

# GWSTC Test Report

Date: 2014-01-10

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NO: GP158801

**APPLICANT:** (Code: CML001)

Carpenters Manufactory Limited  
Huang Jin Ji Industrial Zone  
Shang Jie Village, Qi Shi Town  
Dongguan City, Guangdong Province  
China  
Attn: Candy

**CONCLUSION:**

ASTM F 963-11: physical and mechanical test

The submitted sample complied with the requirement.

ASTM F 963-11: flammability test

The submitted sample complied with the requirement.

ASTM F 963-11: heavy elements test

The submitted sample complied with the requirement.

U.S. CPSC 16 CFR Part 1303 for total lead content

The submitted sample complied with the requirement.

U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314) for total lead content

The submitted sample complied with the requirement.

U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314) for phthalates content

The submitted sample complied with the requirement.


California proposition 65 for DnHP content

The submitted sample complied with the requirement.

California proposition 65 for total lead content

The submitted sample complied with the requirement.

Approved Signatory:

  
Feng Jun Guo  
Lab Manager  
Ellen, Xiao Wan Li  
General Manager

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### DESCRIPTION OF SAMPLE(S):

One (1) style, two (2) pieces of submitted sample (photo attached at Appendix A) said to be:  
PLAY KITCHEN  
ITEM NO.: RP2A01  
COUNTRY OF ORIGIN: CHINA  
COUNTRY OF DESTINATION: EUROPE, USA  
SUPPLIER/MANUFACTURER: CARPENTERS MANUFACTORY LIMITED

### INVESTIGATION REQUESTED:

1. ASTM Standard Consumer Safety Specification on Toy Safety F 963-11
  - physical and mechanical test
  - flammability test
  - heavy elements test
2. Total lead content in accordance with U.S. CPSC 16 CFR Part 1303.
3. Total lead content in accordance with U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314)
  - Sec.101. children's product containing lead; lead paint rule.
4. Phthalates content in accordance with U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314)
  - Sec.108. Prohibition on sale of certain products containing specified phthalates.
5. DnHP content in accordance with California proposition 65.
6. Total lead content in accordance with California proposition 65.

### DATE OF SAMPLE(S) RECEIVED:

2013-11-26, 2013-12-09

### DATE TESTED:

#### ASTM F 963-11

- physical and mechanical test: 2013-11-29, 2013-12-10
- flammability test: 2013-11-29
- heavy elements test: 2013-11-26 to 2014-01-09

#### U.S. CPSC 16 CFR Part 1303/U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314)/California proposition 65

2013-11-26 to 2014-01-09

### AGE GRADING:

The sample was appropriately age graded with the marking of 'Small Parts. Not for children under 3 years'. The applicant requested also it to be tested according to the age grade of all ages 36 months and up.

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**AGE GRADING FOR TESTING:**

36 months and up

**TEST RESULTS:**

1. ASTM F 963-11

1.1 Mechanical and physical hazards

Ref.: ASTM F 963-11

Applicable requirements before and after use and abuse testing:

Applicable

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	----
4.1	Material Quality	Pass* <sup>1</sup>
4.5	Sound – Producing Toy	Pass
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	Pass
4.13	Folding Mechanisms and Hinges	Pass
5	<u>Safety Labeling Requirements</u>	----
5.2	Age Grading Labeling	Pass
5.8	Toys Intended to be Assembled By an Adult	Pass
6	<u>Instructional Literature</u>	----
6.1	Definition and Description	Pass
7	<u>Producer's Markings</u>	----
7.1	Name and Address of the Producer/Distributor	Pass

Use and abuse testing:

Applicable

<u>Section</u>	<u>Description</u>
8.5	Normal Use Testing
8.6	Abuse Testing
8.7	Impact Test
8.8	Torque Test for Removal of Components
8.9	Tension Test for Removal of Components
8.10	Compression Test
8.19	Tests for Toys which Produce Noise

\*<sup>1</sup> = The applicant confirmed the toy was made of new material.

