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Hong Kong Association for Testing, Inspection and Certification Limited  
Hong Kong Toys Council

**Test Report**

Number: HKGH0206090701

Applicant: KIDS STUFF LIMITED  
RM 1201 MIRROR TOWER  
61 MODY RD  
TSIM SHA TSUI EAST KLN  
HK

Date: Dec 14, 2016

Attn: HENRY YIH / LIAM FAN  
KIDS PREFERRED LLC

Submitted sample said to be	:	
Item Name	:	<b>Blossom Ear-Resistible Teether, Skipit Ear-Resistible Teether, Bud Ear-Resistible Teether</b>
Item No.	:	<b>100243, 100248, 100266</b>
Quantity	:	4 sets
Labelled Age Group	:	"All Ages"
Packaging Provided	:	Yes
Vendor	:	YM



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

Angel Y.F. Cheung  
Vice President





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**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 F963-11 - Physical and Mechanical tests	Pass
(2) ASTM F963-11 - Flammability Test of Materials other than textile materials	Pass
(3) ASTM F963-11 - Soluble heavy elements test	Pass
(4) ASTM F963-11 - Total Lead content	Pass
(5) U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in non-surface coating materials (substrate)	Pass
(6) U.S. CFR Title 16 (CPSC Regulations) - Part 1303 - Total Lead content in surface coating	Pass
U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in surface coating	Pass
(7) AATCC test method 8 - 2013 - Color fastness to crocking test	See details enclosed
(8) ASTM F963-11 - Section 8.5.1 machine washing	Pass
(9) AS/NZS ISO 8124-3:2003 (Australian Trade Practice Act 1974 with Consumer Protection Notice no. 1, 2009 - Consumer Product Safety Standard for Lead and certain elements in children's toys.) - Toxic elements test	Pass
AS/NZS ISO 8124-3:2012 - Toxic elements test	Pass
Australian Customs Notice no. 2007/46 - amendments to the Customs (Prohibited Imports) Regulations 1956 Schedule 2 Item 2 - Toxic elements test	Pass
AS/NZS 8124-3:2012/Amdt 1:2016 - Toxic elements test	Pass
(10) U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 108 - Phthalate content	Pass
(11) Phthalate content (US CPSIA Proposed Rules for additional phthalates)	See details enclosed

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(1) Physical and Mechanical Tests

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-11

Age group for testing : For All Ages

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 1500.51(b)	10 x 4.5 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 (visual check on cleanliness)	P
4.5	Sound producing toys	P
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	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	P
4.23	Rattles	NA
4.24	Squeeze toys	P
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
4.36	Hemispherical shaped objects	NA





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Clause	Requirement	Assessment
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
5	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 : Dec 07, 2016  
Test Period : Dec 07, 2016 to Dec 12, 2016

(2) Flammability Tests

Test Standard : Section 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-11.

Sample	Ignition point	Burn length (inch)	Time (sec)	Burn Rate (inch/sec)	Limit (inch/sec)
Teether	ear	5.5	60	0.09	0.10

All styles of the submitted toy sample were tested, the above result only showed the most severe burn rate of the samples.

Date sample received : Dec 07, 2016  
Test Period : Dec 07, 2016 to Dec 12, 2016

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(3) Heavy Elements Analysis

Test Method : Sections 8.3.2, 8.3.3, 8.3.4 and 8.3.5 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-11, acid extraction and analysed by Inductively Coupled Argon Plasma Spectrometry.

Materials other than modelling clay:

	Result (ppm)			Limit (ppm)
	(8)	(9)	(10)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (ppm)			Limit (ppm)
	(11)	(12)	(13)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (ppm)	Limit (ppm)
	(14)	
Soluble Barium (Ba)	<5	1000
Soluble Lead (Pb)	<5	90
Soluble Cadmium (Cd)	<5	75
Soluble Antimony (Sb)	<5	60
Soluble Selenium (Se)	<5	500
Soluble Chromium (Cr)	<5	60
Soluble Mercury (Hg)	<5	60
Soluble Arsenic (As)	<2.5	25

ppm = parts per million = mg/kg

@ : Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.

