



Report No.: TRC13060001/EN

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Issued: 2013-06-13

Test Report

Applicant : Wheely Bug Toys Pty Ltd
Address : 4/302 Boyles Rd, Kuranda QLD 4881 Australia

Sample Name : Wheely Bug Ride on Range
Sample Model : Ladybird, Bee, Cow, Mouse, Tiger, Pig, large and small
Labeled Age Grading : Please refer to next page(s).
Tested Age Grading : Please refer to next page(s).

Sample Received Date : June 3, 2013
Testing Period : June 3, 2013 ~ June 13, 2013

Testing Requested : As specified by client, for details refer to next page(s).

Testing Method : As specified by client, for details refer to next page(s).

Testing Results : Please refer to next page(s).

Conclusion : Please refer to next page.

For and on behalf of
Shenzhen Huatongwei International Inspection Co., Ltd.

Lab Manager Calor Li

R/C: 18346





Test Sample	Standard / Regulation	Conclusion
Submitted sample	EN 71-1:2011 - Mechanical and Physical Properties	Pass
	EN 71-2:2011 - Flammability	Pass
	EN71-6:1995 – Graphical symbol for age warning labelling	Pass
	EC Directive 2009/48/EC –Migration of Certain Elements(Annex II, Part III, Point 13)	Pass
	Clause 4.3 of EN71-9:2005+A1:2007 – Organic Chemical Compounds on Formaldehyde content	Pass
	Entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of Reach regulation (EC) No 1907/2006 on Phthalates (DBP、BBP、DEHP、DNOP、DINP and DIDP) content(formerly known as 2005/84/EC)	Pass
	Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of Reach regulation (EC) No1907/2006 on Azocolourants and Azodyes	Pass
	Entry 23 of Regulation (EC) No 552/2009 amending Annex XVII of Reach regulation (EC) No1907/2006 on Cadmium content	Pass
	US ASTM F963-2011 for Physical and Mechanical Requirement	Pass
	US ASTM F963-2011 for Flammability Requirement	Pass
	US ASTM F963-2011 for Heavy metal Requirement	Pass
	US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101(f) - total lead content in paint and other similar surface-coating	Pass
	US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101(a)(2)- total lead content in substrate materials	Pass
	US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 108-requirement on phthalates content	Pass
	AS/NZS ISO8124-1: 2010— Mechanical and Physical Properties	Pass
	AS/NZS ISO8124-2: 2009 — Flammability	Pass
	AS/NZS ISO8124-3: 2010—Migration of Certain Elements	Pass





A.1. EN71-1-Safety aspects related to Mechanical and physical properties

Sample Model:	Ladybird, Bee, Cow, Mouse, Tiger, Pig, large
Labeled age grading:	36 months up
Tested Age Grading:	36 months up

Section	Description	Result
4	General Requirements	
4.1	Material cleanliness	Pass
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	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	Pass
4.10	Parts moving against each other	Pass
4.10.4	Springs	Pass
4.11	Mouth-actuated toys and other toys intended to be put in the 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	Pass
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	Pass
4.21	Toys containing a 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	NA
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

The above sample information was submitted by the applicant and the Laboratory was not responsible for its facticity. The results shown in this test report refer only to the sample(s) tested unless otherwise stated, This Test Report shall not be reproduced except in full, without written approval of the Laboratory.





Section	Description	Result
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	Pass

Sample Model:	Ladybird, Bee, Cow, Mouse, Tiger, Pig, small
Labeled age grading:	AGE 1.5 yr +
Tested Age Grading:	18 months up

Section	Description	Result
4	General Requirements	
4.1	Material cleanliness	Pass
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	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	Pass
4.10	Parts moving against each other	Pass
4.10.4	Springs	Pass
4.11	Mouth-actuated toys and other toys intended to be put in the 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	Pass
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





Section	Description	Result
4.20	Acoustics	NA
4.21	Toys containing a 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	Pass
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	Pass

Note:

1. NA = Not Applicable

A.2. EN71-2-Flammability

Section	Description	Result
4	Requirements	
4.1	General	Pass
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

Note:

1. NA = Not Applicable





A.3. EC Directive 2009/48/EC –Migration of Certain Elements(Annex II, Part III, Point 13)

Test method: With reference to DRAFT prEN 71-3:2012. Analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES), Inductively coupled plasma mass spectrometry (ICP-MS), Gas chromatographic-mass spectrometer (GC-MS), Liquid chromatographic in combination with ICP-MS(LC-ICP-MS)

