TEST REPORT

Applicant: EDISON NATION LLC
11 WEST BROAD STREET
SUITE 1004 BETHLEHEM
PA 18018

Attn: TRACY SHI

Number: HKGH02711375 S1

Date: May 07, 2021

This is to supersede Report No. HKGH02711375 dated May 07, 2021 due to information update

Submitted sample said to be	:	
Item Name	:	**7303-Z8 Sleep Sheep** **7302-ZZ Sleep Sheep On The Go** **7663-PP Peaceful Panda** **7470-FX Frankie The Fox** **7362-GG Gentle Giraffe On**
Quantity	:	6 pieces each
Labelled Age Group	:	"0+"
Packaging Provided	:	Yes
Manufacturer	:	Edison Nation Inc.
Buyer	:	Cloud b Inc
Country of Origin	:	China

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

Cindy I.K. Chan
Vice President

Intertek Testing Services Hong Kong Limited
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576 Castle Peak Road
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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 :

	Requirement	Result
(1)	EN 71-1 : 2014 + A1 : 2018 - Mechanical and physical properties	Pass
(2)	EN 71-2:2011 + A1:2014 - Flammability Test	Pass
(3)	EN 71-3:2019 - Migration of certain elements	Pass
(4)	REACH Regulation (EC) No.1907/2006 , Annex XVII Item 23 & amendment No. 2016/217 - Cadmium content requirement	Pass
(5)	REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52, amendment no. 552/2009 & 2018/2005 - Phthalates content	Pass
(6)	RoHS Directive (2011/65/EU) - Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment	Pass
(7)	RoHS Directive (2011/65/EU) and amendment Commission Delegated Directive (EU) 2015/863 - Phthalates content	Pass
(8)	EN 62115 : 2005 + A12 : 2015 Safety of electric toys	Pass (Subjected to remark enclosed)
(9)	EN IEC 62115 : 2020 + A11 : 2020 Safety of electric toys	Pass (Subjected to remark enclosed)
(10)	REACH Regulation (EC) no. 1907/2006, Annex XVII Item 43 & amendment (EC) no. 552/2009 and (EU) no. 2096/2020 - Azocolourants content ∞	Pass

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Requirement	Result
(11) U.S. ASTM F963-17 - Physical and Mechanical tests	Pass
(12) U.S. ASTM F963-17 Section 4.25, 5.15 & 6.5 - Battery-operated toys	Pass
(13) ASTM F963-17 - Flammability Test of Materials other than textile materials	Pass
(14) ASTM F963-17 - Total Lead content	Pass
(15) ASTM F963-17 - Soluble heavy elements test ∞	Pass
(16) U.S. CFR Title 16 (CPSC Regulations) - Part 1303 - Total Lead content in surface coating	Not Applicable
U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in surface coating	Not Applicable
(17) U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in non-surface coating materials (substrate)	Pass
(18) ASTM F963-17 - Section 4.3.7 Stuffing Cleanliness Test	Pass
(19) US CPSC 16 CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates - Phthalate content	Pass
(20) 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
(21) California Proposition 65 for toys, Consent Judgement no. RG-356892 - Lead content	Pass
(22) Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 (last amended on 11 January 2019) section 21 - Celluloid or Cellulose nitrate	Pass

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Requirement	Result
(23) Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 (last amended on 11 January 2019) - Mechanical and physical test	Pass
(24) Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 Section 32 - Flammability test	Pass
(25) Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 section 23 with amendments SOR/2016-195 - Toxic elements test	Not Applicable
(26) Canada Consumer Product Safety Act Toys Regulations (SOR/2011-17) Item 27(3)(a)&(b) and amendment no. SOR/2016-195 - Heavy elements test	Pass

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Decision Rule(s):
When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. https://intertekhk.grd.by/decision-rule-doc..
If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.
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(1) Mechanical and Physical Test

Test Standard : European Standard on Safety of Toys EN 71-1:2014 + A1:2018

Age group for testing : For All Ages

The submitted samples were undergone the following abuse tests:

Clause	Testing Items
8.3	Torque test (0.34 Nm)
8.4.2.1	Tension test (90 N)
8.4.2.2	Seams and meterials (70 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	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
4.26	Toy Disguise Costumes	NA
4.27	Flyings	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	P
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
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	P

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Clause	Requirement	Assessment
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
5.15	Sledges with cords for pulling (7.24)	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 teethers	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
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Abbreviation : P = Pass NA = Not Applicable

As requested by applicant, samples were tested to EN71-1 both before and after washing.
No difference in test results before and after washing. Test method of washing is not accredited.

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The submitted samples were undergone the abuse tests for Clause 5.1 and 5.2 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.

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

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.

The submitted samples are textile toys and do not contain any mechanism that may be damaged if soak washed. However, it was labelled as surface wash, the labelling is considered not appropriate.

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 27, 2021

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(2) Flammability Test

Test Standard : European Standard on Safety of Toys EN 71-2:2011 + 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	P

Abbreviation : P = Pass NA = Not Applicable

As requested by applicant, samples were tested to EN71-2 both before and after washing.
No difference in test results before and after washing.

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 27, 2021

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(3) 19 Toxic Element Migration Test

Test Method : EN 71-3:2019. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit
	(1)	(2)	(3)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit
	(4)	(5)	(6)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
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	Result (mg/kg)			Limit
	(7)	(8)	(9)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
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Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
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	Result (mg/kg)			Limit
	(10)	(11)	(12)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
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	Result (mg/kg)			Limit
	(16)	(17)	(18)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
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	Result (mg/kg)			Limit
	(19)	(20)	(21)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
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	Result (mg/kg)			Limit
	(22)	(23)	(24)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
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Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
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	Result (mg/kg)			Limit
	(25)	(26)	(27)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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TEST REPORT

Number : HKGH02711375 S1

	Result (mg/kg)			Limit
	(28)	(29)	(30)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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TEST REPORT

Number : HKGH02711375 S1

	Result (mg/kg)		Limit
	(31)	(32)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	560
Soluble Arsenic (As)	<10	<10	47
Soluble Barium (Ba)	<10	<10	18750
Soluble Boron (B)	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	130
Soluble Copper (Cu)	<10	<10	7700
Soluble Lead (Pb)	<10	<10	23
Soluble Manganese (Mn)	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	94
Soluble Nickel (Ni)	<10	<10	930
Soluble Selenium (Se)	<10	<10	460
Soluble Strontium (Sr)	<100	<100	56000
Soluble Tin (Sn)	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI) .

The new aluminium migration limit [2250mg/kg for Category (I), 560mg/kg for category (II) and 28130mg/kg for Category (III)] was quoted from directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021.

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TEST REPORT

Number : HKGH02711375 S1

Tested Components:

(1) Beige plastic (buttons, knob, body, ON/OFF Switch of sound maker).
(2) Beige hooked velcro (strap, buckle of sheep, giraffe, fox).
(3) Ivory hooked velcro (strap, buckle of panda).
(4) White satin with black printing (sewn-in label).
(5) Beige satin with olive printing (bow of sheep).
(6) White woven with blue / light blue / light green threads stitching (brand label).
(7) Beige looped velcro (strap, buckle of sheep, giraffe, fox).
(8) Ivory looped velcro (strap, buckle of panda).
(9) Beige woven with beige thread (lining, buckle of sheep, giraffe, fox).
(10) Ivory woven with beige thread (lining, buckle of panda).
(11) 6mm beige plush (body of sheep).
(12) Bright brown velour (ears, foot, hands, strap of sheep).
(13) 6mm white plush with brown printing (body of giraffe).
(14) Brown velour (horns, foot, hands, strap of giraffe).
(15) Ivory velour (ears, face of giraffe).
(16) Dark brown velour (strap of fox).
(17) Greyish white velour (face of panda).
(18) Light ivory velour (strap of panda).
(19) 8mm orangish brown plush (body, tail, buckle of fox).
(20) 8mm light grey plush (body, ears, eyes, tail of panda).
(21) 8mm dull white plush (body of panda).
(22) 8mm grey plush (eyes, foot, hand of fox).
(23) 8mm off-white plush (ears, body of fox).
(24) 15mm dark brown/ light brown plush (mane of giraffe).
(25) Bright grey velour (nose of panda).
(26) Brown embroidery thread (eyes of sheep; eyes, nose of giraffe).
(27) Dull brown embroidery thread (mouth of sheep).
(28) Black embroidery thread (eyes of fox).
(29) White embroidery thread (eyes of sheep).
(30) Dark brown embroidery thread (eyes of panda).
(31) Silver color embroidery thread (mouth of panda).
(32) Dark grey embroidery thread (nose of fox).

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 25, 2021

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TEST REPORT

Number : HKGH02711375 S1

(4) Cadmium (Cd) Content

Test Method : Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2/3)	ND	0.01
(4)	ND	0.01
(5/6/7)	ND	0.01
(8/9/10)	ND	0.01
(11/12/13)	ND	0.01
(14/15/16)	ND	0.01
(17/18/19)	ND	0.01
(20)	ND	0.01

ND : Not detected (< 0.0005%)

The above limit was quoted according to REACH Regulation (EC) No. 1907/2006, Annex XVII Item 23 & amendment No. 2016/217.

