



Test Report

No.: SZTYR090304987/TS

Date: APR 16, 2009

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SUPER DUPER PUBLICATIONS

5201 PELHAM ROAD, GREENSVILLE, SC 29615, USA

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

Name of Product/Item : FUNCTIONAL COMMUNICATION GAME

Details of Sample Received : PLAYSET CONTAINS: 1 GAMBLE MACHINE WITH SOUND AND LIGHT FUNCTION, OPERATED BY 2 BUTTON CELLS (INCLUDED), 6 PLASTIC CHESSMEN, 1 PLASTIC BOARD, 1 BOOK, SOME FOAM PIECES AND SOME PAPER CARD. PRINTED BOX SHRINK FILM PACKED.

Sample Quantity : 4 PCS
Style / Item No. : GB146
Docno : DSP003584
Buyer : S090-SUPER DUPER
Country of Destination : USA
Labeled Age Grading : NOT STATED
Requested Age Grading : OVER 4 YEARS
Age Group Applied in Testing : OVER 4 YEARS
Sample Receiving Date : MAR 16, 2009
Testing Period : MAR 16, 2009 TO APR 16, 2009

Test Requested

- 1) For compliance with the test requirement of ASTM F963-07^{e1} Standard Consumer Safety Specification on Toy Safety (Except test of Battery-operated toys).
- 2) For compliance with lead in paint/similar surface coating material (US 16 CFR 1303), lead in accessible substrate materials and phthalates content in US Public Law 110-314 (Consumer Product Safety Improvement Act of 2008).
Lead in paint/similar surface coating material
Lead in accessible substrate materials
Phthalates
- 3) Determination of specified phthalates contents in the submitted composite samples in accordance with Directive 2005/84/EC.

Result

Pass

Pass

Pass

Pass (See Note)

Pass (See Note)

NOTE:

Test was conducted on composite sample as per client's request and the result is the overall result of a composite sample. It is no reference can be made to the result of each component. To evaluate the result, it is recommended to consider as:

- 1/2 of upper limit for sample of 2 composite test;
- 1/3 of upper limit for sample of 3 composite test

Therefore, that the composite samples A1 may have the probability of one or more components that can lead to a failure result, test on individual basis is highly recommended.

Signed for and on behalf of
SGS-CSTC Ltd.

Zhang Wei, Mary
Section Manager

Zhou Yongwei, Leo
Supervisor

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1) ASTM F963 - 07^{e1}

AS SPECIFIED IN ASTM F963-07^{e1} 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)
4.5	Sound-producing Toys.....	Pass
4.7	Accessible Edges.....	Pass
4.9	Accessible Points.....	Pass
4.11	Nails & Fasteners.....	Pass
4.12	Packaging Film.....	Pass
7.	<u>Producer's Markings</u>	
7.1	Producer's Markings.....	Pass
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

**Visual Examination

Note 1:

Flammability Test (Clause 4.2)Flammability Test on Solid

Sample	Burning Rate (inch/sec)	Limit (inch/sec)
FUNCTIONAL COMMUNICATION GAME	0.04	0.1

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Note 2:

Paint & Similar Surface-coating Material (Clause 4.3.5)

ASTM F963-07^{e1} - 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 paperboard (Card)	25	600
2. Multi-color coating on paper label	34	600
3. Grass-green coating on paperboard (Card)	21	600
4. Red coating on paperboard (Card)	< 20	600
5. Blue-green coating on paperboard (Card)	< 20	600
6. Lt. purple coating on paperboard (Card)	< 20	600
7. Blue coating on paperboard (Card)	21	600
8. Dk. blue coating on paperboard (Card)	< 20	600
9. Yellow coating on paperboard (Card)	23	600
10. Purple coating on paperboard (Card)	< 20	600
11. Purple-red coating on paperboard (Card)	< 20	600
12. Dk. pink coating on paperboard (Card)	< 20	600
13. Green coating on paperboard (Card)	< 20	600
14. Green flocking	< 20	600

