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CHANGJIANG ELECTRONICS TECHNOLOGY (CHUZHOU) CO.,LTD.
NO.999 SHIJI ROAD, NORTH INDUSTRIAL PARK,CHUZHOU,ANHUI,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : SOD-123

include(SOD-323/523/723)

SGS Job No.: SP13-032094 - SH

Date of Sample Received: 05 Nov 2013

Testing Period: 05 Nov 2013 - 08 Nov 2013

Test Requested : Selected test(s) as requested by client.

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

Signed for and on behalf of SGS-CSTC Ltd.

A for

No. SHAEC1321669506

Date: 11 Nov 2013

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Test Results :

Test Part Description:

Specimen No.	SGS Sample ID	Description
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1 SHA13-216695.006 Black body with silvery pin(mix all*)

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.

(3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	006
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	2	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

restrictori	140. STINEC 132 10055	132 1003300		1404 2015	rage 5 th 14
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>006</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

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Notes:

Test Report

(1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II

Halogen

Test Method: With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	MDL	006
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Element(s)

Test Method: With reference to US EPA Method 3052:1996, analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	MDL	006
Antimony (Sb)	mg/kg	10	ND
Phosphorus (P)	mg/kg	20	79

Phthalates

Test Method: With reference to EN14372: 2004, analysis was performed by GC-MS.

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<u>Test Item(s)</u> Dibutyl Phthalate (DBP)	CAS NO. 84-74-2	<u>Unit</u> %	MDL 0.003	<u>006</u> ND	
Benzylbutyl Phthalate (BBP)	85-68-7	%	0.003	ND	
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%	0.003	ND	
Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	%	0.010	ND	
Di-n-octyl Phthalate (DNOP)	117-84-0	%	0.003	ND	
Diisodecyl Phthalate (DIDP)	26761-40-0/ 68515-49-1	%	0.010	ND	
Di-n-hexyl Phthalate (DnHP)	84-75-3	%	0.003	ND	
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.003	ND	

Notes:

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- (1) DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
 - Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
 - Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

- Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

Hexabromocyclododecane (HBCDD)

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by GC-MS.

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Test Item(s)		Unit	MDL	006	

mg/kg 10

ND

PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by HPLC-MS.

Test Item(s)	Limit	<u>Unit</u>	MDL	006
Perfluorooctane Sulfonates (PFOS) and related	1000	mg/kg	10	ND
Acid, Metal Salt and Amide				
Perfluorooctanoic Acid (PFOA)	-	mg/kg	10	ND

Notes:

Max. limit specified by commission regulation (EU) No. 757/2010 (previously restricted under entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006)

Polycyclic aromatic hydrocarbons (PAH)

Hexabromocyclododecane (HBCDD)

Test Method: With reference to ZEK 01.4-08 of German ZLS and its amendments, analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	MDL	006
Sum of 18 PAH	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.2	ND
Acenaphthylene(ANY)	mg/kg	0.2	ND
Acenaphthene(ANA)	mg/kg	0.2	ND
Fluorene(FLU)	mg/kg	0.2	ND
Phenanthrene(PHE)	mg/kg	0.2	ND
Anthracene(ANT)	mg/kg	0.2	ND
Fluoranthene(FLT)	mg/kg	0.2	ND
Pyrene(PYR)	mg/kg	0.2	ND
Benzo(a)anthracene(BaA)	mg/kg	0.2	ND
Chrysene(CHR)	mg/kg	0.2	ND
Benzo(b)fluoranthene(BbF) and	mg/kg	0.4	ND
Benzo(j)fluoranthene(BjF)			
Benzo(k)fluoranthene(BkF)	mg/kg	0.2	ND
Benzo(a)pyrene(BaP)	mg/kg	0.2	ND
Benzo(e)pyrene(BeP)	mg/kg	0.2	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.2	ND

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 Test Item(s)
 Unit
 MDL
 006

 Dibenzo(a,h)anthracene(DBA)
 mg/kg
 0.2
 ND

 Benzo(g,h,i)perylene(BPE)
 mg/kg
 0.2
 ND

ZEK 01.4-08: Restraining maximum values for products.

