

**Test Report No. :** Q00030799a 001

Page 1 of 11

**Client:** ENDLESS GAMES INC

920 Highway 33, Building 7, Unit 5 Freehold, NJ 07728

**Test Item(s):** Toys & raw material

**Identification/  
Model No(s):** Cheater Card Game  
Item# 800

**Sample Receiving date:** 20 May 2010  
24 May 2010

**Delivery condition:** Apparent good, Samples tested as received

**Test Specification:**

- 1 ASTM F963-08: Mechanical & physical
- 2 ASTM F963-08 Sect. 4.3.5.1 and CPSIA Sect 101: Total lead content in paint and coating materials
- 3 CPSIA Sect 101: Total lead content in substrate materials
- 4 ASTM F963-08 Cl.4.3.5.2 : Soluble Heavy Metals
- 5 CPSIA Sect 108 : Phthalates
- 6 CPSIA Sect 103: Tracking label  
Packaging waste - Toxic in Packaging Clearinghouse (TPCH) - Model Toxics in
- 7 Packaging Legislation as revised by Dec 2008, "formerly governed organization - CONEG"

**Test Result:**

PASS  
PASS  
PASS  
PASS  
PASS  
PASS  
PASS

**Other Information:**

Country of Origin: China  
Country of Destination: USA

The provided age grade of the item(s) : Ages: 7 to Adult  
The appropriate age grade of the item(s) : For age 6 years and up  
The item(s) was/were tested for the age of over 6 years.

According to the customer's instruction, only raw material was tested. Please refer to the material list on Page 2 for details.

For and on behalf of  
TÜV Rheinland (Hong Kong) Ltd.

03 Jun 2010  
Date



William To / Technical Manager  
Name / Position

*Test result is drawn according to the kind and extent of tests performed.  
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

**Test Report No. : Q00030799a 001**
**Page 2 of 11**
**Material List**

 Item: Cheater Card Game  
 Item# 800

<b>Material No.</b>	<b>Material</b>	<b>Color</b>	<b>Location</b>
M001	Whole Product	Multi-color	Whole product
M002	Coating	Multi-color	Card
M003	Coating	Multi-color	Box
M004	Coating	Black	Dice
M005	Plastic	White	Dice
M006	Plastic	Transparent	Wrapping of card (packaging)
M007	Plastic	Dull transparent	Polybag of dice (packaging)
M008	Paint	Black	Dice (wet paint)

Test Report No. : Q00030799a 001

Page 3 of 11

**1. ASTM F963-08 Physical & Mechanical tests**

Testing Period: 20 May. 2010 - 26 May. 2010

**4. Safety requirements**

4.1 Material Quality (visual check)	PASS
4.7 Accessible edges	PASS
4.9 Accessible points	PASS

**5. Labeling requirements**

5.2 Age grading labeling	PASS
5.16 Promotional materials	PASS

**6. Instructional literature**

6.1 Definition and description	PASS
--------------------------------	------

**7. Producer's markings**

7.1 Name and address of the producer or the distributor	PASS
---	------

**Test Report No. : Q00030799a 001**

Page 4 of 11

**2. ASTM F963-08 Sect. 4.3.5.1 and CPSIA Sect 101: Total lead content in Paint and coating materials**

Testing Period: 20 May. 2010 - 28 May. 2010

<b>ASTM F963-08 Sect 4.3.5.1</b>	<b>Total lead content in paint and coating materials</b>	<b>PASS</b>
<b>CPSIA Sect 101</b>	<b>Total lead content in paint and coating materials</b>	<b>PASS</b>

Test method: Sample was digested with acid and the toxic elements were analysed by Inductively coupled plasma - Optical emission spectrophotometer or Atomic Absorption Spectrophotometer. (QMA 36.035.05 HKG - Hot plate method, With ref. to EPA 3050B, Microwave assisted digestion method, CPSC-CH-E1001-08 microwave method, CPSC-CH-E1002-08 and CPSC-CH-E1003-09)

Test result:

Test No.	Material No.	Lead content (ppm)
		MDL : 10 ppm
T001	M002	n.d.
T002	M003	n.d.
T003	M008(*1)	n.d.

