



Product Technology Service

Report No.: TS2013042202

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Test Report

Testing institute : Product Technology Service (Ningbo) Co., Ltd.
6&7F, 59#, Huayu Road,
Yinzhou District, Ningbo 315192 P.R.China

Applicant : Dilemma Games Co. Ltd
85 Zhu Huang Road, Jiangyin, Jiang Su, P.R.China

Product name : HQ7823 SIX in ONE WIRE PUZZLE SET

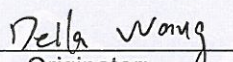
Sample Description : /

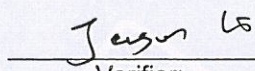
Sample receive date : Apr.23,2013
Completes date : May 13,2013

Testing location : Product Technology Service (Ningbo) Co., Ltd.

Test Requested : 1. ASTM F963-11 Standard Consumer Safety Specification for Toy Safety
--Mechanical and Physical Properties
Excluding Clause 7.1
Excluding Labeling Requirement of Clause 5.2
2. ASTM F963-11 Standard Consumer Safety Specification for Toy Safety
--4.2 Flammability
3.As specified by client, to determine lead content in accessible substrate materials in the selected parts of the submitted sample(s) with reference to US Public Law 110-314(CPSIA: Consumer Product Safety Improvement Act of 2008) (H.R.4040+H.R.2715).

Conclusion : Pass


Originator:
Della Wang


Verifier:
Jason Li



Ningbo, May 14,2013

The test results exclusively refer to the samples examined. This report shall not be reproduced except in full without written approval and does not authorize the use of Product Technology Service (Ningbo) Co., Ltd. label. The report is invalid without signature and seal of Product Technology Service (Ningbo) Co., Ltd.

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Product name:

No.	Name	Part No.	Part Name
1	HQ7823 SIX in ONE WIRE PUZZLE SET	1-1	Metal part

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1. ASTM F963-11: Mechanical and Physical Properties

Test specification	: ASTM F963-11 Standard Consumer Safety Specification for Toy Safety Excluding Clause 7.1 Excluding Labeling Requirement of Clause 5.2
Re-test times	Once
Test item	: See below
Requirement	: See below
Labeled age grading	: Not stated
Applicant's specified age group for testing	: 3+ years
Age grading for test	: Over 3 years

Test Results

Clause	Assessment
4. Safety Requirements	
4.1 Material Quality	<u>Pass</u>
4.6 Small Objects	<u>Pass</u>
4.7 Accessible Edges	<u>Pass</u>
4.9 Accessible Points	<u>Pass</u>
4.18 Holes, Clearance, and Accessibility of Mechanisms	<u>Pass</u>
5. Labeling Requirements	
5.2 Age Grading Labeling	<u>See Remark 1</u>
5.3 Safety Labeling Requirements	<u>Pass</u>
5.11 Small Objects, Small Balls, Marbles, and Balloons	<u>Pass</u>
7. Producer's Markings	
7.1 General	<u>See Remark 2</u>

Remark :

- 1: The toy or package should indicate the minimum age for intended use.
- 2: The attention of the applicant was drawn to the need for the final product or its packaging must be marked with the name and address of the producer or distributor as specified in section 7.1 of U.S. ASTM F963-11.

N.B. : Only applicable clauses were shown.

2. 4.2 Flammability

Test method : ASTM F963-11 Standard Consumer Safety Specification for Toy Safety
4.2 Flammability

Test item : See below

Requirement : See below

Test Results

Clause

Assessment

4.2 Flammability

Pass

- A5 Flammability Testing Procedure for Solids and Soft Toys

Remarks:

The result of burn rate: DNI

Note:

The burn rate of all samples should be less than 0.1 in./s

(all styles of) the toy sample (and its accessories) was/were tested, and the result only showed the failed/most severe burn rate.

Remark:

- DNI = Did Not Ignite

3. Lead content in accessible substrate materials

Test method : CPSC-CH-E1001-08.3 Total Lead (Pb) in Metal Children's Products
Acid digestion and quantification by Inductively Coupled Plasma- Optical Emission Spectrometer

Product name: 1-1. Metal part				
Parameter:	Unit	Result	Requirement	Conclusion
Lead (Pb)	ppm	ND	100	Pass

Note:

- 1) ND=not detected, less than detection limit (Detection Limit =5ppm)
- 2) 100ppm=0.01%
- 3) ppm=mg/kg

Main test instruments used for this method:

Parameter	Instrument	Manufactory	Model / Type
Pb	ICP-OES	PerkinElmer	5300DV

Sample photo(s), see annex 1

---END---

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ANNEX 1

Sample photos, Consists of 1 page



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HQ7823 SIX in ONE WIRE PUZZLE SET



TS2013042202ADD1

(For US ASTM F963-11-Physical & Mechanical tests)

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