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Hong Kong Toys Council

**Test Report**

Number: HKGH01758522

Applicant: SCHYLLING INC  
306 NEWBURYPORT TURNPIKE  
ROWLEY MA 01969  
USA

Date: Feb 13, 2015

Attn: KIMBERLY CLARK

Submitted sample said to be	:	
Item Name	:	<b>Animal Sound Maker-Tin</b>
Item No.	:	<b>PO-124210</b>
Quantity	:	24 pieces
Labelled Age Group	:	"Over 18 mths"
Packaging Provided	:	Yes
Vendor	:	Wing Hing Metal



HKGH01758522-01

\*\*\*\*\*  
To be continued

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 for physical and Mechanical tests	Pass
(2) U.S. CFR Title 16 (CPSC Regulations) Part 1500.48, 1500.49 & 1501 - Sharp point, Sharp edge & Small part	Pass
(3) U.S. CFR Title 16 (CPSC Regulations) - Part 1500.3(c)(6)(vi) - Flammability test on rigid and pliable solids	Pass
(4) EN71-1: 2011 +A3: 2014 for mechanical and physical properties	Pass
(5) EN71-2: 2011 + A1: 2014 for Flammability Test	Pass
(6) EN71-1: 2014 for mechanical and physical properties	Pass
(7) ASTM F963-11 for Flammability Test of Materials other than textile materials	Pass
(8) ASTM F963-11 - Total Lead content	Pass
(9) ASTM F963-11 - Soluble heavy elements test	Pass
(10) U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in non-surface coating materials (substrate)	Pass
(11) 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

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To be continued

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<u>Requirement</u>	<u>Result</u>
(12) Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 - Tracking labels for children products	Pass
(13) U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 108 - Phthalate content	Pass
(14) EN71-3 : 2013 - Migration of certain elements	Pass
(15) EN71-3 : 2013 + A1:2014 - Migration of certain elements	Pass
(16) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52 & amendment no. 552/2009 (formerly known as Directive 2005/84/EC) - Phthalates content	Pass
(17) California Proposition 65 for toys (designed for or reasonable used by children under six years of age), Consent Judgement no. BG-350969 / RG-356892 - Lead content	Pass
(18) California Proposition 65 for Toys (designed for or reasonable used by children under six years of age) , Consent judgment no. BG-350969 - Phthalate content	Pass
(19) California Health and Safety Code, Part 3 of Division 104, Chapter 11 (AB1108) - Requirement on phthalate	Pass
(20) Illinois Lead Poisoning Prevention Act 410 ILCS 45 - Total Lead content	Pass
(21) Model Toxics in Packaging Legislation (packaging materials) - Toxic elements test	Pass
(22) 94/62/EC and amendment 2005/20/EC & 2013/2/EU Directive (packaging waste) - Toxic elements test	Pass

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**Test Report**

Number: HKGH01758522

Tests Conducted

(1) Physical and Mechanical Tests

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

Age group for testing : For Ages Over 18 Months

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
Drop Test	Section 1500.53(b)	4 x 3.0 ft
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf
Compression test	Section 1500.53(g)	30 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	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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Tests Conducted

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
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 : Feb 09, 2015  
Testing period : Feb 09, 2015 to Feb 10, 2015

(2) Physical and Mechanical Test

Test Standard : U.S. code of Federal Regulations Title 16 Part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

Age group for testing : For Ages Over 18 Months

	<u>No. of sample tested</u>	<u>Sharp point (1500.48)</u>	<u>Sharp edge (1500.49)</u>	<u>Small part (1501)</u>
As Received	8	P	P	P
Impact (1500.53 (b))	4	P	P	P
Flexure (1500.53 (d))	0	NA	NA	NA
Torque (1500.53 (e))	4	P	P	P
Tension (1500.53 (f))	4	P	P	P
Compression (1500.53 (g))	4	P	P	P

Date sample received : Feb 09, 2015  
Testing period : Feb 09, 2015 to Feb 10, 2015

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**Test Report**

Number: HKGH01758522

**Tests Conducted**

(3) Flammability Tests

Test Standard : U.S. Code of Federal Regulations Title 16 Part 1500.44 for rigid and pliable solids.

Result : Did Not Ignite.

Date sample received : Feb 09, 2015

Testing period : Feb 09, 2015 to Feb 10, 2015

(4) Physical and Mechanical Tests

Test Standard : European Standard on Safety of toys EN71-1:2011 + A3: 2014

Age group for testing : For Ages Over 18 Months

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

<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
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	P
4.21	Toys containing non -electrical heat source	NA





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Clause	Requirement	Assessment
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	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA
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	NA

Abbreviation : P = Pass NA = Not Applicable

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Tests Conducted

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

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:

- Importer's name and address was missed
- CE-marking was missed

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 found on the submitted samples.

