

# Test Report

Report No.: TLSZD00020920

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**Applicant :** CSP INC

**Address :** 8248 W. ORANGE DR GLENDALE, AZ 85303 USA

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

Sample Name : LIGHT UP SPIKY FRIEND  
Item/Lot No. : K03-113  
Buyer : Kids' Korner  
Country of Origin : CHINA  
Exported to : USA  
Client Specified Age Grading : 3+  
Labelled Age Grading : Not stated  
Age Group Applied in Testing : Over 3 years  
Sample Received Date : Apr.14,2011  
Sample Resubmission Date : May.13,2011  
Sample Tested Date : Apr.14,2011 to May.16,2011


**TEST REQUEST**

**CONCLUSION**

- |  |      |
|--|------|
| 1) ASTM F963-08 Standard Consumer Safety Specification for Toy Safety              | PASS |
| 2) US Consumer Product Safety Improvement Act 2008 (CPSIA)                         |      |
| - Lead in surface-coatings and similar materials of children's product             | PASS |
| - Lead in substrate materials of children's product                                | PASS |
| - Phthalates in children's toys and child care articles                            | PASS |
| 3) European Regulation(EC) No. 1907/2006, REACH & amendment No.552/2009 Annex XVII |      |
| - (Item 23)Cadmium and its compounds(Formerly Known as 91/338/EEC)                 | PASS |

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

Inspected by:   
Engineer

Approved by:   
Victor wang  
Lab Manager



Approved date: 2011-05-18



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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 <sup>#01</sup> (See Note 2)
4.6	Small Objects.....	N/A
4.7	Accessible Edges.....	Pass
4.9	Accessible Points.....	Pass
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>
LIGHT UP SPIKY FRIEND	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 :

## TOXIC ELEMENTS CONTENT

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).

Element	Result(mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Total Lead	< 5	< 5	< 5	90

Tested Components:

- (1) White paint(eyes)
- (2) Black paint(eyes)
- (3) Red paint(mouth)

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)
	White coating(eyes)(Sample weight:14.6mg)	
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
- 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.
- #01 : CTI conducted toxic elements test on the components which were identified by the client, and the testing results can meet ASTM F963-08 requirement.

Note:

- Only applicable clauses were shown.

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

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

As Specified in Consumer Product Safety Improvement Act 2008 (CPSIA) and Title 16 Part 1303 Code of Federal Regulations, Chapter II – Consumer Product Safety Commission of U.S.A, Method CPSC-CH-E1003-09 was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Element	Result (ppm)			Limit (ppm)
	(1)	(2)	(3)	
Total Lead (Pb)	<5	<5	<5	90

Tested Components:

- (1) White paint(eyes)
- (2) Black paint(eyes)
- (3) Red paint(mouth)

Remark:

- <= Less than
- ppm= parts per million based on dry weight of sample

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

As Specified in Consumer Product Safety Improvement Act 2008 (CPSIA), Methods CPSC-CH-E1001-08.1 and CPSC-CH-E1002-08.1 were Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Element	Result (ppm)			Limit (ppm)
	(1)	(2)	(3)	
Total Lead (Pb)	<5	<5	<5	300

Tested Components:

- (1) Kelly soft plastic
- (2) Green soft plastic
- (3) Blue soft plastic

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Remark:

- <= Less than
- ppm= parts per million based on dry weight of sample

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

As Specified in Consumer Product Safety Improvement Act 2008 (CPSIA), Method CPSC-CH-C1001-09.3 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)/(5)/(6)	
Di-2-ethylhexyl Phthalate (DEHP)	0.015	<0.003	0.1
Dibutyl Phthalate (DBP)	<0.003	<0.003	0.1
Benzylbutyl Phthalate (BBP)	<0.003	<0.003	0.1

Material(s) in toys that can be placed in mouth and childcare articles			
Tested Item	Result (%)		Limit# (%)
	(1)/(2)/(3)	(4)/(5)/(6)	
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) White paint(eyes)
- (2) Black paint(eyes)
- (3) Red paint(mouth)
- (4) Kelly soft plastic
- (5) Green soft plastic
- (6) Blue soft plastic



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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)

**3) EUROPEAN REGULATION(EC) NO. 1907/2006, REACH & AMENDMENT NO.552/2009**

**ANNEX XVII**

**▼ CADMIUM AND ITS COMPOUNDS**

As Specified in European Regulation(EC) No. 1907/2006, REACH & amendment No.552/2009 Annex XVII, with Reference to EN1122:2001 Method B or other Appropriate Methods, and Total Cadmium Content was Performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result (%)</u>						<u>Limit (%)</u>
	(1)	(2)	(3)	(4)	(5)	(6)	
Cadmium (Cd)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.01

Tested Components:

- (1) White paint(eyes)
- (2) Black paint(eyes)
- (3) Red paint(mouth)
- (4) Kelly soft plastic
- (5) Green soft plastic
- (6) Blue soft plastic

Remark:

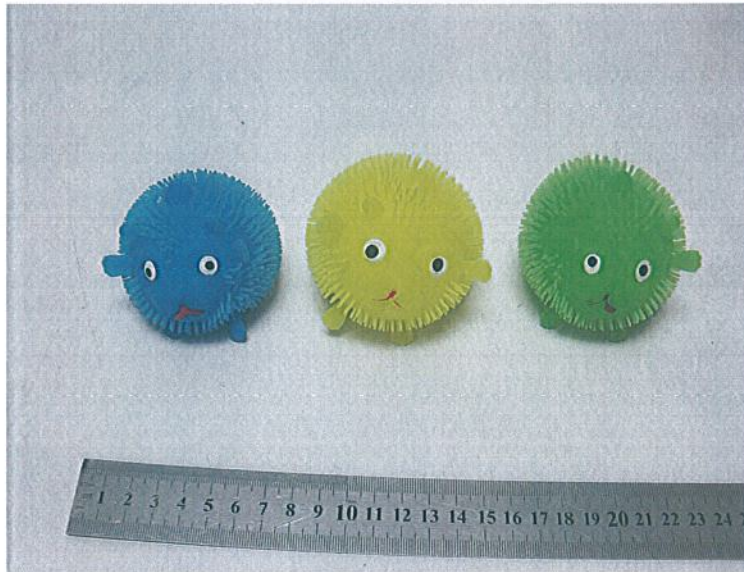
- <= Less than
- %= Percentage based on dry weight of testing sample

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### Photo of the sample



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

This report is considered invalidated without the Special Seal for Inspection of the CTI, This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of CTI, this test report shall not be copied except in full and published as advertisement.