



中国认可  
国际互认  
检测  
TESTING  
CNAS L1114

# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

Attn: Kelly Xiong

Sample Description: Knob Puzzles-Shapes/  
Knob Puzzles-Sea Creatures/  
Knob Puzzles-farm/  
Knob Puzzles-transportation/  
Knob Puzzles-Construction Site/  
Knob Puzzles-fruits

Quantity Submitted: 1 piece x 6 styles  
Supplier: Carpenters Manufactory Limited  
Buyer: Not provided  
Style/Item No.: MK09906, MK09913, MK09920, MK09937, MK09944, MK09951  
P.O. No.: Not provided  
Labeled Age Grading: 1+  
Destination: Global  
Country of Origin: China  
Date(s) of samples received: July 24, 2017

**TEST METHOD & RESULTS: Please refer to next page(s)**

**CONCLUSION: Please refer to page two(2)**

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SZ-FAF-001 (2013-04-10)



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ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi  
Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## CONCLUSION:

### USA:

ASTM F963-16 Physical & Mechanical Requirements	PASS
16 CFR 1500&1501 Physical & Mechanical Requirements	PASS
ASTM F963-16 Flammability Requirements	PASS
16 CFR 1500.3 (c)(6) (vi) / 16 CFR 1500.44 Flammability Requirements	PASS
ASTM F963-16 Clause 4.3.5.1 (2) Elements Migration in surface coating	PASS <sup>#2, #5</sup>
ASTM F963-16 Clause 4.3.5.2 (2) (b) Elements Migration in substrate	PASS <sup>#4</sup>
ASTM F963-16 Clause 4.3.5.1 (1) Total Lead in Surface Coating	PASS <sup>#3, #5</sup>
16 CFR 1303 Total Lead Content Requirements	PASS <sup>#3, #5</sup>
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Paint or Surface Coating]	PASS <sup>#3, #5</sup>
ASTM F963-16 Clause 4.3.5.2 (2) (a) Total Lead in Substrate	PASS <sup>#4</sup>
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Substrate Materials]	PASS <sup>#4</sup>
ASTM F963-16 Clause 4.3.5.2 (2) (c) Soluble Cadmium in metallic small part	NOT APPLICABLE <sup>#1</sup>
Consumer Product Safety Improvement Act of 2008 Total Phthalate Requirement	PASS <sup>#2, #5</sup>

### CANADA:

Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Physical And Mechanical Requirements	PASS
Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Flammability Requirements (Cellulose Nitrate And Celluloid)	PASS
Flammability Requirements For Textile Fibres: SOR/2016-194	NOT APPLICABLE <sup>#1</sup>
Canada Toys Regulations SOR/2011-17 and Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Heavy Metal Content Requirements	PASS <sup>#3, #5</sup>
Canada Phthalates regulations SOR 2016-188	PASS <sup>#2, #5</sup>
Canada Consumer Products Containing Lead (Contact mouth) regulation	PASS <sup>#3, #4, #5</sup>

### AU:

AS/NZS 8124.1:2016 Physical & Mechanical Requirements	PASS
AS/NZS ISO 8124.2:2016 Flammability Requirements	PASS
Migration Of Certain Elements : AS/NZS ISO 8124.3:2012/Amdt 1:2016	PASS <sup>#2, #4, #5</sup>
DEHP requirement per Australia Government	PASS <sup>#2, #5</sup>

### EU:

EN 71-1:2014 Mechanical & Physical Properties	PASS
EN 71-2:2011 + A1:2014 Flammability	PASS
EN 71-3:2013+A1:2014 Migration of Certain Elements	PASS <sup>#2, #4, #5</sup>
Total Cadmium Content and European Reach Regulation Annex XVII	PASS <sup>#2, #5</sup>
Total Phthalate Content European Reach Regulation Annex XVII	PASS <sup>#2, #5</sup>
Azo Dyes Test and European Reach Regulation Annex XVII	NOT APPLICABLE <sup>#1</sup>

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REPORT NO: C81591755  
DATE: August 8, 2017

- #1: There is no component on the submitted test samples under the testing scopes.
- #2: As claimed by client, the sample 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 and 22 listed in the report is identical with the one in report C82071667. The test data of sample 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 and 22 in the report was referred from report C82071667 issued on November 28, 2016.
- #3: As claimed by client, the sample 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 and 22 listed in the report is identical with the one in report C82071666. The test data of sample 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 and 22 in the report was referred from report C82071666 issued on November 28, 2016.
- #4: As claimed by client, the sample 27 and 28 listed in the report is identical with the one in report C82231639. The test data of sample 27 and 28 in the report was referred from report C82231639 issued on February 21, 2017.
- #5: As claimed by client, the sample 23 and 24 listed in the report is identical with the one in report C81611772. The test data of sample 23 and 24 in the report was referred from report C81611772 issued on August 3, 2017.

