

**Test Report**

No.: SZTYR090407148/TS

Date: JUN 01, 2009

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The following samples were submitted and identified by/on behalf of the client as:

Name of Product/Item : FISH & SAY S / FISH & SAY L / FAS444 S, R, L BLENDS PHOTO FISH & SAY / FAS555 BLENDS PHOTO FISH & SAY / FISH & SAY SH / FISH & SAY OPPOSITES / FISH & SAY P B M / FISH & SAY T D N

Details of Sample Received : 8 STYLES ASSORTED PLAYSET INCLUDING: 4 STYLES WITH 60 FOAM MAGNETIC FISHES, 2 FISHING RODS, 1 FLEXIBLE PLASTIC SHEETING, 3 SHEETS OF STICKERS, AND AN INSTRUCTION SHEET, THE OTHER 4 STYLES WITH 60 FOAM MAGNETIC FISHES, 3 SHEETS OF STICKERS AND AN INSTRUCTION SHEET. POLYBAG WITH ZIP OR PLASTIC BOX WITH HANDLE PACKED.

Sample Quantity : 43 PCS  
 Docno : DSP003643  
 Style / Item No. : FAS100 / FAS333 / FAS444 / FAS555 / FASF55 / FASF88 / FASF67 / FASF68  
 Buyer :  
 Country of Destination : USA  
 Labeled Age Grading : AGES 3 - 12  
 Requested Age Grading : 3+  
 Age Group Applied in Testing : OVER 3 YEARS  
 Sample Receiving Date : APR 08, 2009  
 Resubmitted Sample Date : MAY 27, 2009  
 Testing Period : APR 08, 2009 TO MAY 31, 2009

**Test Requested**

- 1) For compliance with the test requirement of ASTM F963-07<sup>cl</sup> Standard Consumer Safety Specification on Toy Safety (Except Clause 7.1).
- 2) For compliance with Public Law 110-314 (Consumer Product Safety Improvement Act of 2008, CPSIA):  
 CPSIA section 101(f) - Lead in paint/similar surface coating materials  
 CPSIA section 101(a)(2) - Lead in accessible substrate materials  
 CPSIA section 108 - Phthalates
- 3) Determination of specified phthalates contents in the submitted composite samples in accordance with Directive 2005/84/EC

**Result**

Pass

Pass

Pass

Pass

Pass

Signed for and on behalf of  
 SGS-CSTC Ltd.



Zhang Wei, Merry  
 Section Manager

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1) ASTM F963 - 07<sup>cl</sup>

AS SPECIFIED IN ASTM F963-07<sup>cl</sup> STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY.

Clause	Description	Result
4.	<u>Safety Requirements</u>	
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)
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.12	Packaging Film	Pass
4.18	Holes, Clearance & Accessibility of Mechanisms	Pass
4.39	Magnets	Pass
5.	<u>Safety Labeling Requirements</u>	
5.2	Age Grading Labeling	Pass
7.	<u>Producer's Markings</u>	
7.1	Producer's Markings	See Remark
8.	<u>Test Method</u>	
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	Pass

Remark : It is drawn to your attention that either a principal component of a toy or the package of a toy shall be marked with the name and address of the producer or the distributor.

### \*\*Visual Examination

#### Note 1:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample	Burning Rate (inch/sec)	Limit (inch/sec)
FISH & SAY S / FISH & SAY L / FAS444 S, R, L BLENDS PHOTO FISH & SAY / FAS555 BLENDS PHOTO FISH & SAY / FISH & SAY SH / FISH & SAY OPPOSITES / FISH & SAY P B M / FISH & SAY T D N	DNI	0.1

- DNI = Did Not Ignite

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**Note 2 :**

Paint & Similar Surface-coating Material (Clause 4.3.5)

ASTM F963-07<sup>e1</sup> - Heavy Metals Analysis : Total Lead (Clause 4.3.5.1)

TOTAL LEAD CONTENT - SAMPLES WERE DIGESTED IN NITRIC ACID (1+1) AND CONCENTRATED HYDROCHLORIC ACID BY MICROWAVE DIGESTION SYSTEM.

ANALYSIS WAS PERFORMED BY ATOMIC ABSORPTION SPECTROMETER.

Specimen Description	Total Pb Result (mg/kg)	Limit (mg/kg)
1. Multi-color coating on paper label	< 20	600
2. Multi-color coating (Box)	< 20	600
3. Multi-color coating on plastic sheet	< 20	600
4. Multi-color coating on soft plastics (Bag)	< 20	600
5. White coating on metal (Zipper)	< 20	600

- < = Less than
- Results shown are of the total weight of dry sample.

ASTM F963-07<sup>e1</sup> - Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)

SOLUBLE HEAVY METALS CONTENTS - SAMPLES WERE EXTRACTED BY DILUTE HYDROCHLORIC ACID IN ACCORDANCE WITH ASTM F963-07<sup>e1</sup> (CLAUSE 8.3).

ANALYSIS WAS PERFORMED BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROMETER.

