

TEST REPORT

Applicant:

Number: HKGH02197942

Date: Oct 12, 2017

Attn: JULIE COOPER

Submitted sample said to be :
Item Name :
Reference No. :
Quantity : 1 set
Labelled Age Group : Not Specified
Packaging Provided : No
Buyer : Julie Cooper
Country of Origin : China

Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) EN71-2 : 2011 + A1 : 2014 - Flammability Test	Pass
(2) REACH Regulation (EC) no. 1907/2006, Annex XVII Item 43 & amendment no. 552/2009 and 126/2013 (formerly known as Directive 2002/61/EC) - Azocolourants content requirement	Pass

For and on behalf of :
Intertek Testing Services HK Ltd.



Angel Y.F. Cheung
Vice President



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Number : HKGH02197942

(1) Flammability Test

Test Standard : European Standard on Safety of Toys EN71-2 : 2011 + A1 : 2014

Clause	Requirement	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Sep 21, 2017

Test Period : Sep 21, 2017 to Sep 23, 2017



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(2) Detection Of Amines Derived From Azocolourants and Azodyes

Test Method : By extraction on cut sample according to the below listed test method(s), followed by Gas Chromatographic - Mass Spectrometric (GC-MS) analysis.

EN 14362-1 : 2012 for Textile Material

EN ISO 17234-1: 2010 for Leather Material

EN 14362-3 : 2012 & EN ISO 17234-2: 2011 for p-Aminoazobenzene

No.	Forbidden Amine	CAS No.	Result (ppm)	Limit (ppm)
			(1/2)	
1	4-Aminodiphenyl	92-87-1	N	30
2	Benzidine	92-87-5	N	30
3	4-Chloro-o-toluidine	95-69-2	N	30
4	2-Naphthylamine	91-59-8	N	30
5	o-Aminoazotoluene	97-56-3	N	30
6	2-Amino-4-nitrotoluene	99-55-8	N	30
7	p-Chloroaniline	106-47-8	N	30
8	2,4-Diaminoanisole	615-05-4	N	30
9	4,4'-Diaminodiphenylmethane	101-77-9	N	30
10	3,3'-Dichlorobenzidine	91-94-1	N	30
11	3,3'-Dimethoxybenzidine	119-90-4	N	30
12	3,3'-Dimethylbenzidine	119-93-7	N	30
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	N	30
14	p-Cresidine	120-71-8	N	30
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	30
16	4,4'-Oxydianiline	101-80-4	N	30
17	4,4'-Thiodianiline	139-65-1	N	30
18	o-Toluidine	95-53-4	N	30
19	2,4-Toluylenediamine	95-80-7	N	30
20	2,4,5-Trimethylaniline	137-17-7	N	30
21	o-Anisidine	90-04-0	N	30
22	p-Aminoazobenzene	60-09-3	N	30

N = Not detected

Detection limit = 5 ppm

Requirement = 30 ppm (max.)

ppm = parts per million = mg/kg



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Number : HKGH02197942

Tested Components:

- (1) Dull gold color string.
- (2) Dull silver color string.

Date sample received : Sep 21, 2017

Test Period : Sep 21, 2017 to Oct 12, 2017



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End of report

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TEST REPORT

Applicant:

Number: HKGH02204044

Date: Nov 27, 2017

Attn: JULIE COOPER

Submitted sample said to be :
Item Name :
Reference No. :
Quantity : 2 sets
Labelled Age Group : Not Specified
Packaging Provided : Yes
Buyer : Julie Cooper
Country of Origin : China

For and on behalf of :
Intertek Testing Services HK Ltd.



Angel Y.F. Cheung
Vice President



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Number : HKGH02204044

Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) U.S. ASTM F963-16 - Physical and Mechanical tests	Pass
(2) EN71-1: 2014 - Mechanical and Physical Properties	Pass
(3) EN71-2 : 2011 + A1 : 2014 - Flammability Test excluding flammability test on liquid	Pass
(4) Australian/New Zealand Standard AS/NZS 8124.1: 2016 - Mechanical and Physical Tests	Pass
(5) Consumer Product Safety Standard: Toys for children up to and including 36 months of age (in force under section 85E(1) of the Trade Practices Act 1974) as commenced by Consumer Protection Notice No. 14 of 2003 and as amended by Consumer Protection No. 1 of 2005.	Pass



