

Test Report (SVHC)

No. SHAEC1925659503

Date: 26 Nov 2019

Page 1 of 12

zhejiang lianhe electronics co.,ltd
NO.8 chuangxin road , yueqing bay port zone , yueqing city , zhejiang

The following sample(s) was/were submitted and identified on behalf of the clients as : Terminal pin

SGS Job No. : SP19-038331 - SH

Main Substance : BRASS、PHOSPHOR
BRONZE、NICKEL、TIN、MATTE-TIN、SILVER、GOLD

Client Ref. Information : See attachment

Date of Sample Received : 20 Nov 2019

Testing Period : 20 Nov 2019 - 26 Nov 2019

Test Requested : As requested by client, SVHC screening is performed according to: Sixty (60) inorganic substances and additional eleven (11) organic metallic substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization and Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on and before Jul 16, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Dora Hu

Dora Hu
Approved Signatory



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Test Report (SVHC)

No. SHAEC1925659503

Date: 26 Nov 2019

Page 2 of 12

Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: <http://echa.europa.eu/web/guest/candidate-list-table>
These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:
 - 2.1 Concerning article(s):
Communication:
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.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 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 in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If 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.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Test Report (SVHC)

No. SHAEC1925659503

Date: 26 Nov 2019

Page 3 of 12

Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits.

3. 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.

Test Sample :

Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA19-256595.002	Yellow metal+Silvery metal+Silvery metal+Silvery metal+Silvery metal+Silvery metal

Test Method :

SGS In-House method-SHTC-CHEM-SOP-97-T, Analyzed by ICP-OES, UV-VIS and Colorimetric Method.



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**Test Report
(SVHC)**

No. SHAEC1925659503

Date: 26 Nov 2019

Page 4 of 12

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.026	0.005
-	Other tested SVHC in candidate list	-	ND	-



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Notes :

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit. All RL are based on homogenous material
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) * The test result is based on the calculation of selected element(s) and to the worst-case scenario.
For detail information, please refer to the SGS REACH website:

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

Calculated concentration of boric compounds are based on the total boron for liquid, powder and paste samples and water extractive boron for other samples by ICP-OES.

RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum
RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).

(4) Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.



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Test Report (SVHC)

No. SHAEC1925659503

Date: 26 Nov 2019

Page 6 of 12

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	Cobalt dichloride*	7646-79-9	0.005
I	2	Diarsenic pentaoxide*	1303-28-2	0.005
I	3	Diarsenic trioxide*	1327-53-3	0.005
I	4	Lead hydrogen arsenate*	7784-40-9	0.005
I	5	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	6	Triethyl arsenate*	15606-95-8	0.005
II	7	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	8	Lead chromate*	7758-97-6	0.005
II	9	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
III	10	Ammonium dichromate*	7789-09-5	0.005
III	11	Boric acid*	10043-35-3, 11113-50-1	0.005
III	12	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	13	Potassium chromate*	7789-00-6	0.005
III	14	Potassium dichromate*	7778-50-9	0.005
III	15	Sodium chromate*	7775-11-3	0.005
III	16	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
IV	17	Chromic acid,Oligomers of chromic acid and dichromic acid,Dichromic acid*	7738-94-5 - 13530-68-2	0.005
IV	18	Chromium trioxide*	1333-82-0	0.005



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Test Report (SVHC)

No. SHAEC1925659503

Date: 26 Nov 2019

Page 7 of 12

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	19	Cobalt(II) carbonate*	513-79-1	0.005
IV	20	Cobalt(II) diacetate*	71-48-7	0.005
IV	21	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	22	Cobalt(II) sulphate*	10124-43-3	0.005
V	23	Strontium chromate*	7789-06-2	0.005
VI	24	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	25	Arsenic acid*	7778-39-4	0.005
VI	26	Calcium arsenate*	7778-44-1	0.005
VI	27	Dichromium tris(chromate) *	24613-89-6	0.005
VI	28	Lead diazide, Lead azide*	13424-46-9	0.005
VI	29	Lead dipicrate*	6477-64-1	0.005
VI	30	Lead styphnate*	15245-44-0	0.005
VI	31	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	32	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	33	Trilead diarsenate*	3687-31-8	0.005
VI	34	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	35	Diboron trioxide*	1303-86-2	0.005
VII	36	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VIII	37	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	38	Acetic acid, lead salt, basic*	51404-69-4	0.005



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Test Report (SVHC)