Date sample received : Feb 09, 2015  
Testing period : Feb 09, 2015 to Feb 10, 2015

(5) Flammability Test

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

<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
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 : Feb 09, 2015  
Testing period : Feb 09, 2015 to Feb 10, 2015

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**Test Report**

Number: HKGH01758522

Tests Conducted

(6) Physical and Mechanical Tests

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

Age group for testing : For Ages Over 18 Months

Clause	Testing Items
8.3	Torque test ( 0.34 Nm )
8.5	Drop Test ( 850 mm x 5 )
8.4.2.1	Tension test ( 90 N )
8.8	Compression test ( 110 N )
8.7	Impact test ( 1 kg )

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	P
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	NA





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Clause	Requirement	Assessment
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA
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	NA

Abbreviation : P = Pass NA = Not Applicable

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

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

Date sample received : Feb 09, 2015

Testing period : Feb 09, 2015 to Feb 10, 2015

(7) Flammability Tests

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

Result : Did Not Ignite.

Date sample received : Feb 09, 2015

Testing period : Feb 09, 2015 to Feb 10, 2015

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Tests Conducted

(8) 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-E1001-08.1, CPSC-CH-E1002-08.1 or/and CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

(I) Surface coating

Tested Component	Result in ppm	Limit (ppm)
(1)	<20	90

(II) Non-surface coating

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

ppm = parts per million = mg/kg

Tested Components :

- (1) Lacquer with base coatings on metal (casing of all sound maker).
- (2) Silver color metal excluding coatings (casing of all sound maker).

Date sample received : Feb 09, 2015

Testing period : Feb 09, 2015 to Feb 12, 2015

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Tests Conducted

(9) 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.

Elements	Result in ppm	Limit ppm
	(1)	
Sol. Barium (Ba)	<5	1000
Sol. Lead (Pb)	<5	90
Sol. Cadmium (Cd)	<5	75
Sol. Antimony (Sb)	<5	60
Sol. Selenium (Se)	<5	500
Sol. Chromium (Cr)	5	60
Sol. Mercury (Hg)	<5	60
Sol. Arsenic (As)	<2.5	25

Sol. = Soluble  
 ppm = parts per million = mg/kg

Tested Component :

(1) Lacquer with base coatings on metal (casing of all sound maker).

Date sample received : Feb 09, 2015  
 Testing period : Feb 09, 2015 to Feb 12, 2015

(10) 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

ppm = parts per million = mg/kg

Tested Component :

(1) Silver color metal excluding coatings (casing of all sound maker).

Date sample received : Feb 09, 2015  
 Testing period : Feb 09, 2015 to Feb 12, 2015

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Tests Conducted

(11) 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

ppm = parts per million = mg/kg

Tested Component :

(1) Lacquer with base coatings on metal (casing of all sound maker).

Date sample received : Feb 09, 2015  
Testing period : Feb 09, 2015 to Feb 12, 2015

(12) Tracking Label Assessment

Test Standard : Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 tracking labels for children products.

Tracking label found on the packaging:

- Schylling
- Made in China, Dongguan
- 15015W

Tracking label found on the product:

- Schylling
- Made in China, Dongguan
- 15015W

Note : The tracking label assessment was based on the submitted sample and the information provided by the applicant. There was no verification on the validity of such information.

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(13) Phthalate Content Test

Test Standard : 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)	Limit (% w/w) (max.)
	(1)	
Dibutyl phthalate (DBP)	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	0.1

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

Tested Component :

(1) Lacquer with base coatings on metal (casing of sound maker).

Date sample received : Feb 09, 2015

Testing period : Feb 09, 2015 to Feb 11, 2015

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**Test Report**

Number: HKGH01758522

Tests Conducted

(14) 19 Toxic Element Migration Test

Test Standard : EN71-3:2013

Category (III): Scraped-off toy material

Element	Result (mg/kg)	Limit (mg/kg)
	(1)	
Aluminium (Al)	< 300	70000
Antimony (Sb)	< 10	560
Arsenic (As)	< 10	47
Barium (Ba)	< 10	18750
Boron (B)	< 50	15000
Cadmium (Cd)	< 5	17
Chromium (III) (Cr III) **	<10	460
Chromium (VI) (Cr VI) **	< 0.1#	0.2
Cobalt (Co)	< 10	130
Copper (Cu)	< 10	7700
Lead (Pb)	< 10	160
Manganese (Mn)	< 10	15000
Mercury (Hg)	< 10	94
Nickel (Ni)	< 10	930
Selenium (Se)	< 10	460
Strontium (Sr)	< 100	56000
Tin (Sn)	< 10	180000
Organic tin **	< 2.0	12
Zinc (Zn)	< 100	46000