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Number : HKGH02204044

(1) Physical and Mechanical Tests

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-16

Age group for testing : For Ages over 2 years

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations : -		
Test	FHSA	Parameter
Compression test	Section 1500.53(g)	30 lbf
Drop Test	Section 1500.53(b)	4 x 3.0 ft
Tension test	Section 1500.53(f)	15 lbf
Torque test	Section 1500.53(e)	4 in-lbf

Clause	Requirement	Assessment
4.1	Material quality	P
4.5	Sound producing toys	NA
4.6.1	Toys intended for children under 36 months of age	P
4.6.2	Mouth actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months - Small part warning	NA
4.7	Accessible edges	P
4.8	Projection	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and overload requirement	NA
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles (96 months of age or less)	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA



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Clause	Requirement	Assessment
4.36	Hemispherical shaped objects	NA
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding materials	NA
4.41	Toy chests	NA
6	Labeling requirements	P
6	Instructional literature	P
7	Producer's marking	
	- Name of producer / distributor	Yes
	- Address	Yes

Abbreviation : P = Pass NA = Not Applicable

The submitted samples were undergone the tests in accordance with section 8.5 through section 8.17 and 8.19 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

Date sample received : Oct 10,2017 and Nov 23,2017

Test Period : Oct 10,2017 to Nov 27,2017



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(2) Physical and Mechanical Tests

Test Standard : European Standard on Safety of Toys EN71-1:2014

Age group for testing : For Ages over 2 years

The submitted samples were undergone the following abuse tests:	
<u>Clause</u>	<u>Testing Items</u>
8.3	Torque test (0.34 Nm)
8.4.2.1	Tension test (90 N)
8.5	Drop Test (850 mm x 5)
8.7	Impact test (1 kg)
8.8	Compression test (110 N)

Clause	Requirement	Assessment
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	P
4.8	Points and Metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put into mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non -electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5	Toys intended for children under 36 months	
5.1	General requirements for toys intended for children under 36 months	P
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	P
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA



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Clause	Requirement	Assessment
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	NA
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic / electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	P

Abbreviation : P = Pass NA = Not Applicable



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The submitted samples were undergone the abuse tests for Clause 5.1 in according to 8.3 (Torque test), 8.4 (Tension test), 8.5 (Drop test), 8.7 (Impact test), 8.8 (Compression test) and specific tests for different types of toys whichever applicable.

Cleaning instruction

A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provided instructions on how the toy has to be cleaned.

After checking, the cleaning instruction was not found on the submitted samples.

Below are additional information according to the Toy Safety Directive 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements and not accredited:

Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking. After checking, it was found that

	Toy	Packaging
Manufacturer's name	Absent	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Present
Importer's address	Absent	Present
Product identification code	Absent	Present
CE-marking	Absent	Present

Date sample received : Oct 10,2017 and Nov 23,2017

Test Period : Oct 10,2017 to Nov 27,2017

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Number : HKGH02204044

(3) Flammability Test

Test Standard : European Standard on Safety of Toys EN71-2 : 2011 + A1 : 2014

Clause	Requirement	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Oct 10,2017 and Nov 23,2017

Test Period : Oct 10,2017 to Nov 27,2017

(4) Physical and Mechanical Tests

Test Standard : Australian/New Zealand Standard AS/NZS 8124.1:2016 Safety aspects related to mechanical and physical properties.

Age group for testing : For Ages over 2 years

The submitted samples were undergone the normal use and the following reasonable foreseeable abuse tests in accordance with the clause 5.24 of AS/NZS 8124.1: 2016 before the assessment of the relevant requirement in clause 4:

Clause	Test	Parameter
5.24.2	Drop test	4 x 93 +/- 5 cm
5.24.5	Torque test	0.45 +/- 0.02 Nm
5.24.6	Tension test	70 +/- 2 N
5.24.7	Compression test	136 +/- 2 N

Clause	Requirement	Assessment
4.1	Normal use	P
4.2	Reasonably foreseeable abuse	P
4.3	Material	P
4.4.1	Small Parts for children under 36 months	P
4.4.2	Small part warning	NA
4.5	Shape, size and strength of certain toys	NA
4.6	Edges	P
4.7	Points	P
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	NA
4.11	Cords and elastic	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	NA
4.14	Springs	NA
4.15	Stability and overload requirement	NA

