

Report No.: CTT10091926EN

Date: Sep. 30, 2010

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Client: John N Hansen

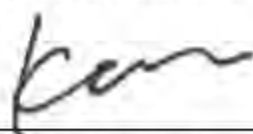
The following merchandise was (were) submitted and identified by client as:

**Sample Name:** LED MESSAGE BOARD  
**Sample Model:** 7021, 7022, 7050, 7051 (2110)  
**BUYER:** TWEEN BRANDS SERVICE CO.  
**FACTORY ID#:** 2430 Playmaker Toys  
**Justice PO#:** 69515, 69516, 72926  
**Justice Style#:** 907021- Black Star LED Message Board  
907022- Pink Peace LED Message Board  
907050- Blue Monkey LED Message Board  
907051- White Graffiti LED Message Board  
**Sample Received Date:** Sep. 24, 2010  
**Completed Date:** Sep. 30, 2010

Test Method(s) and Test Result(s): Please refer to next page(s).

Conclusions: Please refer to next page(s).

Signed for and on Behalf of CTT



Guanglei Kan / Technical Director  
Consumer Testing Technology Co., Ltd.

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**Test Method(s) and Equipment(s):**

Test Item	Test Method(s)	Equipment(s)
Total Lead	CPSC 16 CFR 1303	ICP-OES/ AAS
Soluble Heavy Metals	ASTM F963-08	ICP-OES
Total Lead (Pb) - Paint	CPSC-CH-E1003-09	ICP-OES
Total Lead (Pb) - Substrate	CPSC-CH-E1001-08.1 CPSC-CH-E1002-08.1	ICP-OES/ AAS
Phthalates	CPSC-CH-C1001-09.3	GC-MS

**Conclusion:**

1. The submitted sample(s) **MEETS** Physical and Mechanical Tests / Flammability Test of ASTM F963-08, "Standard consumer safety specification on toy safety".
2. The surface coating of the sample(s) **MEETS** Total Lead content requirement of ASTM F963-08, namely requirement of CPSC 16 CFR 1303.
3. The surface coating of the sample(s) **MEETS** Soluble Heavy Metals content requirements of ASTM F963-08E1, "Standard consumer safety specification on toy safety," Section 4.3.5.2.
4. The result of test on material/part assigned by applicant of the submitted sample **MEETS** requirements on Lead paint as stipulated in US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)].
5. The result of test on material/part assigned by applicant of the submitted sample **MEETS** requirements on Lead content of accessible substrate materials as stipulated in US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)].
6. The result of test on material/part assigned by applicant of the submitted sample **MEETS** requirements on Phthalates as stipulated in US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)].

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**\*Test Result(s):**

**Mechanical and Physical Test - ASTM F963-08**

As per ASTM standard consumer safety specification for toy safety F963-08

Applicant's specified age group for testing : over 3 years

Section	Testing Items	Assessment
4.1	Material quality (visual check on cleanliness)	PASS
4.5	Sound producing toys	NA
4.6	Small objects	NA
4.6.1	Toys intended for children under 36 months of age	NA
4.6.2	Mouth actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months—Small part warning	NA
4.7	Accessible edges (under 8 years of age)	PASS
4.8	Projections (under 8 years of age)	NA
4.9	Accessible points (under 8 years of age)	PASS
4.10	Wires or rods	NA
4.11	Nails and fasteners	PASS
4.12	Packaging film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and overload requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles (aged 96 months or less)	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers (under 36 months of age)	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys (under age of 18 months)	NA
4.25	Battery operated toys	PASS
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag type toys	NA

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4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons—safety labeling	NA
4.32	Certain toys with spherical ends	NA
4.33	Marbles (3 years of age or older)	NA
4.34	Balls	NA
4.35	Pompoms (under 3 years of age)	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
5	LABELLING REQUIREMENTS	PASS
6	INSTRUCTIONAL LITERATURE	PASS
7	PRODUCER'S MARKING	PASS

- Note :**
1. NA = Not Applicable.
  2. ""=The test sample is received on Sep. 29, 2010.

**Test Result(s):**

**Flammability Test - ASTM F963-08**

As per section 4.2 of the ASTM standard consumer safety specification on toy safety F963-08.

Sample	Ignition point	Burn length (inch)	Time (sec)	Burn rate (inch/sec)	Limit (inch/sec)	Conclusion
led message board	edge	2.3	60	0.04	0.10	PASS

- Note :**
1. As the submitted samples are wholly(mainly) made of paper (unstuffed textile) material, the flammability test of material other than textile was not applicable to the submitted sample.
  2. All styles of The submitted toy samples (and its accessories) was/were tested, The above result only showed the most severe burn rate of the samples.

