



May.7th, 2012

Declaration of RoHS (including PFOS & REACH) Compliance

Dear Customer,

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

- 1) Using an "L" or a "G" after the package type designating letter in the IS prefix or IC prefix part number for identification respectively.
- 2) Complying with the RoHS (EU Directive entitled "Restriction on the use of certain Hazardous Substances 2011/65/EU and 2006/122/EC") requirements and containing none of the following 7 substances: Pb, Hg, Cd, Cr(VI), PBB, PBDE, 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 7th batch 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 < 1500 ppm).
- 6) 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 ISSI'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 ISSI.

This Declaration contains the entire understanding between you and ISSI 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,

Shou-kong Fan
Vice President
Quality & Reliability Assurance Division

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Appendix: Complying with the 7th batch SVHC (substance of very high concern) of the Regulation (EC) No 1907/2006 (REACH)

Revision: May, 2012

No.	Substance Name	CAS No.
1	三乙基磷酸酯 Triethyl arsenate	15606-95-8
2	蔥 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 diastereois	134237-50-6 134237-52-8 134237-51-7
12	短鏈氯化路蠟 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	蔥油 Anthracene oil	90640-80-5
17	蔥油 · 蔥糊 · 輕油 Anthracene oil, anthracene paste, distn. Lights*	91995-17-4
18	蔥油 · 蔥糊 · 蔥餾分離液 Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
19	蔥油 · 含蔥量少 Anthracene oil, anthracene-low	90640-82-7
20	蔥油 · 蔥糊 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 Aluminosillcate, Refractory Ceramic Fibres	None
24	矽酸鋁氧化鈷 · 陶瓷耐火纖維 Zirconia Aluminosilicate, Refractor 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 Dilsobutyl phthalate	84-69-5
27	鉻酸鉛 Lead chromate	7758-97-6
28	紅色鉬鉻酸硫酸鹽 Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8

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No.	Substance Name	CAS No.
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 12197-04-3
34	水合七氧四硼酸二鈉 Tetraboron disodium heptaoxide, hydrate	12267-73-1
35	鉻酸鈉 Sodium chromate	7775-113
36	鉻酸鉀 Potassium chromate	7789-00-6
37	重鉻酸銨 Ammonium dichromate	2151163
38	重鉻酸鉀 Potassium dichromate	7778-50-9
39	硫酸鈷 Cobalt sulfate	10124-43-3
40	硝酸鈷 Cobalt dinitrate	10141-05-6
41	碳酸鈷 Cobalt carbonate	513-79-1
42	醋酸鈷 Cobalt diacetate	71-48-7
43	2-甲氧基乙醇 2-Methoxyethanol	109-86-4
44	2-乙氧基乙醇 2-Ethoxyethanol	110-80-5
45	三氧化鉻 Chromium trioxide	1333-82-0
46	三氧化二鉻 Chromic acid/重鉻酸 Dichromic acid	7738-94-5 13530-68-2
47	乙酸-2-乙氧基乙酯 2-ethoxyethyl acetate	111-15-9
48	鉻酸鋇 Strontium chromate	7789-6-2
49	鄰苯二甲酸二(C7-11 支鏈與直鏈)烷基酯 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4
50	胼 Hydrazine	302-01-2 7803-57-8
51	N-甲基吡咯烷酮 1-methyl-2-pyrrolidone	872-50-4
52	1·2·3-三氯丙烷 1,2,3-trichloropropane	96-18-4
53	鄰苯二甲酸二 C6-8 支鏈 烷基酯 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6
54	鉻酸鉻 Dichromium tris(chromate)	24613-89-6
55	氫氧化鉻酸鋅鉀 Potassium hydroxyoctaoxodizincatedi-chromate	11103-86-9
56	C.I.顏料黃 36 Pentazinc chromate octahydroxide	49663-84-5
57	矽酸鋁, 耐火陶瓷纖維** Aluminosilicate Refractory Ceramic Fibres (RCF)	None

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No.	Substance Name	CAS No.
58	氧化鋯矽酸, 耐火陶瓷纖維** Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	None
59	甲醛和苯胺聚合物 Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4
60	鄰苯二甲酸二甲氧乙酯 Bis(2-methoxyethyl) phthalate	117-82-8
61	2-Methoxyaniline; o-Anisidine	90-04-0
62	鄰甲氧基苯胺 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9
63	1,2-二氯乙烷 1,2-Dichloroethane	107-06-2
64	二甘醇二甲醚 Bis(2-methoxyethyl) ether	111-96-6
65	砷酸 Arsenic acid	7778-39-4
66	砷酸鈣 Calcium arsenate	7778-44-1
67	砷酸鉛 Trilead diarsenate	3687-31-8
68	N,N-二甲基乙醯胺 N,N-dimethylacetamide (DMAC)	127-19-5
69	4,4'-二氨基-2,2'-二氯二苯甲烷, 2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4
70	酚酞 Phenolphthalein	77-09-8
71	疊氮化鉛 Lead azide Lead diazide	13424-46-9
72	收斂酸鉛 Lead styphnate	15245-44-0
73	苦味酸鉛 Lead dipicrate	6477-64-1
74	三甘醇二甲醚 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2
75	乙二醇二甲醚 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
76	α, α -二[(二甲氨基)苯基]-4-氨基苯甲醇 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1
77	4'-二(N,N-二甲氨基)二苯甲酮 4,4'-bis(dimethylamino)benzophenone (Michler' s ketone)	90-94-8
78	結晶紫[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9
79	鹼性藍 26; 維多利亞藍 B [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5
80	三氧化二硼 (無水硼酸) Diboron trioxide	1303-86-2
81	氨基甲醛 Formamide	75-12-7
82	甲基磺酸鉛 Lead(II) bis(methanesulfonate)	17570-76-2
83	N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷 N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler' s base)	101-61-1
84	1,3,5-三縮水甘油-S-三嗪三酮 TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9
85	A ,A -二[4-(二甲氨基)苯基]-4-苯基氨基-1-萘甲醇 α, α -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0
86	異氰脲酸B -三縮水甘油酯 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