Element	Limit (in scraped-off toy material)	Test Results						MDL
		1	2	3	4	5	6	
Aluminium(Al)	70000	45	<10	<10	<10	<10	<10	10
Antimony (Sb)	560	<5	<5	<5	<5	<5	<5	5
Arsenic (As)	47	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Barium (Ba)	56000	<10	<10	<10	<10	<10	<10	10
Boron(B)	15000	<10	<10	<10	<10	<10	<10	10
Cadmium (Cd)	17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Chrome III(CrIII)	460	<2	<2	<2	<2	<2	<2	2
Chrome VI (CrVI)	0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
Cobalt (Co)	130	<1	<1	<1	<1	<1	<1	1
Copper (Cu)	7700	<10	<10	<10	40	<10	<10	10
Lead (Pb)	160	<2	<2	<2	<2	<2	<2	2
Manganese(Mn)	15000	29	<10	<10	<10	<10	<10	10
Mercury (Hg)	94	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Nickel (Ni)	930	<5	<5	<5	<5	<5	<5	5
Selenium(Se)	460	<5	<5	<5	<5	<5	<5	5
Strontium(Sr)	56000	119	<10	<10	<10	<10	<10	10
Tin(Sn)	180000	<10	<10	<10	<10	<10	<10	10
Organic Tin	12	ND	ND	ND	ND	ND	ND	\
Zinc(Zn)	46000	4200	<5	<5	<5	<5	100	5
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	\





Element	Limit (in scraped-off toy material)	Test Results							MDL
		7	8	9	10	11	12	13	
Aluminium(Al)	70000	<10	<10	<10	<10	<10	<10	<10	10
Antimony (Sb)	560	<5	<5	<5	<5	<5	<5	<5	5
Arsenic (As)	47	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Barium (Ba)	56000	<10	<10	<10	<10	<10	<10	<10	10
Boron(B)	15000	<10	<10	<10	<10	<10	<10	<10	10
Cadmium (Cd)	17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Chrome III(CrIII)	460	<2	<2	<2	<2	<2	<2	<2	2
Chrome VI (CrVI)	0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
Cobalt (Co)	130	<1	<1	<1	<1	<1	<1	<1	1
Copper (Cu)	7700	<10	<10	<10	<10	<10	<10	<10	10
Lead (Pb)	160	<2	<2	<2	<2	<2	<2	<2	2
Manganese(Mn)	15000	<10	<10	<10	<10	<10	<10	<10	10
Mercury (Hg)	94	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Nickel (Ni)	930	<5	<5	<5	<5	<5	<5	<5	5
Selenium(Se)	460	<5	<5	<5	<5	<5	<5	<5	5
Strontium(Sr)	56000	<10	<10	<10	<10	<10	<10	<10	10
Tin(Sn)	180000	<10	<10	<10	<10	<10	<10	<10	10
Organic Tin	12	ND	ND	ND	ND	ND	ND	ND	\
Zinc(Zn)	46000	128	95	114	150	117	59	<5	5
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\





Element	Limit (in scraped-off toy material)	Test Results							MDL
		14	15	16	17	18	19	20	
Aluminium(Al)	70000	<10	<10	<10	<10	<10	<10	<10	10
Antimony (Sb)	560	<5	<5	<5	<5	<5	<5	<5	5
Arsenic (As)	47	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Barium (Ba)	56000	<10	<10	<10	<10	<10	<10	<10	10
Boron(B)	15000	<10	<10	<10	<10	<10	<10	<10	10
Cadmium (Cd)	17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Chrome III(CrIII)	460	<2	<2	<2	<2	<2	<2	<2	2
Chrome VI (CrVI)	0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02
Cobalt (Co)	130	<1	<1	<1	<1	<1	<1	<1	1
Copper (Cu)	7700	<10	<10	<10	<10	<10	<10	<10	10
Lead (Pb)	160	<2	<2	<2	<2	<2	<2	<2	2
Manganese(Mn)	15000	<10	<10	<10	<10	43	<10	<10	10
Mercury (Hg)	94	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Nickel (Ni)	930	<5	<5	<5	<5	<5	<5	<5	5
Selenium(Se)	460	<5	<5	<5	<5	<5	<5	<5	5
Strontium(Sr)	56000	<10	<10	<10	<10	<10	<10	<10	10
Tin(Sn)	180000	<10	<10	<10	<10	<10	<10	<10	10
Organic Tin	12	ND	ND	ND	ND	ND	ND	ND	\
Zinc(Zn)	46000	<5	<5	<5	<5	76	<5	97	5
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\

Note:

1. Unit:mg/kg
2. < = less than
3. ND=Not Detected(<MDL)
4. MDL=Method Detection Limit
5. \ = Not available.

A.4. Clause 4.3 of EN71-9:2005+A1:2007 Organic Chemical Compounds on Formaldehyde content

Test method: With reference to ISO14184-1:2011 or EN717-3, analysis was performed by UV-VIS.