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**Test Result(s):**

**Total Lead Content - CPSC 16 CFR 1303**

Material No.	Description	Location	Result (ppm)	Maximum Limit (ppm)	Conclusion
1	Orange paint	Photo frame coating	N.D.	90	PASS
2	Green paint	Photo frame coating	N.D.	90	PASS
3	White paint	Photo frame coating	17	90	PASS
4	Blue paint	Photo frame coating	N.D.	90	PASS
5	Blue paint	Photo frame coating	N.D.	90	PASS
6	Light blue paint	Photo frame coating	N.D.	90	PASS
7	Light green paint	Photo frame coating	N.D.	90	PASS
8	Fuchsia paint	Photo frame coating	N.D.	90	PASS
9	Green paint	Photo frame coating	N.D.	90	PASS
10	Orange paint	Photo frame coating	N.D.	90	PASS
11	Yellow paint	Photo frame coating	N.D.	90	PASS
12	Fuchsia paint	Photo frame coating	N.D.	90	PASS
13	Blue paint	Photo frame coating	23	90	PASS
14	Black paint	Photo frame coating	16	90	PASS

**Note:** 1. ppm = part per million (mg/kg); 2. N.D. = Not Detected (< Report Limit );  
3. Report Limit = 10ppm.

**Soluble Heavy Metals Content - ASTM F963-08 E1**

Material No.	Description	Location
1	Orange paint	Photo frame coating
2	Green paint	Photo frame coating
3	White paint	Photo frame coating
4	Blue paint	Photo frame coating
5	Blue paint	Photo frame coating
6	Light blue paint	Photo frame coating
7	Light green paint	Photo frame coating
8	Fuchsia paint	Photo frame coating
9	Green paint	Photo frame coating

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Material No.	Description	Location
10	Orange paint	Photo frame coating
11	Yellow paint	Photo frame coating
12	Fuchsia paint	Photo frame coating
13	Blue paint	Photo frame coating
14	Black paint	Photo frame coating

Elements	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Maximum Limit (ppm)	25	1000	75	60	60	90	60	500	
RL (ppm)	2.5	5	5	5	5	5	5	5	
Material No.	Result (ppm)								
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
2	N.D.	44	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
3	N.D.	39	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
4	N.D.	32	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
5	N.D.	273	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
6	N.D.	60	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
7	N.D.	28	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
11	N.D.	61	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
12	N.D.	32	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
13	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. ppm = part per million (mg/kg);
  2. RL = Report Limit;
  3. N.D. = Not Detected (< RL).

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**Test Result(s): Total Lead (Pb)**

Material No.	Description	Location
1	Orange paint	Photo frame coating
2	Green paint	Photo frame coating
3	White paint	Photo frame coating
4	Blue paint	Photo frame coating
5	Blue paint	Photo frame coating
6	Light blue paint	Photo frame coating
7	Light green paint	Photo frame coating
8	Fuchsia paint	Photo frame coating
9	Green paint	Photo frame coating
10	Orange paint	Photo frame coating
11	Yellow paint	Photo frame coating
12	Fuchsia paint	Photo frame coating
13	Blue paint	Photo frame coating
14	Black paint	Photo frame coating
15	Fuchsia plastic	Photo frame
16	Transparent plastic	Photo frame
17	White plastic	Photo frame
18	White plastic	Photo frame cover
19	White plastic	Photo frame cover support
20	Silver metal	Photo frame screw
21	White plastic	Fixed piece
22	White plastic	Cell cover
23	Silver metal	Cell spacer
24	Silver metal	Cell screw
25	Red plastic	Switch
26	Transparent plastic	Photo frame lining
27	Black plastic	Photo frame
28	White plastic	Photo frame
29	Silver metal	Port
30	Silver metal	Shrapnel