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or material for toys with normal skin contact for children aged < 36 months	Materials those are not included in Category 1, with predictable contact with the skin longer than 30 s. (long-term skin contact).	Materials those are not included in Category 1 or 2, with predictable skin contact up to 30 s (short-term skin contact).
Benzo (a) pyrene (mg/kg)	<0.2**	1	20
Sum of 18 PAH (mg/kg)*	<0.2™	10	200

Notes:

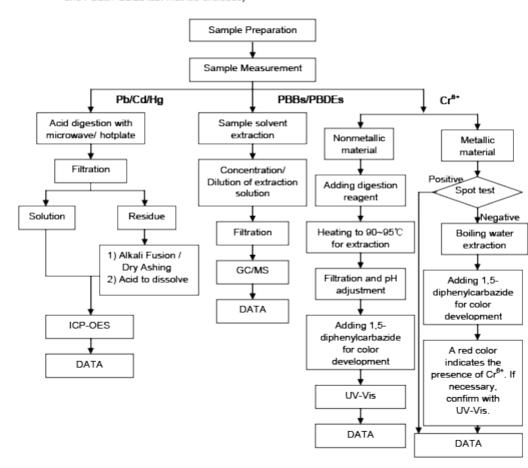
- = Only PAH substances > 0.2 mg/kg are taken into account while calculating the sum of PAHs
- ** = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the based material which is indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff/EN13130 and §54 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

Remark: *The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.

ATTACHMENTS

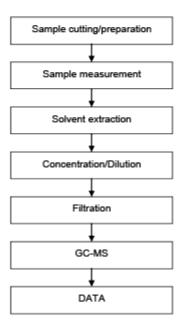
RoHS Testing Flow Chart

- 1) Name of the person who made testing: Jan Shi/Star Wang/Shara Wang/Gary Xu
- 2) Name of the person in charge of testing: Jeff Zhang/George Xu/ Jessy Huang
- These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁸⁺ and PBBs/PBDEs test method excluded)



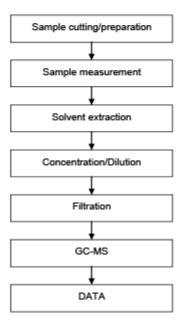
Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Elyn Yao
- 2) Name of the person in charge of testing: Myra Ma



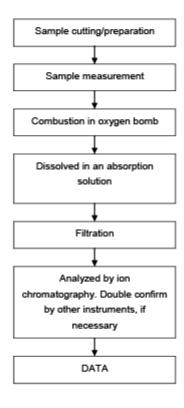
HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Gary Xu
- 2) Name of the person in charge of testing: Jessy Huang



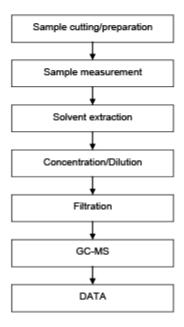
Halogen Testing (oxygen bomb) Flow Chart

- 1) Name of the person who made testing: Sisily Yin
- 2) Name of the person in charge of testing: Linda Li



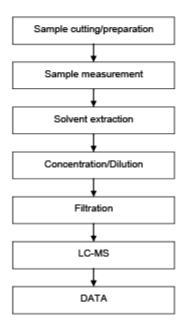
PAH Testing Flow Chart

- 1) Name of the person who made testing: Lisa Duan
- 2) Name of the person in charge of testing: Jessy Huang



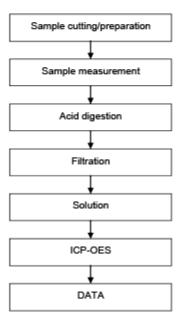
PFOS/PFOA Testing Flow Chart

- 1) Name of the person who made testing: Mary Yang
- 2) Name of the person in charge of testing: Judy Li



Elements Testing Flow Chart

- 1) Name of the person who made testing: Star Wang/ Jan Shi
- 2) Name of the person in charge of testing: Jeff Zhang



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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***