Test Item(s):	Results						MDL	Limit
	6	7	8	9	10	11		
Formaldehyde	ND	ND	ND	ND	ND	ND	16	See note 5
Conclusion	Pass	Pass	Pass	Pass	Pass	Pass	\	\





Test Item(s):	Results							MDL	Limit
	12	13	14	15	17	18	20		
Formaldehyde	ND	ND	24	ND	ND	ND	ND	16	See note 5
Conclusion	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\	\

Note:

1. Unit: mg/kg
2. ND=Not Detected(<MDL)
3. MDL=Method Detection Limit
4. \ = Not available.
5. The Formaldehyde content limit is 30mg/kg in accessible textile components of toys intended for children under 3 years of age. The Formaldehyde content limit is 80mg/kg in accessible resin-bonded wood components of toys intended for children under 3 years of age.

A.5. Entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of Reach regulation (EC) No 1907/2006 on Phthalates (DBP, BBP, DEHP, DNOP, DINP and DIDP) content (formerly known as 2005/84/EC)

Test method: With reference to EN14372:2004, by solvent extraction and analysis was performed by GC-MS.

Test Item(s):	Result(s)						MDL	Limit
	1	2	3	4	5	6		
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	ND	0.005	—
Bis-(2-ethyl hexyl)-Phthalate (DEHP)	ND	ND	ND	ND	ND	ND	0.005	—
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	0.005	—
Sum of DBP, BBP, DEHP	ND	ND	ND	ND	ND	ND	—	0.1
Di-n-octyl Phthalate (DNOP)	ND	NA	NA	ND	ND	NA	0.005	—
Diisononyl Phthalate (DINP)	ND	NA	NA	ND	ND	NA	0.01	—
Diisodecyl Phthalate (DIDP)	ND	NA	NA	ND	ND	NA	0.01	—
Sum of DNOP, DINP, DIDP	ND	NA	NA	ND	ND	NA	—	0.1
Conclusion	Pass	Pass	Pass	Pass	Pass	Pass	\	\





Test Item(s):	Result(s)							MDL	Limit
	7	8	9	10	11	12	13		
Dibutyl Phthalate(DBP)	ND	ND	ND	ND	ND	ND	ND	0.005	—
Bis-(2-ethyl hexyl)-Phthalate (DEHP)	ND	ND	ND	ND	ND	ND	ND	0.005	—
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	ND	0.005	—
Sum of DBP,BBP,DEHP	ND	ND	ND	ND	ND	ND	ND	—	0.1
Di-n-octyl Phthalate(DNOP)	NA	NA	NA	NA	NA	NA	ND	0.005	—
Diisononyl Phthalate (DINP)	NA	NA	NA	NA	NA	NA	ND	0.01	—
Diisodecyl Phthalate(DIDP)	NA	NA	NA	NA	NA	NA	ND	0.01	—
Sum of DNOP,DINP,DIDP	NA	NA	NA	NA	NA	NA	ND	—	0.1
Conclusion	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\	\

Test Item(s):	Result(s)							MDL	Limit
	14	15	16	17	18	19	20		
Dibutyl Phthalate(DBP)	ND	ND	ND	ND	ND	ND	ND	0.005	—
Bis-(2-ethyl hexyl)-Phthalate (DEHP)	ND	ND	ND	ND	ND	ND	ND	0.005	—
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	ND	0.005	—
Sum of DBP,BBP,DEHP	ND	ND	ND	ND	ND	ND	ND	—	0.1
Di-n-octyl Phthalate(DNOP)	ND	ND	ND	NA	ND	ND	NA	0.005	—
Diisononyl Phthalate (DINP)	ND	ND	ND	NA	ND	ND	NA	0.01	—
Diisodecyl Phthalate(DIDP)	ND	ND	ND	NA	ND	ND	NA	0.01	—
Sum of DNOP,DINP,DIDP	ND	ND	ND	NA	ND	ND	NA	—	0.1
Conclusion	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\	\

Note:

1. Unit: %(percent by weight)
2. ND=Not Detected(<MDL)
3. MDL=Method Detection Limit
4. NA=Not applicable
5. "—" =Not regulated
6. \ = Not available





A.6. Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of Reach regulation (EC) No 1907/2006 on AZO colorants content (formerly known as 2002/61/EC)

Test method: With reference to EN 14362-1: 2012, Analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

