

Sept 3, 2014

Certificate of Compliance REACH 155, RoHS2 and Halogen-Free

Manufacturing Part Number: PEX8111/PEX8112/PEX8114/PEX8311
PEX8505/PEX8508/PEX8509/PEX8512/PEX8516/PEX8517
PEX8518/PEX8524/PEX8525/PEX8532/PEX8533/PEX8547/PEX8548

REACH COMPLIANCE:

PLX Technology has requested information from suppliers concerning the **Substances of Very High Concern (SVHC)** listed in Table 1 as published on 6/16/2014. As a 100% fabless semiconductor company, PLX Technology secures the information from its suppliers that have responsibility for the manufacture of the products. It is to the best of our knowledge that this data is true and accurate as of this writing.

Based on the information provided by suppliers, PLX products mentioned above do not contain Substances of Very High Concern at or above 0.1% by weight (1000 ppm) of the whole product except if noted in the Table 1 below: See link <http://www.echa.europa.eu/web/guest/candidate-list-table>

Table 1. ECHA REACH Candidate List as updated on 6/16/2014

SN	Date of inclusion	Substance name	EC number	CAS number	SVHC Present? (Yes/No)
1	2014/06/16	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	No
2	2014/06/16	Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-	No
3	2014/06/16	Sodium peroxometaborate	231-556-4	4/4/7632	No
4	2014/06/16	Cadmium chloride	233-296-7	10108-64-2	No
5	2013/12/16	Cadmium sulphide	215-147-8	1306-23-6	No
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	No
7	2013/12/16	Dihexyl phthalate	201-559-5	84-75-3	No
8	2013/12/16	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	202-506-9	96-45-7	No
9	2013/12/16	Trixylyl phosphate	246-677-8	25155-23-1	No
10	2013/12/16	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	No
11	2013/12/16	Lead di(acetate)	206-104-4	301-04-2	No
12	2013/06/20	Cadmium	231-152-8	7440-43-9	No

13	2013/06/20	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	No
14	2013/06/20	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	No
15	2013/06/20	Dipentyl phthalate (DPP)	205-017-9	131-18-0	No
16	2013/06/20	4-Nonylphenol, branched and linear, ethoxylated [substances with alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB]	----	----	No
17	2013/06/20	Cadmium oxide	215-146-2	1306-19-0	No
18	2012/12/19	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	No
19	2012/12/19	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	No
20	2012/12/19	Henicosafuoroundecanoic acid	218-165-4	2058-94-8	No
21	2012/12/19	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4]	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	No
22	2012/12/19	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3]	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	No
23	2012/12/19	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	No
24	2012/12/19	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	No
25	2012/12/19	Lead dinitrate	233-245-9	10099-74-8	No
26	2012/12/19	Silicic acid, lead salt	234-363-3	11120-22-2	No
27	2012/12/19	4-Aminoazobenzene	200-453-6	60-09-3	No
28	2012/12/19	Lead titanium zirconium oxide	235-727-4	12626-81-2	No
29	2012/12/19	Lead monoxide (lead oxide)	215-267-0	1317-36-8	No
30	2012/12/19	o-Toluidine	202-429-0	95-53-4	No
31	2012/12/19	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	No
32	2012/12/19	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)]	272-271-5	68784-75-8	No
33	2012/12/19	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	No
34	2012/12/19	Furan	203-727-3	110-00-9	No
35	2012/12/19	N,N-dimethylformamide	200-679-5	68-12-2	No
36	2012/12/19	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	No
37	2012/12/19	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]	-	-	No
38	2012/12/19	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	No
39	2012/12/19	Diethyl sulphate	200-589-6	64-67-5	No
40	2012/12/19	Dimethyl sulphate	201-058-1	77-78-1	No