Element	Pb	Sb	As	Ba	Cd	Cr	Hg	Se	Mass of trace amount (mg)
<b>Soluble Limit (mg/kg)</b>	90	60	25	1000	75	60	60	500	
Specimen Description	Adjusted Soluble Result (mg/kg)								Mass of trace amount (mg)
1. Multi-color coating on paper label	<5	<5	<5	<10	<5	<5	<6.7	<10	/
2. Multi-color coating (Box)	<5	<5	<5	15	<5	<5	<6.7	<10	/
3. Multi-color coating on plastic sheet	<5	<5	<5	79	<5	<5	<6.7	<10	/
4. Multi-color coating on soft plastics (Bag)	<5	<5	<5	30	<5	<5	<6.7	<10	/
5. White coating on metal (Zipper)	<5	<5	<5	<10	<5	<5	<6.7	<10	10.6

- < = Less than
- Results of soluble elements shown are of the adjusted analytical results.

N.B. : - Only applicable clauses were shown.

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2) For compliance with Public Law 110-314 (Consumer Product Safety Improvement Act of 2008, CPSIA):

**Lead in paint/similar surface coating material**

Method: With reference to ASTM E1645-01 and ASTM E1613-04 / CPSC-CH-E1003-09.

Test item	1	2	3	4	5	Permissible Limit*
Lead (Pb)	ND	ND	ND	ND	ND	0.009 %
Comment	PASS	PASS	PASS	PASS	PASS	---

\* Comment is based on the 0.009 % limit requirement, effective 14 August, 2009. The current permissible limit is no more than 0.06 %

**Sample Description:**

1. Multi-color coating on paper label
2. Multi-color coating (Box)
3. Multi-color coating on plastic sheet
4. Multi-color coating on soft plastics (Bag)
5. White coating on metal (Zipper)

Note: - % = percentage by weight  
 - 1% = 10000ppm (mg/kg)  
 - ND = not detected  
 - Method Detection Limit = 0.002 %

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### Lead in accessible substrate materials

Method (non-metallic materials): CPSC Test Method: CPSC-CH-E1002-08 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'.

Method (metal materials): CPSC Test Method: CPSC-CH-E1001-08 'Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)'.

Test item	1	2	3	4	5	6	7	8	9	Permissible Limit <sup>**</sup>
Lead (Pb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03 %
Comment	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	---

Test item	10	11	12	13	14	15	16	17	18	Permissible Limit <sup>**</sup>
Lead (Pb)	ND	ND	0.004%	ND	ND	ND	0.003%	0.005%	0.004%	0.03 %
Comment	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	---

\*\* Comment is based on the 0.03 % limit requirement, effective 14 August, 2009. The requirements for lead in substrate in children's products is summarized below

Scope	Requirement	Effective date
Lead in accessible substrate	≤ 0.06 %	10 February 2009
	≤ 0.03 %	14 August 2009
	≤ 0.01%	14 August 2011

### Sample Description:

- |                                     |                                      |
|-------------------------------------|--------------------------------------|
| 1. Transparent plastics (Box)       | 10. Blue foam                        |
| 2. Blue plastics (Handle)           | 11. Green foam                       |
| 3. White paper label                | 12. Coffee adhesive magnet rubber    |
| 4. White plastic sheet              | 13. Transparent soft plastics (Bag)  |
| 5. Red plastics (Fishing rod)       | 14. White woven (Zipper tape)        |
| 6. White cord                       | 15. White plastics (Zipper teeth)    |
| 7. Black foam                       | 16. Silver color metal zipper head   |
| 8. Grey-black plastics (Above foam) | 17. Silver color metal zipper puller |
| 9. Red foam                         | 18. Silver color metal zipper end    |

Note : - % = percentage by weight  
 - 1% = 10000ppm (mg/kg)  
 - ND = not detected  
 - Method Detection Limit = 0.002 %

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### Phthalates

Method: With reference to ASTM D3421-75. Analysis was performed by Gas Chromatography / Mass Spectrometry.

### Toys and childcare articles

Test item	A1	A2	A3	A4	Permissible Limit
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	0.1%
Benzylbutyl Phthalate (BBP)	ND	ND	ND	ND	0.1%
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND	ND	ND	ND	0.1%
Comment	PASS	PASS	PASS	PASS	---

### Toys that can be placed in the mouth and childcare articles

Test item	A1	A2	A3	A4	Permissible Limit
Diisononyl Phthalate (DINP)	ND	ND	ND	0.020%	0.1%
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	0.1%
Diisodecyl Phthalate (DIDP)	ND	ND	ND	ND	0.1%
Comment	PASS	PASS	PASS	PASS	---

### Sample Description :

- A1. Transparent plastics (Box) + Blue plastics (Handle)
- A2. Black foam + Red foam + Blue foam
- A3. Green foam + White plastic sheet + Red plastics (Fishing rod)
- A4. Grey-black plastics (Above foam) + Coffee adhesive magnet rubber

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### Toys and childcare articles

Test item	A5	A6	A7	A8	Permissible Limit
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	0.1%
Benzylbutyl Phthalate (BBP)	ND	ND	ND	ND	0.1%
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND	ND	ND	0.008%	0.1%
<b>Comment</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	---