No.	Item	CAS No.	MDL	Results					Limit
				6	7	8	9	10	
1	4-aminodiphenyl/xenylamine/Biphenyl-4-ylamine	92-67-1	5	ND	ND	ND	ND	ND	30
2	Benzidine	92-87-5	5	ND	ND	ND	ND	ND	30
3	4-chlor- <i>o</i> -toluidine	95-69-2	5	ND	ND	ND	ND	ND	30
4	2-naphthylamine	91-59-8	5	ND	ND	ND	ND	ND	30
5	<i>o</i> -aminoazotoluene/4- <i>o</i> -tolylazo- <i>o</i> -toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	5	ND	ND	ND	ND	ND	30
6	2-amino-4-nitrotoluol/5-nitro- <i>o</i> -toluidine	99-55-8	5	ND	ND	ND	ND	ND	30
7	<i>p</i> -chloranilin/4-chloroaniline	106-47-8	5	ND	ND	ND	ND	ND	30
8	2,4-diaminoanisol/ 4-methoxy- <i>m</i> -phenylenediamine	615-05-4	5	ND	ND	ND	ND	ND	30
9	4,4'-diaminodiphenylmethane/ 4,4'-methylenedianiline	101-77-9	5	ND	ND	ND	ND	ND	30
10	3,3'-dichlorobenzidine/ 3,3'dichlorobiphenyl-4,4'-ylenediamine	91-94-1	5	ND	ND	ND	ND	ND	30
11	3,3'-dimethoxybenzidine/ <i>o</i> -dianisidine	119-90-4	5	ND	ND	ND	ND	ND	30
12	3,3'-dimethylbenzidine/4,4'-bi- <i>o</i> -Toluidine	119-93-7	5	ND	ND	ND	ND	ND	30
13	3,3'-dimethyl-4,4'-diaminodiphenylmethane/ 4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	5	ND	ND	ND	ND	ND	30
14	<i>p</i> -cresidin/6-methoxy- <i>m</i> -toluidine	120-71-8	5	ND	ND	ND	ND	ND	30
15	4,4'-methylen-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	5	ND	ND	ND	ND	ND	30
16	4,4'-oxydianiline	101-80-4	5	ND	ND	ND	ND	ND	30
17	4,4'-thiodianiline	139-65-1	5	ND	ND	ND	ND	ND	30
18	<i>o</i> -toluidine/2-aminotoluene	95-53-4	5	ND	ND	ND	ND	ND	30
19	2,4-toluyldiamine/4-methyl- <i>m</i> -phenylenediamine	95-80-7	5	ND	ND	ND	ND	ND	30
20	2,4,5-trimethylaniline	137-17-7	5	ND	ND	ND	ND	ND	30
21	4-aminoazobenzene*	60-09-3	5	ND	ND	ND	ND	ND	30
22	<i>o</i> -anisidine/ 2-methoxyaniline	90-04-0	5	ND	ND	ND	ND	ND	30
23	2,4-Xylidine	95-68-1	5	ND	ND	ND	ND	ND	30
24	2,6-Xylidine	87-62-7	5	ND	ND	ND	ND	ND	30
\	Conclusion	\	\	Pass	Pass	Pass	Pass	Pass	\





No.	Item	CAS No.	MDL	Results					Limit
				11	12	13	14	20	
1	4-aminodiphenyl/xenylamine/Biphenyl-4-ylamine	92-67-1	5	ND	ND	ND	ND	ND	30
2	Benzidine	92-87-5	5	ND	ND	ND	ND	ND	30
3	4-chlor- <i>o</i> -toluidine	95-69-2	5	ND	ND	ND	ND	ND	30
4	2-naphthylamine	91-59-8	5	ND	ND	ND	ND	ND	30
5	<i>o</i> -aminoazotoluene/4- <i>o</i> -tolylazo- <i>o</i> -toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	5	ND	ND	ND	ND	ND	30
6	2-amino-4-nitrotoluol/5-nitro- <i>o</i> -toluidine	99-55-8	5	ND	ND	ND	ND	ND	30
7	<i>p</i> -chloranilin/4-chloroaniline	106-47-8	5	ND	ND	ND	ND	ND	30
8	2,4-diaminoanisol/ 4-methoxy- <i>m</i> -phenylenediamine	615-05-4	5	ND	ND	ND	ND	ND	30
9	4,4'-diaminodiphenylmethane/ 4,4'-methylenedianiline	101-77-9	5	ND	ND	ND	ND	ND	30
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	5	ND	ND	ND	ND	ND	30
11	3,3'-dimethoxybenzidine/ <i>o</i> -dianisidine	119-90-4	5	ND	ND	ND	ND	ND	30
12	3,3'-dimethylbenzidine/4,4'-bi- <i>o</i> -Toluidine	119-93-7	5	ND	ND	ND	ND	ND	30
13	3,3'-dimethyl-4,4'-diaminodiphenylmethane/ 4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	5	ND	ND	ND	ND	ND	30
14	<i>p</i> -cresidin/6-methoxy- <i>m</i> -toluidine	120-71-8	5	ND	ND	ND	ND	ND	30
15	4,4'-methylen-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	5	ND	ND	ND	ND	ND	30
16	4,4'-oxydianiline	101-80-4	5	ND	ND	ND	ND	ND	30
17	4,4'-thiodianiline	139-65-1	5	ND	ND	ND	ND	ND	30
18	<i>o</i> -toluidine/2-aminotoluene	95-53-4	5	ND	ND	ND	ND	ND	30
19	2,4-toluylendiamine/4-methyl- <i>m</i> -phenylenedi amine	95-80-7	5	ND	ND	ND	ND	ND	30
20	2,4,5-trimethylaniline	137-17-7	5	ND	ND	ND	ND	ND	30
21	4-aminoazobenzene*	60-09-3	5	ND	ND	ND	ND	ND	30
22	<i>o</i> -anisidine/ 2-methoxyaniline	90-04-0	5	ND	ND	ND	ND	ND	30
23	2,4-Xylidine	95-68-1	5	ND	ND	ND	ND	ND	30
24	2,6-Xylidine	87-62-7	5	ND	ND	ND	ND	ND	30
\	Conclusion	\	\	Pass	Pass	Pass	Pass	Pass	\

