



Jan.1st,2012

Declaration of RoHS (including PFOS & REACH) Compliance

Dear Customer,

GIANTEC hereby declares that all our lead free products satisfy the following requirements/conditions:

- 1) Using an "L" after the package type designating letter in the IS prefix or GT prefix part number for identification respectively.
- 2) Complying with the RoHS (EU Directive entitled "Restriction on the use of certain Hazardous Substances 2002/95/EC and 2006/122/EC") requirements and containing none of the following 8 substances: Pb, Hg, Cd, Cr(VI), PBBs, PBDEs(include Deca-BDE), PFOA and PFOS.
- 3) Complying with the IPC/JEDEC J-STD-020C with regard to the solder profile requirement (Max. reflow temperature 260 deg.C)
- 4) Complying with the 73 SVHC (Substance of Very High concern) of EU directive of the Regulation(EC) No 1907/2006 (REACH): the part shall not contain more than the 0.1% of the following SVHC by weight of part as defined in appendix
- 5) Complying with IEC 61249-2-21,JPCA-ES01 2003& IPC 4101,the Br, Cl, must be lower than 900 ppm,respectively, and total amount of PPM must be lower than 1500 ppm (Br+Cl<1500pm).
- 6.) To declare Giantec were not use the materials from mines with inferior working conditions, such as DRC (Democratic Republic of the Congo).The suppliers or subcontractors will be trace the supply chain for gold (Au),tantalum (Ta),tungsten (W),tin(Sn)and cobalt(Co).

This Declaration is made with GIANTEC's best commercial effort to verify the compliance, of its suppliers, with the above requirement, and is given in good faith without any responsibility or liability. The statement here above does not extend to or apply to the procedures subject to unintentional contamination, misuse, neglect, accident, improper installation or any use in violation of instructions furnished by GIANTEC.

This Declaration contains the entire understanding between you and GIANTEC with respect to this subject matter and supersedes all prior agreements, understandings and/or representations.

Please let us know if there is any further concern.

Sincerely Yours,

Wolfe Luo
Vice President
Quality & Reliability Assurance

No. 12, Lane 647, Songtao Rd Zhangjiang Hi-Tech Park Pudong New Area, Shanghai, China

TEL: 86-21-50802030

FAX: 86-21-50802032

WEB: www.giantec-semi.com



Appendix: Complying with 73 SVHC (substance of very high concern) of the Regulation (EC) No 1907/2006 (REACH)

No.	Substance Name	CAS No.
1	三乙基砷酸酯 Triethyl arsenate	15606-95-8
2	蒽 Anthracene	120-12-7
3	4,4'-二氨基二苯甲烷 4,4'-Diaminodiphenylmethane (MDA)	101-77-9
4	鄰苯二甲酸二丁酯 Dibutyl phthalate (DBP)	84-74-2
5	氯化鈷 Cobalt dichloride	7646-79-9
6	五氧化二砷 Diarsenic pentaoxide	1303-28-2
7	三氧化二砷 Diarsenic trioxide	1327-53-3
8	重鉻酸鈉·二倍結晶水 Sodium dichromate	7789-12-0 10588-01-9
9	5-叔丁基-2,4,6-三硝基間二甲苯 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2
10	鄰苯二甲酸二(2-乙基己基)酯 Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7
11	六溴環十二烷 Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	134237-50-6 134237-52-8 134237-51-7
12	短鏈氯化石蠟 Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
13	氧化三丁錫 Bis(tributyltin)oxide (TBTO)	56-35-9
14	砷酸氫鉛 Lead hydrogen arsenate	7784-40-9
15	鄰苯二甲酸丁酯苯甲酯 Benzyl butyl phthalate (BBP)	85-68-7
16	蒽油 Anthracene	90640-80-5
17	蒽油,蒽糊,輕油 Anthracene oil, anthracene paste, distn. lights *	91995-17-4
18	蒽油,蒽糊,蒽餾分離液 Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
19	蒽油,含蒽量少 Anthracene oil, anthracene-low	90640-82-7
20	蒽油,蒽糊 Anthracene oil, anthracene paste	90640-81-6
21	煤瀝青,高溫 Coal tar pitch, high temperature	65996-93-2
22	丙烯醯胺 Acrylamide	79-06-1
23	矽酸鋁,陶瓷耐火纖維 Aluminosilicate, Refractory Ceramic Fibres	None
24	矽酸鋁氧化鋯,陶瓷耐火纖維 Zirconia Aluminosilicate, Refractory Ceramic Fibres	None
25	2,4-二硝基甲苯 2,4-Dinitrotoluene	121-14-2
26	鄰苯二甲酸二異丁酯 Diisobutyl phthalate	84-69-5
27	鉻酸鉛 Lead chromate	7758-97-6
28	紅色鉻鉬酸鉛硫酸鹽 Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8
29	黃色硫化鉻酸鉛 Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2
30	三(2-氯乙基)磷酸酯 Tris(2-chloroethyl)phosphate	115-96-8
31	三氯乙烯 Trichloroethylene	79-01-6
32	硼酸 Boric acid	10043-35-3 11113-50-1
33	無水四硼酸二鈉 Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3
34	水合七氧四硼酸二鈉 Tetraboron disodium heptaoxide, hydrate	12267-73-1
35	鉻酸鈉 Sodium chromate	7775-11-3
36	鉻酸鉀 Potassium chromate	7789-00-6
37	重鉻酸銨 Ammonium dichromate	7789-09-5
38	重鉻酸鉀 Potassium dichromate	7778-50-9
39	硫酸鈷Cobalt(II) sulphate	10124-43-3
40	硝酸鈷Cobalt(II) dinitrate	10141-05-6

