

DORT NO. F690101/LF-CTSAYAA12-02214 Issued Date: January 20, 2012 Page 1 of 9

To HAN SAEM DIGITEC CO., LTD.

650-26 Seoknam-dong Seo-gu Incheon Korea

The following sample(s) was/were submitted and identified by/on behalf of the client as:-

Product Name	:	PCB
Item/Part Name	:	N/A
SGS File No.	:	AYAA12-02214
Received Date	:	January 13, 2012
Test Period	:	January 16, 2012 ~ January 20, 2012
Test Performed	:	SGS Korea tested the sample(s) selected by applicant with following results
Test Requested	:	Seventy-three (73) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before December 19, 2011 regarding Regulation (EC) No 1907/2006 concerning the REACH.
Test Method	:	Please refer to next page(s).
Test Result(s)	:	Please refer to next page(s).
Summary	:	According to the specified scope and analytical technique, concentrations of all SVHC are <0.1% in the submitted sample(s).

SGS Korea Co., Ltd

leff

Jeff Jang / Chemical Lab Mgr

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Timothy Jeon Cindy park

Jinhee Kim Sophia Kim /Testing Person



Test Method:

SGS In-House method - Analyzed by ICP-OES, PLM, UV/VIS, LC/MS ,GC/MS and colorimetric method

Remarks:

- The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: <u>http://echa.europa.eu/web/guest/candidate-list-table</u> (Candidate list) These lists are under evaluation by ECHA and may subject to change in the future.
- 2. In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of **0.1%** weight by weight (w/w).
- 3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.
- 4. SGS adopts the interpretation of ECHA for SVHC in article unless indicated otherwise. Detail explanation is available at the following link:
- http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf
- 5. Test results in this report are based on the tested sample. This report refers to testing result of composite material group by equal weight proportion. The material in each composite test group may come from more than one article.
- 6. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

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Test Result(s)

Substance Name	CAS number	EC number	Concentration (%)	Reporting Limit (%)	Classification
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	N.D.	0.05	PBT
Anthracene	120-12-7	204-371-1	N.D.	0.05	PBT
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	N.D.	0.05	Toxic for Reproduction
Bis (2-ethylhexylphthalate) (DEHP)	117-81-7	204-211-0	N.D.	0.05	Toxic for Reproduction
Bis(tributyltin)oxide	56-35-9	200-268-0	N.D.	0.05	PBT
Cobalt dichloride*	7646-79-9	231-589-4	N.D.	0.005	Carcinogen Toxic for Reproduction
4,4-Diaminodiphenylmethane	101-77-9	202-974-4	N.D.	0.05	Carcinogen
Diarsenic pentaoxide*	1303-28-2	215-116-9	N.D.	0.005	Carcinogen
Diarsenic trioxide*	1327-53-3	215-481-4	N.D.	0.005	Carcinogen
Dibutyl phthalate (DBP)	84-74-2	201-557-4	N.D.	0.05	Toxic for Reproduction
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ- HBCDD)	25637-99-4and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	247-148-4 and 221-695- 9	N.D.	0.05	PBT
Lead hydrogen arsenate*	7784-40-9	232-064-2	N.D.	0.005	Carcinogen Toxic for Reproduction
Sodium dichromate (Sodium dichromate, dehydrate)	10588-01-9 (7789-12-0)	234-190-3	N.D.	0.005	Carcinogen Mutagen Toxic for Reproduction
5-tert-butyl-2,4,6-trinitro-m- xylene (musk xylene)	81-15-2	201-329-4	N.D.	0.05	vPvB
Triethyl arsenate*	15606-95-8	427-700-2	N.D.	0.005	Carcinogen

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Substance Name	CAS number	EC number	Concentration (%)	Reporting Limit (%)	Classification
Di-isobutyl phthalate(DIBP)	84-69-5	201-553-2	N.D.	0.05	Toxic for Reproduction
2,4-Dinitrotoluene	121-14-2	204-450-0	N.D.	0.05	Carcinogen
Tris(2-chloroethyl) phosphate	115-96-8	204-118-5	N.D.	0.05	Toxic for Reproduction
Anthracene oil	90640-80-5	292-602-7	N.D.	0.05	PBT; vPvB Carcinogen
Anthracene oil, anthracene paste; distn. Lights	91995-17-4	295-278-5	N.D.	0.05	PBT; vPvB Carcinogen Mutagen
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	N.D.	0.05	PBT; vPvB Carcinogen Mutagen
Anthracene oil, anthracene-low	90640-82-7	292-604-8	N.D.	0.05	PBT; vPvB Carcinogen Mutagen
Anthracene oil, anthracene paste	90640-81-6	292-603-2	N.D.	0.05	PBT; vPvB Carcinogen Mutagen
Coal tar pitch, high temperature	65996-93-2	266-028-2	N.D.	0.05	PBT; vPvB Carcinogen
Aluminosilicate, Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	-	N.D.	0.005	Carcinogen
Zirconia Aluminosilicate, Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	-	N.D.	0.005	Carcinogen
Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	N.D.	0.005	Carcinogen Toxic for Reproduction
Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	N.D.	0.005	Carcinogen Toxic for Reproduction
Lead chromate*	7758-97-6	231-846-0	N.D.	0.005	Carcinogen Toxic for Reproduction
Acrylamide	79-06-01	201-173-7	N.D.	0.05	Carcinogen Mutagen