Note:

1. Unit:mg/kg
2. ND=Not Detected(<MDL)
3. MDL=Method Detection Limit
4. \ = Not available.

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A.7. Entry 23 of Regulation (EC) No 552/2009 amending Annex XVII of Reach regulation (EC) No1907/2006 on Cadmium content

Test method: With reference to EN1122, by acid digestion and analysis was performed by ICP-OES.

Test Item(s):	Limit	Test Results									MDL
		1	2	3	4	5	6	7	8	9	
Cadmium(Cd)	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\

Test Item(s):	Limit	Test Results									MDL
		10	11	12	13	14	15	16	19	20	
Cadmium(Cd)	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\

Note:

1. Unit:mg/kg
2. ND=Not Detected(<MDL)
3. MDL=Method Detection Limit
4. \ = Not available.

B.1. US ASTM F963-2011 for Physical and Mechanical Requirement

Sample Model:	Ladybird,Bee,Cow,Mouse,Tiger,Pig, large
Labeled age grading:	36 months up
Tested Age Grading:	36 months up

Clause	Testing Items	Result
4	Safety Requirements	
4.1	Material Quality (Visual Examination)	Pass
4.4	Electrical/thermal energy	NA
4.5	Sound-producing Toys	NA
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.10	Wires or Rods	NA
4.11	Nails & Fasteners	Pass
4.12	Plastic Film	NA
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords and elastics in toys	NA
4.15	Stability and Over-Load Requirements	Pass

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Clause	Testing Items	Result
4.16	Confined Spaces	NA
4.17	Wheels, Tires & Axles	Pass
4.18	Holes, Clearance & Accessibility of Mechanisms	Pass
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 & Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-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	Pass
6	Instructional Literature	Pass
7	Producer's markings	Pass

Sample Model:	Ladybird, Bee, Cow, Mouse, Tiger, Pig, small
Labeled age grading:	AGE 1.5 yr +
Tested Age Grading:	18 months up

Clause	Testing Items	Result
4	Safety Requirements	
4.1	Material Quality (Visual Examination)	Pass
4.4	Electrical/thermal energy	NA
4.5	Sound-producing Toys	NA
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass





Clause	Testing Items	Result
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.10	Wires or Rods	NA
4.11	Nails & Fasteners	Pass
4.12	Plastic Film	NA
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords and elastics in toys	NA
4.15	Stability and Over-Load Requirements	Pass
4.16	Confined Spaces	NA
4.17	Wheels, Tires & Axles	Pass
4.18	Holes, Clearance & Accessibility of Mechanisms	Pass
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 & Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-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	Pass
6	Instructional Literature	Pass
7	Producer's markings	Pass

Note:

1. NA = Not Applicable





B.2. US ASTM F963-2011 for Flammability Requirement

As per section 4.2 of the ASTM standard consumer safety specification for toy safety F963-2011.

Sample Name	Sample Model	Burning Rate (inch /sec)	Result
Wheely Bug Ride on Range	Tiger	0.03	Pass
	Cow	SE	Pass
	Ladybird	SE	Pass
	Bee	SE	Pass
	Mouse	0.03	Pass
	Pig	0.03	Pass

Note:

1. In accordance with the ASTM F963, the burning rate should not be greater than 0.1 inch per second.
2. SE = Self-Extinguished.

B.3. US ASTM F963-2011 for Heavy metal Requirement

Test method: with reference to section 4.3.5 and section 8.3 of ASTM standard consumer safety specification for toy safety F963-2011, analysis was performed by ICP-OES.

