



Test Report

Number: SZHH00954920

Applicant: CSP INC
8248 W.ORANGE DR GLENDALE, AZ 85303 USA

Date: May 16, 2015

Attn: WENDY

Sample Description:

Three (3) pieces of submitted sample said to be :
Item Name : **Light-Up Spiky Ball.**
Item No. : **K5-503.**
Applicant Specified Age : Over 3 Years.
Grading for Testing
Packaging Provided by Applicant : No.
Additional Material and Wet Paint Provided : No.
Buyer : Kids' Korner.



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Ben N.L. Lin
General Manager





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Conclusion:

<u>Tested Samples</u>	<u>Standard – U.S. ASTM F963-11</u>	<u>Result</u>
Submitted samples	Physical and mechanical tests excluding battery - operated toys requirement of section 4.25 & 6.5	Pass

	Flammability test of materials other than textile materials	Pass
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Tested components of submitted samples	Heavy elements test	Pass
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<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested components of submitted samples	U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 for Total Lead content in Non-surface coating materials (substrate)	Pass

Submitted samples	U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 for total Lead content in surface coating	Not applicable
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Tested components of submitted samples	US Consumer Product Safety Improvement Act 2008 Title I, Sec 108 requirement on phthalate	Pass
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Tests Conducted

1 Physical and Mechanical Tests

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-11.

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
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
Compression test	Section 1500.53(g)	30 lbf

Section	Testing Items	Assessment
4.1	Material quality (visual check on cleanliness)	P
4.5	Sound-producing toys	NA
4.6.1	Toys intended for children under 36 months (small objects)	NA
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	Projections	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords 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, such as helmets, hats and goggles	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	#1
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





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Section	Testing Items	Assessment
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	Yoyo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw entrapment in handles and steering wheels	NA
5	Labelling requirement	NA
6	Instructional literature	NA/#1
7	Producer's markings	No
	- Name of producer/distributor	No
	- Address	No

Remark : The submitted samples were undergone the tests in accordance with section 8.5 through section 8.18 and 8.20 through 8.26 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 F963-11.

As requested by applicant, sections 4.25 and 6.5 for battery-operated toys were not assessed.

Date sample received: Apr 28, 2015
Testing period: Apr 28, 2015 to May 06, 2015





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2 Flammability Test

As per section 4.2 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11, the sample was tested according to Annex A5 Flammability Testing Procedure for Solids and Soft Toys.

<u>Sample</u>	<u>Ignition Point</u>	<u>Burn Length</u> (inch)	<u>Time</u> (sec)	<u>Burn rate</u> (inch/sec)	<u>Limit</u> (inch/sec)
Ball	Edge	1.0	60	0.02	0.1

The submitted toy sample was tested, the above result only showed the most severe burn rate of the samples.

Date sample received: Apr 28, 2015
Testing period: Apr 28, 2015 to May 06, 2015

3 Total Lead (Pb) Content

As per Section 4.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11, test method CPSC-CH-E1001-08.1, CPSC-CH-E1002-08.1 or/and CPSC-CH-E1003-09.1 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Non-surface coating

<u>Tested Component</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(1+2+3)	<10	100
(4+5+6)	<10	100

ppm = parts per million

Tested Components :See component list in the last section of this report

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

Date sample received : Apr 28, 2015
Testing period : Apr 28, 2015 to Apr 29, 2015



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Tests Conducted

4 Heavy Elements Analysis (except modelling clay)

As per Section 4.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11, acid extraction method was used and heavy elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

	<u>Result (ppm)</u> <u>(1)to(6)</u>	<u>Limit</u> <u>ppm</u>
Sol. Barium (Ba)	<5	1000
Sol. Lead (Pb)	<5	90
Sol. Cadmium (Cd)	<5	75
Sol. Antimony (Sb)	<5	60
Sol. Selenium (Se)	<5	500
Sol. Chromium (Cr)	<5	60
Sol. Mercury (Hg)	<5	60
Sol. Arsenic (As)	<2.5	25

Sol. = Soluble
ppm = parts per million

Tested Components: See component list in the last section of this report

Date sample received : Apr 28, 2015
Testing period : Apr 28, 2015 to Apr 29, 2015

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

As per 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 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(1+2+3)	<10	100
(4+5+6)	<10	100

ppm = parts per million = mg/kg

Tested components: See component list in the last section of this report

Date sample received : Apr 28, 2015
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6 Total Lead (Pb) Content in Surface Coating

As per Standard Operating Procedure for Determining Lead (Pb) in paint and other similar surface coatings, test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

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 28, 2015
Testing period : Apr 28, 2015 to Apr 29, 2015

7 Phthalate Content

As per CPSC-CH-C1001-09.3, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	Result (%)		Limit (%)
	(1+2+3)	(4+5+6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	0.1
Di-(2-ethyl hexyl) phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1

	Result (%)		Limit (%)
	(1+2+3)	(4+5+6)	
Di-iso-nonyl phthalate (DINP)	<0.01	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	0.1
Di-iso-decyl phthalate (DIDP)	<0.01	<0.01	0.1

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

Tested Components: See component list in the last section of this report

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Component list:

- (1) Orange plastic (ball).
- (2) Peach plastic (ball).
- (3) Green plastic (ball).
- (4) Blue plastic (ball).
- (5) Purple plastic (ball).
- (6) Yellow plastic (ball).

End of report

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