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Material No.	Test Item	Report Limit	Maximum Limit #	Result	Unit	Conclusion
1	Total Lead (Pb)-paint	10	90	N.D.	ppm	PASS
2	Total Lead (Pb)-paint	10	90	N.D.	ppm	PASS
3	Total Lead (Pb)-paint	10	90	17	ppm	PASS
4	Total Lead (Pb)-paint	10	90	N.D.	ppm	PASS
5	Total Lead (Pb)-paint	10	90	N.D.	ppm	PASS
6	Total Lead (Pb)-paint	10	90	N.D.	ppm	PASS
7	Total Lead (Pb)-paint	10	90	N.D.	ppm	PASS
8	Total Lead (Pb)-paint	10	90	N.D.	ppm	PASS
9	Total Lead (Pb)-paint	10	90	N.D.	ppm	PASS
10	Total Lead (Pb)-paint	10	90	N.D.	ppm	PASS
11	Total Lead (Pb)-paint	10	90	N.D.	ppm	PASS
12	Total Lead (Pb)-paint	10	90	N.D.	ppm	PASS
13	Total Lead (Pb)-paint	10	90	23	ppm	PASS
14	Total Lead (Pb)-paint	10	90	16	ppm	PASS
15	Total Lead (Pb)-Substrate	10	300	N.D.	ppm	PASS
16	Total Lead (Pb)-Substrate	10	300	N.D.	ppm	PASS
17	Total Lead (Pb)-Substrate	10	300	N.D.	ppm	PASS
18	Total Lead (Pb)-Substrate	10	300	N.D.	ppm	PASS
19	Total Lead (Pb)-Substrate	10	300	N.D.	ppm	PASS
20	Total Lead (Pb)-Substrate	10	300	15	ppm	PASS
21	Total Lead (Pb)-Substrate	10	300	N.D.	ppm	PASS
22	Total Lead (Pb)-Substrate	10	300	N.D.	ppm	PASS
23	Total Lead (Pb)-Substrate	10	300	30	ppm	PASS
24	Total Lead (Pb)-Substrate	10	300	13	ppm	PASS
25	Total Lead (Pb)-Substrate	10	300	N.D.	ppm	PASS
26	Total Lead (Pb)-Substrate	10	300	N.D.	ppm	PASS
27	Total Lead (Pb)-Substrate	10	300	N.D.	ppm	PASS
28	Total Lead (Pb)-Substrate	10	300	N.D.	ppm	PASS

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Material No.	Test Item	Report Limit	Maximum Limit #	Result	Unit	Conclusion
29	Total Lead (Pb)-Substrate	10	300	17	ppm	PASS
30	Total Lead (Pb)-Substrate	10	300	38	ppm	PASS

- Note:** 1. ppm = part per million (mg/kg); 2. N.D. = Not Detected.
3. "#" = According to the provision of Consumer Product Safety Improvement Act of 2008 (CPSIA, Public Law 110-314), Sec.101 and CPSC 16 CFR 1303:
- A. Before 08/14/2009, The lead content in paint and surface coatings applies to toys and other articles intended for use by children and furniture articles should not exceed 600ppm;
  - B. After 08/14/2009, The lead content in paint and surface coatings applies to toys and other articles intended for use by children and furniture articles should not exceed 90ppm;
  - C. From 02/10/2009 to 08/13/2009, The lead limit should not exceed 600ppm for any accessible part of children's products (12 years of age or younger);
  - D. From 08/14/2009 to 08/13/2011, The lead limit should not exceed 300ppm for any accessible part of children's products (12 years of age or younger);
  - E. From 08/14/2011, The lead limit should not exceed 100ppm for any accessible part of children's products (12 years of age or younger).

**Test Result(s): Phthalates**

Material No.	Description	Location
31	Orange/ green/ white paint	Photo frame coating
32	Blue/ blue/ light blue paint	Photo frame coating
33	Light green/ fuchsia/ green paint	Photo frame coating
34	Orange/ yellow/ fuchsia paint	Photo frame coating
35	Blue/black paint	Photo frame coating
36	Fuchsia/ transparent /white plastic	Photo frame
37	White/white/white plastic	Photo frame cover/ photo frame cover support/ fixed piece
38	White/red/transparent plastic	Switch/cell cover /photo frame lining
39	White/black plastic	Switch frame/socket
40	White paper with multicolor printing	Photo frame lining
41	Black/white plastic	Photo frame

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Substances	DBP	BBP	DEHP	DNOP	DIDP	DINP	DNHP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	117-84-0	26761-40-0	28553-12-0	84-75-3	
Maximum Limit (ppm)	1000	1000	1000	1000	1000	1000	--	
RL (ppm)	30	30	30	30	50	50	30	
Material No.	Result (ppm)							
31	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
32	N.D.	N.D.	174	N.D.	N.D.	N.D.	N.D.	PASS
33	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
34	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
35	N.D.	N.D.	168	N.D.	N.D.	N.D.	N.D.	PASS
36	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
37	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
38	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
39	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
40	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
41	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. ppm = part per million (mg/kg);
  2. N.D. = Not Detected (< RL);
  3. RL = Report Limit;
  4. According to the client's requirement on the mixed test of sample, the result can not represent the content of any particular homogeneous material.

**Remark:**

CTT Co., Ltd. is the US Consumer Product Safety Commission (CPSC) Accredited Third Party Testing Laboratory, Identification number is 1026. And shall refer to <http://www.cpsc.gov/cgi-bin/labapplist.aspx>.