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Concentration Reporting **CAS** number **EC number** Classification Substance Name Limit (%) (%) 233-139-2 10043-35-3 N.D. Boric acid* 0.005 Toxic for Reproduction 234-343-4 11113-50-1 1330-43-4 Disodium tetraborate, 12179-04-3 215-540-4 N.D. 0.005 Toxic for Reproduction anhydrous* 1303-96-4 Tetraboron disodium 12267-73-1 235-541-3 N.D. 0.005 Toxic for Reproduction heptaoxide, hydrate* N.D. Trichloroethylene 79-01-6 201-167-4 0.05 Carcinogen Carcinogen Sodium chromate 7775-11-3 231-889-5 N.D. 0.005 Mutagen Toxic for Reproduction Carcinogen 0.005 Mutagen Ammonium dichromate* 7789-09-5 232-143-1 N.D. Toxic for Reproduction Carcinogen Potassium dichromate* 7778-50-9 231-906-6 N.D. 0.005 Mutagen Toxic for Reproduction Carcinogen N.D. 0.005 Potassium chromate* 7789-00-6 232-140-5 Mutagen

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Reporting Concentration **EC** number Substance Name **CAS** number Classification Limit (%) (%) Carcinogen 10124-43-3 233-334-2 N.D. 0.005 Cobalt(II) sulphate* Toxic for Reproduction Carcinogen Cobalt(II) dinitrate* N.D. 10141-05-6 233-402-1 0.005 Toxic for Reproduction Carcinogen Cobalt(II) carbonate* N.D. 513-79-1 208-169-4 0.005 Toxic for Reproduction Carcinogen Cobalt(II) diacetate* 71-48-7 200-755-8 N.D. 0.005 Toxic for Reproduction Toxic for Reproduction 2-Methoxyethanol 109-86-4 203-713-7 N.D. 0.05 203-804-1 N.D. 0.05 Toxic for Reproduction 2-Ethoxyethanol 110-80-5 Carcinogen 215-607-8 N.D. 0.005 Chromium trioxide* 1333-82-0 Mutagen Acids generated from chromium trioxide and their oligomers: Chromic acid 7738-94-5 231-801-5 Carcinogen N.D. 0.005 Dichromic acid 13530-68-2 236-881-5 Oligomers of chromic acid and dichromic acid 1-methyl-2-pyrrolidone 872-50-4 212-828-1 N.D. 0.05 Toxic for Reproduction N.D. 0.05 2-ethoxyethyl acetate 111-15-9 203-839-2 Toxic for Reproduction 1,2-benzenedicarboxylic acid, di-C6-8-branced alkyl 71888-89-6 N.D. 0.05 276-158-1 Toxic for Reproduction esters, C7-rich 1,2-benzenedicarboxylic acid, di-C7-11-branched and N.D. Toxic for Reproduction 68515-42-4 271-084-6 0.05 linear alkyl esters Carcinogen 1,2,3-trichloropropane 96-18-4 202-486-1 N.D. 0.05 Toxic for Reproduction 7803-57-8 Hydrazine 206-114-9 N.D. 0.05 Carcinogen 302-01-2 Strontium chromate* 7789-06-2 N.D. 0.005 232-142-6 Carcinogen

