

US Circuit Inc. Printed Circuit Boards

REACH SVHC List		Original List Dated 10/28/2008		Chemicals Present		
	Chemical	CAS number	EC number	Yes	No	Amount
1	Anthracene	120-12-7	204-371-1		X	
2	4,4'-Diaminodiphenylmethane, also 4,4'-Methylenedianiline	101-77-9	202-974-4		X	
3	Dibutyl Phthalate, also n-Dibutyl Phthalate	84-74-2	201-557-4		X	
4	Diarsenic Pentaoxide, also Arsenic Pentoxide	1303-28-2	215-116-9		X	
5	Diarsenic Trioxide, also Arsenic Trioxide	1327-53-3	215-481-4		X	
6	Sodium Dichromate	10588-01-9, 7789-12-0	234-190-3		X	
7	5-tert-butyl-2,4,6-trinitro-m-xylene, also Musk Xylene	81-15-2	201-329-4		X	
8	Bis(2-ethylhexyl)phthalate, also Dioctyl Phthalate	117-81-7	204-211-0		X	
9	Hexabromocyclododecane, also major diastereoisomers	134237-50-6, -51-7, -52-8	247-148-4, 221-695-9		X	
10	Alkanes, C10 -13, short chain chlorinated paraffins	various	287-476-5		X	
11	Bis(tributyltin) Oxide	56-35-9	200-268-0		X	
12	Lead Hydrogen Arsenate	7784-40-9	232-064-2		X	
13	Benzyl Butyl Phthalate	85-68-7	201-622-7		X	
14	Triethyl Arsenate	15606-95-8	427-700-2		X	
REACH SVHC List		Additional List Dated 1/13/2010		Chemicals Present		
	Chemical	CAS number	EC number	Yes	No	Amount
15	2,4-Dinitrotoluene	121-14-2	204-450-0		X	
16	Anthracene oil	90640-80-5	292-602-7		X	
17	Anthracene oil, Anthracene paste	90640-81-6	292-603-2		X	
18	Anthracene oil, Anthracene paste, Anthracene fraction	91995-15-2	295-275-9		X	
19	Anthracene oil, Anthracene paste, Anthracene distn. lights	91995-17-4	295-278-5		X	
20	Anthracene oil, Anthracene-low	90640-82-7	292-604-8		X	
21	Diisobutyl Phthalate	84-69-5	201-557-4		X	
22	Lead Chromate	7758-97-6	231-846-0		X	
23	Lead Chromate Molybdate Sulphate Red (red 104)	12656-85-8	235-759-9		X	
24	Lead Sulfochromate Yellow (yellow 34)	1344-37-2	215-693-7		X	
25	Pitch, Coal Tar, high temperature	65996-93-2	266-028-2		X	
26	Tris (2-chloroethyl) phosphate	115-98-8	204-118-5		X	
REACH SVHC List		Additional List Dated 6/18/2010		Chemicals Present		
	Chemical	CAS number	EC number	Yes	No	Amount
27	Potassium chromate	7789-00-6	232-140-5		X	
REACH SVHC List		Additional List Dated 6/18/2010		Chemicals Present		
	Chemical	CAS number	EC number	Yes	No	Amount
28	Trichloroethylene	79-01-6	201-167-4		X	
29	Boric acid	10043-35-3 / 11113-50-1	233-139-2 / 234-343-4		X	
30	Disodium tetraborate, anhydrous	1330-43-4 / 12179-04-3 / 1303-96-4	215-540-4		X	
31	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3		X	
32	Sodium chromate	7775-11-3	231-889-5		X	
33	Potassium chromate	7789-00-6	232-140-5		X	
34	Ammonium dichromate	7789-09-5	232-143-1		X	
35	Potassium dichromate	7778-50-9	231-906-6		X	
REACH SVHC List		Additional List Dated 12/15/2010		Chemicals Present		
	Chemical	CAS number	EC number	Yes	No	Amount
36	Cobalt(II) sulphate	10124-43-3	233-334-2		X	
37	Cobalt(II) dinitrate	10141-05-6	233-402-1		X	
38	Cobalt(II) carbonate	513-79-1	208-169-4		X	
39	Cobalt(II) diacetate	71-48-7	200-755-8		X	
40	2-Methoxyethanol	109-86-4	203-713-7		X	
41	2-Ethoxyethanol	110-80-5	203-804-1		X	
42	Chromium trioxide	1333-82-0	215-607-8		X	
43	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	7738-94-5, 13530-68-2	231-801-5, 236-881-5		X	

REACH SVHC List

Additional List Dated 6/20/2011

Chemicals Present

	Chemical	CAS number	EC number	Yes	No	Amount
44	Cobalt Dichloride	7646-79-9	231-589-4		X	
45	Strontium chromate	7789-06-2	232-142-6		X	
46	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6		X	
47	1,2,3-Trichloropropane	96-18-4	202-486-1		X	
48	2-Ethoxyethyl acetate	111-15-9	203-839-2		X	
49	1-Methyl-2-pyrrolidone	872-50-4	212-828-1		X	
50	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1		X	
51	Hydrazine	302-01-2, 7803-57-8	206-114-9		X	