Tested Components:

(1) Beige plastic (buttons, knob, body, ON/OFF Switch of sound maker).
(2) Beige hooked velcro (strap, buckle of sheep, giraffe, fox).
(3) Ivory hooked velcro (strap, buckle of panda).
(4) White paper sheet with plastic film (cover of instruction book).
(5) Transparent plastic (washer of battery door) (internal).
(6) Black foam (battery door, back of speaker) (internal).
(7) Yellow glue (internal).
(8) Transparent glue (internal).
(9) Black glue (internal).
(10) Green printed yellow PCB (internal).
(11) Green printed brown PCB (internal).
(12) Translucent/ black plastic (keypad) (internal).
(13) Red plastic (wire covering) (internal).
(14) White plastic (wire covering) (internal).
(15) Black plastic (wire covering) (internal).
(16) Grey/ red plastic (wire covering) (internal).
(17) White plastic (heat shrink tube) (internal).
(18) Black plastic (on/off switch) (internal).
(19) Brown PCB (backed of on/off switch) (internal).
(20) Plastic parts of microphone (internal).

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 25, 2021

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(5) Phthalate Content Test

Test Method : ISO 8124-6 : 2018 method A with internal standard calibration, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Seven Phthalates content:

Compound	Result (%, w/w)	Limit (%, w/w)
	(1/2/3)	
Dibutyl phthalate (DBP)	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	--
Diisobutyl phthalate (DIBP)	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	--
Sum of DINP, DnOP & DIDP	<0.01	0.1

Four Phthalates content:

Compound	Result (%, w/w)			Limit (%, w/w)
	(4/5/6)	(7/8/9)	(10/11/12)	
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	--
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(13/14/15)	(16/17/18)	(19)	
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	--
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	<0.01	<0.01	0.1

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The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 taking into account the (EU) regulation 2018/2005 modifying entry 51 for which the DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination with the first three phthalates which already exist in the entry 51, in a concentration equal to or greater than 0,1 % by weight of the plasticised material.

Tested Components:

(1) Beige plastic (buttons, knob, body, ON/OFF Switch of sound maker).
(2) Beige hooked velcro (strap, buckle of sheep, giraffe, fox).
(3) Ivory hooked velcro (strap, buckle of panda).
(4) Transparent plastic (washer of battery door) (internal).
(5) Black foam (battery door, back of speaker) (internal).
(6) Yellow glue (internal).
(7) Transparent glue (internal).
(8) Black glue (internal).
(9) Green printed yellow PCB (internal).
(10) Green printed brown PCB (internal).
(11) Translucent/ black plastic (keypad) (internal).
(12) Red plastic (wire covering) (internal).
(13) White plastic (wire covering) (internal).
(14) Black plastic (wire covering) (internal).
(15) Grey/ red plastic (wire covering) (internal).
(16) White plastic (heat shrink tube) (internal).
(17) Black plastic (on/off switch) (internal).
(18) Brown PCB (backed of on/off switch) (internal).
(19) Plastic parts of microphone (internal).

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 24, 2021

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TEST REPORT

Number : HKGH02711375 S1

(6) RoHS Test

(A) Result :

Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(1)	ND	ND	ND	ND	ND	--
(2)	ND	ND	ND	ND	ND	--
(3)	ND	ND	ND	ND	ND	--
(4)	ND	ND	ND	ND	ND	--
(5)	ND	ND	ND	ND	ND	--
(6)	ND	ND	ND	ND	ND	--
(7)	ND	ND	ND	ND	ND	--
(8)	ND	ND	ND	ND	ND	--
(9)	ND	ND	ND	ND	ND	--
(10)	ND	ND	ND	ND	ND	--
(11)	ND	ND	ND	ND	ND	--
(12)	ND	ND	ND	ND	ND	--
(13)	ND	ND	ND	ND	ND	--
(14)	ND	ND	ND	ND	ND	--
(15)	ND	ND	ND	ND	ND	--
(16)	ND	ND	ND	ND	ND	--
(17)	ND	ND	ND	ND	ND	--
(18)	ND	ND	ND	ND	ND	--
(19)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(20)	ND	ND	ND	ND	ND	--
(21)	ND	ND	ND	ND	ND	--
(22)	ND	ND	ND	ND	ND	--
(23)	ND	ND	ND	ND	ND	--
(24)	ND	ND	ND	ND	ND	--
(25)	ND	ND	ND	ND	ND	--
(26)	ND	ND	ND	ND	ND	--
(27)	ND	ND	ND	ND	ND	--
(28)	ND	ND	ND	ND	ND	--
(29)	ND	ND	ND	ND	ND	--
(30)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND

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TEST REPORT

Number : HKGH02711375 S1

Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(31)	ND	ND	ND	ND	ND	--
(32)	ND	ND	ND	ND	ND	--
(33)	ND	ND	ND	ND	ND	--
(34)	ND	ND	ND	ND	ND	--
(35)	ND	ND	ND	ND	ND	--
(36)	ND	ND	ND	ND	ND	--
(37)	ND	D	ND	ND	NA	--
(38)	ND	ND	ND	ND	NA	--
(39)	ND	ND	ND	ND	NA	--
(40)	ND	D	ND	ND	NA	--
(41)	ND	ND	ND	ND	NA	--
(42)	ND	ND	ND	ND	NA	--
(43)	ND	ND	ND	ND	ND	--
(44)	ND	ND	ND	ND	ND	--
(45)	ND	ND	ND	ND	ND	--
(46)	ND	ND	ND	ND	NA	--
(47)	ND	ND	ND	ND	ND	--
(48)	ND	ND	ND	ND	NA	--
(49)	ND	ND	ND	ND	ND	--
(50)	ND	ND	ND	ND	NA	--
(51)	ND	ND	ND	ND	ND	--
(52)	ND	ND	ND	ND	NA	--
(53)	ND	ND	ND	ND	ND	--
(54)	ND	D	ND	ND	NA	--
(55)	ND	ND	ND	ND	ND	--
(56)	ND	ND	ND	ND	NA	--
(57)	ND	D	ND	D	NA	--
(58)	ND	ND	ND	ND	NA	--
(59)	ND	ND	ND	ND	ND	--
(60)	ND	ND	ND	ND	NA	--
(61)	ND	ND	ND	ND	NA	--
(62)	ND	ND	ND	ND	NA	--
(63)	ND	ND	ND	D	NA	--
(64)	ND	ND	ND	ND	ND	--
(65)	ND	ND	ND	ND	ND	--
(66)	ND	D	ND	ND	NA	--

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Screened Components	XRF Results (mg/kg)					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(67)	ND	ND	ND	ND	ND	--
(68)	ND	D	ND	ND	NA	--
(69)	ND	ND	ND	ND	ND	--
(70)	ND	ND	ND	ND	ND	--
(71)	ND	ND	ND	ND	ND	--
(72)	ND	ND	ND	ND	ND	--
(73)	ND	ND	ND	ND	ND	--
(74)	ND	D	ND	#	ND	Cr^{6+}:ND
(75)	ND	ND	ND	ND	ND	--
(76)	ND	ND	ND	ND	NA	--
(77)	ND	ND	ND	ND	#	PBBs:ND PBDEs:ND
(78)	ND	ND	ND	ND	ND	--
(79)	ND	ND	ND	ND	ND	--
(80)	ND	ND	ND	ND	ND	--
(81)	ND	ND	ND	ND	NA	--
(82)	ND	#1	ND	D	NA	--
(83)	ND	ND	ND	ND	ND	--
(84)	ND	ND	ND	ND	NA	--
(85)	ND	ND	ND	ND	NA	--
(86)	ND	D	ND	ND	NA	--
(87)	ND	ND	ND	ND	NA	--
(88)	ND	ND	ND	ND	ND	--
(89)	ND	ND	ND	ND	NA	--
(90)	ND	ND	ND	ND	ND	--

ND : Not Detected

NA : Not Applicable

D : Detected : Below the lower screening limit of table(B) and pass.

ppm : part per million = mg/kg

: Inconclusive

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TEST REPORT

Number : HKGH02711375 S1

#1 : As confirmed by the client, the Lead content of the component is coming from copper alloy only. According to EU RoHS Directive, Lead as an alloying element in copper alloy can be containing up to 4% (40,000 ppm) Lead by weight. The lead content result was found below this limit.

List of Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) in chemical confirmation test:

PBBs	PBDEs
Monobromobiphenyl (monoBB)	Monobromodiphenyl ether (MonoBDE)
Dibromobiphenyl (DiBB)	Dibromodiphenyl ether (DiBDE)
Tribromobiphenyl (TriBB)	Tribromodiphenyl ether (TriBDE)
Tetrabromobiphenyl (TetraBB)	Tetrabromodiphenyl ether (TetraBDE)
Pentabromobiphenyl (PentaBB)	Pentabromodiphenyl ether (PentaBDE)
Hexabromobiphenyl (HexaBB)	Hexabromodiphenyl ether (HexaBDE)
Heptabromobiphenyl (HeptaBB)	Heptabromodiphenyl ether (HeptaBDE)
Octabromobiphenyl (OctaBB)	Octabromodiphenyl ether (OctaBDE)
Nonabromobiphenyl (NonaBB)	Nonabromodiphenyl ether (NonaBDE)
Decabromobiphenyl (DecaBB)	Decabromodiphenyl ether (DecaBDE)

(B) XRF screening limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 150 ≤ F
Pb	P ≤ 700 < X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Hg	P ≤ 700 < X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Cr	P ≤ 700 < X	P ≤ 700 < X	P ≤ 500 < X
Br	P ≤ 300 < X	Not applicable	P ≤ 250 < X

P = Pass
X = Inconclusive result
F = Fail
mg/kg = milligram per kilogram = ppm

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(C) Estimated detection limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not Applicable	200

Disclaimers:

This XRF screening report is for reference purposes only. The applicant shall make Its/His/Her own judgement as to whether the information provided in this XRF screening report is sufficient for Its/His/Her purposes.

