

# GWSTC Test Report

Date: 2014-01-09

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NO: GP158831

**APPLICANT:** (Code: CML001)

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

Attn: Candy

**DESCRIPTION OF SAMPLE(S):**

Two (2) styles, four (4) pieces of submitted sample (photo attached at Appendix A) said to be:  
KITCHEN CENTER  
ITEM NO.: RP2A02 / RP2A03  
COUNTRY OF ORIGIN: CHINA  
COUNTRY OF DESTINATION: EUROPE, USA  
SUPPLIER/MANUFACTURER: CARPENTERS MANUFACTORY LIMITED

**CONCLUSION:**

Toys Regulations SOR/2011-17 under Canada Consumer Product Safety Act – Physical and Mechanical Test

The submitted sample complied with the test requirement.

Toys Regulations SOR/2011-17 under Canada Consumer Product Safety Act – Flammability Test

The submitted sample complied with the test requirement.

Toys Regulations SOR/2011-17 under Canada Consumer Product Safety Act – Toxic element content

The submitted sample complied with the test requirement.


Consumer Products Containing Lead (Contact with mouth) Regulations SOR/2010-273 under Canada Consumer Product Safety Act


The submitted sample complied with the test requirement.

Phthalates Regulation SOR/2010-298 under Canada Consumer Product Safety Act: Phthalates content

The submitted sample complied with the test requirement.

Approved Signatory:

  
Feng Jun Guo  
Lab Manager

  
Ellen, Xiao Wan Li  
General Manager

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**DATE OF SAMPLES RECEIVED:**

2013-11-27

**INVESTIGATIONS REQUESTED:**

Toys Regulations SOR/2011-17 under Canada Consumer Product Safety Act

- Physical and mechanical tests
- Flammability tests
- Toxic elements content
- Total lead content
- Phthalates content

**DATE TESTED:**

2013-11-27 to 2014-01-08

**AGE GRADING:**

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

**AGE GRADING FOR TESTING:**

3 years and up

**TEST RESULTS:**

1. Physical and mechanical tests  
Ref.: Toys Regulations SOR/2011-17, Canada Consumer Product Safety Act

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
3	Official languages	Pass
4	Flexible film bags	Pass
	<u>Mechanical hazards</u>	----
8	Exposed metal edges	Pass
10	Plastic edges	Pass
11	Wood	Pass
13	Fasteners	Pass
19	Sound-Producing Toys	Pass
21	Cellulose nitrate detection	See 2.1

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Use and abuse testing:

Applicable

Clause

Description

Schedule 1 M00.1	Small parts cylinder
M00.2	Sharp edges
M00.3	Sharp points
M01.1	Reasonable foreseeable use
	Drop test
	Push/pull test
M04	Test method to determine the noise level of toys

2. Flammability Tests

2.1 Cellulose nitrate detection

Ref.: Toys Regulations SOR/2011-17, section 21

Result: not detected.

3. Toxic elements analysis

Ref.: Toys Regulations SOR/2011-17, section 23

Method used: Inductively Coupled Plasma-Optical Emission Spectrometer

3.1 Total lead and mercury analysis

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

- (a) Bright red (A1Y)
- (b) Orange (A2Y)
- (c) Dark brown (A10Y)

Coating materials

- (d) Kitchen center: red/white/silver grey baking paint
- (e) Kitchen center: blue green/white/silver gray baking paint
- (f) Kitchen center: yellow wood grain on fibreboard

Plastic materials

- (g) Kitchen center: flesh plastic (see Remark 6)
- (h) Kitchen center: transparent plastic part
- (i) Kitchen center: silver gray/deep red/blue green (see Remark 7)
- (j) Kitchen center: translucent door holder

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	<u>(a)~(j)</u>	<u>Limit</u>
Total lead.....	<10mg/kg	90mg/kg
Total mercury.....	ND	ND

ND = Not detected (<1mg/kg)