Abbreviation: n.d. = Not Detected (< MDL)  
MDL = Method Detection Limit  
ppm denotes parts per million

Remark:

\*1 According to client's declaration, the wet paint/ raw material submitted for testing are coated/ used on the final product without additional material/solvent added during the manufacturing process.

Requirement according to Consumer Product Safety Improvement Act 2008, section 101, is summarized below:

Effective Date	Maximum Permissible Limit Lead in paint and similar surface coating
1 year after enactment/ 14 Aug 2009	90 ppm

**Test Report No. : Q00030799a 001**
**Page 5 of 11**
**3. CPSIA Sect 101: Total lead content in substrate materials**

Testing Period: 20 May. 2010 - 26 May. 2010

<b>CPSIA Sect 101</b>	<b>Total lead content in substrate materials</b>	<b>PASS</b>
-----------------------	--	-------------

Test method: Sample was digested with acid and the toxic elements were analysed by Inductively coupled plasma - Optical emission spectrophotometer or Atomic Absorption Spectrophotometer. (QMA 36.035.05 HKG - Hot plate method, With ref. to EPA 3050B, Microwave assisted digestion method, CPSC-CH-E1001-08 microwave method, CPSC-CH-E1002-08 and CPSC-CH-E1003-09)

Test result:

Test No.	Material No.	Lead content (ppm)
		MDL : 10 ppm
T001	M005	n.d.

Abbreviation: n.d. = Not Detected (< MDL)  
 MDL = Method Detection Limit  
 ppm denotes parts per million

Remark:

According to Consumer Product Safety Commission, exemptions for lead as used in certain parts of children's electronic devices, for lead used :

- as an alloying element in steel, the maximum amount of lead shall be less than 0.35% by weight (3,500 ppm);
- in the manufacture of aluminum, the maximum amount of lead shall be less than 0.4% by weight (4,000 ppm);
- in copper-based alloys, the maximum amount of lead shall be less than 4% by weight (40,000 ppm).

Requirement according to Consumer Product Safety Improvement Act 2008, section 101, is summarized below:

Effective Date	<b>Maximum Permissible Limit</b> Lead in accessible substrate materials
180 days after enactment/10 Feb 2009	600 ppm
1 year after enactment/ 14 Aug 2009	300 ppm
3 years after enactment/14 Aug 2011	100 ppm

**Test Report No. : Q00030799a 001**
**Page 6 of 11**
**4. ASTM F963-08 Cl.4.3.5.2 : Soluble Heavy Metals**

Testing Period: 20 May. 2010 - 26 May. 2010

<b>ASTM F963-08 Sect 4.3.5.2</b>	<b>Soluble heavy metals</b>	<b>PASS</b>
----------------------------------	-----------------------------	-------------

Test method: Determination of heavy metal on paint and similar surface coating material according to ASTM F963-08 (QMA 36.035.25 HKG)

This requirement applies to the coating which can be scraped off and the sample weight is greater than 10 mg

Test result:

Test No.	Material No.	[mg/kg]							
		Sb	As	Ba	Cd	Cr	Pb	Hg	Se
		Maximum Permissible Limit							
		60	25	1000	75	60	90	60	500
		MDL							
		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
T001	M002	n.d.	n.d.	12.6	n.d.	n.d.	n.d.	n.d.	n.d.
T002	M003	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
T003	M004	n.d.	n.d.	191.2	n.d.	n.d.	n.d.	n.d.	n.d.

 Abbreviation: n.d. = Not Detected (< MDL)  
 MDL = Method Detection Limit  
 mg/kg denotes milligram per kilogram

**Test Report No. : Q00030799a 001**
**Page 7 of 11**
**5. CPSIA Sect 108 : Phthalates**

Testing Period: 20 May. 2010 - 28 May. 2010

CPSIA Sect 108	Phthalates	PASS
----------------	------------	------

Test Method: Organic solvent extraction, analyzed by GCMS (QMA 36.035.13 HKG)