The results shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. Plastic, Rubber, Metal, Glass, Ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

(D) Test Methods

Testing Item	Testing Method	Reporting Limit
XRF screening	With reference to IEC 62321-3-1 edition 1.0 : 2013, by X-ray fluorescence spectrometry	Refer to (C)
Cadmium (Cd) Content	With reference to IEC 62321-5 edition 1.0 : 2013, by acid digestion and determined by ICP-OES	10 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 edition 1.0 : 2013, by acid digestion and determined by ICP-OES	10 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4 edition 1.0 : 2013+AMD1:2017, by acid digestion and determined by ICP-OES	10 mg/kg
Chromium (VI) (Cr^{6+}) Content (For Non-Metal)	With reference to IEC 62321-7-2 : 2017, by alkaline digestion and determined by UV-VIS spectrophotometer	5 mg/kg
Chromium (VI) (Cr^{6+}) Content (For Leather)	With reference to EN ISO17075 : 2007, by phosphate butter extraction and determined by UV-VIS spectrophotometer	1 mg/kg
Chromium (VI) (Cr^{6+}) Content (For Metal)	With reference to IEC 62321-7-1 : 2015, by boiling water extraction and determined by UV-VIS spectrophotometer	0.1 $\mu g/cm^2$
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 : 2015, by solvent extraction and determined by GC/MS.	20 mg/kg

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TEST REPORT

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The explanation of Chromium VI (Cr^{6+}) analysis result (For Metal)

Colorimetric result	Qualitative result	Explanation
< 0.10 μg/cm^2	Negative	The result of sample is negative for Cr (VI). The sample coating is considered a non-Cr(VI) based coating.
≥ 0.10 μg/cm^2 and ≤ 0.13 μg/cm^2	Inconclusive	The result of sample is considered to be inconclusive. If addition samples are available, recommend to add trials and get the average result for the final determination.
> 0.13 μg/cm^2	Positive	The result of sample is positive for Cr(VI). The sample coating is considered to contain Cr(VI).A result expresses as positive, while not an actual value, which indicates a visual observation was used.

(E) RoHS requirements

Restricted substances	Limits
Cadmium (Cd)	0.01% (100 ppm)
Lead (Pb)	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Chromium (VI) (Cr^{6+})	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)

The above limits were quoted from Annex II of 2011/65/EU.

Tested Components:

(1) Beige plastic (buttons, knob, body, ON/OFF Switch of sound maker).
(2) Beige hooked velcro (strap, buckle of sheep, giraffe, fox).
(3) Ivory hooked velcro (strap, buckle of panda).
(4) White satin with black printing (sewn-in label).
(5) Beige satin with olive printing (bow of sheep).
(6) White woven with blue / light blue / light green threads stitching (brand label).
(7) Beige looped velcro (strap, buckle of sheep, giraffe, fox).
(8) Ivory looped velcro (strap, buckle of panda).
(9) Beige woven with beige thread (lining, buckle of sheep, giraffe, fox).

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TEST REPORT

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Tested Components:

(10) Ivory woven with beige thread (lining, buckle of panda).
(11) 6mm beige plush (body of sheep).
(12) Bright brown velour (ears, foot, hands, strap of sheep).
(13) 6mm white plush with brown printing (body of giraffe).
(14) Brown velour (horns, foot, hands, strap of giraffe).
(15) Ivory velour (ears, face of giraffe).
(16) Dark brown velour (strap of fox).
(17) Greyish white velour (face of panda).
(18) Light ivory velour (strap of panda).
(19) 8mm orangish brown plush (body, tail, buckle of fox).
(20) 8mm light grey plush (body, ears, eyes, tail of panda).
(21) 8mm dull white plush (body of panda).
(22) 8mm grey plush (eyes, foot, hand of fox).
(23) 8mm off-white plush (ears, body of fox).
(24) 15mm dark brown/ light brown plush (mane of giraffe).
(25) Bright grey velour (nose of panda).
(26) Brown embroidery thread with fabric backing (eyes of sheep; eyes, nose of giraffe).
(27) Dull brown embroidery thread with fabric backing (mouth of sheep).
(28) Black embroidery thread with fabric backing (eyes of fox).
(29) White embroidery thread with fabric backing (eyes of fox).
(30) Dark brown embroidery thread with fabric backing (eyes of panda).
(31) Silver color embroidery thread with fabric backing (mouth of panda).
(32) Dark grey embroidery thread with fabric backing (nose of fox).
(33) White stuffing material (inner body).
(34) Off-white woven (inner binding).
(35) Transparent plastic (washer).
(36) Black foam (battery door, on speaker).
(37) Silver color metal (screw).
(38) Silver color metal (washer screw).
(39) Silver color metal (nut).
(40) Silver color metal (battery spring).
(41) Silver color metal (battery contact plate).
(42) Solder (on contact plate).
(43) Red plastic (wire) (insulator).
(44) Black plastic (wire) (insulator).
(45) White plastic (wire) (insulator).
(46) Copper color metal (wire).
(47) Grey/ red plastic (flat cable).
(48) Silver color metal (wire of flat cable).
(49) White plastic (shrinkable tube).
(50) Silver color metal (frame of slide switch).
(51) Black plastic (switch of slide switch).
(52) Silver/ copper color metal (clip of slide switch).
(53) Light brown fibre board (PCB of slide switch).
(54) Silver color metal (lead of slide switch).
(55) Translucent/ black plastic (keypad).
(56) Blue plated metal (frame of speaker).
(57) Blue plated metal with black printing (magnet holder of speaker).

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TEST REPORT

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Tested Components:

(58) Dark grey metal (magnet of speaker).
(59) White paper (tag of speaker).
(60) Solder (on speaker).
(61) Silver color metal (contact plate of speaker).
(62) Silver color metal (eyelet of speaker).
(63) Blue plated metal (magnet cover of speaker).
(64) Black paper (edge of speaker).
(65) Black paper (diaphragm of speaker).
(66) Copper color metal (wire of speaker).
(67) Light brown fabric (spider of speaker).
(68) Copper color metal (coil of speaker).
(69) Light brown paper (coil holder of speaker).
(70) Black glue (on speaker).
(71) Yellow glue (on speaker).
(72) Translucent glue (on PCB).
(73) Black epoxy with chip (IC on PCB).
(74) White body with black printing with silver color metal (SMD resistor).
(75) Brown body with silver color metal (SMD capacitor).
(76) Solder (on PCB).
(77) Green/ yellow fibre board (PCB).
(78) Green/ brown fibre board (PCB).
(79) White plastic (cover of variable resistor).
(80) Black plastic (case of variable resistor).
(81) Gold color plated metal (C clip of variable resistor).
(82) Gold color metal (knob of variable resistor).
(83) Dull white plastic (knob of variable resistor).
(84) Dull silver color metal (torsion spring of variable resistor).
(85) Silver color metal (lead of variable resistor).
(86) Blue plated metal (contact plate holder of variable resistor).
(87) Copper color metal (contact plate of variable resistor).
(88) Black fibre board with silver color printing (PCB of variable resistor).
(89) Silver color metal (nail of variable resistor).
(90) Black felt (dust filter of speaker).

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 30, 2021

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(7) Phthalate Content Test

Test Method : IEC 62321-8:2017, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (%, w/w)			Limit (%, w/w)
	(1/2/3)	(4/5/6)	(7/8/9)	
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)			Limit (%, w/w)
	(10/11/12)	(13/14/15)	(16/17/18)	
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)	Limit (%, w/w)
	(19)	
Diisobutyl phthalate (DIBP)	<0.01	0.1

The above limit was quoted according to Commission Delegated Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Tested Components:

(1) Beige plastic (buttons, knob, body, ON/OFF Switch of sound maker).
(2) Beige hooked velcro (strap, buckle of sheep, giraffe, fox).
(3) Ivory hooked velcro (strap, buckle of panda).
(4) Transparent plastic (washer of battery door) (internal).
(5) Black foam (battery door, back of speaker) (internal).
(6) Yellow glue (internal).
(7) Transparent glue (internal).
(8) Black glue (internal).
(9) Green printed yellow PCB (internal).
(10) Green printed brown PCB (internal).
(11) Translucent/ black plastic (keypad) (internal).
(12) Red plastic (wire covering) (internal).
(13) White plastic (wire covering) (internal).
(14) Black plastic (wire covering) (internal).
(15) Grey/ red plastic (wire covering) (internal).
(16) White plastic (heat shrink tube) (internal).
(17) Black plastic (on/off switch) (internal).
(18) Brown PCB (backed of on/off switch) (internal).
(19) Plastic parts of microphone (internal).

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 24, 2021

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TEST REPORT

Number : HKGH02711375 S1

(8) Safety of Electric Toys

Test Standard : European Standard EN 62115 : 2005 + A12 : 2015 on Safety of electric toys.

Age group for testing : For All Ages

Power source: 3V, LR6 size x 2 pcs

Included battery: Yes (LR6 size x 2 pcs)

Operated function : Battery powered sound

Clause	Requirement	Assessment
1	Scope	--
2	Normative reference	--
3	Definitions	--
4	General requirement	--
5.13	Battery polarity reversed test	P
6	Criteria for reduced testing	--
7	Marking and instructions	P#1
8	Power input	NA
9	Heating and abnormal operation	P
10	Electric strength at operating temperature	P
11	Moisture resistance	P
12	Electric strength at room temperature	P
13	Mechanical strength	P
14	Construction	P
15	Protection of cords and wires	P
16	Components	P
17	Screws and connections	P
18	Clearances and creepage distances	P
19	Resistance to heat and fire	P
20	Toxicity and similar hazards	#2
	Radiation hazard - Annex E Toys incorporating laser / light-emitting diodes (LED)	NA
	Toys with an integrated field source - Annex ZC Toys generating Electromagnetic Fields (EMF)	NA
Annex A	Experimental sets	NA
Annex B	Needle flame test	NA
Annex C	Automatic controls and switches	NA
Annex D	Sequence of the tests of Clause 19	--
Annex ZB	Toys with protective electronic circuit influence from electromagnetic	NA

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Clause	Requirement	Assessment
	phenomena (EMP).	