For and on behalf of :  
UL VS Shanghai Limited Shenzhen Branch

*David Mo*

*Lulu Yang*

David Mo  
Assistant Manager- Toys Department

Lulu Yang  
Senior Technical Officer  
Chemical Department

**Important Notes :**

- The results only relate to the samples tested.  
**The below tests are except from the ILAC-MRA/CNAS accreditation scope:**
1. Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Physical And Mechanical Requirements
  2. Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Flammability Requirements (Cellulose Nitrate And Celluloid)

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REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 1. USA

#### 1.1 MECHANICAL AND PHYSICAL TEST

##### 1.1.1 AS PER ASTM STANDARD CONSUMER SAFETY SPECIFICATION FOR TOYS SAFETY F963-16

The following clauses are identified to be applicable:

Age grading for testing : Ages 1+  
Samples Quantity : 6 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material(visual check on cleanness)	P
4.6	Small Objects	P
4.7	Accessible Edges	P
4.9	Accessible Points	P
4.11	Nails And Fasteners	P
4.32	Certain Toys With Nearly Spherical Ends	P
5	Safety Labeling Requirements	P
6	Instructional Literature	P
7	Producer's Markings	P

Remark: P = Pass

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REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 1.1.2 AS PER 16 CFR 1500.50, THE HAZARDS OF SHARP POINTS, SHARP EDGE AND SMALL PARTS ARE ASSESSED BOTH BEFORE AND AFTER APPLICABLE USE AND ABUSE \ TESTS:

The following clauses are identified to be applicable:

- Age grading for testing : Ages 1+
- Samples Quantity : 6 style (s) x 1 piece(s)

	<u>TEST ITEMS</u>	<u>SHARP POINT</u> (1500.48)	<u>SHARP EDGE</u> (1500.49)	<u>(SMALL PART)</u> (1501)
	As received	P	P	P
1500.53	Impact Test	P	P	P
1500.53	Torque Test	P	P	P
1500.53	Tension Test	P	P	P
1500.53	Compression	P	P	P
1500.52	Bite Test	P	P	P

Remark: P = Pass

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DATE: August 8, 2017

## TEST RESULTS

### 1.2 FLAMMABILITY TEST

#### 1.2.1 AS PER ASTM STANDARD ON SAFETY OF TOYS F963-16 ANNEX A5:

Samples Quantity: 6 style (s) x 1 piece(s)  
Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.

Results: The sample was tested to be ignited but extinguished.

#### 1.2.2 AS PER U.S. CODE OF FEDERAL REGULATIONS TITLE 16 PART 1500.44 FOR RIGID AND PLIABLE SOLIDS DEFINED UNDER 16 CFR 1500.3 SECTION (C) (6) (VI):

Samples Quantity: 6 style (s) x 1 piece(s)  
Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.

Results: The sample was tested to be ignited but extinguished.

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DATE: August 8, 2017

## TEST RESULTS

### 1.3 CHEMICAL TESTS:

#### 1.3.1 SOLUBLE ELEMENT MIGRATION IN SURFACE COATING

Requirement: As per ASTM F963-16 Clause 4.3.5.1 (2) requirement, materials under test shall not exceed below limit.

Test method Reference to ASTM F963-16 Clause 8.3, used acid extraction and analyzed by Inductively Coupled Argon Plasma Spectrometry.

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	6.0	<6.0	<6.0
Sample 3	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 4	<6.0	<2.5	<6.0	<6.0	<6.0	7.5	<6.0	<6.0
Sample 5	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 6	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 7	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 8	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 9	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 10	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 11	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 12	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 13	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 14	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 15	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 16	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 17	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 18	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 19	<6.0	<2.5	<6.0	<6.0	<6.0	6.5	<6.0	<6.0
Sample 20	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 21	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 22	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 23	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 24	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 25	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

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## TEST RESULTS

Remark:

- All concentrations expressed in milligrams per kilogram
- "<" means "less than"
- For sample 25, the sample weight used was 0.0530 gram per piece respectively.

### 1.3.2 SOLUBLE ELEMENT MIGRATION IN SUBSTRATES

Requirement: As per ASTM F963-16 Clause 4.3.5.2 (2) (b) requirement, materials under test shall not exceed below limit.

Test method Reference to ASTM F963-16 Clause 8.3, used acid extraction and analyzed by Inductively Coupled Argon Plasma Spectrometry.