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**Test Report**

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Tested Components:

- (1) @ Dark pink coating on plastic (eyes of bunny of Blossom Ear-Resistible teether, Bud Ear-Resistible teether).
- (2) @ Pink coating on plastic (nose of bunny of Blossom Ear-Resistible teether, Bud Ear-Resistible teether).
- (3) @ Pale pink coating on plastic (blushes of bunny of Blossom Ear-Resistible teether, Bud Ear-Resistible teether).
- (4) @ Dull brown coating on plastic (eyes of bunny of Skipit Ear-Resistible teether).
- (5) @ Light brown coating on plastic (eyes of bunny of Skipit Ear-Resistible teether).
- (6) @ Dim brown coating on plastic (nose of bunny of Skipit Ear-Resistible teether).
- (7) @ Light pink coating on plastic (blushes of bunny of Skipit Ear-Resistible teether).
- (8) Beige plastic (body of all styles).
- (9) White satin with brown printing (sewn-in label of all styles).
- (10) Pale blue fabric with multicolor thread stitching and white thread (sewn-in label of all styles).
- (11) Beige satin (ears of all styles).
- (12) 3 mm pink plush (ears of Blossom Ear-Resistible teether).
- (13) 3 mm blue plush (ears of Bud Ear-Resistible teether).
- (14) 3 mm pale brown plush (ears of Skipit Ear-Resistible teether).

Date sample received : Dec 07, 2016

Test Period : Dec 07, 2016 to Dec 12, 2016

(4) Total Lead (Pb) Content

Test Method : Sections 4.3.5.1(1) and 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification for Toy Safety F963-11, CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Coating:

Tested Component	Result in ppm	Limit in ppm
(1)	<20	90
(2)	<20	90
(3)	<20	90
(4)	<20	90
(5)	<20	90
(6)	<20	90
(7)	<20	90

Substrate:

Tested Component	Result in ppm	Limit in ppm
(8)	<20	100
(9)	<20	100

ppm = parts per million = mg/kg

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Tested Components:

- (1) Dark pink coating on plastic (eyes of bunny of Blossom Ear-Resistible teether, Bud Ear-Resistible teether).
- (2) Pink coating on plastic (nose of bunny of Blossom Ear-Resistible teether, Bud Ear-Resistible teether).
- (3) Pale pink coating on plastic (blushes of bunny of Blossom Ear-Resistible teether, Bud Ear-Resistible teether).
- (4) Dull brown coating on plastic (eyes of bunny of Skipit Ear-Resistible teether).
- (5) Light brown coating on plastic (eyes of bunny of Skipit Ear-Resistible teether).
- (6) Dim brown coating on plastic (nose of bunny of Skipit Ear-Resistible teether).
- (7) Light pink coating on plastic (blushes of bunny of Skipit Ear-Resistible teether).
- (8) Beige plastic (body of all styles).
- (9) White satin with brown printing (sewn-in label of all styles).

Date sample received : Dec 07, 2016  
Test Period : Dec 07, 2016 to Dec 12, 2016

(5) Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method : Standard Operating Procedures for Determining Total Lead (Pb) in Children's Products, test methods CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001.08.3, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1)	<20	100
(2)	<20	100

ppm = parts per million = mg/kg

Tested Components:

- (1) Beige plastic (body of all styles).
- (2) White satin with brown printing (sewn-in label of all styles).

Date sample received : Dec 07, 2016  
Test Period : Dec 07, 2016 to Dec 12, 2016

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(6) Total Lead (Pb) Content in Surface Coating

Test Method : Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, test method CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1)	<20	90
(2)	<20	90
(3)	<20	90
(4)	<20	90
(5)	<20	90
(6)	<20	90
(7)	<20	90

ppm = parts per million = mg/kg

Tested Components:

- (1) Dark pink coating on plastic (eyes of bunny of Blossom Ear-Resistible teether, Bud Ear-Resistible teether).
- (2) Pink coating on plastic (nose of bunny of Blossom Ear-Resistible teether, Bud Ear-Resistible teether).
- (3) Pale pink coating on plastic (blushes of bunny of Blossom Ear-Resistible teether, Bud Ear-Resistible teether).
- (4) Dull brown coating on plastic (eyes of bunny of Skipit Ear-Resistible teether).
- (5) Light brown coating on plastic (eyes of bunny of Skipit Ear-Resistible teether).
- (6) Dim brown coating on plastic (nose of bunny of Skipit Ear-Resistible teether).
- (7) Light pink coating on plastic (blushes of bunny of Skipit Ear-Resistible teether).

