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Technical Report No. 68.161.14.00473.01B

Dated 2014-04-29

Applicant:	Global Brand Concepts Ltd	
Address:	Room 602, 6/F, Lemmi Centre No. 50 Hai Yuen Road, Kwun Tong, Hong Kong	
Attn.:	Ms. Stephanie	
Sample Description:	2-pcs Set Music Instruments	
P.O. No.:	A131234431	
Supplier/ Manufacturer:	Shenzhen Eagle Creation Toys Co. Ltd.	
Buyer:	Global Brand Concepts Ltd	
Country of Origin:	China	
Exported to:	Germany	
Sample Receive Date:	2014-04-08	
Test Period:	From 2014-04-09 to 2014-04-14	
Test Requested and Conclusion:	(1) Compliance with EU Regulation (EC) 1907/2006 (REACH) and its amendment EU Regulation (EC) 494/2011, Annex XVII, Entry 23 - Total Cadmium (Cd) Content	PASS
	(2) Compliance with EU Regulation (EC) 1907/2006 (REACH) Annex XVII - Phthalates (DEHP, DBP, BBP, DINP, DIDP and DNOP) Content	PASS
	(3) EN71-9:2005+A1:2007 Organic Chemical Compounds - Formaldehyde	PASS
	(1) Compliance with EU Directive 94/62/EC and it's amendment 2005/20/EC - on packaging and packaging waste - Heavy Metal (Pb, Cd, Hg and CrVI) Content	PASS
Test Results:	Refer to following page(s)	
Remark:	-The result relates only to the items tested. -The test items were specified by client.	

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1. TESTED SUBJECT DESCRIPTION

SAMPLE NUMBER	TESTED MATERIAL DESCRIPTION	PHOTO
001	Green w/ white coating on wood (Music instrument)	
002	Transparent lacquer coating on wood (Music instrument)	
003	Lt. brown wood (Music instrument)	
004	Blue w/ white coating on wood (Music instrument)	
005	White rubber core w/ transparent dry glue (Elastic cord)	
006	Transparent plastic blister (Packaging)	
007	Multi-color coating on paper card (Packaging)	
008	White surfaced grey paper card (Packaging)	



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2. TEST RESULT

2.1. TOTAL CADMIUM CONTENT

Test method: With reference to EPA3052:1996, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10mg/kg]

TEST ITEM	RESULT [mg/kg]	
	SAMPLE 001+002+004	SAMPLE 005
Total cadmium (Cd)	<10	<10

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- Limit according to Regulation (EC) 1907/2006 (REACH) and its amendment EU Regulation (EC) 494/2011, Annex XVII, Entry 23

Material / Product	Limit
Plastics	< 100 mg/kg
Metal jewellery / imitation jewellery articles and hair accessories	< 100 mg/kg
Brazing Fillers	< 100 mg/kg
Coating	< 1000 mg/kg
Paint with Zinc content >10%	< 1000 mg/kg
Paint with Zinc content ≤10%	Not Detected



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Test method: With reference to US EPA 3550C:2007, extracted by chloroform and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

TEST ITEM	RESULT [%]	
	SAMPLE 001+002+004	SAMPLE 005
Di(2-ethylhexyl) phthalate (DEHP)	<0.005	<0.005
Dibutyl phthalate (DBP)	<0.005	<0.005
Benzyl butyl phthalate (BBP)	<0.005	<0.005
Sum of DEHP, DBP and BBP	<0.005	<0.005
Di-isononyl phthalate (DINP)	<0.005	<0.005
Di-isodecyl phthalate (DIDP)	<0.005	<0.005
Di-n-octyl phthalate (DNOP)	<0.005	<0.005
Sum of DINP, DIDP and DNOP	<0.005	<0.005

Note:

- “%” denotes percent by weight
- “<” denotes less than
- Limit according to Regulation (EC) 1907/2006 (REACH) Annex XVII:
In toys and childcare articles, sum concentration of DEHP, DBP and BBP shall not be greater than 0.1% by weight; In toys and childcare articles which can be placed in the mouth by children, sum concentration of DINP, DIDP and DNOP shall not be greater than 0.1% by weight.

2.3. FORMALDEHYDE

Test method: With reference to EN 717-3:1996. [Reporting limit: 10mg/kg]

TEST ITEM	RESULT [mg/kg]	MAXIMUM LIMIT
	SAMPLE 003	
Moisture [%]	14	--
Formaldehyde [mg/kg]	<10	80

Note:

- “%” denotes percent by weight
- “mg/kg” denotes milligram per kilogram
- “<” denotes less than
- Limit is quoted from EN 71-9:2005+A1:2007 Clause 4.3.3



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2.4. HEAVY METAL CONTENT

Test method: With reference to EPA3052:1996 or EPA3060:1996, analyzed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) and UV-Vis Spectrophotometer. [Reporting Limit: 10mg/kg for cadmium and hexavalent chromium, mercury, lead]

TEST ITEM	RESULT [mg/kg]		
	SAMPLE 006	SAMPLE 007	SAMPLE 008
Lead (Pb)	<10	<10	<10
Cadmium (Cd)	<10	<10	<10
Mercury (Hg)	<10	<10	<10
Hexavalent Chromium (Cr VI)	<10	<10	<10
Sum of Cd+Cr(VI)+Hg+Pb	<100	<100	<100

Note:

- “mg/kg” denotes milligram per kilogram
- “<” denotes less than
- Limit according to EU directive 94/62/EC:
Sum concentration of lead, cadmium, mercury and hexavalent chromium shall not exceed 100 mg/kg

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

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