No. SHAEC1925659503

Date: 26 Nov 2019

Page 8 of 12

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	39	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	40	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	41	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	42	Lead cyanamidate*	20837-86-9	0.005
VIII	43	Lead dinitrate*	10099-74-8	0.005
VIII	44	Lead monoxide*	1317-36-8	0.005
VIII	45	Lead oxide sulfate*	12036-76-9	0.005
VIII	46	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	47	Lead titanium trioxide*	12060-00-3	0.005
VIII	48	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	49	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	50	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	51	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	52	Silicic acid, lead salt*	11120-22-2	0.005
VIII	53	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	54	Tetraethyllead*	78-00-2	0.005
VIII	55	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	56	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	57	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	58	Cadmium oxide*	1306-19-0	0.005
IX	59	Cadmium*	7440-43-9	0.005



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Test Report (SVHC)

No. SHAEC1925659503

Date: 26 Nov 2019

Page 9 of 12

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
X	60	Cadmium sulphide*	1306-23-6	0.005
X	61	Lead di(acetate)*	301-04-2	0.005
XI	62	Cadmium chloride*	10108-64-2	0.005
XI	63	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	64	Sodium peroxometaborate*	7632-04-4	0.005
XII	65	Cadmium fluoride*	7790-79-6	0.005
XII	66	Cadmium sulphate *	10124-36-4,31119-53 -6	0.005
XVIII	67	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	68	Cadmium carbonate*	513-78-0	0.005
XVIII	69	Cadmium hydroxide*	21041-95-2	0.005
XIX	70	Disodium octaborate*	12008-41-2	0.005
XIX	71	Lead*	7439-92-1	0.005



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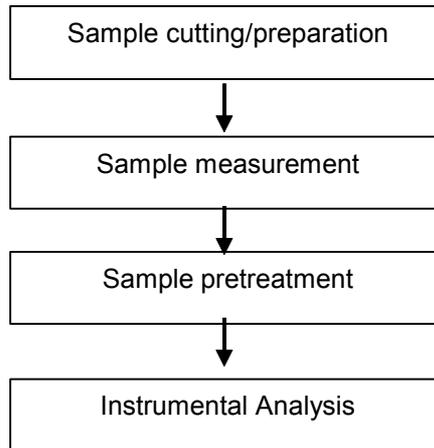
1.0 SH SHD NH 1.25 51021 DF14 DF13 GH ZH PH PHB PA PHSD DF11 C1251
 51047 51146 FI-S PHD YHD200 SMW SMH200 SMH200-H YH200/20039WR
 DUBANG2.0 XH/TJC3 XA HA XHB XHD XHE XHQ EH EI/X4P 5264 5267 SZN SAN
 SCN SCND JC15 JC20 5102 5240 SMH250 SMP250 SMW250 25048HS 25045HP
 SM TJC8/DUBANG2.54 TJC8A/DUBANG-S TJC8B TJC8H 5051/2510 543
 MEISHANGMEI CH10 25415 43640 43645 43020 43025 5500 5600 VH VHRR/YH396
 VHR 35156 2139/3.96 90331 5195 5196 39612 FL 5557 5559 5566 5569 42474
 42475 SL RV42 CL014/OTP EL YL SMALL-EL QH NV 50300 50301 8981/D4P
 5058/5.08 5197 5198 5025 L6.2 VL VLP/VLR 3191 5199 TJC2 TJC2A TJC2B STV5
 YHL500 YWL500 TJC4 TJC1 SMF Cy-X201/35108 35150 35151 35224 35180 35965
 1806 110 2.8 42021 42022 42002 6.3 250 35955 SA SCS 35189 35196 MX3.0 1.58
 51005 51006 BH3.5 BH4.0 63080 187 4.8 51004 TJC15 D220 D230 D250 D480 D520
 D280 D630 D430 D400 D450 U-T MKH F1001-T SIN-T 774 773 778 294 TU-JTK(SV)
 TU(SNB) TO-JTK(RV) MDD FDD TG-JT IDC AUTO CONNECTOR DJ70 DT04 DT06
 UY/K1 UY2/K2 UR/K3 UR2 UB/K4 UB2A UG/K5 U1R/K8 U1B/K9 HJKT10 UDW2 314
 A4203 A5001 A5002 MC100 FPC2.54 SMH SGN PHR ZHR 205 5.2 C1801 C1802
 2060 SMP JC25 CH2.5 A5003 ME020 ME010 FPC/FFC
 B2541 1971845 1971846 2232043 2232044 2232511 1971895 1971896 JWPF SY Molex1.5



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SVHC Testing Flow Chart



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