Test Item(s):	Limit	Test Results								MDL
		1	2	3	4	5	6	7	8	
Soluble Cadmium (Cd)	75	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Lead (Pb)	90	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Mercury (Hg)	60	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Chromium(Cr)	60	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Antimony(Sb)	60	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Arsenic(As)	25	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Barium(Ba)	1000	ND	ND	ND	ND	ND	ND	ND	ND	10
Soluble Selenium(Se)	500	ND	ND	ND	ND	ND	ND	ND	ND	5
Total lead (Pb)	See note 4	38	ND	ND	ND	ND	ND	ND	ND	2
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\

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Test Item(s):	Limit	Test Results								MDL
		9	10	11	12	13	14	15	16	
Soluble Cadmium (Cd)	75	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Lead (Pb)	90	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Mercury (Hg)	60	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Chromium(Cr)	60	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Antimony(Sb)	60	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Arsenic(As)	25	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Barium(Ba)	1000	ND	ND	ND	ND	ND	ND	ND	ND	10
Soluble Selenium(Se)	500	ND	ND	ND	ND	ND	ND	ND	ND	5
Total lead (Pb)	100	ND	ND	ND	ND	ND	ND	ND	ND	2
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\

Test Item(s):	Limit	Test Results							MDL
		17	18	19	20	21	22	23	
Soluble Cadmium (Cd)	75	ND	ND	ND	ND	NA	NA	NA	5
Soluble Lead (Pb)	90	ND	ND	ND	ND	NA	NA	NA	5
Soluble Mercury (Hg)	60	ND	ND	ND	ND	NA	NA	NA	5
Soluble Chromium(Cr)	60	ND	ND	ND	ND	NA	NA	NA	5
Soluble Antimony(Sb)	60	ND	ND	ND	ND	NA	NA	NA	5
Soluble Arsenic(As)	25	ND	ND	ND	ND	NA	NA	NA	5
Soluble Barium(Ba)	1000	ND	ND	ND	ND	NA	NA	NA	10
Soluble Selenium(Se)	500	ND	ND	ND	ND	NA	NA	NA	5
Total lead (Pb)	100	ND	ND	ND	ND	ND	ND	ND	2
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\

Note:

1. Unit:mg/kg
2. ND=Not Detected(<MDL)
3. MDL=Method Detection Limit
4. The total lead content limit is 90 mg/kg in paints or similar surface –coating materials, The total

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lead content limit is 100mg/kg in toy substrate materials.

5. The analytical results were adjusted by subtracting the analytical correction.

Analytical Correction

Element	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical correction, as a percentage	60	60	30	30	30	30	50	60

6. NA = Not Applicable.

7. \ = Not available.

C.1. US Consumer Products Safety Improvement Act of 2008 (H.R. 4040) title 1, section 101(f) - total lead content in paint and other similar surface-coating

Testing Method: with reference to CPSC-CH-E1003-09.1, by acid digestion and analysis was performed by ICP-OES

Test Item(s):	Limit	Test Result	MDL
		1	
Total lead (Pb)	100	38	2
Conclusion	\	Pass	\

Note:

1. Unit: mg/kg
2. ND = Not Detected (<MDL)
3. MDL = Method Detection Limit
4. \ = Not available.

C.2. US Consumer Products Safety Improvement Act of 2008 (H.R. 4040) title 1, section 101(a)(2) - total lead content in substrate materials

Testing Method: with reference to CPSC-CH-E1001-08.2 or CPSC-CH-E1002-08.2, by acid digestion and analysis was performed by ICP-OES.

Test Item(s):	Limit	Test Results								MDL
		2	3	4	5	6	7	8	9	
Total lead (Pb)	100	ND	ND	ND	ND	ND	ND	ND	ND	2
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\

Test Item(s):	Limit	Test Results								MDL
		10	11	12	13	14	15	16	17	
Total lead (Pb)	100	ND	ND	ND	ND	ND	ND	ND	ND	2





Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\
Test Item(s):	Limit	Test Results						MDL		
		18	19	20	21	22	23			
Total lead (Pb)	100	ND	ND	ND	ND	ND	ND	ND	2	
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\

Note:

1. Unit: mg/kg
2. ND=Not Detected(<MDL)
3. MDL=Method Detection Limit
4. \ = Not available.

C.2.US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 108-requirement on phthalates content

Test method: With reference to CPSC-CH-C1001-09.3, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Test Item(s):	Limit	Test Results						MDL
		1	2	3	4	5	6	
Dibutyl Phthalate(DBP)	1000	ND	ND	ND	ND	ND	ND	50
Bis-(2-ethylhexyl)-Phthalate(DEHP)	1000	ND	ND	ND	ND	ND	ND	50
Benzyl butyl phthalate (BBP)	1000	ND	ND	ND	ND	ND	ND	50
Di-n-octyl Phthalate(DNOP)	1000	ND	NA	NA	ND	ND	NA	50
Diisononyl Phthalate(DINP)	1000	ND	NA	NA	ND	ND	NA	100
Diisodecyl Phthalate(DIDP)	1000	ND	NA	NA	ND	ND	NA	100
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	\