Date sample received : Dec 07, 2016

Test Period : Dec 07, 2016 to Dec 12, 2016

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(7) Color Fastness to Crocking

Test Standard : AATCC test method 8 - 2013

<u>Tested Component</u>	<u>Dry</u>	<u>Wet</u>
(1)	4.5	4.5

Remark: Testing was conducted on the samples in as-received condition.  
Evaluating against AATCC Gray Scale  
Commercial acceptance ratings (for reference only):  
Dry crocking: 4 or above  
Wet crocking: 3 or above

Tested component:  
(1) Brown short pile plush.

Date sample received : Dec 07, 2016  
Test Period : Dec 07, 2016 to Dec 12, 2016

(8) Machine Washing

Test Standard : Section 8.5.1 of the ASTM Standard Consumer Safety Specification on Toy Safety  
F963-11.

Age group for testing : For All Ages

Observation: After washing, neither sharp point, sharp edge nor released small parts was found on the submitted samples.

Date sample received : Dec 07, 2016  
Test Period : Dec 07, 2016 to Dec 12, 2016

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(9) Toxic Elements Analysis

Test Method : Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

Materials other than modelling clay:

	Result (mg/kg)			Limit (mg/kg)
	(8)	(9)	(10)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (mg/kg)			Limit (mg/kg)
	(11)	(12)	(13)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (mg/kg)	Limit (mg/kg)
	(14)	
Soluble Barium (Ba)	<5	1000
Soluble Lead (Pb)	<5	90
Soluble Cadmium (Cd)	<5	75
Soluble Antimony (Sb)	<5	60
Soluble Selenium (Se)	<5	500
Soluble Chromium (Cr)	<5	60
Soluble Mercury (Hg)	<5	60
Soluble Arsenic (As)	<2.5	25

mg/kg = milligram per kilogram

@ : Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.

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**Tested Components:**

- (1) @ Dark pink coating on plastic (eyes of bunny of Blossom Ear-Resistible teether, Bud Ear-Resistible teether).
- (2) @ Pink coating on plastic (nose of bunny of Blossom Ear-Resistible teether, Bud Ear-Resistible teether).
- (3) @ Pale pink coating on plastic (blushes of bunny of Blossom Ear-Resistible teether, Bud Ear-Resistible teether).
- (4) @ Dull brown coating on plastic (eyes of bunny of Skipit Ear-Resistible teether).
- (5) @ Light brown coating on plastic (eyes of bunny of Skipit Ear-Resistible teether).
- (6) @ Dim brown coating on plastic (nose of bunny of Skipit Ear-Resistible teether).
- (7) @ Light pink coating on plastic (blushes of bunny of Skipit Ear-Resistible teether).
- (8) Beige plastic (body of all styles).
- (9) White satin with brown printing (sewn-in label of all styles).
- (10) Pale blue fabric with multicolor thread stitching and white thread (sewn-in label of all styles).
- (11) Beige satin (ears of all styles).
- (12) 3 mm pink plush (ears of Blossom Ear-Resistible teether).
- (13) 3 mm blue plush (ears of Bud Ear-Resistible teether).
- (14) 3 mm pale brown plush (ears of Skipit Ear-Resistible teether).

Date sample received : Dec 07, 2016

Test Period : Dec 07, 2016 to Dec 12, 2016

(10) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Six Phthalate content:

Compounds	Result (% w/w)		Limit (% w/w)
	(1)	(2)	
Dibutyl phthalate (DBP)	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	0.1

The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.

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Tested Components:

- (1) Coatings on plastic (body of all styles).
- (2) Beige plastic (body of all styles).

Date sample received : Dec 07, 2016  
Test Period : Dec 07, 2016 to Dec 12, 2016

(11) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compounds	Result (% , w/w)	
	(1)	(2)
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01
Diisobutyl phthalate (DIBP)	<0.01	<0.01
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	<0.01
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	<0.01

The above phthalates were quoted from Federal Register, Vol. 79, No. 249, December 30, 2014, Proposed Rules for "Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates".

Tested Components:

- (1) Coatings on plastic (body of all styles).
- (2) Beige plastic (body of all styles).

Date sample received : Dec 07, 2016  
Test Period : Dec 07, 2016 to Dec 12, 2016

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End of report

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