### 3.2 Soluble toxic elements analysis

#### Coating materials

- (a) Kitchen center: bright red (A1Y) (see Remark 2)
- (b) Kitchen center: orange (A2Y) (see Remark 2)
- (c) Kitchen center: dark brown (A10Y) (see Remark 3)
- (d) Kitchen center: red/white/silver grey baking paint
- (e) Kitchen center: blue green/white/silver gray baking paint
- (f) Kitchen center: yellow wood grain on fibreboard

#### Plastic materials

- (g) Kitchen center: flesh plastic (see Remark 6)
- (h) Kitchen center: transparent plastic part (see Remark 4)
- (i) Kitchen center: silver gray
- (j) Kitchen center: deep red
- (k) Kitchen center: blue green
- (l) Kitchen center: translucent door holder

	<u>(a)~(l)</u>	<u>Limit</u>
Soluble antimony.....	<0.0025%	0.1%
Soluble arsenic.....	<0.0025%	0.1%
Soluble barium.....	<0.0025%	0.1%
Soluble cadmium.....	<0.0025%	0.1%
Soluble selenium.....	<0.0025%	0.1%

### 4. Total lead content in mouth-contact articles

Ref.: Consumer Products Containing Lead (Contact with mouth) Regulations SOR/2010-273

Method used: Inductively Coupled Plasma-Optical Emission Spectrometer

#### Wooden materials (see Remark 2)

- (a) Kitchen center: flesh wood
- (b) Kitchen center: light flesh plywood

#### Metallic material (non-small part) (see Remark 6)

- (c) Kitchen center: silver metal screw

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Tested component (see Remark 5)  
(d) Kitchen center: deep flesh fibreboard

	<u>(a)~(d)</u>	<u>Limit</u>
Total lead.....	<10mg/kg	90mg/kg

5. Phthalates content

Ref.: Toys Regulations SOR/2011-17, section 27(3d) and Phthalates Regulation SOR/2010-298  
Method used: Gas Chromatography Mass Spectrometer

Plastic materials

- (a) Kitchen center: flesh plastic (see Remark 6)
- (b) Kitchen center: transparent plastic part (see Remark 4)
- (c) Kitchen center: white plastic particle
- (d) Kitchen center: silver gray/deep red/blue green (see Remark 7)
- (e) Kitchen center: translucent door holder

	<u>(a)~(e)</u>	<u>Limit</u>
Di (2-ethylhexyl) phthalate (DEHP) .....	Not Detected	1000mg/kg
Benzyl-n-butyl phthalate (BBP) .....	Not Detected	1000mg/kg
Di-n-butyl phthalate (DBP) .....	Not Detected	1000mg/kg
Diisononyl phthalate (DINP) .....	Not Detected	1000mg/kg*
Diisodecyl phthalate (DIDP) .....	Not Detected	1000mg/kg*
Di-n-octyl phthalate (DNOP) .....	Not Detected	1000mg/kg*

\* = The content of each phthalate above shall not be greater than 1000mg/kg by mass of the plasticised material which can be placed in the mouth of children under 4 years of age.

Notes: Method detection limit = 100mg/kg

**Remark 1:**

The test results are transferred from the test report GP158736 which issued on 2013-11-26.

**Remark 2:**

The test results are transferred from the test report GP158739 which issued on 2013-11-29.

**Remark 3:**

The test results are transferred from the test report GP158773 which issued on 2013-12-18.

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**Remark 4:**

The test results are transferred from the test report GP158819 which issued on 2013-12-24.

**Remark 5:**

The test results are transferred from the test report GP158858 which issued on 2013-12-23.

**Remark 6:**

The test results are transferred from the test report GP158859 which issued on 2013-12-23.

**Remark 7:**

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.

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Appendix A



### PHOTOGRAPH(S) OF THE SAMPLE

\*\*\*\*\* End of Document \*\*\*\*\*

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