

# Test Report

Report No.: SZT09042808277

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**Client** : CSP INC  
**Address** : PO BOX 1157 GLENDALE AZ. 85311

**Report on the submitted sample said to be:**

Sample Name : Spikey Ball with Eyes  
Item No. : K06-819  
Quantity of Sample : 9 pcs  
Buyer : Kids' Korner  
Country of Origin : Others  
Exported to : U.S.A  
Client Specified Age Grading : 3 years and up  
Labelled Age Grading : Not stated  
Age Group Applied in Testing : Over 3 years  
Sample Received Date : Apr. 28, 2009  
Resubmitted Sample Date : May. 14, 2009  
Further Information Date : May. 14, 2009  
Sample Tested Date : Apr. 28, 2009 to May. 19, 2009

**TEST REQUEST**

- 1) ASTM F963-08 Standard Consumer Safety Specification for Toy Safety  
(Except test to clause 4.25 Battery-operated toys)
- 2) US Consumer Products Safety Improvement Act 2008 (CPSIA)
  - Lead in surface-coatings and similar materials of children's product
  - Lead in substrate materials of children's product
  - Phthalates in children's toys and child care articles

**CONCLUSION**

**PASS**

**PASS**

**PASS**

**PASS<sup>#01</sup>**

**Test Results:** Please refer to next page(s)

Inspected by: Maggie

Engineer

Approved by: Victor wang

Victor wang  
Lab Manager

Approved date: 2009-05-19



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## 1) ASTM F963 –08

AS SPECIFIED IN ASTM F963-08 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.	Safety Requirements	
4.1	Material Quality (Visual Examination).....	Pass
4.2	Flammability Test.....	Pass (See Note 1)
4.3	Toxicology	
4.3.5	Paint & Similar Surface-coating Material.....	Pass (See Note 2)
4.6	Small Objects.....	N/A
4.7	Accessible Edges.....	Pass
4.9	Accessible Points.....	Pass
4.34	Balls.....	N/A
4.37	Yo-Yo Elastic Tether Toys.....	Pass
7.	Producers Markings	
7.1	Producers Markings.....	Pass
8.	Test Method	
8.5	Normal Use Testing.....	Pass
8.7	Impact Test .....	Pass
8.8	Torque Test.....	Pass
8.9	Tension Test.....	Pass

N/A = Not Applicable

### Note 1:

#### Flammability Test (Clause 4.2)

#### Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
Spikey Ball with Eyes	0.1*	0.1

\*Burning rate has been rounded to the nearest one tenth of an inch per second.

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Note 2 :

**ASTM F963-08 CLAUSE 4.3.5 - PAINT & SIMILAR SURFACE-COATING MATERIAL**

Heavy Metals Analysis : Total Lead (Clause 4.3.5.1)

Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result(mg/kg)</u>	<u>Limit</u> (mg/kg)
	Black coating(eyes)	
Total Lead	< 5	600

Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)

Acid Extraction Method was Used in accord with ASTM F963-08 (Clause 8.3) and Toxic Elements Content were Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Elements</u>	<u>Result (mg/kg)</u>	<u>Limit</u> (mg/kg)
	Black coating(eyes)	
Soluble Antimony (Sb)	<5	60
Soluble Arsenic (As)	<2.5	25
Soluble Barium (Ba)	<5	1000
Soluble Cadmium (Cd)	<5	75
Soluble Chromium (Cr)	<2.5	60
Soluble Lead (Pb)	<5	90
Soluble Mercury (Hg)	<2.5	60
Soluble Selenium (Se)	<5	500

Remark:

- < = Less than
- mg/kg = Milligram per kilogram based on dry weight of sample
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical correction factor

Note:

- Only applicable clauses were shown.

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## 2) US CONSUMER PRODUCTS SAFETY IMPROVEMENT ACT 2008 (CPSIA)

### ▼ LEAD IN SURFACE-COATING AND SIMILAR MATERIALS OF CHILDREN'S PRODUCT

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA) and Title 16 Part 1303 Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A, Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result (ppm)</u>	<u>Limit<sup>#1</sup></u>
	Black coating(eyes)	(ppm)
Total Lead (Pb)	<5	600

#### Remark:

- < = Less than
- ppm= parts per million based on dry weight of sample
- #1 = The total Lead limit for surface coatings and similar materials will be **90ppm** (Effective Date : August 14, 2009)

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## ▼ LEAD IN SUBSTRATE MATERIALS OF CHILDREN'S PRODUCT

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA), Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result (ppm)</u>				<u>Limit #2</u> (ppm)
	(1)	(2)	(3)	(4)	
Total Lead (Pb)	<5	<5	<5	<5	600

### Tested Components:

- (1) White soft plastic
- (2) Green soft plastic
- (3) Red soft plastic
- (4) Yellow soft plastic

### Remark:

- < = Less than
- ppm= parts per million based on dry weight of sample
- #2 = The total Lead limit for substrate materials will be **300ppm** (Effective Date : August 14, 2009)

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## ▼ PHTHALATES IN CHILDREN'S TOY AND CHILD CARE ARTICLES

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA) ,Solvent extraction Method was Used and phthalates were Determined by Gas Chromatograph with Mass Spectrometer (GC-MS).

Material(s) in toys and childcare articles				
<u>Tested Item</u>	<u>Result (%)</u>			<u>Limit#</u> (%)
	(1)/(2)/(3)	(4)	(5)	
Di-2-ethylhexyl Phthalate (DEHP)	<0.003	<0.003	<0.003	0.1
Dibutyl Phthalate (DBP)	<0.003	<0.003	<0.003	0.1
Benzylbutyl Phthalate (BBP)	<0.003	<0.003	<0.003	0.1

Material(s) in toys that can be placed in mouth and childcare articles				
<u>Tested Item</u>	<u>Result (%)</u>			<u>Limit#</u> (%)
	(1)/(2)/(3)	(4)	(5)	
Diisononyl Phthalate (DINP)	<0.005	<0.005	<0.005	0.1
Di-n-octyl Phthalate (DNOP)	<0.003	<0.003	<0.003	0.1
Diisodecyl Phthalate (DIDP)	<0.005	<0.005	<0.005	0.1

### Tested Components:

- (1) White soft plastic
- (2) Green soft plastic
- (3) Red soft plastic
- (4) Yellow soft plastic
- (5) Black coating(eyes)

### Remark:

- < = Less than
- % = Percentage based on dry weight of sample
- # = The limit for the test result is 1/n of the value column (where "1/n" is the number of mixed samples)
- #01 : CTI conducted phthalates on the components which were identified by the client, and the testing results can meet CPSIA requirement.

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## Photo of the sample



\*\*\* End of report \*\*\*

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