



Test Report

No.: SZTY1303011787LP

Date: MAR 31, 2013

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DONGGUAN LIANHUI INDUSTRIAL CO.LTD
XINTI 1ST ROAD, TIANRAOBU VILLAGE,
HENGLI TOWN, DONGGUAN CITY CHINA

The following samples were submitted and identified by/on behalf of the client as:

GLUE WATER QF-UV12

Style/Item No. : HR-100, 106, 108, QF-201, 201A, 201B, 203, 203A, 300, 300B, 300C, 301, 302, 303, 308, 308A, 308B, 308E, 309, 309A, 309B, 309F, 309-1, 309-2, 501, 501A, 501E, 501F, 502, 601, 601A, 601B, 602, 786, 788, 801, 801C, 803, 908, 908C, 908F, UV12A

Sample Receiving Date : MAR 26, 2013

Testing Period : MAR 26, 2013 TO MAR 31, 2013

Test Requested		Conclusion
1.	Hasbro Global Quality Assurance SRS-046 (Rev. V, 10/25/2010) - Plasticizer, Stabilizer, Organotins Specification - certain phthalates content	PASS
2.	Hasbro Global Quality Assurance SRS-082 (Rev. B, 2/7/2012) - Heavy Metal's Requirements for Packaging - Lead, Cadmium, Mercury, and hexavalent Chromium content	PASS
3.	Hasbro Global Quality Assurance Safety & Reliability Specification, SRS-018 (Rev. Initial, 12/17/2012) - Heavy Metal Content Specification	PASS

Remark : SRS-018 replaces SRS-012, 044, 047, 052 and 099 specifications in their entirety & replaces the sections related to heavy metal requirements in SRS-040, 060 and 062 specifications.

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Ltd.

Feng Shaohong, Jessica
Senior Technical Manager

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Results:
1. SRS-046 (Rev. V, 10/25/2010) - Certain Phthalates Content
Certain Phthalate Content

Method: With reference to CPSC-CH-C1001-09.3

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)		1	MDL	Permissible Limit
Alias No.		2	--	--
Tracing No.		1	--	--
Dibutyl Phthalate	(DBP)	ND	0.003%	--
Benzylbutyl Phthalate	(BBP)	ND	0.003%	--
Bis-(2-ethylhexyl) Phthalate	(DEHP)	ND	0.003%	--
Diisononyl Phthalate	(DINP)	ND	0.010%	--
Di-n-octyl Phthalate	(DNOP)	ND	0.003%	--
Diisodecyl Phthalate	(DIDP)	ND	0.010%	--
Di-n-hexyl phthalate	(DnHP)	ND	0.003%	0.1%
Total (DBP + BBP + DEHP)		ND	--	0.1%
Total (DINP + DNOP + DIDP)		ND	--	0.1%

Specimen Description:

1. Cream glue

- Note:
- % = percentage by weight
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - Results shown as ND are ignored in the sum calculation
 - Result(s) shown is(are) calculated based on the weight of wet status

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2. Hasbro SRS-082 (Rev. B, 2/7/2012) - Heavy Metal's Requirements for Packaging - Lead, Cadmium, Mercury, and Hexavalent Chromium content

Method: With reference to US EPA 3052: 1996

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item(s)			Pb	Cd	Hg	Cr(VI)	Total (Pb + Cd + Cr(VI)+ Hg)
MDL(ppm)			5	5	5	5	--
Permissible Limit (ppm)			--	--	--	--	100
Specimen No.	Alias No.	Tracing No.	--	--	--	--	--
1	3	1	ND	ND	ND	ND [#]	ND

Specimen Description:

1. Cream glue

- Note:
- ppm = parts per million
 - 1% = 10000 mg/kg = 10000 ppm
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - Results shown as ND are ignored in the sum calculation
 - # = The result of Hexavalent chromium (Cr(VI)) is considered as "Not Detected" since the total chromium content determined by acid digestion is "Not Detected".
 - Result(s) shown is(are) calculated based on the weight of wet status

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3. SRS-018 (Rev. Initial, 12/17/2012) - Heavy Metal Content

Method: As specified in SRS-018 (Rev. Initial, 12/17/2012)

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

For General Materials

Test Item(s)	Pb	Sb	As	Ba	Cd	Cr	Hg	Se		
MDL(ppm)	10	10	10	10	5	5	5	10		
Action Total Limit (ppm)	30	--	--	--	30	500	--	--		
Required Total Limit (ppm)	40	--	--	--	40	750	5	--		
Action Soluble Limit (ppm)	--	25	10	700	30	40	--	200		
Required Soluble Limit (ppm)	40	60	25	1000	40	60	5	500		
Specimen No.	Alias No.	Tracing No.	Total Result(s) (ppm)							
1	1	1	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Cream glue

Remark : No additional soluble content test was conducted due to the total content results do not exceed relevant soluble action / required limits.

- Note:
- ppm = parts per million
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)

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*** End of Report ***

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