Test Item(s):	Limit	Test Results							MDL
		7	8	9	10	11	12	13	
Dibutyl Phthalate(DBP)	1000	ND	ND	ND	ND	ND	ND	ND	50
Bis-(2-ethylhexyl)-Phthalate(DEHP)	1000	ND	ND	ND	ND	ND	ND	ND	50
Benzyl butyl phthalate (BBP)	1000	ND	ND	ND	ND	ND	ND	ND	50
Di-n-octyl Phthalate(DNOP)	1000	NA	NA	NA	NA	NA	NA	ND	50
Diisononyl Phthalate(DINP)	1000	NA	NA	NA	NA	NA	NA	ND	100
Diisodecyl Phthalate(DIDP)	1000	NA	NA	NA	NA	NA	NA	ND	100
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\

Test Item(s):	Limit	Test Results							MDL
		14	15	16	17	18	19	20	
Dibutyl Phthalate(DBP)	1000	ND	ND	ND	ND	ND	ND	ND	50
Bis-(2-ethylhexyl)-Phthalate(DEHP)	1000	ND	ND	ND	ND	ND	ND	ND	50
Benzyl butyl phthalate (BBP)	1000	ND	ND	ND	ND	ND	ND	ND	50
Di-n-octyl Phthalate(DNOP)	1000	ND	ND	ND	NA	ND	ND	NA	50
Diisononyl Phthalate(DINP)	1000	ND	ND	ND	NA	ND	ND	NA	100
Diisodecyl Phthalate(DIDP)	1000	ND	ND	ND	NA	ND	ND	NA	100
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\

Note:

1. Unit:mg/kg
2. ND=Not Detected(<MDL)
3. MDL=Method Detection Limit
4. NA=Not Applicable.
5. \ = Not available.





D.1. AS/NZS ISO8124-1—Safety aspects related to Mechanical and physical properties

Sample Model:	Ladybird, Bee, Cow, Mouse, Tiger, Pig, large
Labeled age grading:	36 months up
Tested Age Grading:	36 months up

Section	Description	Result
4	Requirements	
4.1	Normal use	Pass
4.2	Reasonably foreseeable abuse	Pass
4.3	Material	
4.3.1	Material quality	Pass
4.4	Small parts	
4.4.2	For children 37 months and over but under 72 months	Pass
4.5	Shape, size and strength of certain toys	NA
4.6	Edges	
4.6.1	Accessible sharp edges of glass or metal	Pass
4.6.4	Edges on moulded toys	Pass
4.7	Points	
4.7.1	Accessible sharp points	Pass
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	NA
4.11	Cords and elastics	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	NA
4.14	Springs	Pass
4.15	Stability and overload requirements	Pass
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles	NA
4.18	Projectile toys	NA
4.19	Aquatic toys	NA
4.20	Braking	NA
4.21	Toy bicycles	NA
4.22	Speed limitation of electrically driven ride-on toys	NA
4.23	Toys containing a heat source	NA
4.24	Liquid-filled toys	NA
4.25	Mouth-actuated toys	NA
4.26	Toy roller skates, toy inline skates and toy skateboards	NA
4.27	Percussion caps	NA





Section	Description	Result
4.28	Acoustic requirements	NA
4.29	Toy scooters	NA
Annex B	Safety-labelling guidelines and manufacturer's markings	Pass

Sample Model:	Ladybird, Bee, Cow, Mouse, Tiger, Pig, small
Labeled age grading:	AGE 1.5 yr +
Tested Age Grading:	18 months up

Section	Description	Result
4	Requirements	
4.1	Normal use	Pass
4.2	Reasonably foreseeable abuse	Pass
4.3	Material	
4.3.1	Material quality	Pass
4.4	Small parts	
4.4.2	For children 37 months and over but under 72 months	Pass
4.5	Shape, size and strength of certain toys	NA
4.6	Edges	
4.6.1	Accessible sharp edges of glass or metal	Pass
4.6.4	Edges on moulded toys	Pass
4.7	Points	
4.7.1	Accessible sharp points	Pass
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	NA
4.11	Cords and elastics	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	NA
4.14	Springs	Pass
4.15	Stability and overload requirements	Pass
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles	NA
4.18	Projectile toys	NA
4.19	Aquatic toys	NA
4.20	Braking	NA
4.21	Toy bicycles	NA
4.22	Speed limitation of electrically driven ride-on toys	NA
4.23	Toys containing a heat source	NA
4.24	Liquid-filled toys	NA





Section	Description	Result
4.25	Mouth-actuated toys	NA
4.26	Toy roller skates, toy inline skates and toy skateboards	NA
4.27	Percussion caps	NA
4.28	Acoustic requirements	NA
4.29	Toy scooters	NA
Annex B	Safety-labelling guidelines and manufacturer's markings	Pass

D.2.AS/NZS ISO8124-2 — Flammability

Section	Description	Result
4	Requirements	
4.1	General	Pass
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 (animals and dolls etc.) with a piled or textile surface	NA

D.3.AS/NZS ISO8124-3—Migration of Certain Elements

Test method: with reference to AS/NZS ISO8124-3:2010, analysis was performed by ICP-OES.