41	2012/12/19	Lead oxide sulfate	234-853-7	12036-76-9	No
42	2012/12/19	Lead titanium trioxide	235-038-9	12060-00-3	No
43	2012/12/19	Acetic acid, lead salt, basic	257-175-3	51404-69-4	No
44	2012/12/19	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	No
45	2012/12/19	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5	No
46	2012/12/19	N-methylacetamide	201-182-6	79-16-3	No
47	2012/12/19	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	No
48	2012/12/19	1,2-Diethoxyethane	211-076-1	629-14-1	No
49	2012/12/19	Tetralead trioxide sulphate	235-380-9	12202-17-4	No
50	2012/12/19	N-pentyl-isopentylphthalate	-	776297-69-9	No
51	2012/12/19	Dioxobis(stearato)trilead	235-702-8	12578-12-0	No
52	2012/12/19	Tetraethyllead	201-075-4	78-00-2	No
53	2012/12/19	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	No
54	2012/12/19	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	No
55	2012/12/19	Tricosafuorododecanoic acid	206-203-2	307-55-1	No
56	2012/12/19	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	No
57	2012/12/19	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	No
58	2012/12/19	Methoxyacetic acid	210-894-6	625-45-6	No
59	2012/12/19	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	No
60	2012/12/19	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	No
61	2012/12/19	Trilead dioxide phosphonate	235-252-2	12141-20-7	No
62	2012/12/19	o-aminoazotoluene	202-591-2	97-56-3	No
63	2012/12/19	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	No
64	2012/12/19	4,4'-oxydianiline and its salts	202-977-0	101-80-4	No
65	2012/12/19	Orange lead (lead tetroxide)	215-235-6	1314-41-6	No
66	2012/12/19	Biphenyl-4-ylamine	202-177-1	92-67-1	No
67	2012/12/19	Diisopentylphthalate	210-088-4	605-50-5	No
68	2012/12/19	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	No
69	2012/12/19	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	No
70	2012/12/19	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	No
71	2012/12/19	Lead cyanamidate	244-073-9	20837-86-9	No
72	2012/06/18	4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	208-953-6	548-62-9	No
73	2012/06/18	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	No
74	2012/06/18	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	No
75	2012/06/18	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-218-2	561-41-1	No

76	2012/06/18	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	No
77	2012/06/18	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	No
78	2012/06/18	Diboron trioxide	215-125-8	1303-86-2	No
79	2012/06/18	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0	No
80	2012/06/18	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	No
81	2012/06/18	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	No
82	2012/06/18	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	No
83	2012/06/18	[4-[[4-anilino-1-naphthyl]]4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5	No
84	2012/06/18	Formamide	200-842-0	75-12-7	No
85	2011/12/19	Zirconia Aluminosilicate Refractory Ceramic Fibres	(650-017-00-8)		No
86	2011/12/19	Calcium arsenate	231-904-5	7778-44-1	No
87	2011/12/19	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	No
88	2011/12/19	Aluminosilicate Refractory Ceramic Fibres	(650-017-00-8)		No
89	2011/12/19	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	No
90	2011/12/19	Lead dipicrate	229-335-2	6477-64-1	No
91	2011/12/19	N,N-dimethylacetamide	204-826-4	127-19-5	No
92	2011/12/19	Arsenic acid	231-901-9	7778-39-4	No
93	2011/12/19	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	No
94	2011/12/19	Trilead diarsenate	222-979-5	3687-31-8	No
95	2011/12/19	1,2-dichloroethane	203-458-1	107-06-2	No
96	2011/12/19	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	No
97	2011/12/19	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	No
98	2011/12/19	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	No
99	2011/12/19	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	No
100	2011/12/19	Lead diazide, Lead azide	236-542-1	13424-46-9	No
101	2011/12/19	Lead styphnate	239-290-0	15245-44-0	No
102	2011/12/19	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	No
103	2011/12/19	Phenolphthalein	201-004-7	77-09-8	No
104	2011/12/19	Dichromium tris(chromate)	246-356-2	24613-89-6	No
105	20/06/2011	Cobalt dichloride	231-589-4	7646-79-9	No
106	20/06/2011	1,2,3-Trichloropropane	202-486-1	96-18-4	No