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 26	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 27	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 28	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

Remark:

- All concentrations expressed in milligrams per kilogram
- "<" means "less than"
- For sample 26, the sample weight used was 0.0122 gram per piece respectively.

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REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 1.3.2 TOTAL LEAD CONTENT TEST: COATING

Requirement : As per ASTM F963-16 Clause 4.3.5.1 (1) requirement, lead content in the materials under test shall not exceed of 90ppm.

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results :

Total Lead	<u>Sample 2</u> <10.0	<u>Sample 3</u> <10.0	<u>Sample 4</u> 21.9	<u>Sample 5</u> <10.0	<u>Sample 6</u> <10.0
Total Lead	<u>Sample 7</u> <10.0	<u>Sample 8</u> <10.0	<u>Sample 9</u> <10.0	<u>Sample 10</u> <10.0	<u>Sample 11</u> <10.0
Total Lead	<u>Sample 12</u> <10.0	<u>Sample 13</u> <10.0	<u>Sample 14</u> <10.0	<u>Sample 15</u> <10.0	<u>Sample 16</u> <10.0
Total Lead	<u>Sample 17</u> <10.0	<u>Sample 18</u> <10.0	<u>Sample 19</u> <10.0	<u>Sample 20</u> <10.0	<u>Sample 21</u> <10.0
Total Lead	<u>Sample 22</u> <10.0	<u>Sample 23</u> <10.0	<u>Sample 24</u> <10.0	<u>Sample 25</u> <10.0	

All concentrations expressed in milligrams per kilogram  
“<” means “less than”

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SZ-FAF-001 (2013-04-10)



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CNAS L1114

# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 1.3.4 TOTAL LEAD CONTENT TEST: COATING

Criteria: The submitted samples must meet the Total Lead Limit of 90ppm as stated in 16 CFR 1303

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results:

Total Lead	<u>Sample 2</u> <10.0	<u>Sample 3</u> <10.0	<u>Sample 4</u> 21.9	<u>Sample 5</u> <10.0	<u>Sample 6</u> <10.0
Total Lead	<u>Sample 7</u> <10.0	<u>Sample 8</u> <10.0	<u>Sample 9</u> <10.0	<u>Sample 10</u> <10.0	<u>Sample 11</u> <10.0
Total Lead	<u>Sample 12</u> <10.0	<u>Sample 13</u> <10.0	<u>Sample 14</u> <10.0	<u>Sample 15</u> <10.0	<u>Sample 16</u> <10.0
Total Lead	<u>Sample 17</u> <10.0	<u>Sample 18</u> <10.0	<u>Sample 19</u> <10.0	<u>Sample 20</u> <10.0	<u>Sample 21</u> <10.0
Total Lead	<u>Sample 22</u> <10.0	<u>Sample 23</u> <10.0	<u>Sample 24</u> <10.0	<u>Sample 25</u> <10.0	

All concentrations expressed in milligrams per kilogram  
“<” means “less than”

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 1.3.5 TOTAL LEAD CONTENT TEST: COATING

Requirement : The submitted samples must meet the Total Lead Limit of 90ppm as per Consumer Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results:

Total Lead	<u>Sample 2</u> <10.0	<u>Sample 3</u> <10.0	<u>Sample 4</u> 21.9	<u>Sample 5</u> <10.0	<u>Sample 6</u> <10.0
Total Lead	<u>Sample 7</u> <10.0	<u>Sample 8</u> <10.0	<u>Sample 9</u> <10.0	<u>Sample 10</u> <10.0	<u>Sample 11</u> <10.0
Total Lead	<u>Sample 12</u> <10.0	<u>Sample 13</u> <10.0	<u>Sample 14</u> <10.0	<u>Sample 15</u> <10.0	<u>Sample 16</u> <10.0
Total Lead	<u>Sample 17</u> <10.0	<u>Sample 18</u> <10.0	<u>Sample 19</u> <10.0	<u>Sample 20</u> <10.0	<u>Sample 21</u> <10.0
Total Lead	<u>Sample 22</u> <10.0	<u>Sample 23</u> <10.0	<u>Sample 24</u> <10.0	<u>Sample 25</u> <10.0	

All concentrations expressed in milligrams per kilogram  
“<” means “less than”

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 1.3.6 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: As per ASTM F963-16 Clause 4.3.5.2 (2) (a) requirement, lead content in the materials under test shall not exceed of 100ppm.