Remark : mg/kg = milligram per kilogram  
 \*\* = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.  
 - Organic tin test result was expressed as tributyl tin.  
 - As per General Court of the European Union Judgment in Case T-198/12 dated 14 May 2014, the General Court confirmed that Germany could maintain its limit value for Lead(Pb)(90mg/kg) in toys but not for Antimony (Sb), Arsenic (As), Mercury (Hg) and Barium (Ba).  
 # = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Tested Component :

(1) Lacquer with base coatings on metal (casing of all sound maker).

Date sample received : Feb 09, 2015

Testing period : Feb 09, 2015 to Feb 12, 2015

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**Test Report**

Number: HKGH01758522

Tests Conducted

(15) 19 Toxic Element Migration Test

Test Standard : EN71-3:2013 + A1:2014

Category (III): Scraped-off toy material

Element	Result (mg/kg)	Limit (mg/kg)
	(1)	
Aluminium (Al)	< 300	70000
Antimony (Sb)	< 10	560
Arsenic (As)	< 10	47
Barium (Ba)	< 10	18750
Boron (B)	< 50	15000
Cadmium (Cd)	< 5	17
Chromium (III) (Cr III) **	<10	460
Chromium (VI) (Cr VI) **	< 0.1#	0.2
Cobalt (Co)	< 10	130
Copper (Cu)	< 10	7700
Lead (Pb)	< 10	160
Manganese (Mn)	< 10	15000
Mercury (Hg)	< 10	94
Nickel (Ni)	< 10	930
Selenium (Se)	< 10	460
Strontium (Sr)	< 100	56000
Tin (Sn)	< 10	180000
Organic tin **	< 2.0	12
Zinc (Zn)	< 100	46000

Remark :

mg/kg = milligram per kilogram

\*\* = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

- Organic tin test result was expressed as tributyl tin.

- As per General Court of the European Union Judgment in Case T-198/12 dated 14 May 2014, the General Court confirmed that Germany could maintain its limit value for Lead(Pb)(90mg/kg) in toys but not for Antimony (Sb), Arsenic (As), Mercury (Hg) and Barium (Ba).

# = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Tested Component :

(1) Lacquer with base coatings on metal (casing of all sound maker).

Date sample received : Feb 09, 2015

Testing period : Feb 09, 2015 to Feb 12, 2015

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**Test Report**

Number: HKGH01758522

Tests Conducted

(16) Phthalate Content Test

Test Method : EN14372, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compounds	Result (%, w/w)			Limit (%, w/w) (max.)
	(1)	(2/3)	(4)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	<0.01	0.1
Di-iso-nonyl phthalate (DINP)	<0.01	--	--	--
Di-n-octyl phthalate (DnOP)	<0.01	--	--	--
Di-iso-decyl phthalate (DIDP)	<0.01	--	--	--
Sum of DINP,DnOP & DIDP	<0.01	--	--	0.1

Compounds	Result (%, w/w)		Limit (%, w/w) (max.)
	(5/6)	(7)	
Dibutyl phthalate (DBP)	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	0.1

Remark : The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 (formerly known as Directive 2005/84/EC) for phthalate content in toys and childcare articles.

Tested components :

- (1) Lacquer with base coatings on metal (casing of sound maker).
- (2) Black plastic (inner case) (internal).
- (3) Black foam (interlining) (internal).
- (4) Plastic part of sound maker (internal).
- (5) Grey paper board (sound maker) (internal).
- (6) Brown paper sheet (sound maker) (internal).
- (7) White non-woven fabric (sound maker) (internal).

Date sample received : Feb 09, 2015

Testing period : Feb 09, 2015 to Feb 11, 2015

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**Test Report**

Number: HKGH01758522

Tests Conducted

(17) Total Lead (Pb) content

Test Method: Acid digestion and analysed by Inductively Coupled Argon Plasma Spectrometry.

(I) Surface coating

Tested Component	Result in %	Limit in %
(1)	<0.002	0.009

(II) Non-surface coating

Tested Component	Result in %	Limit in %
(2)	<0.002	0.01

The above limit was quoted from the Consent Judgement no. BG-350969, RG-356892 settled by Superior Court of the State of California for the County of Alameda, for toys based on the California Proposition 65.

Tested Components :

- (1) Lacquer with base coatings on metal (casing of all sound maker).
- (2) Silver color metal excluding coatings (casing of all sound maker).