Test Item(s):	Limit	Test Results								MDL
		1	2	3	4	5	6	7	8	
Soluble Cadmium (Cd)	75	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Lead (Pb)	90	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Mercury (Hg)	60	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Chromium(Cr)	60	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Antimony(Sb)	60	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Arsenic(As)	25	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Barium(Ba)	1000	ND	ND	ND	ND	ND	ND	ND	ND	10
Soluble Selenium(Se)	500	ND	ND	ND	ND	ND	ND	ND	ND	5
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\





Test Item(s):	Limit	Test Results								MDL
		9	10	11	12	13	14	15	16	
Soluble Cadmium (Cd)	75	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Lead (Pb)	90	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Mercury (Hg)	60	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Chromium(Cr)	60	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Antimony(Sb)	60	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Arsenic(As)	25	ND	ND	ND	ND	ND	ND	ND	ND	5
Soluble Barium(Ba)	1000	ND	ND	ND	ND	ND	ND	ND	ND	10
Soluble Selenium(Se)	500	ND	ND	ND	ND	ND	ND	ND	ND	5
Conclusion	\	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	\

Test Item(s):	Limit	Test Results				MDL
		17	18	19	20	
Soluble Cadmium (Cd)	75	ND	ND	ND	ND	5
Soluble Lead (Pb)	90	ND	ND	ND	ND	5
Soluble Mercury (Hg)	60	ND	ND	ND	ND	5
Soluble Chromium(Cr)	60	ND	ND	ND	ND	5
Soluble Antimony(Sb)	60	ND	ND	ND	ND	5
Soluble Arsenic(As)	25	ND	ND	ND	ND	5
Soluble Barium(Ba)	1000	ND	ND	ND	ND	10
Soluble Selenium(Se)	500	ND	ND	ND	ND	5
Conclusion	\	Pass	Pass	Pass	Pass	\

Note:

1. Unit:mg/kg
2. ND=Not Detected(<MDL)
3. MDL=Method Detection Limit
4. The analytical results were adjusted by subtracting the analytical correction.

Analytical Correction

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Element	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical correction, as a percentage	60	60	30	30	30	30	50	60

5. \ = Not available.

Test Components Description :

1. Black coating (logo/words logo) ① - ⑥
2. Black plastic (wheels) ① - ⑥
3. Black plastic (handle) ① - ⑥
4. Black plastic (eyes) ①
5. Black plastic (horn) ④ ⑥
6. Black&light pink PU (pig) ①
7. Black&orange PU (tiger) ②
8. Black&white PU (cow) ③
9. Black&red PU (ladybird) ④
10. Rose PU (ear of mouse) ⑤
11. Grey&rose&black PU (mouse) ⑤
12. Black&yellow PU (bee) ⑥
13. Black plush (tail) ②
14. Multicolor fabric (sewn label) ① - ⑥
15. White plush (ears) ②
16. Black plastic (horn/tail) ③ - ⑥
17. Beige wood (chassis) ① - ⑥
18. Beige yellow wood (horn) ③
19. Transparent plastic (plastic sticker) ① - ⑥
20. Black PU (tail/head) ③ ④ ⑥
21. Silver color metal spring (horn) ③ ④ ⑥
22. Silver color metal (handle) ① - ⑥
23. Silver color metal (screw/washer) ① - ⑥

Remark: ①pig;②tiger;③cow;④ladybird;⑤mouse;⑥bee.



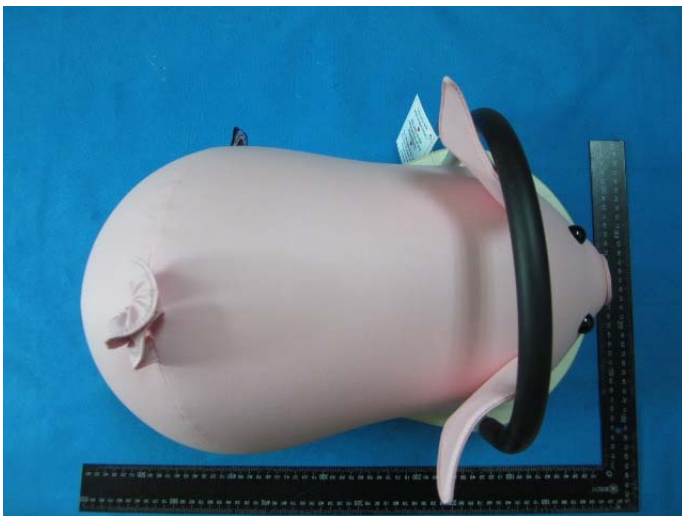


Appendix :



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