Test method CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal ;  
CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal

Results :

	<u>Sample 26</u>	<u>Sample 27</u>	<u>Sample 29</u>	<u>Sample 30</u>
Total Lead	<10.0	<10.0	<10.0	<10.0

All concentrations expressed in milligrams per kilogram  
"<" means "less than"

### 1.3.7 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: The submitted samples must meet the Total Lead Limit of 100ppm as per Consumer Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal children's product (including children's metal jewelry);  
CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal children's products.

Results:

	<u>Sample 26</u>	<u>Sample 27</u>	<u>Sample 29</u>	<u>Sample 30</u>
Total Lead	<10.0	<10.0	<10.0	<10.0

All concentrations expressed in milligrams per kilogram  
"<" means "less than"

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 1.3.8 TOTAL PHTHALATE TEST

Requirement : DEHP, DBP or BBP content shall not be more than 0.1% by weight in toys and childcare article.  
DINP, DIDP or DNOP content shall not be more than 0.1% by weight in toys and childcare article which can be placed in the mouth by children.

Test Method : CPSC-CH-C1001-09.3, Standard operating procedure for determination of phthalates.

Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	ND	ND	ND	ND	ND	ND
Sample 4	ND	ND	ND	ND	ND	ND
Sample 5	ND	ND	ND	ND	ND	ND
Sample 6	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 8	ND	ND	ND	ND	ND	ND
Sample 9	ND	ND	ND	ND	ND	ND
Sample 10	ND	ND	ND	ND	ND	ND
Sample 11	ND	ND	ND	ND	ND	ND
Sample 12	ND	ND	ND	ND	ND	ND
Sample 13	ND	ND	ND	ND	ND	ND
Sample 14	ND	ND	ND	ND	ND	ND
Sample 15	ND	ND	ND	ND	ND	ND
Sample 16	ND	ND	ND	ND	ND	ND
Sample 17	ND	ND	ND	ND	ND	ND
Sample 18	ND	ND	ND	ND	ND	ND
Sample 19	ND	ND	ND	ND	ND	ND
Sample 20	ND	ND	ND	ND	ND	ND
Sample 21	ND	ND	ND	ND	ND	ND
Sample 22	ND	ND	ND	ND	ND	ND
Sample 23	ND	ND	ND	ND	ND	ND
Sample 24	ND	ND	ND	ND	ND	ND
Sample 25	ND	ND	ND	ND	ND	ND
Sample 26	ND	ND	ND	ND	ND	ND

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

Remarks: 1) Detection Limit for each phthalate = 0.005%  
2) ND= not detected

Key	:	DBP	= Di-butyl phthalate	DEHP	= Di (2-Ethylhexyl) phthalate
		BBP	= Benzyl butyl phthalate	DINP	= Di-“isonomy” phthalate
		DIDP	= Di-“isodecyl” phthalate	DNOP	= Di -n-octal phthalate

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 2. CANADA

#### 2.1 MECHANICAL AND PHYSICAL TEST

#### AS PER CANADA TOYS REGULATIONS SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATION SOR/2016-195 &SOR/2016-302

The following clauses are identified to be applicable:

Age grading for testing : Ages 1+  
Samples Quantity : 6 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
7	Small parts	P
8	Exposed Metal Edges	P
9	Ends	P
11	Exposed Wooden Surfaces, Edges And Corners	P
13	Fasteners	P

Remark: P = Pass

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 2.2 FLAMMABILITY TEST

#### 2.2.1 AS PER CANADA TOYS REGULATIONS SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATIONS SOR/2016-195 & SOR/2016-302 SECTION 21 (CELLULOSE NITRATE AND CELLULOID)

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except when used in varnish or paint) shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 2.3 CHEMICAL TESTS:

#### 2.3.1 HEAVY METAL CONTENT TEST: CANADA TOYS REGULATION SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATIONS SOR/2016-195 & SOR/2016-302

Requirement : Surface coating applied to Toys shall comply with heavy metal requirement as below table.

Results:

Elements	Total Lead	Total Mercury	Soluble Antimony	Soluble Arsenic	Soluble Barium	Soluble Cadmium	Soluble Selenium
Limits	< 90	None	< 1000	< 1000	< 1000	< 1000	< 1000
Sample 2	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 3	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 4	21.9	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 5	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 6	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 7	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 8	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 9	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 10	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 11	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 12	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 13	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 14	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 15	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 16	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 17	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 18	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 19	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 20	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 21	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 22	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 23	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 24	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 25	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0

All concentrations expressed in milligrams per kilogram

“<” means “less than”

“N/D” means “None Detected”

\*\*Detection Limit is 10.0 milligrams per kilogram.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 2.3.2 LEAD CONTENT IN PRODUCTS CONTACT WITH MOUTH

Criteria : The submitted sample shall meet Canada Consumer products containing lead (contact with mouth) regulation and shall not contain total lead content greater than 90 mg/Kg,

Method: Reference to Canada Product safety reference manual, Book 5, Part B, Method C-02.3 Determination for total lead in polyvinyl by closed-vessel microwave digestion and following by Atomic Absorption Spectrometry (AAS) analysis.