Abbreviation : P = Pass NA = Not Applicable

Remark(s):

#1 = Only the English version of the marking and instructions were assessed. According to the standard, instruction sheets and other texts required by the standard shall be written in the official language of the country in which the product is to be sold.

#2 = This report does not include test result of toxicity and similar hazard.

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 28, 2021

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TEST REPORT

Number : HKGH02711375 S1

(9) Safety of Electric Toys

Test Standard : European Standard EN IEC 62115 : 2020 + A11 : 2020 on Safety of electric toys

Age group for testing : For All Ages

Power source: 3V, LR6 size x 2 pcs

Included battery: Yes (LR6 size x 2 pcs)

Operated function : Battery powered sound

Clause	Requirement	Assessment
1	Scope	--
2	Normative reference	--
3	Term and definitions	--
4	General requirement	--
5	General conditions for test	P
5.1	General Ambient temperature: 20°C ± 5°C	--
5.2	Preconditioning	A
5.3	Assembly	NA
5.4	Movable parts	A
5.5	Detachable parts	NA
5.6	Settings	A
5.7	Selection of power supplies	A
	Carried out with one or more batteries reversed	P
5.8	Accessories and parts	NA
6	Criteria for reduced testing	NA
6.1	General	--
6.2	Short-circuit resistance	NA
6.3	Low power electric toys	NA
6.4	Battery circuits	NA
7	Marking and instructions	P
7.1	General	P#1
7.2	Markings on electric toys	P#2
7.3	Instructions and markings on packaging	P
7.4	Instructions for electric toys that can be connected to class I equipment	NA
7.5	Instructions for ride-on electric toys	NA
7.6	Temperature warnings	NA
8	Power input	NA
9	Heating and abnormal operation	P

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Clause	Requirement	Assessment
9.1	General	P
9.2	Testing condition	--
9.3	Normal operation	P
9.4	Normal operation with insulation short-circuited	P
9.5	Abnormal operation with temperature controls made inoperable	NA
9.6	Electric toys with accessible moving parts locked	NA
9.7	Additional transformers and power supplies	NA
9.8	Abnormal supply to electric toys via a USB connection	NA
9.9	Fault condition in electronic circuits	P
9.10	Compliance criteria	P
10	Electric strength	P
10.1	Electric strength at operating temperature	P
10.2	Electric strength under humid conditions	P
11	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	NA
	To be used with liquid and electric toys intended to filled from a tap	NA
	To be cleaned with liquid	NA
	To be used in water	NA
12	Mechanical strength	P
12.1	Enclosures	P
12.2	Attachment strength	NA
13	Construction	P
13.1	Nominal supply voltage	P
13.2	Transformers, power supplies and battery chargers	NA
13.3	Thermal cut-outs	NA
13.4	Batteries	P
13.5	Plug and sockets	NA
13.6	Charging batteries	NA
13.7	Series motors	NA
13.8	Working voltage	NA
13.9	Electric toys connecting to other equipment	NA
13.10	Speed limitation of ride-on electric toys	NA
14	Protection of cords and wires	P
14.1	Edges and moving parts	P
14.2	Fixed parts	NA
15	Components	P
15.1.1	General	P
15.1.2	Switches and automatic controls	NA
15.1.3	Other components	P
15.2	Prohibited components	P
15.3	Transformers and power supplies	NA

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Clause	Requirement	Assessment
15.4	Battery chargers	NA
15.5	Batteries	P
	Supplied primary batteries comply with the relevant parts of the IEC 60086 series	P#3
	Supplied secondary batteries comply with IEC 62133	NA
16	Screws and connections	P
16.1	Fixings	P
16.2	Connections	NA
17	Clearances and creepage distances	P
18	Resistance to heat and fire	P
18.1	Resistance to heat	NA
18.2	Resistance to fire	P
19	Radiation and similar hazards	--
19.1	General	--
19.2	Optical radiation (In Annex E)	--
19.3	Other electromagnetic radiation (In Annex I)	--
Annex A	Experimental sets	NA
Annex B	Needle flame test	NA
Annex C	Automatic controls and switches	NA
C.1	Automatic controls	NA
C.2	Switches	NA
Annex D	Electric toys with protective electronic circuits	NA
D.1	General	NA
D.2	Dangerous malfunction	NA
D.2.1	General	NA
D.2.2	Electrostatic discharges	NA
D.2.3	Radiated fields	NA
D.2.4	Transient bursts	NA
D.2.5	Voltage surges	NA
D.2.6	Injected current	NA
D.2.7	Voltage dips and interruptions	NA
D.2.8	Mains signals	NA
Annex E	Safety of electric toys incorporating optical radiation sources	NA
	19.E.2 - 19.E.4 Radiation Hazard	NA
	19.E.5 Modulated accessible emission warning	NA

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Clause	Requirement	Assessment
Annex F	Flowcharts showing the assessment of optical radiation safety of LEDs in electric toys	--
Annex G	Examples of calculations on LEDs	--
Annex H	Explanation of the principles used for the requirements of Annex E	--
Annex I	Electric toys generating electromagnetic fields (EMF)	NA
Annex J	Safety of remote controls for electric ride-on toys	NA
Annex K	Flow charts showing the application of Clause 9	--

Abbreviation : P = Pass NA = Not Applicable A = Applicable

Remark(s):

#1 = Only the English version of the marking and instructions were assessed. According to the standard, instruction sheets and other texts required by the standard shall be written in the official language of the country in which the product is to be sold.

#2 = Clause 7.2.1 Below are additional information according to the requirement in Toy Safety Directive 2009/48/EC relating to marking of toys and do not constitute requirements of this European Standard:
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 toy or, where that is not possible, on its packaging or in a document accompanying the toy.
After checking, it was found that:

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

#3 = As requested by the applicant, the Clause 15.5 was not assessed.
Primary batteries supplied with electric toys shall comply with the relevant parts of the IEC 60086 series latest version.

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 28, 2021

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TEST REPORT

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(10) 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 and confirmed by High-Performance Liquid Chromatography / Diode Array Detector (HPLC/DAD) analysis.

EN ISO 14362-1 : 2017 for Textile Material

Method T:

No.	Forbidden Amine	CAS No.	Result (ppm)		
			(1/2)	(3)	(4/5/6)
1	4-Aminodiphenyl	92-67-1	N	N	N
2	Benzidine	92-87-5	N	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N	N
4	2-Naphthylamine	91-59-8	N	N	N
5	o-Aminoazotoluene	97-56-3	N	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7	p-Chloroaniline	106-47-8	N	N	N
8	2,4-Diaminoanisole	615-05-4	N	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14	p-Cresidine	120-71-8	N	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16	4,4'-Oxydianiline	101-80-4	N	N	N
17	4,4'-Thiodianiline	139-65-1	N	N	N
18	o-Toluidine	95-53-4	N	N	N
19	2,4-Toluylenediamine	95-80-7	N	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N	N
21	o-Anisidine	90-04-0	N	N	N
22	p-Aminoazobenzene	60-09-3	N	N	N

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No.	Forbidden Amine	CAS No.	Result (ppm)		
			(7/8/9)	(10/11)	(12/13/14)
1	4-Aminodiphenyl	92-67-1	N	N	N
2	Benzidine	92-87-5	N	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N	N
4	2-Naphthylamine	91-59-8	N	N	N
5	o-Aminoazotoluene	97-56-3	N	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7	p-Chloroaniline	106-47-8	N	N	N
8	2,4-Diaminoanisole	615-05-4	N	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14	p-Cresidine	120-71-8	N	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16	4,4'-Oxydianiline	101-80-4	N	N	N
17	4,4'-Thiodianiline	139-65-1	N	N	N
18	o-Toluidine	95-53-4	N	N	N
19	2,4-Toluylenediamine	95-80-7	N	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N	N
21	o-Anisidine	90-04-0	N	N	N
22	p-Aminoazobenzene	60-09-3	N	N	N

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No.	Forbidden Amine	CAS No.	Result (ppm)		
			(15/16/17)	(18/19)	(20)
1	4-Aminodiphenyl	92-67-1	N	N	N
2	Benzidine	92-87-5	N	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N	N
4	2-Naphthylamine	91-59-8	N	N	N
5	o-Aminoazotoluene	97-56-3	N	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7	p-Chloroaniline	106-47-8	N	N	N
8	2,4-Diaminoanisole	615-05-4	N	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14	p-Cresidine	120-71-8	N	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16	4,4'-Oxydianiline	101-80-4	N	N	N
17	4,4'-Thiodianiline	139-65-1	N	N	N
18	o-Toluidine	95-53-4	N	N	N
19	2,4-Toluylenediamine	95-80-7	N	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N	N
21	o-Anisidine	90-04-0	N	N	N
22	p-Aminoazobenzene	60-09-3	N	N	N

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No.	Forbidden Amine	CAS No.	Result (ppm)	
			(21)	(22/23)
1	4-Aminodiphenyl	92-67-1	N	N
2	Benzidine	92-87-5	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N
4	2-Naphthylamine	91-59-8	N	N
5	o-Aminoazotoluene	97-56-3	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N
7	p-Chloroaniline	106-47-8	N	N
8	2,4-Diaminoanisole	615-05-4	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N
14	p-Cresidine	120-71-8	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N
16	4,4'-Oxydianiline	101-80-4	N	N
17	4,4'-Thiodianiline	139-65-1	N	N
18	o-Toluidine	95-53-4	N	N
19	2,4-Toluylenediamine	95-80-7	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N
21	o-Anisidine	90-04-0	N	N
22	p-Aminoazobenzene	60-09-3	N	N