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CAS Concentration Reporting **EC** number Substance Name Classification number (%) Limit (%) 1,2-Dichloroethane 107-06-2 203-458-1 N.D. 0.05 Carcinogenic 2,2'-dichloro-4,4'-101-14-4 202-918-9 N.D. 0.05 Carcinogenic methylenedianiline (MOCA) 2-Methoxvaniline Carcinogenic 90-04-0 201-963-1 N.D. 0.05 o-Anisidine Equivalent level of 4-(1,1,3,3concern having probable tetramethylbutyl)phenol, (4-140-66-9 205-426-2 N.D. 0.05 serious effects to the tert-Octylphenol) environment Aluminosilicate Refractory 650-017-00-8 N.D. 0.005 Carcinogenic Ceramic Fibres* (RCF) (Index no.) Arsenic acid* 7778-39-4 231-901-9 N.D. 0.005 Carcinogenic Toxic for reproduction Bis(2-methoxyethyl) ether 111-96-6 203-924-4 N.D. 0.05 Bis(2-methoxyethyl) phthalate 117-82-8 204-212-6-N.D. 0.05 Toxic for reproduction Calcium arsenate* 7778-44-1 231-904-5 N.D. 0.005 Carcinogenic Dichromium tris(chromate)* 24613-89-6 246-356-2 N.D. 0.005 Carcinogenic Formaldehvde, oligomeric reaction products with aniline 25214-70-4 500-036-1 N.D. 0.05 Carcinogenic (technical MDA) Lead diazide* 13424-46-9 236-542-1 N.D. 0.005 Toxic for reproduction Lead dipicrate* 6477-64-1 229-335-2 N.D. 0.005 Toxic for reproduction Lead styphnate* 15245-44-0 239-290-2 N.D. 0.005 Toxic for reproduction N,N-dimethylacetamide N.D. 127-19-5 204-826-4 0.05 Toxic for reproduction (DMAC) Pentazinc chromate 49663-84-5 256-418-0 N.D. 0.005 Carcinogenic octahydroxide* Phenolphthalein 77-09-8 201-004-7 N.D. 0.05 Carcinogenic Potassium hydroxyoctaoxodizincatedichro 11103-86-9 234-329-8 N.D. 0.005 Carcinogenic mate* Carcinogenic Trilead diarsenate* 3687-31-8 222-979-5 N.D. 0.005 Toxic for reproduction Zirconia Aluminosilicate 650-017-00-8 Refractory Ceramic Fibres (Zr-N.D. 0.005 Carcinogenic (Index no.) RCF)*

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Note:

- 1. RL = Reporting Limit
- 2. N.D. = Not detected (lower than RL)

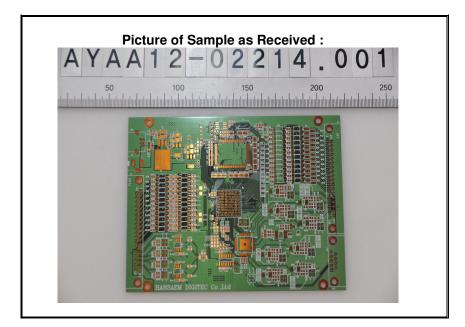
N.A. = Not applicable for respective material type.

The submitted sample was found to contain significant amount of specific element(s) of SVHC. Upon further test verification and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.

- Definition of classification is listed in Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006. For detail information, Detail explanation is available at the following link: http://echa.europa.eu/web/guest/candidate-list-table (Candidate list)
- 4.. *.The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website: <u>www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm</u>

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium(VI), silicon, aluminum, zirconium, boron, and potassium respectively), except molybdenum RL=0.0005%0.1% (w/w) = 1,000 ppm = 1,000 mg/kg



*** End of Report ***

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Appendix A

Classification Definition under 67/548/EEC and Regulation (EC) No 1907/2006 Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal Carcinogen association between human exposure to a substance and the development of cancer. Category 1: Carcinogen Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the Category 2: development of cancer. Generally on the basis of: - appropriate long-term animal studies - other relevant information. Mutagen Substances known to be mutagenic to man. There is sufficient evidence to establish a causal Category 1: association between human exposure to a substance and heritable genetic damage. Substances which should be regarded as if they are mutagenic to man. There is sufficient Mutagen evidence to provide a strong presumption that human exposure to the substance may result in the Category 2: development of heritable genetic damage, generally on the basis of: - appropriate animal studies, - other relevant information. Toxic to Substances known to impair fertility in humans. There is sufficient evidence to establish a causal Reproduction relationship between human exposure to the substance and impaired fertility. Substances known to cause developmental toxicity in humans. There is sufficient evidence to Category 1: establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny. Toxic to Substances which should be regarded as if they impair fertility in humans. There is sufficient Reproduction evidence to provide a strong presumption that human exposure to the substance may result in Category 2: impaired fertility on the basis of: - clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other toxic effects, - other relevant information. Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of: - clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects, - other relevant information. PBT & vPvB: Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient

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reliability.