Results :

Total Lead	<u>Sample 2</u> <10.0	<u>Sample 3</u> <10.0	<u>Sample 4</u> 21.9	<u>Sample 5</u> <10.0	<u>Sample 6</u> <10.0
Total Lead	<u>Sample 7</u> <10.0	<u>Sample 8</u> <10.0	<u>Sample 9</u> <10.0	<u>Sample 10</u> <10.0	<u>Sample 11</u> <10.0
Total Lead	<u>Sample 12</u> <10.0	<u>Sample 13</u> <10.0	<u>Sample 14</u> <10.0	<u>Sample 15</u> <10.0	<u>Sample 16</u> <10.0
Total Lead	<u>Sample 17</u> <10.0	<u>Sample 18</u> <10.0	<u>Sample 19</u> <10.0	<u>Sample 20</u> <10.0	<u>Sample 21</u> <10.0
Total Lead	<u>Sample 22</u> <10.0	<u>Sample 23</u> <10.0	<u>Sample 24</u> <10.0	<u>Sample 25</u> <10.0	<u>Sample 26</u> <10.0
Total Lead	<u>Sample 27</u> <10.0	<u>Sample 28</u> <10.0	<u>Sample 29</u> <10.0	<u>Sample 30</u> <10.0	

All concentrations expressed in milligrams per kilogram  
"<" means "less than"

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SZ-FAF-001 (2013-04-10)



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国际互认  
检测  
TESTING  
CNAS L1114

# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 2.3.2 TOTAL PHTHALATE TEST: CANADA PHTHALATES REGULATION SOR 2016-188

- Criteria : The submitted sample shall comply with Canada phthalate regulation.  
DEHP, DBP and BBP: Vinyl used in Toy and child care article shall not contain more than 1000 mg/Kg of DEHP, DBP or BBP;  
DINP, DIDP and DNOP: Vinyl used in any part of toy and child care article that can, in reasonably foreseeable manner, be placed the mouth of child of 4 years of age shall not contain more than 1000 mg/Kg of DINP, DIDP or DNOP
- Method : Reference to Canada Product safety reference manual, Book 5, Part B, Method C-34, Determination of phthalates in polyvinyl chloride and following by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.
- Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	ND	ND	ND	ND	ND	ND
Sample 4	ND	ND	ND	ND	ND	ND
Sample 5	ND	ND	ND	ND	ND	ND
Sample 6	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 8	ND	ND	ND	ND	ND	ND
Sample 9	ND	ND	ND	ND	ND	ND
Sample 10	ND	ND	ND	ND	ND	ND
Sample 11	ND	ND	ND	ND	ND	ND
Sample 12	ND	ND	ND	ND	ND	ND
Sample 13	ND	ND	ND	ND	ND	ND
Sample 14	ND	ND	ND	ND	ND	ND
Sample 15	ND	ND	ND	ND	ND	ND
Sample 16	ND	ND	ND	ND	ND	ND
Sample 17	ND	ND	ND	ND	ND	ND
Sample 18	ND	ND	ND	ND	ND	ND
Sample 19	ND	ND	ND	ND	ND	ND
Sample 20	ND	ND	ND	ND	ND	ND
Sample 21	ND	ND	ND	ND	ND	ND
Sample 22	ND	ND	ND	ND	ND	ND

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CNAS L1114

# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 23	ND	ND	ND	ND	ND	ND
Sample 24	ND	ND	ND	ND	ND	ND
Sample 25	ND	ND	ND	ND	ND	ND
Sample 26	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%  
2) ND= not detected  
3) All concentrations expressed in milligrams per kilogram

Key : DBP = Dibutyl Phthalate DEHP = Di (2-Ethylhexyl) Phthalate  
BBP = Benzyl butyl Phthalate DINP = Di-“isononyl” phthalate  
DIDP = Di-“isodecyl” phthalate DNOP = Di -n-octyl phthalate

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 3. AUSTRALIA

#### 3.1 MECHANICAL AND PHYSICAL TEST

#### AS PER AUSTRALIAN/NEW ZEALAND STANDARD ON SAFETY OF TOYS AS/NZS 8124.1:2016 SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES

The following clauses are identified to be applicable:

Age grading for testing : Ages 1+  
Samples Quantity : 6 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Normal use	P
4.2	Reasonably foreseeable abuse	P
4.3	Material	P
4.4	Small parts	P
4.6	Edges	P
4.7	Points	P
ANNEX B	Safety labeling guidelines and manufacturer's markings	P

Remark: P = Pass

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 3.2 FLAMMABILITY TEST

#### AS PER AUSTRALIAN/NEW ZEALAND STANDARD ON SAFETY OF TOYS AS/NZS ISO 8124.2:2016 CLAUSE 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except when used in varnish or paint) shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 3.3 CHEMICAL TESTS:

#### 3.3.1 MIGRATION OF CERTAIN ELEMENTS : AS/NZS ISO 8124.3:2012/AMDT 1:2016

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 1	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	6.0	<6.0	<6.0
Sample 3	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 4	<6.0	<2.5	<6.0	<6.0	<6.0	7.5	<6.0	<6.0
Sample 5	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 6	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 7	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 8	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 9	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 10	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 11	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 12	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 13	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 14	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 15	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 16	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 17	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 18	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 19	<6.0	<2.5	<6.0	<6.0	<6.0	6.5	<6.0	<6.0
Sample 20	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 21	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 22	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 23	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 24	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 27	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 28	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

#### Remark:

1. Method for determination of each soluble element present
  - a) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium are determined by Inductively Coupled Plasma Optical Emission Spectroscopy.
2. For sample 1, the sample weight used was 0.0490 gram per piece respectively.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 3.3.2 DEHP Content

Criteria: Commonwealth of Australia Trade Practices Act 1974, Consumer Protection Notice No 6 of 2010 Special Gazette No S 19 (2 March 2010)

Method: CPSC-CH-C1001-09.3, Standard operating procedure for determination of phthalates.

Results:

Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	<u>Sample 2</u> ND	<u>Sample 3</u> ND	<u>Sample 4</u> ND	<u>Sample 5</u> ND
Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	<u>Sample 6</u> ND	<u>Sample 7</u> ND	<u>Sample 8</u> ND	<u>Sample 9</u> ND
Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	<u>Sample 10</u> ND	<u>Sample 11</u> ND	<u>Sample 12</u> ND	<u>Sample 13</u> ND
Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	<u>Sample 14</u> ND	<u>Sample 15</u> ND	<u>Sample 16</u> ND	<u>Sample 17</u> ND
Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	<u>Sample 18</u> ND	<u>Sample 19</u> ND	<u>Sample 20</u> ND	<u>Sample 21</u> ND
Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	<u>Sample 22</u> ND	<u>Sample 23</u> ND	<u>Sample 24</u> ND	<u>Sample 25</u> ND
Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	<u>Sample 26</u> ND			

Remarks: 1) Detection Limit for each phthalate = 0.005%  
2) ND= not detected

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 4. EU

#### 4.1 MECHANICAL AND PHYSICAL TEST

#### AS PER EUROPEAN STANDARDS ON SAFETY OF TOYS EN 71-1: 2014

The following clauses are identified to be applicable:

Age grading for testing : Ages 1+  
Samples Quantity : 6 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material Cleanliness	P
4.7	Edges	P
4.8	Points and metallic wires	P
5.1	General Requirements – Toys intended for children under 36 months	P

Remark: P = Pass

Warnings and safety instructions shall be written in the languages easily understood by consumers of the country in which the toy is to be sold. Only English version was reviewed.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 4.2 FLAMMABILITY TEST

**AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-2:2011+ A1:2014  
SECTION 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):**

Requirement: Celluloid (cellulose nitrate), except when used in varnish, paint or glue, or in balls of the type used for table tennis or similar games, and materials with the same behaviour in fire as celluloid, shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 4.3 CHEMICAL TESTS:

#### 4.3.1 ELEMENTS MIGRATION WITH REFERENCE TO 2009/48/EC AND ITS AMENDMENT

Test Method: EN71-3: 2013+A1:2014 Migration of certain elements

Results:

Elements <sup>1</sup>	Limits (Scraped off material)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Antimony	560	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5	<2.5
Barium	18750	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	17	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium III <sup>2</sup>	460	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium VI <sup>2</sup>	0.2	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>
Lead	160	<5.0	6.0	<5.0	7.5	<5.0
Mercury	94	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	70,000	<50	<50	<50	<50	<50
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	21.5	<5.0	<5.0	<5.0	<5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup> (Expressed as TBT)	12	--	--	--	--	--
Zinc	46,000	<50	5850.0	6500.0	6400.0	5250.0