REACH SVHC List

Additional List Dated 12/19/2011

Chemicals Present

	Chemical	CAS number	EC number	Yes	No	Amount
52	Dichromium tris(chromate)	24613-89-6	246-356-2		X	
53	Potassium hydroxyoctaoxidizincatedichromate	11103-86-9	234-329-8		X	
54	pentazinc chromate octahydroxide	49663-84-5	256-4180-0		X	
55	Zirconia Alumino-silicate Refractory Ceramic fibers (Zr-RCF) are fibres covered by index number 650-017-00-8 in Annex VI, part3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, and fulfill the three following conditions: a) oxides of aluminum, 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 micrometers (um). c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight	-	-		X	
56	Formaldehyde, oligomeric reaction products with aniline	214-70-4	500-036-1		X	
57	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6		X	
58	2-Methoxyaniline:o-Anisidine	90-04-0	201-963-1		X	
59	4-(1,1,3,3-tetramethylbutyl)phenol, 4-tert-Qctylphenol)	140-66-9	205-426-2		X	
60	1,2-Dichloroethane	107-06-2	203-458-1		X	
61	Bis(2-methoxyethyl) ether	111-96-6	203-924-4		X	
62	Arsenic acid	7778-39-4	231-901-9		X	
63	Calcium arsenate	7778-44-1	231-904-5		X	
64	Trilead diarsenate	3687-31-8	222-979-5		X	
65	N,N-dimethylacetamide	127-19-5	204-826-4		X	
66	Phenolphthalein	77-09-8	201-004-7		X	
67	2,2"-dichloro-4,4"- methylenedianiline (MOCA)	101-14-4	202-918-9		X	
68	Lead azide Lead diazide	13424-46-9	236-542-1		X	
69	Lead styphnate	15245-44-0	239-290-0		X	
70	Lead dipicrate	6477-64-1	229-335-2		X	

REACH SVHC List

Additional List Dated 6/18/2012

Chemicals Present

	Chemical	CAS number	EC number	Yes	No	Amount
71	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride	548-62-9	208-953-6		X	
72	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	423-400-0		X	
73	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3		X	
74	4,4'-bis(dimethylamino)-4"--(methylamino)trityl alcohol	561-41-1	209-218-2		X	
75	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5		X	
76	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9		X	
77	Diboron trioxide	1303-86-2	215-125-8		X	
78	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol	6786-83-0	229-851-8		X	
79	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3		X	
80	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5		X	
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2		X	
82	Formamide	75-12-7	200-842-0		X	
83	[4-[[4-amino-1-naphthyl]]4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chlorideketone	2580-56-5	219-943-6		X	

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Additional List Dated 12/19/2012

Chemicals Present

	Chemical	CAS number	EC number	Yes	No	Amount
84	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, 60-9, 1, 19438-48122-14-57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1		X	
85	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1		X	
86	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, 21-3	201-604-9, 236-086-3, 238-009-9		X	
87	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1		X	
88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4		X	
89	4-Aminoazobenzene	60-09-3	200-453-6		X	
90	Silicic acid, lead salt	11120-22-2	234-363-3		X	
91	Lead titanium zirconium oxide	12626-81-2	235-727-4		X	
92	Lead monoxide (lead oxide)	1317-36-8	215-267-0		X	
93	o-Toluidine	95-53-4	202-429-0		X	
94	3-ethyl-2-methyl-2-(3-methylbutyl)1,3-oxazolidine	143860-04-2	421-150-7		X	
95	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0		X	
96	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0		X	
97	Lead dinitrate	10099-74-8	233-245-9		X	
98	Silicic acid (H ₂ Si ₂ O 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	272-271-5		X	
99	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6		X	
100	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8		X	
101	Diethyl sulphate	64-67-5	200-589-6		X	
102	Dimethyl sulphate	77-78-1	201-058-1		X	
103	N,N-dimethylformamide	68-12-2	200-679-5		X	
104	4-(1,1,3,3-tetramethylbutyl)phenol,ethoxykated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-		X	
105	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number 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]	-	-		X	
106	Furan	110-00-9	203-727-3		X	
107	Lead oxide sulfate	12036-76-9	234-853-7		X	
108	Lead titanium trioxide	12060-00-3	235-038-9		X	
109	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9		X	
110	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7		X	
111	1,2-Diethoxyethane	629-14-1	211-076-1		X	
112	N-methylacetamide	79-16-3	201-182-6		X	
113	Tetralead trioxide sulphate	12202-17-4	235-380-9		X	
114	Acetic acid, lead salt, basic	51404-69-4	257-175-3		X	
115	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5		X	
116	Tetraethyllead	78-00-2	201-075-4		X	
117	N-pentyl-isopentylphthalate	776297-69-9	-		X	
118	Pentalead tetraoxide sulphate	12065-90-6	235-067-7		X	
119	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4		X	
120	Tricosafuorododecanoic acid	307-55-1	206-203-2		X	
121	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0		X	
122	Dioxobis(stearato)trilead	12578-12-0	235-702-8		X	
123	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2		X	
124	Methoxyacetic acid	625-45-6	210-894-6		X	
125	Methyloxirane (Propylene oxide)	75-56-9	210-894-6		X	
126	Trilead dioxide phosphonate	12141-20-7	235-252-2		X	