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Method D:

No.	Forbidden Amine	CAS No.	Result (ppm)		
			(1/2)	(3)	(4/5/6)
1	4-Aminodiphenyl	92-67-1	N	N	N
2	Benzidine	92-87-5	N	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N	N
4	2-Naphthylamine	91-59-8	N	N	N
5	o-Aminoazotoluene	97-56-3	N	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7	p-Chloroaniline	106-47-8	N	N	N
8	2,4-Diaminoanisole	615-05-4	N	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14	p-Cresidine	120-71-8	N	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16	4,4'-Oxydianiline	101-80-4	N	N	N
17	4,4'-Thiodianiline	139-65-1	N	N	N
18	o-Toluidine	95-53-4	N	N	N
19	2,4-Toluylenediamine	95-80-7	N	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N	N
21	o-Anisidine	90-04-0	N	N	N
22	p-Aminoazobenzene	60-09-3	N	N	N

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TEST REPORT

Number : HKGH02711375 S1

No.	Forbidden Amine	CAS No.	Result (ppm)		
			(7/8/9)	(10/11)	(12/13/14)
1	4-Aminodiphenyl	92-67-1	N	N	N
2	Benzidine	92-87-5	N	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N	N
4	2-Naphthylamine	91-59-8	N	N	N
5	o-Aminoazotoluene	97-56-3	N	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7	p-Chloroaniline	106-47-8	N	N	N
8	2,4-Diaminoanisole	615-05-4	N	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14	p-Cresidine	120-71-8	N	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16	4,4'-Oxydianiline	101-80-4	N	N	N
17	4,4'-Thiodianiline	139-65-1	N	N	N
18	o-Toluidine	95-53-4	N	N	N
19	2,4-Toluylenediamine	95-80-7	N	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N	N
21	o-Anisidine	90-04-0	N	N	N
22	p-Aminoazobenzene	60-09-3	N	N	N

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TEST REPORT

Number : HKGH02711375 S1

No.	Forbidden Amine	CAS No.	Result (ppm)		
			(15/16/17)	(18/19)	(20)
1	4-Aminodiphenyl	92-67-1	N	N	N
2	Benzidine	92-87-5	N	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N	N
4	2-Naphthylamine	91-59-8	N	N	N
5	o-Aminoazotoluene	97-56-3	N	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7	p-Chloroaniline	106-47-8	N	N	N
8	2,4-Diaminoanisole	615-05-4	N	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14	p-Cresidine	120-71-8	N	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16	4,4'-Oxydianiline	101-80-4	N	N	N
17	4,4'-Thiodianiline	139-65-1	N	N	N
18	o-Toluidine	95-53-4	N	N	N
19	2,4-Toluylenediamine	95-80-7	N	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N	N
21	o-Anisidine	90-04-0	N	N	N
22	p-Aminoazobenzene	60-09-3	N	N	N

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Number : HKGH02711375 S1

No.	Forbidden Amine	CAS No.	Result (ppm)	
			(21)	(22/23)
1	4-Aminodiphenyl	92-67-1	N	N
2	Benzidine	92-87-5	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N
4	2-Naphthylamine	91-59-8	N	N
5	o-Aminoazotoluene	97-56-3	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N
7	p-Chloroaniline	106-47-8	N	N
8	2,4-Diaminoanisole	615-05-4	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N
14	p-Cresidine	120-71-8	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N
16	4,4'-Oxydianiline	101-80-4	N	N
17	4,4'-Thiodianiline	139-65-1	N	N
18	o-Toluidine	95-53-4	N	N
19	2,4-Toluylenediamine	95-80-7	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N
21	o-Anisidine	90-04-0	N	N
22	p-Aminoazobenzene	60-09-3	N	N

N = Not detected
Detection limit = 5 ppm
Requirement = 30 ppm (max.)

ppm = parts per million = mg/kg

- High Performance Liquid Chromatographic (HPLC) analysis was used to confirm any detected amines.

- The test component with p-aminoazobenzene less than detection limit was tested by EN ISO 14362-1 : 2017 for textile material / EN ISO 17234-1: 2015 for leather material.

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TEST REPORT

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Method T : Direct buffer extraction as per EN ISO 14362-1 : 2017 Section 10.2
Method D : Colourant extraction with Xylene as per EN ISO 14362-1 : 2017 Section 10.1

If both methods T and D conducted, final conclusion was based on the highest value of each amine.

Tested Components:

(1) White satin with black printing (sewn-in label).
(2) Beige satin with olive printing (bow of sheep).
(3) White woven with blue / light blue / light green threads stitching (brand label).
(4) Beige looped velcro (strap, buckle of sheep, giraffe, fox).
(5) Ivory looped velcro (strap, buckle of panda).
(6) Beige woven (lining, buckle of sheep, giraffe, fox).
(7) Ivory woven (lining, buckle of panda).
(8) 6mm beige plush (body of sheep).
(9) Bright brown velour (ears, foot, hands, strap of sheep).
(10) 6mm brown printed plush backed with white plush (body of giraffe).
(11) Brown velour (horns, foot, hands, strap of giraffe).
(12) Ivory velour (ears, face of giraffe).
(13) Dark brown velour (strap of fox).
(14) Light ivory velour (strap of panda).
(15) 8mm orangish brown plush (body, tail, buckle of fox).
(16) 8mm light grey plush (body, ears, eyes, tail of panda).
(17) 8mm grey plush (eyes, foot, hand of fox).
(18) 15mm dark brown/ light brown plush (mane of giraffe).
(19) Bright grey velour (nose of panda).
(20) Brown embroidery thread backed with beige plush (eyes of sheep; eyes, nose of giraffe).
(21) Black/ white embroidery thread backed with orangish brown plush (eyes of fox).
(22) Dark brown embroidery thread backed with dull white plush (eyes of panda).
(23) Dark grey embroidery thread (nose of fox).

Decision Rule:

∞ : In the case of levels per amine component is equal or smaller than 30 ppm:
According to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected. The tested sample/component were in compliance with requirement.

In the case of levels per amine component is greater than 30 ppm:
The analytical result suggests that the commodity submitted has been manufactured or treated using azo colorant/s which can release one or more of certain listed amines by cleavage of their azo group/s at levels greater than 30 ppm. The tested sample/component did not comply the requirement.

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 27, 2021

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TEST REPORT

Number : HKGH02711375 S1

(11) Physical and Mechanical Tests

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-17

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	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	P
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	P
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	P
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag type toys	P
4.28	Stroller and carriage toys	NA

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Clause	Requirement	Assessment
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
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
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 : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 27, 2021

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TEST REPORT

Number : HKGH02711375 S1

(12) Battery-Operated Toys

Test Standard : Section 4.25, 5.15 & 6.5 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Age group for testing : For All Ages

Clause	Requirement	Assessment
4.25.1	Battery marking	P
4.25.2	Maximum allowable direct current potential	P
4.25.3	Protection against charging non-rechargeable battery	P
4.25.4	Accessible batteries	P
4.25.5	Accessible batteries that can fit completely within small part cylinder	P
4.25.6	Isolation of batteries of different types or capacities	NA
4.25.7	Temperature of battery surface	P
4.25.8	Temperature of battery surface or combustion hazard after normal use and abuse test	P
4.25.9	Instruction requirement in section 6.5	P
4.25.10	Battery-powered of ride on toys	NA
5.15	Non-replaceable batteries	NA
5.15.2	Instruction for button or coin cell batteries	NA
6.5	Instruction on safe battery usage	P

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 27, 2021

(13) Flammability Tests

Test Standard : Section 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Sample	Ignition point	Burn length (inch)	Time (sec)	Burn Rate (inch/sec)	Limit (inch/sec)
Sheep	Leg	1.8	60	0.03	0.10

The above result only showed the most severe burn rate of the samples and components.

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 27, 2021

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TEST REPORT

Number : HKGH02711375 S1

(14) Total Lead (Pb) Content

Test Method : CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Substrate:

Tested Component	Result in ppm	Limit in ppm
(1/2/3)	<20	100
(4/5)	<20	100
(6)	<20	100
(7)	<20	100

The above limit was quoted according to Section 4.3.5.1 (1) and 4.3.5.2 (2)(a) of the ASTM standard Consumer Safety Specification for Toy Safety F963-17.

ppm = parts per million = mg/kg

Tested Components:

(1) Beige plastic (buttons, knob, body, ON/OFF Switch of sound maker).
(2) Beige hooked velcro (strap, buckle of sheep, giraffe, fox).
(3) Ivory hooked velcro (strap, buckle of panda).
(4) White satin with black printing (sewn-in label).
(5) Beige satin with olive printing (bow of sheep).
(6) 6mm white plush with brown printing (body of giraffe).
(7) Silver color metal (screw).