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Clause	Requirement	Assessment
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles	NA
4.18	Projectile toys	NA
4.19	Rotor and propellers	NA
4.20	Aquatic toys	NA
4.21.	Braking	NA
4.22	Toy bicycles	NA
4.23.	Speed limitation of electrically driven ride-on toys	NA
4.24.	Toys containing a heat source	NA
4.25	Liquid-filled toys	NA
4.26	Mouth-actuated toys	NA
4.27	Toy roller skates and toy skateboards	NA
4.28	Percussion caps (B.2.18)	NA
4.29.	Acoustic requirements	NA
4.30.	Toy scooters	NA
4.31.	Magnets and magnetic components	NA
Annex B	Safety labelling guidelines and manufacturer's markings	P
Annex D	Toy gun marking	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Oct 10,2017 and Nov 23,2017

Test Period : Oct 10,2017 to Nov 27,2017



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Number : HKGH02204044

(5) Physical and Mechanical Test

Test Standard : Consumer Product Safety Standard: Toys for children up to and including 36 months of age (in force under section 65E(1) of the Trade Practices Act 1974) as commenced by Consumer Protection Notice No. 14 of 2003 and as amended by Consumer Protection No. 1 of 2005.

Age group for testing : For Ages over 2 years

The submitted samples were undergone the normal use and the following reasonable foreseeable abuse tests in accordance with the Clause 5.24 OF AS/NZS ISO 8124.1 : 2002 before the assessment of the relevant requirement in Clause 4 and Annex A :

Section	Testing Items	Parameter
5.24.2	Drop test	4x93 +/- 5cm
5.24.5	Torque test	0.45 +/- 0.02Nm
5.24.6	Tension test	70 +/- 2N
5.24.7	Compression test	114 +/- 2N

Clause	Requirement	Assessment
4.1	Normal use	P
4.2	Reasonably foreseeable abuse	P
4.4	Small Parts	
4.4.1	Small parts for children under 36 months	P
4.5	Shape, size and strength of certain toys	NA
4.5.1	Squeeze toys, rattles and certain other toys	NA
4.5.2	Small balls	NA
4.5.3	Pompoms	NA
4.5.4	Preschool play figures	NA
4.5.5	Toy pacifiers	NA
4.25	Mouth-actuated toys	
4.25.a	Mouth-actuated toys and removable mouthpieces of mouth-actuated toys	NA
4.25.b	Non-detachable mouthpieces of mouth-actuated toys	NA
4.25.c	Mouth-actuated toys which contain loose components	NA
A.2.3	Battery-operated toy	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Oct 10,2017 and Nov 23,2017

Test Period : Oct 10,2017 to Nov 27,2017



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Number : HKGH02204044



End of report

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Test Report No. BTO 251923/1
Issue Date: 30th April 2018

Attn: Julie Cooper

The following sample was submitted and identified by the client as:

Sample Name:

Sample Reference:

Sample Description: Box of 16 cast typically 4 cm across, with two lengths of cord 60 cm long.
(Certain components tested at client's request)

Sample Submitted: 23rd March 2018

Testing Period: Testing conducted between 19th April 2018 and 26th April 2018
(Please note that this testing was conducted at another laboratory within the SGS group of companies)

Tests Requested: Please refer to the result summary.

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

Result Summary:

Test Requested	Conclusion
EN 71-3:2013+A1:2014 – Safety of Toys – Part 3 – Migration of certain elements in the specified specimen(s) as listed	Pass

Signed for and on behalf of
 SGS United Kingdom Ltd.

.....
 Chris Walker BSc (Hons)
 Technical Manager

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APPENDIX

Test Results:

1. EN 71-3:2013+A1:2014 – Safety of Toys – Part 3 – Migration of certain elements

Category III: Scraped-off toy material

Method: With reference to EN 71 Part 3: 2013+A1:2014. Analysis of general elements was performed by ICP-OES.

Chromium (III) was obtained by calculation, chromium (VI) was analysed by IC-UV/VIS and organic tin was analysed by GC-MS.

Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	1	2	-	-
Mass of trace amount (mg)	--	--	-	-
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	70 000
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18 750
Soluble Boron (B) (mg/kg)	ND	ND	50	15 000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr(VI)) (mg/kg)	ND	ND	0.18	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7 700
Soluble Lead (Pb) (mg/kg)	ND	ND	10	160
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15 000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56 000
Soluble Tin (Sn) (mg/kg)	ND	ND	4.9	180 000
Soluble Organic Tin - (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46 000

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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	3	4	-	-
Mass of trace amount (mg)	--	--	-	-
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	70 000
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18 750
Soluble Boron (B) (mg/kg)	ND	ND	50	15 000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr(VI)) (mg/kg)	ND	ND	0.18	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7 700
Soluble Lead (Pb) (mg/kg)	ND	ND	10	160
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15 000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56 000
Soluble Tin (Sn) (mg/kg)	ND	ND	4.9	180 000
Soluble Organic Tin - (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46 000

Specimen Description:

1. Round brown stone
2. Oval white stone
3. Square grey stone
4. Triangular caramel stone

Note:

- mg/kg = milligram per kilogram
- ND = Not Detected (lower than MDL)
- mg = milligram
- MDL – Method Detection Limit
- 1% = 10000mg/kg = 10000ppm

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Test Report No. BTO 251923/2
Issue Date: 30th April 2018

Attn: Julie Cooper

The following sample was submitted and identified by the client as:

Sample Name:

Sample Reference:

Sample Description: Box of 16 cast typically 4 cm across, with two lengths of cord 60 cm long.
Certain components were composite tested at request of the client.

Sample Submitted: 23rd March 2018

Testing Period: Testing conducted between 19th April 2018 and 26th April 2018
(Please note this testing was subcontracted to another laboratory within the SGS group of companies)

Testing Requested: Please refer to the result summary.

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

Result Summary:

Test Requested	Conclusion
European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Cadmium content in the specified specimen(s) as listed	PASS

Signed for and on behalf of
 SGS United Kingdom Ltd.



Chris Walker BSc (Hons)
 Technical Manager

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Test Results:
1. Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its amendments – Cadmium content

Method: With reference to EN1122: 2001 method B / US EPA 3052:1996

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS)

Test Item(s)	Cadmium (Cd)
Permissible Limit (mg/kg)	100
Specimen Description	Result(s) (mg/kg)
1. Round brown stone + Oval white stone	ND
2. Square grey stone + Triangular caramel stone	ND

- Note:
- Permissible and Reference Limit specified by Commission Regulation (EU) No 494/2011 and Commission Regulation (EU) No 2016/217 amending Annex XVII of REACH Regulation (EC) no 1907/2006 (previously restricted under entry 23 of Regulation (EC) No 552/2009 and directive 91/338/EC)
 - Mg/kg = Milligram per Kilogram
 - ND = Not Detected (lower the MDL)
 - MDL = Method Detection Limit = 5mg/kg
 - 1% = 10000 mg/kg = 10000ppm
 - The result(s) is (are) calculated using the minimum weight for composite test

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Test Report No. BTO 251923/3
Issue Date: 30th April 2018
Attn: Julie Cooper

The following sample was submitted and identified by the client as:

Sample Name:
Sample Reference:

Details of Sample: Box of 16 cast ' typically 4 cm across, with two lengths of cord 60 cm long.
(Certain components tested at client's request)

Date of Receipt: 23rd March 2018

Testing Period: Testing conducted between 19th April 2018 and 26th April 2018
(Please note that this testing was subcontracted to another laboratory with the SGS Group of Companies)

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

Result Summary:

Test Requested	Conclusion
European Regulation (EC) No. 1907/2006 (REACH) Annex XV11 and its amendments - Phthalates content in the specified specimen(s) as listed	Pass

Signed for and on behalf of
SGS United Kingdom Ltd.



.....
Jo Pinkess BA (Hons) C Text ATI
Operations Manager

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Test Results:

European Regulation (EC) No. 1907/2006 (REACH) Annex XV11 and its amendments - Phthalates content

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

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

Materials can be placed in the mouth

Test Item	CAS No.	Result (%)		MDL (%)	Permissible Limit (%)
		1	2		
Specimen No.	--				
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003	--
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	--
Bis-(2-ethylhexyl) Phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	--
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	0.010	--
Total (DBP+BBP+DEHP)		ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	--	0.1

Sample Description:

1. Round brown stone + Triangular caramel stone
2. Square grey stone + Oval white stone

Note:

ND = Not Detected (lower than MDL)

MDL = Method Detection Limit

% = percentage by weight

Results shown ND are ignored in the sum calculation

The result(s) is (are) calculated using the total specimen weight for composite test

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