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CNAS L1114

# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

Results:

Elements <sup>1</sup>	Limits (Scraped off material)	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
Antimony	560	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5	<2.5
Barium	18750	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	17	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium III <sup>2</sup>	460	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium VI <sup>2</sup>	0.2	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>
Lead	160	<5.0	<5.0	<5.0	<5.0	<5.0
Mercury	94	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	70,000	<50	70.0	<50	60.0	<50
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0	<5.0	<5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup> (Expressed as TBT)	12	--	--	--	--	--
Zinc	46,000	6750.0	5300.0	6650.0	7450.0	6300.0

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

Results:

Elements <sup>1</sup>	Limits	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15
	<u>(Scraped off material)</u>					
Antimony	560	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5	<2.5
Barium	18750	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	17	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium III <sup>2</sup>	460	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium VI <sup>2</sup>	0.2	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>
Lead	160	<5.0	<5.0	<5.0	<5.0	<5.0
Mercury	94	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	70,000	<50	<50	<50	<50	65.0
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0	<5.0	<5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12	--	--	--	--	--
(Expressed as TBT)						
Zinc	46,000	<50	6150.0	6700.0	<50	6100.0

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

Results:

Elements <sup>1</sup>	Limits	Sample 16	Sample 17	Sample 18	Sample 19	Sample 20
	<u>(Scraped off material)</u>					
Antimony	560	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5	<2.5
Barium	18750	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	17	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium III <sup>2</sup>	460	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium VI <sup>2</sup>	0.2	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>
Lead	160	<5.0	<5.0	<5.0	6.5	<5.0
Mercury	94	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	70,000	<50	55.0	<50	<50	125.0
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0	<5.0	<5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12	--	--	--	--	--
(Expressed as TBT)						
Zinc	46,000	6550.0	5800.0	5550.0	5950.0	6600.0

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

Results:

Elements <sup>1</sup>	Limits	Sample 21	Sample 22	Sample 23	Sample 24	Sample 27
	<u>(Scraped off material)</u>					
Antimony	560	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5	<2.5
Barium	18750	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	17	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium III <sup>2</sup>	460	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium VI <sup>2</sup>	0.2	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>
Lead	160	<5.0	<5.0	<5.0	<5.0	<5.0
Mercury	94	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	70,000	<50	60.0	<50	<50	<50
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0	<5.0	8.5
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12	--	--	--	--	--
(Expressed as TBT)						
Zinc	46,000	5800.0	6050.0	<50	<50	<50

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

Results:

Elements <sup>1</sup>	Limits (Scraped off material)	Sample 28
Antimony	560	<5.0
Arsenic	47	<2.5
Barium	18750	<5.0
Cadmium	17	<5.0
Chromium III <sup>2</sup>	460	<0.2
Chromium VI <sup>2</sup>	0.2	<0.2 <sup>Δ</sup>
Lead	160	<5.0
Mercury	94	<5.0
Selenium	460	<5.0
Aluminum	70,000	<50
Boron	15,000	<50
Cobalt	130	<5.0
Copper	7700	<50
Manganese	15,000	<5.0
Nickel	930	<5.0
Strontium	56,000	<5.0
Tin	180,000	<4.0
Organic Tin <sup>3</sup> (Expressed as TBT)	12	--
Zinc	46,000	<50

All concentrations expressed in milligrams per kilogram  
"<" means "less than"

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### REMARK:

1. Heavy Metals Content are Determined by ICP-MS (Induced Couple Plasma Mass Spectrometry) / ICP-OES (Induced Couple Plasma Optical Emission Spectroscopy)
2. If the chromium content of the tested sample does not exceed the limits of chromium III and/or chromium VI, it is deemed to comply on the respective migration requirements of chromium III and/or chromium VI under 2009/48/EC. Otherwise, the compliance on the migration requirements of the individual chromium III and/or chromium VI should be confirmed by further speciation techniques.  
# : The chromium VI content is determined by LC-ICP-MS
3. If the Organic Tin content of the tested sample projected by the tin content does not exceed the limit of organotin, it is deemed to comply on the respective migration requirement of Organic Tin under 2009/48/EC and market with “- -“. Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GCMS analysis with derivatisation
4. Δ : Chromium VI data is based on total Chromium
5. For sample 1, the sample weight used was 0.0490 gram per piece respectively.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 4.3.2 TOTAL CADMIUM CONTENT AND EUROPEAN REACH REGULATION ANNEX XVII: WET-ASHING DIGESTION AND DETECTED WITH AAS/ICP & MICROWAVE DIGESTION AND DETECTED WITH AAS/ICP