127	o-aminoazotoluene	97-56-3	202-591-2		X	
128	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1		X	
129	Diisopentylphthalate	605-50-5	210-088-4		X	
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2		X	
131	Biphenyl-4-ylamine	92-67-1	202-177-1		X	
132	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7		X	
133	Orange lead (lead tetroxide)	1314-41-6	215-235-6		X	
134	4,4'-oxydianiline and its salts	101-80-4	202-977-0		X	
135	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8		X	
136	Sulfurous acid, lead salt,dibasic	62229-08-7	263-467-1		X	
137	Lead cyanamidate	20837-86-9	244-073-9		X	

REACH SVHC List

Additional List Dated 06/20/2013

Chemicals Present

	Chemical	CAS number	EC number	Yes	No	Amount
138	Cadmium	7440-43-9	231-152-8		X	
139	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	-	-		X	
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4		X	
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9		X	
142	Dipentyl phthalate (DPP)	131-18-0	205-017-9		X	
143	Cadmium oxide	1306-19-0	215-146-2		X	

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Additional List Dated 12/16/2013

Chemicals Present

	Chemical	CAS number	EC number	Yes	No	Amount
144	Cadmium sulphide	1306-23-6	215-147-8		X	
145	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	217-710-3		X	
146	Dihexyl phthalate	84-75-3	201-559-5		X	
147	Imidazolidine-2-thione;(2-imidazoline-2-thiol)	96-45-7	202-506-9		X	
148	Triethyl phosphate	25155-23-1	246-677-8		X	
149	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28)	573-58-0	209-358-4		X	
150	Lead di(acetate)	301-04-2	206-104-4		X	

REACH SVHC List

Additional List Dated 07/16/14

Chemicals Present

	Chemical	CAS number	EC number	Yes	No	Amount
151	Cadmium Chloride	10108-64-2	233-296-7		X	
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5		X	
153	Sodium peroxometaborate	4/4/7632	231-556-4		X	
154	Sodium perborate; perboric acid, sodium salt		239-172-9;234-390-0		X	

REACH SVHC List

Additional List Dated 12/17/14

Chemicals Present

	Chemical	CAS number	EC number	Yes	No	Amount
155	Bis (2-ethylhexyl)phthalate (DEHP) (see 10/28/08)(Line item 8)	117-81-7	204-211-0		X	
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8		X	
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6		X	
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4		X	
159	Cadmium fluoride	7790-79-6	232-222-0		X	
160	Cadmium sulphate	101-24-36-4; 31119-53-6	233-331-6		X	
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 mass-DOTE and MOTE)	-	-		X	

REACH SVHC List

Additional List Dated 06/15/15

Chemicals Present

	Chemical	CAS number	EC number	Yes	No	Amount
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl	68515-51-5	271-094-0 272-013-1		X	

162	and hexyl and octyl diester with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68648-93-1	272-013-1		x	
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 stereoisomers of [1] and [2] or any combination thereof]	-	-		x	

REACH SVHC List		Additional List Dated 12/17/15		Chemicals Present		
Chemical	CAS number	EC number	Yes	No	Amount	
164	Perfluorooctanoic acid and its sodium and ammonium salts salts of perfluorooctanoic acid EC no. - I CAS.: -, 4149-60-4 a) Ammonium b) Perfluorooctanoic acid EC no.: 206-801-3 I CAS no.: 375-95-1 c) Sodium salts of perfluorooctanoic acid EC.: - I CAS no.: -, 21049-39-8	375-95-1 21049-39-8 4149-60-4	206-801-3		x	
165	Nitrobenzene	98-95-3	202-176-0		x	
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1		x	
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	22-383-8		x	
168	1,3-propanesultone	1120-71-4	214-317-9		x	

REACH SVHC List		Additional List Dated 6/20/16		Chemicals Present		
Chemical	CAS number	EC number	Yes	No	Amount	
169	Benzo [def] chrysene	50-32-8	200-028-5		x	

REACH SVHC List		Additional List Dated 1/12/17		Chemicals Present		
Chemical	CAS number	EC number	Yes	No	Amount	
170	4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	80-05-7		x	
171	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3	335-76-2		x	
172	4-heptylphenol, branched and linear (4-HPbl)	-	-		x	
173	p-(1,1-dimethylpropyl)phenol (PTAP)	201-280-9	80-46-6		x	

To the best of our knowledge and based on the input from our material suppliers, the chemicals listed above are not present in the printed circuit boards manufactured at U.S Circuit Inc.

Dillip Dewagen
Signature

1/12/2017
Date