hexahydro-4-methylphthalic anhydride Hexahydro-1-methylphthalic anhydride Hexahydro-3-methylphthalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9
93	4-Nonylphenol, branched and linear	-
94	4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated	-
95	Methoxyacetic acid	625-45-6
96	N,N-dimethylformamide	68-12-2
97	Dibutyltin dichloride	683-18-1
98	Lead monoxide(Note:Except Glass Package Products)	1317-36-8
99	Lead tetroxide	1314-41-6
100	Lead bis(tetrafluoroborate)	13814-96-5

The Eighth Batch of SVHC List (Published on December 19,2012,total 54)

Item	SVHC	CAS
101	Trilead bis(carbonate)dihydroxide	1319-46-6
102	Lead titanium trioxide	12060-00-3
103	Lead Titanium Zirconium Oxide	12626-81-2
104	Silicic acid, lead salt	11120-22-2
105	Silicic acid, barium salt, lead-doped	68784-75-8
106	1-Bromopropane	106-94-5
107	Propylene oxide	75-56-9
108	1,2-Benzenedicarboxylic acid,dipentylester, branched and linear	84777-06-0
109	Diisopentylphthalate (DIPP)	605-50-5
110	N-pentyl-isopentylphthalate	776297-69-9
111	1,2-Diethoxyethane	629-14-1
112	Acetic acid, lead salt, basic	51404-69-4
113	Lead oxide sulphate	12036-76-9
114	[Phthalato(2-)]dioxotrilead	69011-06-9
115	Dioxobis(stearato)trilead	12578-12-0
116	Fatty acids, C16-18, lead salts	91031-62-8
117	Lead cyanamidate	20837-86-9
118	Lead dinitrate	10099-74-8
119	Pentalead tetraoxide sulphate	12065-90-6
120	Pyrochlore, antimony lead yellow	8012-00-8
121	Sulfurous acid, lead salt, dibasic	62229-08-7
122	Tetraethyllead	78-00-2
123	Tetralead trioxide sulphate	12202-17-4
124	Trilead dioxide phosphonate	12141-20-7
125	Furan	110-00-9
126	Diethyl sulphate	64-67-5
127	Dimethyl sulphate	77-78-1

The Eighth Batch of SVHC List (Published on December 19,2012,total 54)

Item	SVHC	CAS
128	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
129	6-sec-butyl-2,4-dinitrophenol	88-85-7
130	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0
131	4,4'-oxydianiline and its salts	101-80-4
132	4-aminoazobenzene	60-09-3
133	4-methl- <i>m</i> -phenylenediamine(toluene-2,4-diamine)	95-80-7
134	6-methoxy- <i>m</i> -toluidine(<i>p</i> -cresidine)	120-71-8
135	Biphenyl-4-ylamine	92-67-1
136	<i>o</i> -aminoazotoluene	97-56-3
137	<i>o</i> -toluidine	95-53-4
138	N-methylacetamide	79-16-3

The Ninth Batch of SVHC List ((Published on June 20,2013,total 6)

Item	SVHC	CAS
139	Cadmium	7440-43-9
140	Cadmium oxide	1306-19-0
141	mmonium pentadecafluorooctanoate(P)	3825-26-1
142	Pentadecafluorooctanoic acid(P)	335-67-1
143	Dipentyl phthalate(DPP)	131-18-0
144	4-Nonylphenol,branched and linear,ethoxylated	-

The Tenth Batch of SVHC List ((Published on December 16,2013,total 7)

Item	SVHC	CAS
145	Cadmium sulphide	1306-23-6
146	Dihexyl phthalate	84-75-3
147	3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28)	573-58-0
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo]][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)aphthalene-2,7-disulphonate(C.I. Direct Black 38)	1937-37-7
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7
150	Lead di(acetate)	301-04-2
151	Trixylyl phosphate	25155-23-1



Micro Commercial Components®

List of The Eleventh Batch of SVHC((Published on June 16,2014,total 4)

Item	SVHC	CAS
152	Cadmium chloride	10108-64-2
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
154	odium peroxometaborate	7632-04-4
155	odium perborate; perboric acid, sodium salt	-

List of The Twelfth Batch of SVHC((Published on December 17,2014,total 6)

Item	SVHC	CAS
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7
157	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol(UV-328)	25973-55-1
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate(D T)	15571-58-1
159	Cadmium fluoride	7790-79-6
160	Cadmium sulphate	10124-36-4 31119-53-6
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 D T and T)	-

List of The Thirteenth Batch of SVHC((Published on June 15,2015,total 2)

Item	SVHC	CAS
162	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 (C No. 201-559-5)	68515-51-5 68648-93-1
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]	-



Micro Commercial Components[®]

List of The Fourteenth Batch of SVHC((Published on December 17,2015,total 5)

Item	SVHC	CAS
164	1,3-propanesultone	1120-71-4
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol(UV-327)	3864-99-1
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol(UV-350)	36437-37-3
167	Nitrobenzene	98-95-3
168	Perfluorononan-1-oic acid	375-95-1 21049-39-8 4149-60-4

List of The Fifteenth Batch of SVHC((Published on June 20,2016,total 1)

Item	SVHC	CAS
169	Benzo[def]chrysene(Be nzo[a]pyrene)	50-32-8

List of The Sixteenth Batch of SVHC((Published on December 19,2016,total 4)

Item	SVHC	CAS
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7
171	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]	-
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3
173	p-(1,1-dimethylpropyl)phenol	80-46-6