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 25, 2021

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TEST REPORT

Number : HKGH02711375 S1

(15) Heavy Elements Analysis

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

Materials other than modelling clay:

	Result (ppm)			Limit
	(1)	(2)	(3)	(ppm)
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
	(4)	(5)	(6)	(ppm)
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
	(7)	(8)	(9)	(ppm)
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

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	Result (ppm)			Limit
	(10)	(11)	(12)	(ppm)
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
	(13)	(14)	(15)	(ppm)
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
	(16)	(17)	(18)	(ppm)
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

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	Result (ppm)			Limit
	(19)	(20)	(21)	(ppm)
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
	(22)	(23)	(24)	(ppm)
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
	(25)	(26)	(27)	(ppm)
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

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Number : HKGH02711375 S1

	Result (ppm)			Limit
	(28)	(29)	(30)	(ppm)
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
	(31)	(32)	(33)	(ppm)
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
	(34)	(ppm)
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

The above limit was quoted according to Section 8.3.2, 8.3.3, 8.3.4 and 8.3.5 of the ASTM standard Consumer Safety Specification for Toy Safety F963-17.

ppm = parts per million = mg/kg

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TEST REPORT

Number : HKGH02711375 S1

Tested Components:

(1) Beige plastic (buttons, knob, body, ON/OFF Switch of sound maker).
(2) Beige hooked velcro (strap, buckle of sheep, giraffe, fox).
(3) Ivory hooked velcro (strap, buckle of panda).
(4) White satin with black printing (sewn-in label).
(5) Beige satin with olive printing (bow of sheep).
(6) White woven with blue / light blue / light green threads stitching (brand label).
(7) Beige looped velcro (strap, buckle of sheep, giraffe, fox).
(8) Ivory looped velcro (strap, buckle of panda).
(9) Beige woven with beige thread (lining, buckle of sheep, giraffe, fox).
(10) Ivory woven with beige thread (lining, buckle of panda).
(11) 6mm beige plush (body of sheep).
(12) Bright brown velour (ears, foot, hands, strap of sheep).
(13) 6mm white plush with brown printing (body of giraffe).
(14) Brown velour (horns, foot, hands, strap of giraffe).
(15) Ivory velour (ears, face of giraffe).
(16) Dark brown velour (strap of fox).
(17) Greyish white velour (face of panda).
(18) Light ivory velour (strap of panda).
(19) 8mm orangish brown plush (body, tail, buckle of fox).
(20) 8mm light grey plush (body, ears, eyes, tail of panda).
(21) 8mm dull white plush (body of panda).
(22) 8mm grey plush (eyes, foot, hand of fox).
(23) 8mm off-white plush (ears, body of fox).
(24) 15mm dark brown/ light brown plush (mane of giraffe).
(25) Bright grey velour (nose of panda).
(26) Brown embroidery thread (eyes of sheep; eyes, nose of giraffe).
(27) Dull brown embroidery thread (mouth of sheep).
(28) Black embroidery thread (eyes of fox).
(29) White embroidery thread (eyes of sheep).
(30) Dark brown embroidery thread (eyes of panda).
(31) Silver color embroidery thread (mouth of panda).
(32) Dark grey embroidery thread (nose of fox).
(33) White stuffing material (inner body).
(34) Off-white woven (inner binding).

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Decision Rule:

∞ : Materials are deems to comply with the requirements if the adjusted analytical result is less than or equal to the limit of this table.

The analytical result of materials shall be adjusted by subtracting the analytical correction in below table to obtain an adjusted analytical of result.

Elements	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical Correction(%)	60	60	30	30	30	30	50	60

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 25, 2021

(16) 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.

Assessment : Since no scrapable surface coating was found on the submitted samples, the testing scope of CPSIA for total Lead content test was not applicable to the submitted samples.

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 25, 2021

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(17) 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
(1/2/3)	<20	100
(4/5)	<20	100
(6)	<20	100
(7)	<20	100

The above limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101.

ppm = parts per million = mg/kg

Tested Components:

(1) Beige plastic (buttons, knob, body, ON/OFF Switch of sound maker).
(2) Beige hooked velcro (strap, buckle of sheep, giraffe, fox).
(3) Ivory hooked velcro (strap, buckle of panda).
(4) White satin with black printing (sewn-in label).
(5) Beige satin with olive printing (bow of sheep).
(6) 6mm white plush with brown printing (body of giraffe).
(7) Silver color metal (screw).

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 25, 2021

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(18) Stuffing Cleanliness Test

Test Standard : Section 4.3.7 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17.

Observation: After the stuffing cleanliness evaluation, no contaminant was found in stuffing materials of the submitted sample.

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 27, 2021

(19) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.4 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (%, w/w) (1/2/3)	Limit (%, w/w)
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)	<0.015	0.1
Diisobutyl phthalate (DIBP)	<0.01	0.1
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	0.1
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	0.1
Dicyclohexyl phthalate (DCHP)	<0.01	0.1

The above limits are quoted from Federal Register, Vol. 82, No. 207, October 27, 2017, Rules and Regulations, Final rule for 16 CFR Part 1307 "Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates" effective from April 25, 2018.

Tested Components:

(1) Beige plastic (buttons, knob, body, ON/OFF Switch of sound maker).
(2) Beige hooked velcro (strap, buckle of sheep, giraffe, fox).
(3) Ivory hooked velcro (strap, buckle of panda).

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 24, 2021

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(20) Phthalate Content Test

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

Compound	Result (%, w/w) (1/2/3)	Limit (%, w/w)
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	--

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) set based on the California Proposition 65.

Tested Components:

(1) Beige plastic (buttons, knob, body, ON/OFF Switch of sound maker).
(2) Beige hooked velcro (strap, buckle of sheep, giraffe, fox).
(3) Ivory hooked velcro (strap, buckle of panda).

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 24, 2021

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(21) Total Lead (Pb) content

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

Substrate:

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2/3)	<0.0020	0.010
(4/5)	<0.0020	0.010
(6)	<0.0020	0.010
(7)	<0.0020	0.010

The above limit was quoted from the Consent Judgement no. 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) Beige plastic (buttons, knob, body, ON/OFF Switch of sound maker).
(2) Beige hooked velcro (strap, buckle of sheep, giraffe, fox).
(3) Ivory hooked velcro (strap, buckle of panda).
(4) White satin with black printing (sewn-in label).
(5) Beige satin with olive printing (bow of sheep).
(6) 6mm white plush with brown printing (body of giraffe).
(7) Silver color metal (screw).

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 25, 2021

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(22) Celluloid or Cellulose Nitrate

Test Standard : Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 (last amended on 11 January 2019) section 21

	Assessment	Requirements
Cellulose Nitrate / Celluloid	Absent	Absent

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 27, 2021

(23) Physical and Mechanical Tests

Test Standard : Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 (last amended on 11 January 2019)

Age group for testing : For All Ages

The submitted samples were undergone the use and abuse tests in accordance with the Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 (last amended on 11 January 2019):

Test	Parameter
Drop test	4 x (1.367 +/- 0.005) m
Pull test	42.5 +/- 2 N
Push test	42.5 +/- 2 N

Clause	Requirement	Assessment
3	General - English and French Bilingual Statement	NA
4	Packaging	NA
5	Electrically operated toys	NA
6	Electrically heated toys	NA
7	Small parts	P
8	Metal edges	P
9	Wire Frames	P
10	Plastic Edges	P
11	Wooden Surfaces, Edges and Corners	NA
12	Glass	NA
13	Fasteners	P
14	Folding Mechanisms, Bracket or Bracing	NA
15	Spring-Wound Driving Mechanism	NA
16	Projectile Components	NA
17	Toys which a child can enter and which can be closed by a lid or door	NA

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Clause	Requirement	Assessment
18	Stationary toy that is intended to bear the weight of a child	NA
19	Noise limit	P
20	Heated surfaces, parts or substances	P
28	Fastening to attach parts, Clothing or Ornamentation	P
29	Stuffing Materials	P
	(a) Clean and free from vermin	P
	(b) Free from Hard and Sharp Foreign Matter	P
30	Small parts - Squeaker, Reed, Valve or other similar device	NA
31	Eyes or nose	NA
35	Plant seeds for making noise	NA
36	Plant seeds for stuffing material	P
37	Pull and Push Toys that has a shaft-like handle	NA
38	Toy Steam Engines Boilers	NA
39	Finger Paints	NA
40	Rattle	NA
41	Elastic	NA
42	Yo-Yo Type Balls	NA
	(a) Strechable cord	NA
	(b) Similar product	NA
43	Magnetic toys	NA
44	Warning of magnetic toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 27, 2021

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(24) Flammability Test

Test Standard : Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 Section 32

All samples were tested and passed the requirements.

Tested Components:

(1) Loop plush.
(2) 8 mm plush.
(3) Woven.

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 23, 2021

(25) Toxic Elements Analysis

Test Method : In house method(TC003.TP), microwave digestion and total Pb content determined by ICP-OES.(TC003.TP) and Health Canada Product Safety Laboratory Reference Manual Book 5-Laboratory Policies and Procedures Part B:Test Methods Section, Method C03. (with modifications by direct analysis using ICP-OES after filtration of leachate), determination of leachable As, Se, Cd, Sb and Ba in applied coating (2014-02-20). In house method(TC066.TP), microwave digestion and total Hg content determined by ICP-MS.

Assessment : Since no scrapable surface coating was found on the submitted samples, the testing scope was not applicable to the submitted samples

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 25, 2021

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(26) Heavy Elements Analysis in plastic

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

Soluble Elements Content:

	Result (ppm)			Limit
	(1)	(2)	(3)	(ppm)
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
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
	(4)	(ppm)
Soluble Barium (Ba)	<5	1000
Soluble Selenium (Se)	<5	500
Soluble Cadmium (Cd)	<5	75
Soluble Antimony (Sb)	<5	60
Soluble Chromium (Cr)	<5	60
Soluble Mercury (Hg)	<5	60
Soluble Arsenic (As)	<2.5	25

The above limit was quoted according to Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 with amendments SOR/2016-195 and SOR/2016-302.

ppm = parts per million = mg/kg

Tested Components:

(1) Beige plastic (buttons, knob, body, ON/OFF Switch of sound maker).
(2) Beige hooked velcro (strap, buckle of sheep, giraffe, fox).
(3) Ivory hooked velcro (strap, buckle of panda).
(4) White paper sheet with plastic film (cover of instruction book).