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1.2 Flammability of materials other than textiles

Ref.: ASTM F 963-11 Section 4.2

<u>Sample</u>	<u>The burn rate</u>	<u>Result</u>
PLAY KITCHEN	Did not ignite	Pass

Note: In accordance with the FHSA, the burn rate should not be greater than 0.1 in. per second.

1.3 Heavy elements analysis

1.3.1 ASTM F 963-11 Section 4.3.5 - total lead analysis

Method used: ASTM F 963-11 Section 8.3.1

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Paint materials (on dried film) (see Remark 1)

- (a) Bright red (A1Y)
- (b) Orange (A2Y)
- (c) Dark green (A5Y)
- (d) Light green (A6Y)
- (e) Dark brown (A10Y)
- (f) White (A14Y)
- (g) Black (A19Y)

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(a)~(g)	<5mg/kg	90mg/kg

Plastic materials

- (h) Play kitchen: flesh plastic (see Remark 7)
- (i) Play kitchen: transparent plastic part (see Remark 6)
- (j) Play kitchen: translucent door holder (see Remark 6)
- (k) Play kitchen: light coffee knob/white basin (see Remark 8)

Wooden materials

- (l) Play kitchen: flesh wood (see Remark 2)
- (m) Play kitchen: light flesh plywood (see Remark 2)
- (n) Play kitchen: deep flesh fibreboard (see Remark 7)

Metallic material (non-small part) (see Remark 7)

- (o) Play kitchen: silver metal screw

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(h)~(o)	<10mg/kg	100mg/kg

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1.3.2 ASTM F 963-11 Section 4.3.5 - soluble elements analysis

Method used: ASTM F 963-11 Section 8.3.2

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Coating materials\*<sup>2</sup>

- (a) Play kitchen: orange (A2Y) (see Remark 2)
- (b) Play kitchen: light green (A6Y) (see Remark 2)
- (c) Play kitchen: dark brown (A10Y) (see Remark 3)
- (d) Play kitchen: black (A19Y) (see Remark 7)

\*<sup>2</sup> = The following coating materials were insufficient to form testing materials of 10mg. In accordance with the Standard, they were not tested.

- Play kitchen: bright red (A1Y)
- Play kitchen: dark green (A5Y)
- Play kitchen: white (A14Y)

Plastic materials

- (e) Play kitchen: flesh plastic (see Remark 5)
- (f) Play kitchen: transparent plastic part (see Remark 7)
- (g) Play kitchen: translucent door holder (see Remark 6)
- (h) Play kitchen: light coffee knob (see Remark 4)
- (i) Play kitchen: white basin (see Remark 4)

Wooden materials

- (j) Play kitchen: flesh wood (see Remark 2)
- (k) Play kitchen: light flesh plywood (see Remark 2)
- (l) Play kitchen: deep flesh fibreboard (see Remark 7)

	<u>(a)~(i)</u>	<u>(j)</u>	<u>(k)~(l)</u>	<u>Limit</u>
Soluble antimony .....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble arsenic .....	<2mg/kg	<2mg/kg	<2mg/kg	25mg/kg
Soluble barium .....	<10mg/kg	20mg/kg	<10mg/kg	1000mg/kg
Soluble cadmium .....	<7mg/kg	<7mg/kg	<7mg/kg	75mg/kg
Soluble chromium .....	<5mg/kg	<5mg/kg	<5mg/kg	60mg/kg
Soluble lead .....	<5mg/kg	<5mg/kg	<5mg/kg	90mg/kg
Soluble mercury .....	<5mg/kg	<5mg/kg	<5mg/kg	60mg/kg
Soluble selenium .....	<10mg/kg	<10mg/kg	<10mg/kg	500mg/kg

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2. U.S. CPSC 16 CFR Part 1303 & U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314) & California proposition 65 - total lead analysis in paint and similar surface coating

Method used: CPSC-CH-E1003-09

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Paint materials (on dried film) (see Remark 1)

- (a) Bright red (A1Y)
- (b) Orange (A2Y)
- (c) Dark green (A5Y)
- (d) Light green (A6Y)
- (e) Dark brown (A10Y)
- (f) White (A14Y)
- (g) Black (A19Y)

