

# Test Report

Report No.: SZT09042808269

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

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

Sample Name : Rubber Sports Balls  
Quantity of Sample : 9 pcs  
Item No. : K03-912  
Buyer : Kids' Korner  
Country of Origin : Other  
Exported to : U.S.A  
Client Specified Age Grading : Over 3 years  
Labelled Age Grading : Not stated  
Age Group Applied in Testing : Over 3 years  
Sample Received Date : Apr.28, 2009  
Resubmitted Sample Date : May.16, 2009  
Further Information Date : May.21, 2009  
Sample Tested Date : Apr.28, 2009 to May.23, 2009

**TEST REQUEST**

- 1)ASTM F963-08 Standard Consumer Safety Specification for Toy Safety
- 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

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

Inspected by: Maggie  
Engineer

Approved by: Victor wang  
Victor wang  
Lab Manager

Approved date: 2009-05-23  


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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 **.....	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.....	Pass
4.7	Accessible Edges.....	Pass
4.9	Accessible Points.....	Pass
4.12	Packaging Film.....	Pass
4.34	Balls.....	N/A
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

\*\*Visual Examination

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>
Rubber Sports Balls	DNI	0.1

DNI = Did Not Ignite

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).

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Element	Result(mg/kg)		Limit (mg/kg)
	Red coating	Black coating	
Total Lead	< 5	59	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).

Elements	Result (mg/kg)		Limit (mg/kg)
	(1)	(2)	
Soluble Antimony (Sb)	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	25
Soluble Barium (Ba)	22	23	1000
Soluble Cadmium (Cd)	<5	<5	75
Soluble Chromium (Cr)	<2.5	<2.5	60
Soluble Lead (Pb)	<5	<5	90
Soluble Mercury (Hg)	<2.5	<2.5	60
Soluble Selenium (Se)	<5	<5	500

Tested Components:

- (1) Black coating (sample weight=16.4mg)      (2) Red coating(sample weight=30.2mg)

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
- Where the test portion has a mass of between 10mg and 100mg, the quantity of the appropriate elements shall be calculated as if 100mg of the test portion had been used.

Note:

- Only applicable clauses were shown.

## **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).

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Element	Result (ppm)		Limit <sup>#1</sup> (ppm)
	Red coating	Black coating	
Total Lead	<5	59	600

Remark:

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

## ▼ 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).

Element	Result (ppm)		Limit <sup>#2</sup> (ppm)
	Grey foam	Orange foam	
Total Lead	<5	<5	600

Remark:

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

## ▼ 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			
Tested Item	Result (%)		Limit# (%)
	(1)/(2)	(3)/(4)	
Di-2-ethylhexyl Phthalate (DEHP)	<0.003	<0.003	0.1
Dibutyl Phthalate (DBP)	<0.003	<0.003	0.1
Benzylbutyl Phthalate (BBP)	<0.003	<0.003	0.1

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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)	(%)
Diisononyl Phthalate (DINP)	<0.005	<0.005	0.1
Di-n-octyl Phthalate (DNOP)	<0.003	<0.003	0.1
Diisodecyl Phthalate (DIDP)	<0.005	<0.005	0.1

**Tested Components:**

- (1) Red coating
- (2) Black coating
- (3) Grey foam
- (4) Orange foam

**Remark:**

- < = Less than
- % = Percentage based on dry weight of sample
- # = The limit for the test result is 1/n of the value column (where “ n” is the number of mixed samples)

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## Photo of the sample



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

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