107	20/06/2011	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	No
108	20/06/2011	1-Methyl-2-pyrrolidone	212-828-1	872-50-4	No
109	20/06/2011	Hydrazine	206-114-9	302-01-2; 7803-57-8	No
110	20/06/2011	Strontium chromate	232-142-6		No
111	20/06/2011	2-Ethoxyethyl acetate	203-839-2	111-15-9	No
112	20/06/2011	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	No
113	2010/12/15	Chromic acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	231-801-5; 236-881-5	7738-94-5; 13530-68-2	No
114	2010/12/15	Cobalt(II) carbonate	208-169-4	513-79-1	No
115	2010/12/15	Cobalt(II) diacetate	200-755-8	71-48-7	No
116	2010/12/15	2-Methoxyethanol	203-713-7	109-86-4	No
117	2010/12/15	Chromium trioxide	215-607-8	1333-82-0	No
118	2010/12/15	Cobalt(II) dinitrate	233-402-1	10141-05-6	No
119	2010/12/15	Cobalt(II) sulphate	233-334-2	10124-43-3	No
120	2010/12/15	2-Ethoxyethanol	203-804-1	110-80-5	No
121	2010/06/18	Disodium tetraborate, anhydrous	215-540-4	1303-96-4; 1330-43-4; 12179-04-3	No
122	2010/06/18	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	No
123	2010/06/18	Potassium dichromate	231-906-6	7778-50-9	No
124	2010/06/18	Ammonium dichromate	232-143-1	9/5/7789	No
125	2010/06/18	Trichloroethylene	201-167-4	79-01-6	No
126	2010/06/18	Sodium chromate	231-889-5	11/3/7775	No
127	2010/06/18	Potassium chromate	232-140-5	7789-00-6	No
128	2010/06/18	Boric acid	233-139-2; 234-343-4	10043-35-3; 11113-50-1	No
129	2010/03/30	Acrylamide	201-173-7	79-06-1	No
130	2010/01/13	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	No
131	2010/01/13	Lead chromate	231-846-0	7758-97-6	No
132	2010/01/13	Anthracene oil, anthracene-low	292-604-8	90640-82-7	No
133	2010/01/13	2,4-Dinitrotoluene (2,4-DNT)	204-450-0	121-14-2	No
134	2010/01/13	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	No
135	2010/01/13	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	No
136	2010/01/13	Anthracene oil	292-602-7	90640-80-5	No
137	2010/01/13	Pitch, coal tar, high temp.	266-028-2	65996-93-2	No
138	2010/01/13	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	No
139	2010/01/13	Anthracene oil, anthracene paste, distn. Lights	295-278-5	91995-17-4	No

140	2010/01/13	Diisobutyl phthalate (DIBP)	201-553-2	84-69-5	No
141	2010/01/13	Anthracene oil, anthracene paste	292-603-2	90640-81-6	No
142	2008/10/28	Sodium dichromate	234-190-3	7789-12-0; 10588-01-9	No
143	2008/10/28	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	No
144	2008/10/28	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	No
145	2008/10/28	Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	No
146	2008/10/28	Triethyl arsenate	427-700-2	15606-95-8	No
147	2008/10/28	Dibutyl phthalate (DBP)	201-557-4	84-74-2	No
148	2008/10/28	Diarsenic trioxide	215-481-4	1327-53-3	No
149	2008/10/28	Anthracene	204-371-1	120-12-7	No
150	2008/10/28	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	No
151	2008/10/28	Lead hydrogen arsenate	232-064-2	7784-40-9	No
152	2008/10/28	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	No
153	2008/10/28	Hexabromocyclododecane (HBCDD)	247-148-4; 221-695-9	25637-99-4; 3194-55-6; 134237-50-6; 134237-51-7; 134237-52-8	No
154	2008/10/28	Diarsenic pentaoxide	215-116-9	1303-28-2	No
155	2008/10/28	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	No

ROHS2 AND HALOGEN COMPLIANCE:

In addition, PLX's products with a part number ending with the suffix F, LF or G, meet the requirements of the current **RoHS Recast Directive 2011/65/EU or RoHS2**, with limits as specified below for RoHS 6/6 compliance:

Cadmium (Cd)	< 100 ppm
Lead (Pb)*	< 1000 ppm
Mercury (Hg)	< 1000 ppm
Hexavalent Chromium (Cr6)	< 1000 ppm
Polybrominated biphenyls (PBB)	< 1000 ppm
Polybrominated diphenyl ethers (PBDE)	< 1000 ppm

*** Note 1:** A PLX part number without the suffix F, LF or G is RoHS 5/6 with exemption 7b (Lead (Pb) included on the leads or within the solder balls)

*** Note 2:** Flip chip devices with internal eutectic bump meet RoHS 6/6 requirements with exemption 15 applied for the level 1 bump interconnect. Those applicable eutectic bump part numbers will include an 'F' suffix for PEX8xxx product.

Note 3: A PLX part number with suffix 'G' is **Halogen-Free** per IEC 61249-2-21 definition.

Chlorine (Cl)	< 900 ppm
Bromine (Br)	< 900 ppm
Total Halogens (Chlorine + Bromine)	< 1500 ppm

Authorized Representative's Signature	: Eleen Chai
Authorized Representative's Name	: Eleen Chai
Authorized Representative's Title	: Sr. Quality Assurance and Reliability Engineer
Authorized Representative's Phone number	: (408) 962-3424
Authorized Representative's Email	: eleen.chai@avagotech.com