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TEST REPORT

Number: BKKH10045325

Applicant: BALLS R US CO., LTD.
3/6 MOO 9 PHUTHAMONTHON 7 ROAD,
TA-TALARD, SAMPRAN, NAKORNPATHOM 73110
ATTN: K.NAWARAT

Date: Aug 02, 2010

Sample description:

One (1) set of submitted sample said to be PT-5

Item name:	PT-5
Goods exported to:	World Wide
Country of origin:	Canada
Date sample received:	July 05, 2010
Date sample resubmitted:	July 23, 2010



Tests conducted:

As requested by the applicant, for details please refer to attached pages.

To be continued :

Authorized by :
For Intertek Testing Services (Thailand)

Phanit Hitapong
Division Manager
Toys & Hardlines Division



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Conclusion:

<u>Tested samples</u>	<u>Standard - U.S. ASTM F963-08</u>	<u>Result</u>
Submitted sample	Physical and Mechanical Tests Excluding labelling requirement of section 5, 6 and 7	Pass
	Flammability Test	Pass
	Toxic elements Test	Pass
	<u>Standard</u> U.S. CFR Title 16 Part 1501 requirements for Small parts	Not applicable
	U.S. Consumer product safety improvement Act 2008(H.R. 4040) Title I, Section 101 For total lead content in non-surface coating material (substrate)	Pass
	U.S. Consumer product safety improvement Act 2008(H.R. 4040) Title I, Section 101 For total lead content in surface coating	Pass
	U.S. Consumer product safety improvement Act 2008(H.R. 4040) Title I, Section 108 Requirement on phthalates	Pass



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Test conducted:

- 1 Mechanical and Physical Tests
As per ASTM Standard Consumer Safety Specification on toy safety F963-08.

Applicant's specified age group for testing: For ages 3 years up.

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: -

<u>Test</u>	<u>FHSA</u>	<u>Parameter</u>
Impact test	Section 1500.53(b)	4 x 3.0 ft
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf

<u>Section</u>	<u>Testing items</u>	<u>Assessment</u>
4.5	Sound producing toys	NA
4.6	Small objects	NA
4.7	Accessible edges	P
4.8	Projections	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Packaging film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords and elastics in toys	NA
4.15	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA



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<u>Section</u>	<u>Testing items</u>	<u>Assessment</u>
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw entrapment in handles and steering wheels	NA
5	Safety labelling requirements	Not specified
6	Instructional literature	Not specified
7	Producer's markings	
	- name of distributor (toy)	Yes
	- address (toy)	No

Remark: The submitted samples were undergone the tests in accordance with section 8.5 through section 8.18 and 8.20 through 8.23 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass NA = not applicable

Remark: The final product or its packaging must be marked with the name and address of the producer or distributor as specified in section 7.1 of U.S. ASTM F963-08.

Testing period: July 05, 2010 to July 27, 2010



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Test conducted:

2 Flammability Test

As per section 4.2 of the ASTM Standard Consumer Safety Specification on toy safety F963-08.

<u>Sample</u>	<u>Burn length</u> (inch)	<u>Limit</u> (inch/sec)
PT-5	DNI	0.10

Remark: DNI = Did not ignite

Testing period: July 05, 2010 to July 27, 2010

3 Toxic elements analysis

As per section 4.3.5 of the ASTM Standard Consumer Safety Specification on toy safety F963-08 for total toxic elements, acid digestion method was used and all toxic elements content were determined by Inductively Couple Plasma Optical Emission Spectrometry.

	<u>Result in ppm</u>	<u>Limit</u> <u>ppm</u>
Total lead (Pb)	19	90
Sol. Barium (Ba)	<5	1000
Sol. Lead (Pb)	<5	90
Sol. Cadmium (Cd)	<5	75
Sol. Antimony (Sb)	<5	60
Sol. Selenium (Se)	<5	500
Sol. Chromium (Cr)	<5	60
Sol. Mercury (Hg)	<5	60
Sol. Arsenic (As)	<3	25

Remark: Sol. = Soluble
< = Less than
ppm = Parts per million based on weight of paint coating;
Blue print screen on orange foam

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Test conducted:

4 Small parts test

As per U.S. code of Federal Regulations Title 16 Part 1501, the hazards of small parts are assessed both before and after conditioning as set forth in part 1500.50.

Applicant's specified age group for testing: For ages 3 years up.

Assessment

As received	NA
Impact (1500.53(b))	NA
Flexure (1500.53(d))	NA
Torque (1500.53(e))	NA
Tension (1500.53(f))	NA
Compression (1500.53(g))	NA

Remark: P = Pass
NA = Not applicable

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Test conducted:

- 5 Total lead (Pb) content in substrate material- non-metal children's product
 As per U.S. Consumer product safety improvement Act of 2008 (H.R. 4040), Title I, Section 101 for children's products containing lead, CPSC-CH-E1001-08 method was used and total lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

<u>Tested component</u>	<u>Result (ppm)</u>
(1)	<10
(2)	<10
(3)	<10

Remark: ppm = parts per million = mg/kg
< = less than

Note: According to CPSIA of 2008 (H.R. 4040), the concentration of lead in substrate material shall not exceed the following :
- 300 ppm by weight effective 1 year after the date of enactment of this Act (14 Aug, 2009).
- 100 ppm by weight effective 3 years after the date of enactment of this Act (14 Aug, 2011).

Tested components:
(1) = Black rubber with white print
(2) = Yellow foam
(3) = White fiber glass

Testing period: July 05, 2010 to July 27, 2010

- 6 Total lead (Pb) content in surface coating
 As per U.S. Consumer Product Safety Improvement Act of 2008 (H.R. 4040), Title I, Section 101 for children's products containing lead, acid digestion method was used and total lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

<u>Tested component</u>	<u>Result (ppm)</u>
Submitted sample	19

Remark: ppm = Parts per million = mg/kg
< = Less than

Note: According to CPSIA of 2008 (H.R. 4040), the concentration of lead in paint shall not exceed the following:
- 90 ppm by weight effective 1 year after the date of enactment of this Act (14 Aug, 2009).

Tested component: Blue print screen on yellow foam

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Test conducted:

7 Phthalate content

As per CPSC-CH-C1001-09 and U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040), Title I, Section 108 requirement on Phthalates, solvent extraction method was used and Phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

(I) For children's toy or child care article

	<u>Result</u>				<u>Limit</u>
	(1)	(2)	(3)	(4)	(%, w/w)
Dibutyl Phthalate (DBP)	<0.015	<0.015	0.060	<0.015	0.1
Diethyl hexyl Phthalate (DEHP)	<0.015	<0.015	<0.015	<0.015	0.1
Benzyl butyl Phthalate (BBP)	<0.015	<0.015	<0.015	<0.015	0.1

(II) For children's toy that can be placed in a child's mouth or child care article

	<u>Result</u>				<u>Limit</u>
	(1)	(2)	(3)	(4)	(%, w/w)
Di-iso-nonyl Phthalate (DINP)	<0.015	<0.015	<0.015	<0.015	0.1
Di-n-octyl Phthalate (DNOP)	<0.015	<0.015	<0.015	<0.015	0.1
Di-iso-decyl Phthalate (DIDP)	<0.015	<0.015	<0.015	<0.015	0.1

Remark : < = Less than

Tested components:

- (1) = Black rubber with white print
- (2) = Yellow foam
- (3) = White fiber glass
- (4) = Blue print screen on yellow foam

Testing period: July 05, 2010 to July 27, 2010

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