Date sample received : Apr 19, 2021
Test Period : Apr 19, 2021 to Apr 25, 2021

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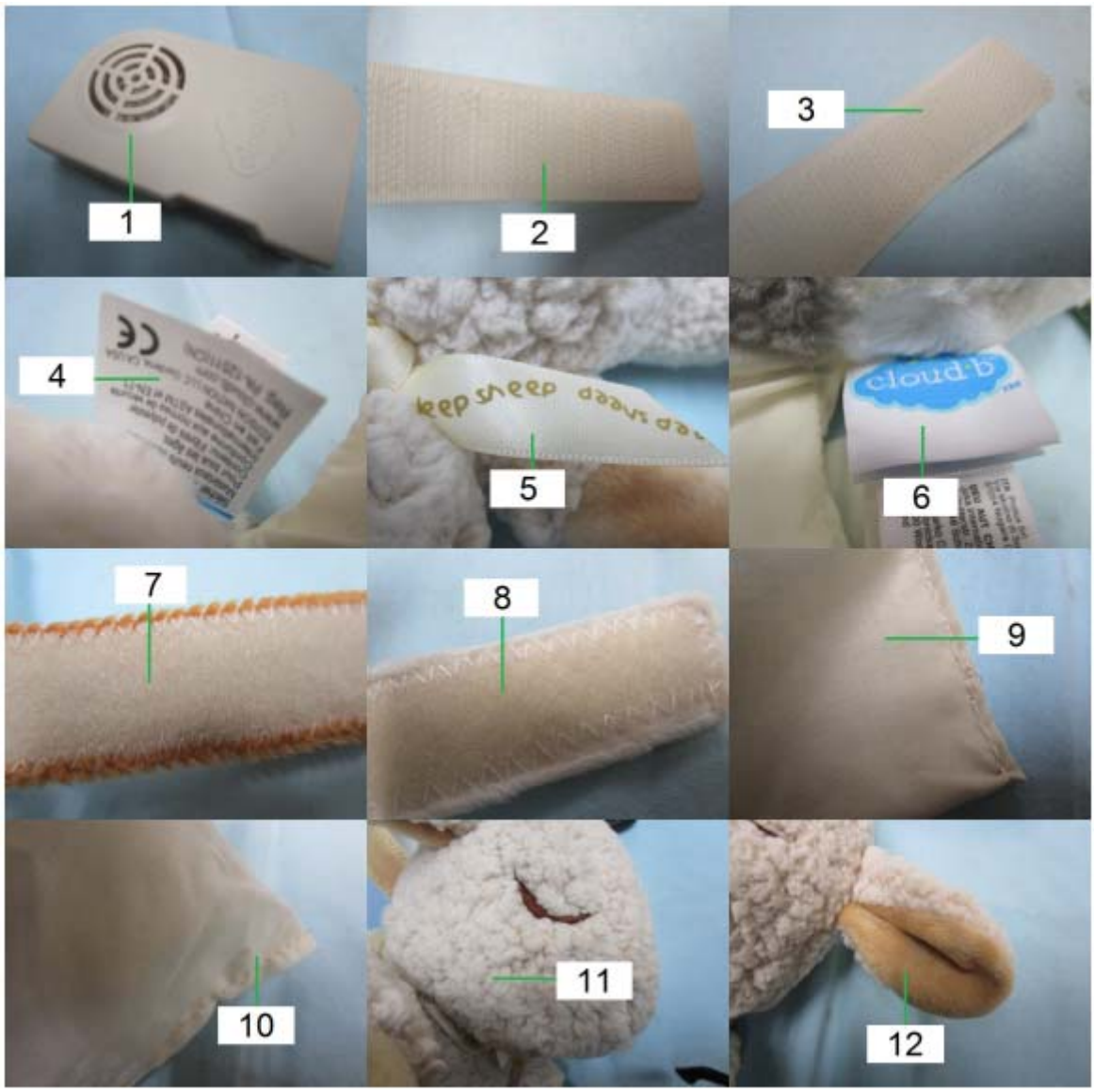
TESTED COMPONENTS PHOTOS



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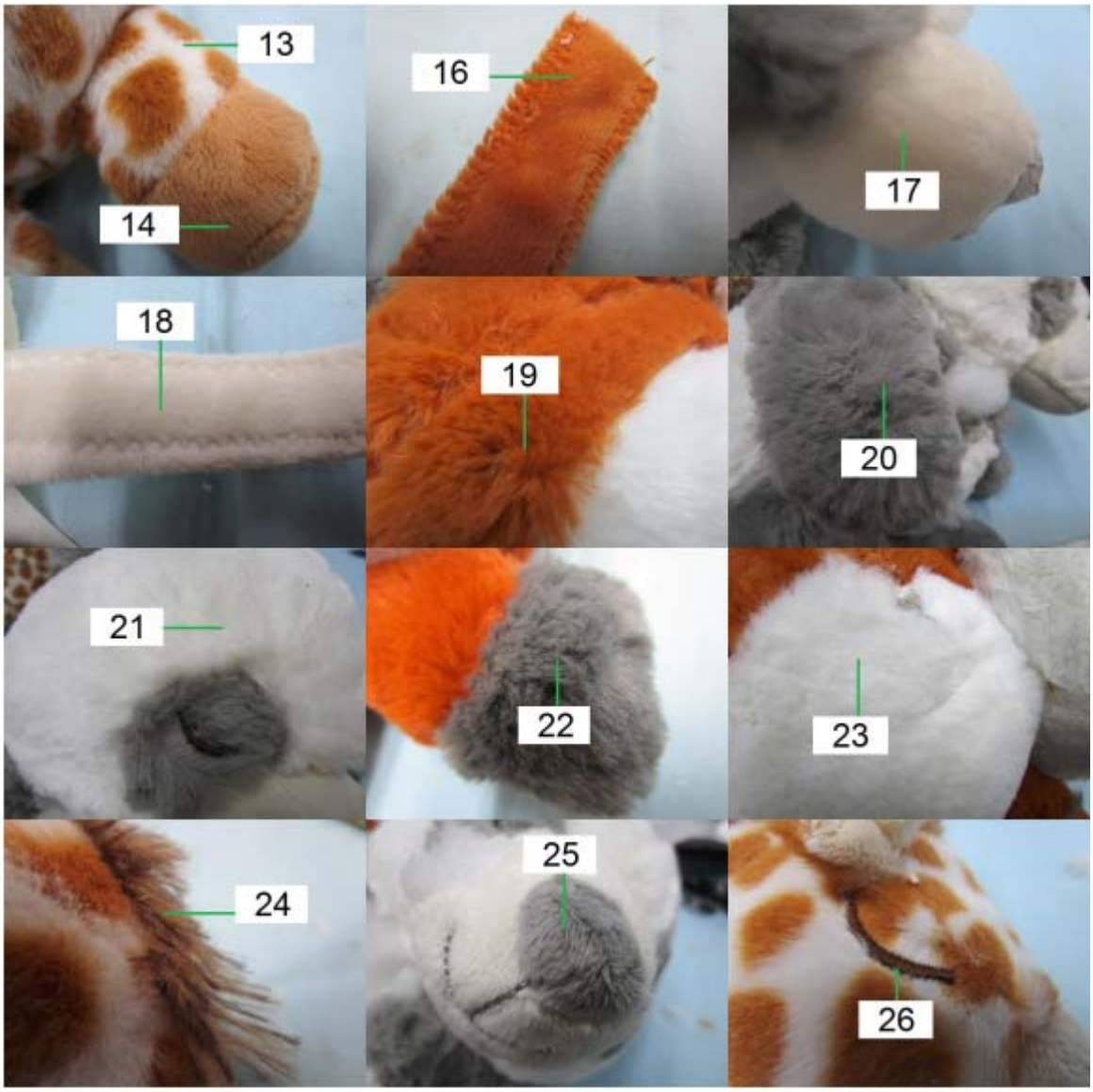