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(a)~(g)	<0.001%	0.009% (90ppm, 90mg/kg)

3. U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314) & California proposition 65 - total lead analysis in non-surface coating materials

Method used: CPSC-CH-E1002-08.1

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Plastic materials

- (a) Play kitchen: flesh plastic (see Remark 7)
- (b) Play kitchen: transparent plastic part (see Remark 6)
- (c) Play kitchen: translucent door holder (see Remark 6)
- (d) Play kitchen: light coffee knob/white basin (see Remark 8)

Wooden materials

- (e) Play kitchen: flesh wood (see Remark 2)
- (f) Play kitchen: light flesh plywood (see Remark 2)
- (g) Play kitchen: deep flesh fibreboard (see Remark 7)

Metallic material (non-small part) (see Remark 7)

- (h) Play kitchen: silver metal screw

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(a)~(h)	<10mg/kg	100mg/kg (0.01%, 100ppm)

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4. U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314) & California proposition 65 - phthalates analysis (as per client's request) (see Remark 9)  
 Method used: CPSC-CH-C1001-09.3  
 Determined by: Gas Chromatograph-Mass Spectrometry

For children's toys that can be placed in children's mouth or child care article

Paint materials (on dried film) (see Remark 1)

- (a) Bright red (A1Y)
- (b) Orange (A2Y)
- (c) Dark green (A5Y)
- (d) Light green (A6Y)
- (e) Dark brown (A10Y)
- (f) White (A14Y)
- (g) Black (A19Y)

Plastic materials

- (h) Play kitchen: flesh plastic (see Remark 7)
- (i) Play kitchen: transparent plastic part (see Remark 6)
- (j) Play kitchen: translucent door holder (see Remark 6)
- (k) Play kitchen: light coffee knob/white basin (see Remark 6)

Wooden materials

- (l) Play kitchen: flesh wood (see Remark 2)
- (m) Play kitchen: light flesh plywood (see Remark 2)
- (n) Play kitchen: deep flesh fibreboard (see Remark 7)

For children's toys that can not be placed in children's mouth

Plastic material

- (o) Play kitchen: white plastic particle

Short form	Full name	(a)~(o)	Limit for CPSIA
(DEHP)	Di (2-ethylhexyl) phthalate	<0.01%	0.1%
(BBP)	Butyl benzyl phthalate	<0.01%	0.1%
(DBP)	Di-butyl phthalate	<0.01%	0.1%
(DINP)	Di-iso-nonyl phthalate	<0.01%	0.1%
(DIDP)	Di-iso-decyl phthalate	<0.01%	0.1%
(DnOP)	Di-n-octyl phthalate	<0.01%	0.1%
Short form	Full name	(a)~(o)	Limit for California proposition 65
(DnHP)	di-n-hexyl phthalate	<0.01%	0.1%

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**Remark 1:**

The test results are transferred from the test report GP158734 which issued on 2013-11-26.

**Remark 2:**

The test results are transferred from the test report GP158737 which issued on 2013-11-29.

**Remark 3:**

The test results are transferred from the test report GP158771 which issued on 2013-12-18.

**Remark 4:**

The test results are transferred from the test report GP158802 which issued on 2014-01-10.

**Remark 5:**

The test results are transferred from the test report GP158817 which issued on 2013-12-24.

**Remark 6:**

The test results are transferred from the test report GP158829 which issued on 2014-01-09.

**Remark 7:**

The test results are transferred from the test report GP158857 which issued on 2013-12-24.

**Remark 8:**

As required by client, the specimens were mixed into one for test. When testing, equal weight of each sample was used. In this circumstance, the lowest individual sample weight was used to calculate the test result.

**Remark 9:**

The California proposition 65 for DnHP content is not covered by the CNAS accreditation.

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Appendix A



**PHOTOGRAPH(S) OF THE SAMPLE**  
\*\*\*\*\* End of Document \*\*\*\*\*

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