### Toys that can be placed in the mouth and childcare articles

Test item	A5	A6	A7	A8	Permissible Limit
Diisononyl Phthalate (DINP)	ND	ND	ND	ND	0.1%
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	0.1%
Diisodecyl Phthalate (DIDP)	ND	ND	ND	ND	0.1%
<b>Comment</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	---

Test item	B1	Permissible Limit
Diisononyl Phthalate (DINP)	ND	0.1%
Di-n-octyl Phthalate (DNOP)	ND	0.1%
Diisodecyl Phthalate (DIDP)	ND	0.1%
<b>Comment</b>	<b>PASS</b>	---

### Sample Description :

- A5. Transparent soft plastics (Bag) + White plastics (Zipper teeth)
- A6. Multi-color coating (Box)
- A7. Multi-color coating on plastic sheet w/ white coating on metal (Zipper)
- A8. Multi-color printed paper label
- B1. Transparent plastics (Inside cord)

- Note** :
- % = percentage by weight
  - 1% = 10000ppm (mg/kg)
  - ND = not detected
  - Method Detection Limit for each of DBP, BBP, DEHP and DNOP = 0.003%
  - Method Detection Limit for each of DINP and DIDP = 0.01%

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### 3) Directive 2005/84/EC

The specimen is extracted by solvent and followed analysis by Gas Chromatography / Mass Spectrometry

Test items		A1	A2	A3	A4	Detection Limit
Dibutyl phthalate	(DBP)	N.D.	N.D.	N.D.	N.D.	0.003%
Benzyl butyl phthalate	(BBP)	N.D.	N.D.	N.D.	N.D.	0.003%
Bis-(2-ethylhexyl) phthalate	(DEHP)	N.D.	N.D.	N.D.	N.D.	0.003%
Di-"isononyl" phthalate	(DINP)	N.D.	N.D.	N.D.	0.020%	0.010%
Di-n-octyl phthalate	(DNOP)	N.D.	N.D.	N.D.	N.D.	0.003%
Di-"isodecyl" phthalate	(DIDP)	N.D.	N.D.	N.D.	N.D.	0.010%
Total (DBP+BBP+DEHP)		N.D.	N.D.	N.D.	N.D.	—
Total (DINP+DNOP+DIDP)		N.D.	N.D.	N.D.	Minimum 0.020%	—

Test items		A5	A6	A7	A8	Detection Limit
Dibutyl phthalate	(DBP)	N.D.	N.D.	N.D.	N.D.	0.003%
Benzyl butyl phthalate	(BBP)	N.D.	N.D.	N.D.	N.D.	0.003%
Bis-(2-ethylhexyl) phthalate	(DEHP)	N.D.	N.D.	N.D.	0.006%	0.003%
Di-"isononyl" phthalate	(DINP)	N.D.	N.D.	N.D.	N.D.	0.010%
Di-n-octyl phthalate	(DNOP)	N.D.	N.D.	N.D.	N.D.	0.003%
Di-"isodecyl" phthalate	(DIDP)	N.D.	N.D.	N.D.	N.D.	0.010%
Total (DBP+BBP+DEHP)		N.D.	N.D.	N.D.	Minimum 0.006%	—
Total (DINP+DNOP+DIDP)		N.D.	N.D.	N.D.	N.D.	—

#### Specimen Description:

- A1. Transparent plastics (Box) + Blue plastics (Handle)
- A2. Black foam + Red foam + Blue foam
- A3. Green foam + White plastic sheet + Red plastics (Fishing rod)
- A4. Grey-black plastics (Above foam) + Coffee adhesive magnet rubber
- A5. Transparent soft plastics (Bag) + White plastics (Zipper teeth)
- A6. Multi-color coating (Box)
- A7. Multi-color coating on plastic sheet w/ white coating on metal (Zipper)
- A8. Multi-color printed paper label

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SZTY 1873155



## Test Report

No.: SZTYR090407148/TS

Date: JUN 01, 2009

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Test items		B1	Detection Limit
Dibutyl phthalate	(DBP)	N.D.	0.003%
Benzyl butyl phthalate	(BBP)	N.D.	0.003%
Bis-(2-ethylhexyl) phthalate	(DEHP)	N.D.	0.003%
Total (DBP+BBP+ DEHP)		N.D.	--

**Specimen Description:**

B1. Transparent plastics (Inside cord)

- Note :
- N.D. = Not Detected (lower than Detection Limit)
  - % = percentage by weight
  - The results shown as N.D. (Not Detected) are ignored in the sum calculation.

**Remark: Summary of upper limits of requirements:**

Requirements	Upper Limit
<b>Directive 2005/84/EC</b>	
- For all toys and childcare articles	- Total (DBP +BBP+ DEHP) < 0. 1%
- For toys and childcare articles that can be placed in the mouth	- Total (DINP+DNOP+DIDP) < 0. 1%

**Sample Photo:**



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\*\*\* End of Report \*\*\*

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