No. 12, Lane 647, Songtao Rd Zhangjiang Hi-Tech Park Pudong New Area, Shanghai, China

TEL: 86-21-50802030

FAX: 86-21-50802032

WEB: www.giantec-semi.com



No.	Substance Name	CAS No.
41	碳酸鈷Cobalt(II) carbonate	513-79-1
42	醋酸鈷Cobalt(II) diacetate	71-48-7
43	乙二醇單甲醚2-Methoxyethanol	109-86-4
44	乙二醇單乙醚2-Ethoxyethanol	110-80-5
45	三氧化鉻Chromium trioxide	1333-82-0
46	從三氧化鉻產生的酸類及其它們的齊聚物：鉻酸、重鉻酸、鉻酸和重鉻酸的齊聚物 Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2
47	乙二醇乙醚醋酸酯 2-ethoxyethyl acetate	111-15-9
48	鉻酸銣 Strontium chromate	7789-6-2
49	1,2-苯二酸-二(C7-11支鏈与直鏈)烷基(醇)酯(DHMUP) 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4
50	聯氨 Hydrazine	7803-57-8 302-01-2
51	1-甲基-2-吡咯烷酮 1-methyl-2-pyrrolidone	872-50-4
52	1,2,3-三氯丙烷 1,2,3-trichloropropane	96-18-4
53	1,2-苯二酸-二(C6-8支鏈)烷基酯(富C7) (DIHP) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkylesters, C7-rich	71888-89-6
54	Lead dipicrate 苦味酸鉛	6477-64-1
55	Lead styphnate 收斂酸鉛	15245-44-0
56	Lead azide Lead diazide 疊氮化鉛	13424-46-9
57	Phenolphthalein 酚酞	1977-9-8
58	2,2'-dichloro-4,4'-methylenedianiline 4,4'-二氯基-3,3'-二氯二苯甲烷	101-14-4
59	N,N-dimethylacetamide (DMAC) N,N-二甲基乙酰胺	127-19-5
60	Trilead diarsenate 磷酸鉛	3687-31-8
61	Calcium arsenate 磷酸鈣	7778-44-1
62	Arsenic acid 磷酸	7778-39-4
63	Bis(2-methoxyethyl) ether 二甘醇二甲醚	111-96-6
64	1,2-Dichloroethane 1,2-二氯乙烷	107-06-2
65	4-(1,1,3,3-tetramethylbutyl)phenol. (4-tert-Octylphenol) 對特辛基苯酚	140-66-9
66	2-Methoxyaniline; o-Anisidine 鄰甲氧基苯胺	90-04-0
67	Bis(2-methoxyethyl) phthalate 鄰苯二甲酸二甲氧乙酯	117-82-8
68	Formaldehyde, oligomeric reaction products with aniline (technical MDA) 甲醛與苯胺聚合物	25214-70-4
69	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) 矽酸鋁氧化鋯, 陶瓷耐火纖維	-
70	Aluminosilicate Refractory Ceramic Fibres (RCF) 矽酸鋁, 陶瓷耐火纖維	-
71	Pentazinc chromate octahydroxide C. I. 顏料黃 36	49663-84-5
72	Potassium hydroxyoctaoxodizincatedi-chromate 氫氧化鉻酸鋅鉀	11103-86-9
73	Dichromium tris(chromate) 鉻酸鉻	24613-89-6

No. 12, Lane 647, Songtao Rd Zhangjiang Hi-Tech Park Pudong New Area, Shanghai, China

TEL: 86-21-50802030

FAX: 86-21-50802032

WEB: www.giantec-semi.com