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

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ASTM F963-07^{e1} - 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^{e1} (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)
Soluble Limit (mg/kg)	90	60	25	1000	75	60	60	500	
Specimen Description	Adjusted Soluble Result (mg/kg)								
1. Multi-color coating on paperboard (Card)	<5	<5	<5	<10	<5	<5	<6.7	<10	/
2. Multi-color coating on paper label	<5	<5	<5	<10	<5	<5	<6.7	<10	/
3. Grass-green coating on paperboard (Card)	<5	<5	<5	<10	<5	<5	<6.7	<10	/
4. Red coating on paperboard (Card)	<5	<5	<5	<10	<5	<5	<6.7	<10	/
5. Blue-green coating on paperboard (Card)	<5	<5	<5	<10	<5	<5	<6.7	<10	/
6. Lt. purple coating on paperboard (Card)	<5	<5	<5	<10	<5	<5	<6.7	<10	/
7. Blue coating on paperboard (Card)	<5	<5	<5	<10	<5	<5	<6.7	<10	/
8. Dk. blue coating on paperboard (Card)	<5	<5	<5	<10	<5	<5	<6.7	<10	/
9. Yellow coating on paperboard (Card)	<5	<5	<5	<10	<5	<5	<6.7	<10	/
10. Purple coating on paperboard (Card)	<5	<5	<5	<10	<5	<5	<6.7	<10	/
11. Purple-red coating on paperboard (Card)	<5	<5	<5	<10	<5	<5	<6.7	<10	/
12. Dk. pink coating on paperboard (Card)	<5	<5	<5	<10	<5	<5	<6.7	<10	/
13. Green coating on paperboard (Card)	<5	<5	<5	<10	<5	<5	<6.7	<10	/
14. Green flocking	<5	<5	<5	<10	<5	<5	<6.7	<10	20.8

- < = 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) US Public Law 110-314 (Consumer Product Safety Improvement Act of 2008)

Lead in paint/similar surface coating material

Method: With reference to ASTM E1645-01 (2007) and E1613-04.

Test item	1	2	3	4	5	6	7	Permissible Limit [#]
Lead (Pb)	0.002%	0.003%	0.002%	ND	ND	ND	0.002%	0.009%
Comment	PASS	PASS	PASS	PASS	PASS	PASS	PASS	---

Test item	8	9	10	11	12	13	14	Permissible Limit [#]
Lead (Pb)	ND	0.002%	ND	ND	ND	ND	ND	0.009%
Comment	PASS	PASS	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 paperboard (Card)
2. Multi-color coating on paper label
3. Grass-green coating on paperboard (Card)
4. Red coating on paperboard (Card)
5. Blue-green coating on paperboard (Card)
6. Lt. purple coating on paperboard (Card)
7. Blue coating on paperboard (Card)
8. Dk. blue coating on paperboard (Card)
9. Yellow coating on paperboard (Card)
10. Purple coating on paperboard (Card)
11. Purple-red coating on paperboard (Card)
12. Dk. pink coating on paperboard (Card)
13. Green coating on paperboard (Card)
14. Green flocking

Note : - % = percentage by weight
- ND = not detected
- Method Detection Limit = 0.002%

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Lead in accessible substrate materials

Method: Acid digestion followed by Atomic Absorption Spectrometry.

Test item	1	2	3	4	5	6	7	8	Permissible Limit ^{##}
Lead (Pb)	ND	ND	ND	0.016%	ND	ND	ND	ND	0.03 %
Comment	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	---

Test item	9	10	11	12	13	14	15	16	Permissible Limit ^{##}
Lead (Pb)	ND	0.003%	ND	ND	ND	ND	ND	0.006%	0.03 %
Comment	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 substrate other than paint / similar surface coating material	≤ 0.06 %	10 February 2009
	≤ 0.03 %	14 August 2009
	≤ 0.01%	14 August 2011

Sample Description :

1. White paper label
2. Black paper
3. Grey paperboard
4. White paperboard
5. Transparent red plastics (LED)
6. White plastics (Box)
7. Black plastics (Switch)
8. Yellow foam (Square)
9. Purple foam (Square)
10. Blue plastics (Stamper)
11. Yellow plastics (Stamper)
12. Red plastics (Stamper)
13. Green plastics (Stamper)
14. Purple plastics (Stamper)
15. Orange plastics (Stamper)
16. Silver color metal screw

Note : - % = percentage by weight
- 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	A5	Permissible Limit
Dibutyl Phthalate (DBP)	0.004%	ND	ND	ND	ND	0.1%
Benzylbutyl Phthalate (BBP)	ND	ND	ND	ND	ND	0.1%
Bis-(2-ethylhexyl) Phthalate (DEHP)	0.092%	ND	0.003%	0.004%	0.004%	0.1%
Comment	PASS	PASS	PASS	PASS	PASS	---

Toys that can be placed in the mouth and childcare articles

Test item	A1	A2	A3	A4	A5	Permissible Limit
Diisononyl Phthalate (DINP)	ND	ND	ND	ND	ND	0.1%
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	ND	0.1%
Diisodecyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.1%
Comment	PASS	PASS	PASS	PASS	PASS	---