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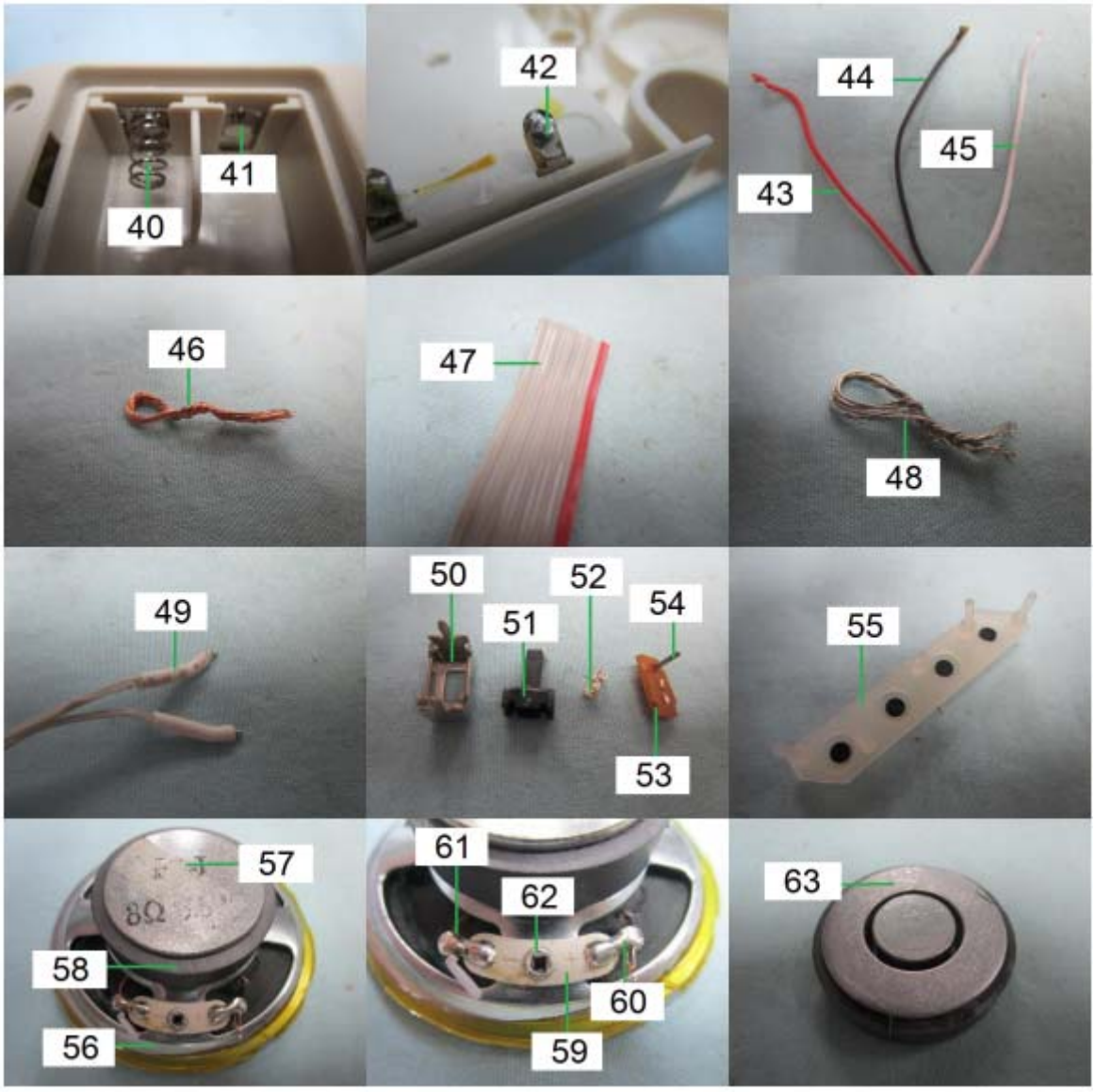

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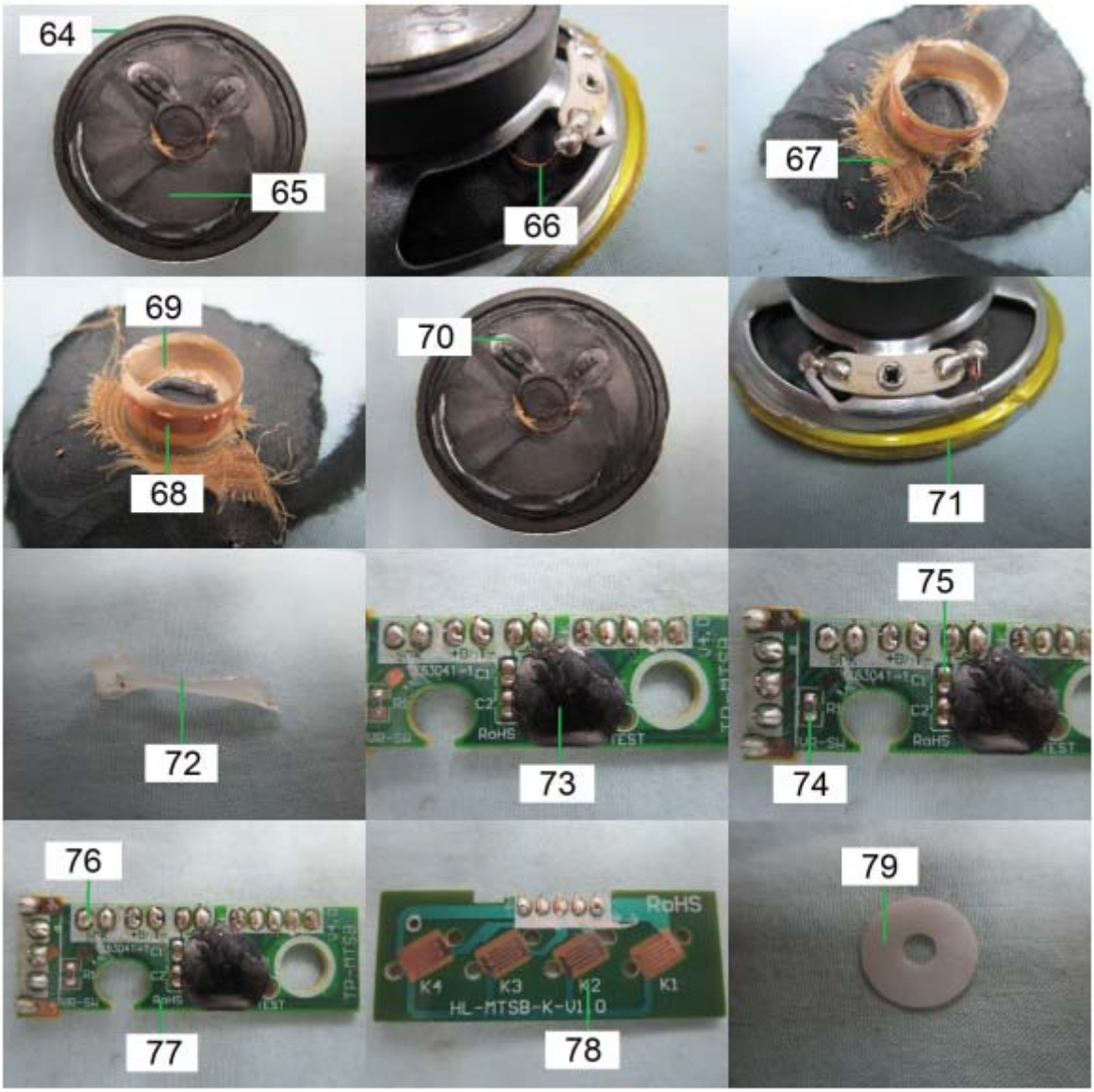

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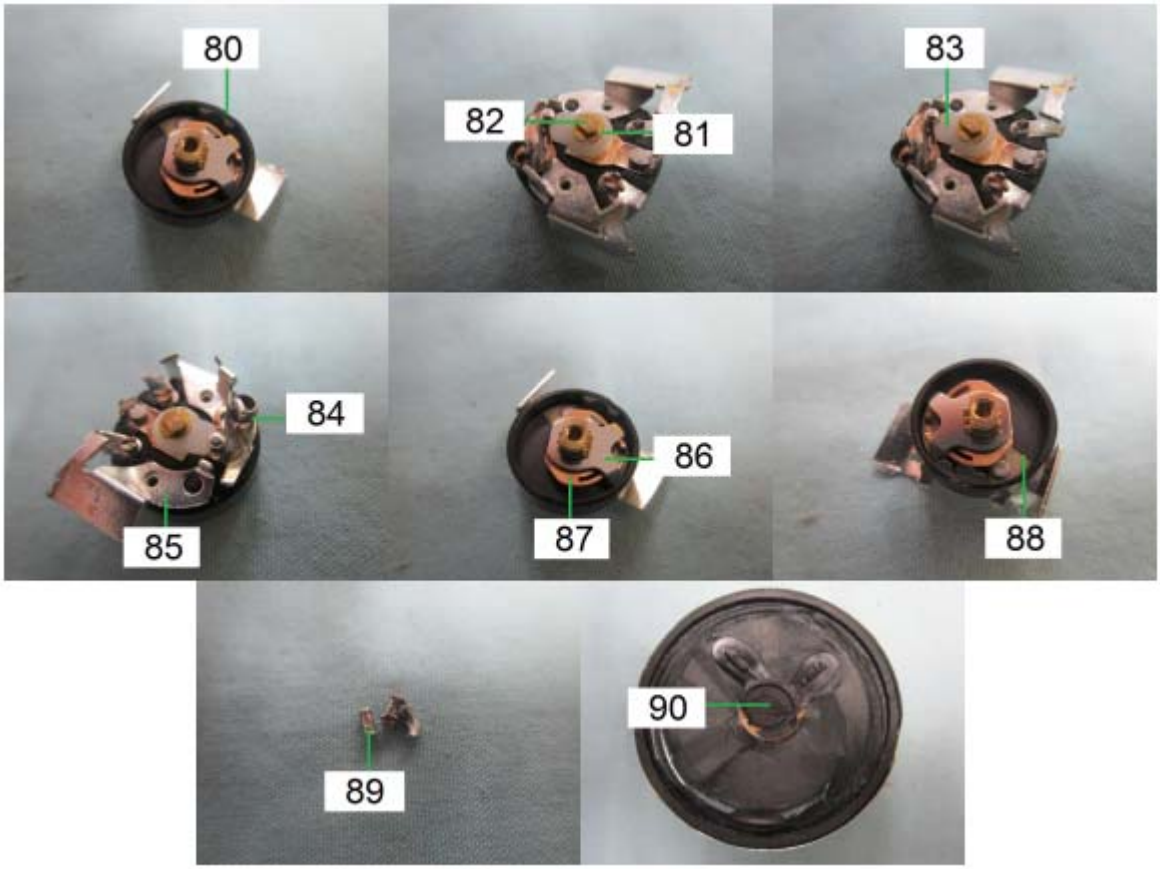

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End of report

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To:	EDISON NATION LLC	Ref:	FC-2022-1479
Attention:	TRACY SHI	Date:	Mar 23, 2022

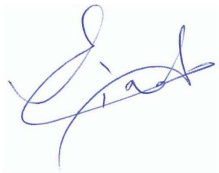
Re : Report Revision Notification

Intertek Testing Services Report Number HKGH02711375 Dated May 07, 2021

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services report, HKGH02711375 S1

Thank you for your attention.

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



Cindy I.K. Chan
Vice President