Date sample received : Feb 09, 2015  
 Testing period : Feb 09, 2015 to Feb 12, 2015

(18) Phthalate Content Test

Test method: Solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% , w/w)	Limit (% , w/w) (max.)
	(1)	
Dibutyl phthalate (DBP)	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	0.1
Di-n-hexyl phthalate (DnHP)	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	--

Remark : The above limit was quoted from the Consent Judgment no. BG-350969 settled by superior court of the state of California for the county of Alameda, for Toys (designed for or reasonable used by children under six years of age) based on the California Proposition 65.

Tested Component :

- (1) Lacquer with base coatings on metal (casing of sound maker).

Date sample received : Feb 09, 2015  
 Testing period : Feb 09, 2015 to Feb 11, 2015

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**Test Report**

Number: HKGH01758522

Tests Conducted

(19) Phthalate Content Test

Test Method : ASTM D3421, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% w/w)			Limit (% w/w) (max.)
	(1)	(2/3)	(4)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)		Limit (% w/w) (max.)
	(5/6)	(7)	
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

Remark : The above limit was quoted according to California Health and Safety Code, Part 3 of Division 104, Chapter 11 prohibiting the sales of toys and child care articles made with phthalates (AB1108).

Tested components :

- (1) Lacquer with base coatings on metal (casing of sound maker).
- (2) Black plastic (inner case) (internal).
- (3) Black foam (interlining) (internal).
- (4) Plastic part of sound maker (internal).
- (5) Grey paper board (sound maker) (internal).
- (6) Brown paper sheet (sound maker) (internal).
- (7) White non-woven fabric (sound maker) (internal).

Date sample received : Feb 09, 2015  
 Testing period : Feb 09, 2015 to Feb 11, 2015

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**Test Report**

Number: HKGH01758522

Tests Conducted

(20) Total Lead (Pb) content

Test Method : Illinois Lead Poisoning Prevention Act 410 ILCS 45, acid digestion method and analysed by Inductively Coupled Argon Plasma Spectrometry.

(I) Surface coating

Tested Component	Result in %	Warning Statement Limit in %	Limit in %
(1)	<0.002	0.004	0.009

(II) Non-surface coating

Tested Component	Result in %	Warning Statement Limit in %	Limit in %
(2)	<0.002	--	0.01

Tested Components :

- (1) Lacquer with base coatings on metal (casing of all sound maker).
- (2) Silver color metal excluding coatings (casing of all sound maker).

Date sample received : Feb 09, 2015  
Testing period : Feb 09, 2015 to Feb 12, 2015

(21) Toxic Elements Analysis

Test Method : Model Toxics in Packaging Legislation requirement of packaging and packaging components, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

Elements	Result in ppm				Limit in (ppm)
	(1)	(2)	(3)	(4)	
Lead (Pb)	<5	<5	<5	<5	--
Cadmium (Cd)	<5	<5	<5	<5	--
Mercury (Hg)	<5	<5	<5	<5	--
Chromium VI (Cr (VI))	<1	<1	<1	<1	--
Sum of Pb, Cd, Hg and Cr (VI)	<16	<16	<16	<16	100

ppm = parts per million = mg/kg

Tested Components :

- (1) Transparent plastic sheet (polybag) (packaging).
- (2) White/dull brown paper board (insert tray) (packaging).
- (3) Paper board excluding coatings (printed box) (packaging).
- (4) Coatings on paper board (printed box) (packaging).

Date sample received : Feb 09, 2015  
Testing period : Feb 09, 2015 to Feb 12, 2015

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**Test Report**

Number: HKGH01758522

Tests Conducted

(22) Toxic Elements Analysis

Test Method : 94/62/EC and amendment 2005/20/EC & 2013/2/EU Directive on packaging and packaging waste, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

Elements	Result in ppm				Limit in (ppm)
	(1)	(2)	(3)	(4)	
Lead (Pb)	<5	<5	<5	<5	--
Cadmium (Cd)	<5	<5	<5	<5	--
Mercury (Hg)	<5	<5	<5	<5	--
Chromium VI (Cr (VI))	<1	<1	<1	<1	--
Sum of Pb, Cd, Hg and Cr (VI)	<16	<16	<16	<16	100

ppm = parts per million = mg/kg

Tested Components :

- (1) Transparent plastic sheet (polybag) (packaging).
- (2) White/dull brown paper board (insert tray) (packaging).
- (3) Paper board excluding coatings (printed box) (packaging).
- (4) Coatings on paper board (printed box) (packaging).

Date sample received : Feb 09, 2015  
Testing period : Feb 09, 2015 to Feb 12, 2015

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End of report

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