**Test Result:**

Test No.			T001	T002	T003
Material No.			M002	M003	M005
Parameter	MDL	Unit	Result	Result	Result
Dibutyl phthalate (DBP)	0.005	%	n.d.	n.d.	n.d.
Benzylbutyl phthalate (BBP)	0.005	%	n.d.	n.d.	n.d.
Diethylhexyl phthalate (DEHP)	0.005	%	n.d.	n.d.	n.d.
Di-n-octyl phthalate (DNOP)	0.005	%	n.d.	n.d.	n.d.
Diisodecyl phthalate (DIDP)	0.005	%	n.d.	n.d.	n.d.
Diisononyl phthalate (DINP)	0.005	%	0.007	0.010	n.d.
Summary		Pass/Fail	Pass	Pass	Pass

Test No.			T004
Material No.			M008(*1)
Parameter	MDL	Unit	Result
Dibutyl phthalate (DBP)	0.005	%	n.d.
Benzylbutyl phthalate (BBP)	0.005	%	n.d.
Diethylhexyl phthalate (DEHP)	0.005	%	n.d.
Di-n-octyl phthalate (DNOP)	0.005	%	n.d.
Diisodecyl phthalate (DIDP)	0.005	%	n.d.
Diisononyl phthalate (DINP)	0.005	%	n.d.
Summary		Pass/Fail	Pass

Abbreviation      n.d. = Not Detected (< MDL)  
                          MDL = Method Detection Limit  
                          % denotes percentage

**Test Report No. : Q00030799a 001**
**Page 8 of 11**
**Remark:**

\*1 According to client's declaration, the wet paint/ raw material submitted for testing are coated/ used on the final product without additional material/solvent added during the manufacturing process.

Requirement according to Consumer Product Safety Improvement Act 2008, section 108, is summarized below:

Date of Implementation	Parameter	Unit	Maximum Permissible Limit
180 days after the date of enactment/10 Feb 2009	Any children's toy or childcare article:		
	Dibutyl phthalate (DBP), Benzylbutyl phthalate (BBP) or Diethylhexyl phthalate (DEHP)	%	0.1
	Any children's toy that can be placed in a child's mouth or childcare article:		
	Di-n-octyl phthalate (DNOP), Diisodecyl phthalate (DIDP) or Diisononyl phthalate (DINP)	%	0.1

Test Report No. : Q00030799a 001

Page 9 of 11

**#6. CPSIA Sect 103: Tracking label**

Testing Period: 20 May, 2010 - 26 May, 2010

Tracking Label	PASS
----------------	------

# The test is not covered by DAP accreditation.

**Test Report No. : Q00030799a 001**
**Page 10 of 11**
**#7. Packaging waste**

Test Method: Sample was digested with acid and the toxic elements were analyzed by ICP-OES (QMA 36.035.55HKG)  
For Cr (VI) - IEC 62321 Ed.,1, 2008 (QMA 36.035.12HKG)

Testing Period: 20 May. 2010 - 26 May. 2010

**Test Result:**

Test No.	Material No.	Heavy metal content (mg/kg)					Result
		MDL (mg/kg)					
		10	10	10	10	10	
		Pb	Cd	Cr <sup>^</sup>	Cr(VI)	Hg	
T001	M006	n.d.	n.d.	n.d.	-	n.d.	Pass
T002	M007	n.d.	n.d.	n.d.	-	n.d.	Pass

Abbreviation: n.d. = Not Detected (< MDL)  
MDL = Method Detection Limit  
Pass denotes the sum of 4 elements is less than or equal to 100 mg/kg.  
mg/kg denotes milligram per kilogram

**Remark:**

According to the US Toxic in Packaging Clearinghouse (TPCH) - Model Toxics in Packaging Legislation, revised as Dec 2008; the maximum permissible limit of the sum of the concentration of Lead, Cadmium, Mercury and Hexavalent Chromium is 100ppm. For recycled materials, the maximum permissible limit for the 4 regulated metals is 200ppm.

<sup>^</sup> Screening of total chromium is performed. If the result is in the inconclusive region, chromium VI content will be confirmed by IEC 62321, Ed 1: 2008 Annex.

# The test is not covered by DAP accreditation.

Testing Laboratory accredited by DAP according to DIN EN ISO/IEC 17025. The accreditation is valid for the test methods stated in the certificate.

Test Report No. : Q00030799a 001

Page 11 of 11

Sample photo:



- END -