Sample Description :

- A1. Multi-color coating on paperboard (Card) + Multi-color coating on paper label
- A2. Green plastics (Stamper) + Purple plastics (Stamper) + Orange plastics (Stamper)
- A3. Grass-green coating on paperboard (Card) + Red coating on paperboard (Card) + Blue-green coating on paperboard (Card)
- A4. Lt. purple coating on paperboard (Card) + Blue coating on paperboard (Card) + Dk. blue coating on paperboard (Card)
- A5. Yellow coating on paperboard (Card) + Purple coating on paperboard (Card) + Purple-red coating on paperboard (Card)

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Toys and childcare articles

Test item	A6	A7	A8	A9	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)	0.003%	ND	ND	ND	0.1%
Comment	PASS	PASS	PASS	PASS	---

Test item	B1	B2	Permissible Limit
Dibutyl Phthalate (DBP)	ND	ND	0.1%
Benzylbutyl Phthalate (BBP)	ND	ND	0.1%
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND	ND	0.1%
Comment	PASS	PASS	---

Toys that can be placed in the mouth and childcare articles

Test item	A6	A7	A8	A9	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%
Comment	PASS	PASS	PASS	PASS	---

Sample Description :

- A6. Dk. pink coating on paperboard (Card) + Green coating on paperboard (Card)
- A7. White (Box) w/ transparent red (LED), black (Switch) plastics
- A8. Yellow foam (Square) + Purple foam (Square)
- A9. Blue plastics (Stamper) + Yellow plastics (Stamper) + Red plastics (Stamper)
- B1. Transparent dry glue, red & black plastics (Wire jacket) , black plastics (Button, base)
- B2. Black plastics (Stamper)

Note : - % = percentage by weight

- 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	A5	Detection Limit
Dibutyl phthalate	(DBP)	0.004%	N.D.	N.D.	N.D.	N.D.	0.003%
Benzyl butyl phthalate	(BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	0.003%
Bis-(2-ethylhexyl) phthalate	(DEHP)	0.092%	N.D.	0.003%	0.004%	0.004%	0.003%
Di-"isononyl" phthalate	(DINP)	N.D.	N.D.	N.D.	N.D.	N.D.	0.010%
Di-n-octyl phthalate	(DNOP)	N.D.	N.D.	N.D.	N.D.	N.D.	0.003%
Di-"isodecyl" phthalate	(DIDP)	N.D.	N.D.	N.D.	N.D.	N.D.	0.010%
Total (DBP+BBP+DEHP)		Minimum 0.096%	N.D.	Minimum 0.003%	Minimum 0.004%	Minimum 0.004%	--
Total (DINP+DNOP+DIDP)		N.D.	N.D.	N.D.	N.D.	N.D.	--

Test items		A6	A7	A8	A9	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)	0.003%	N.D.	N.D.	N.D.	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)		Minimum 0.003%	N.D.	N.D.	N.D.	--
Total (DINP+DNOP+DIDP)		N.D.	N.D.	N.D.	N.D.	--

Specimen Description:

- A1. Multi-color coating on paperboard (Card) + Multi-color coating on paper label
- A2. Green plastics (Stamper) + Purple plastics (Stamper) + Orange plastics (Stamper)
- A3. Grass-green coating on paperboard (Card) + Red coating on paperboard (Card) + Blue-green coating on paperboard (Card)
- A4. Lt. purple coating on paperboard (Card) + Blue coating on paperboard (Card) + Dk. blue coating on paperboard (Card)
- A5. Yellow coating on paperboard (Card) + Purple coating on paperboard (Card) + Purple-red coating on paperboard (Card)
- A6. Dk. pink coating on paperboard (Card) + Green coating on paperboard (Card)
- A7. White (Box) w/ transparent red (LED), black (Switch) plastics
- A8. Yellow foam (Square) + Purple foam (Square)
- A9. Blue plastics (Stamper) + Yellow plastics (Stamper) + Red plastics (Stamper)

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Test items		B1	B2	Detection Limit
Dibutyl phthalate	(DBP)	N.D.	N.D.	0.003%
Benzyl butyl phthalate	(BBP)	N.D.	N.D.	0.003%
Bis-(2-ethylhexyl) phthalate	(DEHP)	N.D.	N.D.	0.003%
Total (DBP+BBP+ DEHP)		N.D.	N.D.	—

Specimen Description:

B1. Transparent dry glue, red & black plastics (Wire jacket) , black plastics (Button, base)

B2. Black plastics (Stamper)

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
Directive 2005/84/EC	
- 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%

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Sample Photo:



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