



## Test Report

No.: SHTY120300003402

Date: Mar 30, 2012

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HANGZHOU ZT MODEL CO., LTD  
NO.6 WEIWU RD. BEIGAN INDUSTRY DISTRICT, XIAOSHAN, HANGZHOU, CHINA

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

Sample Description : GLIDER COMBO

Detail of Sample : 2 STYLES ASSORTED DIY TOY SET, PRINTED BOX PACKED.

Sample Quantity : 6 PCS  
Style / Item No. : Z0145 / XA00514  
P.O. / Ref. No. : PO 5324  
Buyer : AG INDUSTRIES INC  
Manufacturer : HANGZHOU ZT MODEL CO., LTD  
Country of Origin : CHINA  
Country of Destination : USA  
Labeled Age Grading : FOR AGES 8+  
Requested Age Grading : 8+  
Age Group Applied in Testing : 8+ YEARS  
Sample Receiving Date : MAR 21, 2012  
Resubmitted Sample Date : MAR 29, 2012  
Further Information Date : MAR 30, 2012  
Testing Period : MAR 21, 2012 TO MAR 30, 2012

TESTING REQUESTED : For compliance with the requirement of ASTM F963-11 Standard Consumer Safety Specification on Toy Safety. (As per client's request, exclude Clause 4.2 flammability)

RESULTS : Details please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

Wallace Lui  
Senior Technical Manager, Asia

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ASTM F963 – 11

AS SPECIFIED IN ASTM F963-11 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clause Relevant to Sample.

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety Requirements</u>	
4.1	Material Quality (Visual Examination)	<u>Pass</u>
4.2	Flammability Test	<u>N/C</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
	4.3.5.1– Heavy Elements in Paint/Similar Surface Coating Materials	<u>N/A</u>
	4.3.5.2 – Heavy Metal in Substrate Materials	<u>Pass (See Note 1 &amp; 2)</u>
4.7	Accessible Edges	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.12	Plastic Film	<u>Pass</u>
5	<u>Safety Labeling Requirements</u>	
5.2	Age Grading Labeling	<u>Pass</u>
5.16	Promotional Materials	<u>Pass</u>
6	<u>Instructional Literature</u>	
6.1	Definition and Description	<u>Pass</u>
7	<u>Producer’s Markings</u>	
7.1	Producer’s Markings	<u>Pass</u>
8	<u>Test Methods</u>	
8.5	Normal Use Testing	<u>Pass</u>

N/A = Not Applicable

N/C = Not conducted as per client’s request

Note 1 :

American Society for Testing and Materials -ASTM F 963-11 - total Lead in Substrate Materials

Test Method : With reference to CPSC Test Method: CPSC-CH-E1002-08.1. Analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	
Total Lead (Pb)	100	mg/kg	20	ND	ND	

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**Note 2 :**

American Society for Testing and Materials –ASTM F 963-11 – soluble heavy metal in Substrate Materials/paint and similar surface-coating materials

Test Method : Soluble Heavy Metal contents (Clause 4.3.5) - Sample was extracted by dilute hydrochloric acid in accordance with ASTM F 963-11(Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	004	005	006
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	007	008
Soluble Lead (Pb)	90	mg/kg	5	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND

**Notes :**

- (1) Results shown are of the adjusted analytical results

**Test Part Description :**

Specimen No.	SGS Sample ID	Description
1	SHA12-036636.001	Yellow plastic
2	SHA12-036636.002	White foam
3	SHA12-036636.003	Transparent soft plastic sticker with colorful
4	SHA12-036636.004	Translucent plastic
5	SHA12-036636.005	Light brown elastic
6	SHA12-036636.006	Translucent soft plastic film with sticky

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7	SHA12-036636.007	Red plastic
8	SHA12-036636.008	Natural colored wood

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

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

Sample Photo:



SGS authenticate the photo on original report only

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

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