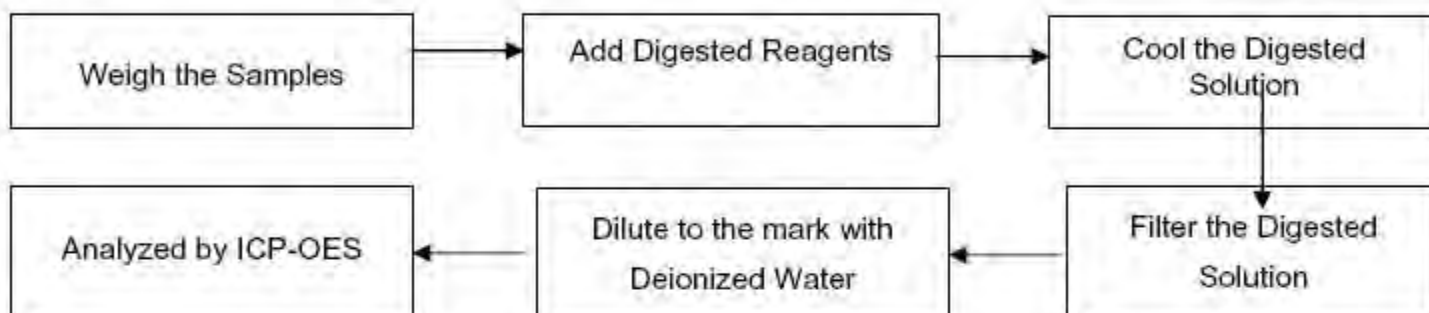
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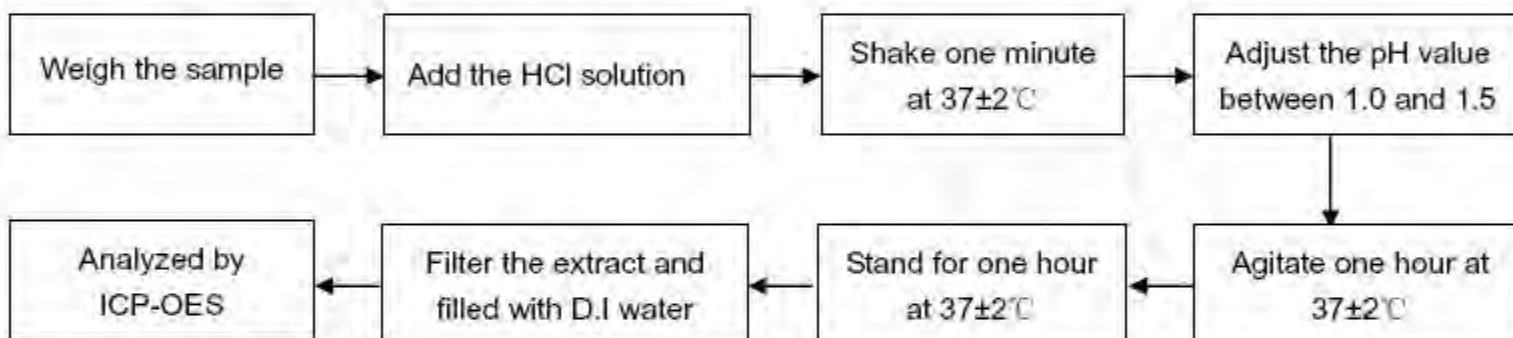
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**Test Process:**

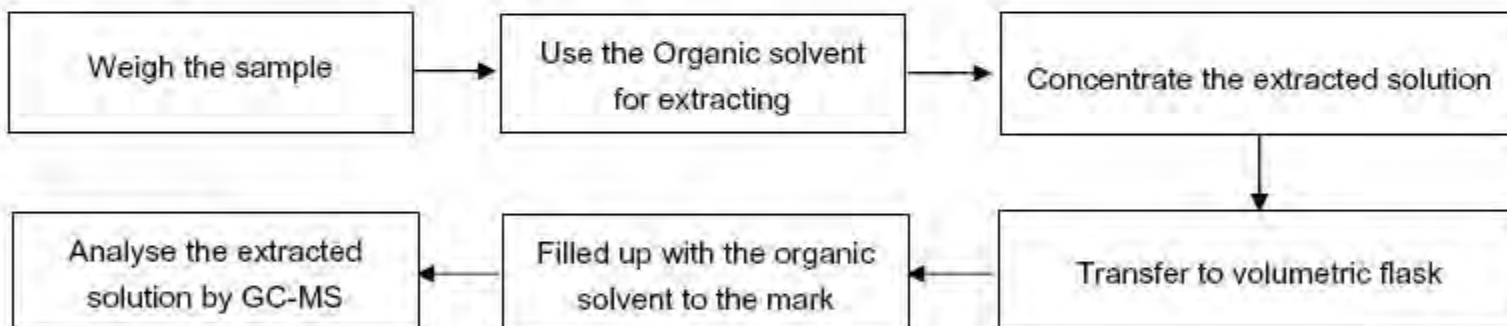
1. Lead



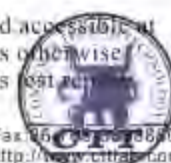
2. Soluble Heavy Metals Content & Migration of Certain Elements



3. Phthalates



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Photo of Sample:



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