Results:

Element	Total Cadmium
Limit	< 100
Sample 2	<5.0
Sample 3	<5.0
Sample 4	<5.0
Sample 5	<5.0
Sample 6	<5.0
Sample 7	<5.0
Sample 8	<5.0
Sample 9	<5.0
Sample 10	<5.0
Sample 11	<5.0
Sample 12	<5.0
Sample 13	<5.0
Sample 14	<5.0
Sample 15	<5.0
Sample 16	<5.0
Sample 17	<5.0
Sample 18	<5.0
Sample 19	<5.0
Sample 20	<5.0
Sample 21	<5.0
Sample 22	<5.0
Sample 23	<5.0
Sample 24	<5.0
Sample 25	<5.0
Sample 26	<5.0

All concentrations expressed in milligrams per kilogram  
"<" means "less than"

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

### 4.3.3 TOTAL PHTHALATE TEST AND EUROPEAN REACH REGULATION ANNEX XVII

Test Method : EN 14372: 2004  
Requirement : DEHP, DBP & BBP content shall not be more than 0.1% by weight in toys and children article.  
DINP, DIDP & DNOP content shall not be more than 0.1% by weight in toys and children article that can be placed in the mouth by children.  
Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	ND	ND	ND	ND	ND	ND
Sample 4	ND	ND	ND	ND	ND	ND
Sample 5	ND	ND	ND	ND	ND	ND
Sample 6	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 8	ND	ND	ND	ND	ND	ND
Sample 9	ND	ND	ND	ND	ND	ND
Sample 10	ND	ND	ND	ND	ND	ND
Sample 11	ND	ND	ND	ND	ND	ND
Sample 12	ND	ND	ND	ND	ND	ND
Sample 13	ND	ND	ND	ND	ND	ND
Sample 14	ND	ND	ND	ND	ND	ND
Sample 15	ND	ND	ND	ND	ND	ND
Sample 16	ND	ND	ND	ND	ND	ND
Sample 17	ND	ND	ND	ND	ND	ND
Sample 18	ND	ND	ND	ND	ND	ND
Sample 19	ND	ND	ND	ND	ND	ND
Sample 20	ND	ND	ND	ND	ND	ND
Sample 21	ND	ND	ND	ND	ND	ND
Sample 22	ND	ND	ND	ND	ND	ND
Sample 23	ND	ND	ND	ND	ND	ND
Sample 24	ND	ND	ND	ND	ND	ND
Sample 25	ND	ND	ND	ND	ND	ND
Sample 26	ND	ND	ND	ND	ND	ND

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SZ-FAF-001 (2013-04-10)



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国际互认  
检测  
TESTING  
CNAS L1114

# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C81591755  
DATE: August 8, 2017

## TEST RESULTS

Remarks: 1) Detection Limit for each phthalate = 0.005%  
2) ND = not detected

Key	:	DBP	= Di-butyl phthalate	DNOP	= Di-n-octyl phthalate
		BBP	= Butyl-benzyl phthalate	DINP	= Di-iso-nonyl phthalate
		DEHP	= Di-(2-ethyl-hexyl) phthalate	DIDP	= Di-iso-decyl phthalate

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## TEST RESULTS

### Key to sample(s):

- Sample 1 = White paper label with multicolor coatings (sticker on board of all styles)
- Sample 2 = Bright red coating (A1Y) (logo & pattern of all styles)
- Sample 3 = Dark green coating (A5)(logo & pattern of all styles)
- Sample 4 = Dark blue coating (A7)(logo & pattern of all styles)
- Sample 5 = Clear lacquer coating (A21)(board of all styles)
- Sample 6 = Orange coating (A2Y) (pattern of MK09920 & MK09937 & MK09944 &MK09951)
- Sample 7 = Light yellow coating (A3Y) (pattern of MK09906 & MK09920 & MK09944 & MK09951)
- Sample 8 = Dark yellow coating (A4Y) (pattern of all styles)
- Sample 9 = Light green coating (A6Y) (pattern of all styles)
- Sample 10 = Light blue coating (A8Y) (pattern of all styles)
- Sample 11 = Light brown coating (A9Y) (pattern of MK09913 & MK09920 & MK09944 & MK09951)
- Sample 12 = Dark brown coating (A10Y) (pattern of MK09913 & MK09920 & MK09944 & MK09951)
- Sample 13 = Purple coating (A11Y) (pattern of MK09913 & MK09937 & MK09951)
- Sample 14 = Dark red coating (A12Y) (pattern of MK09913 & MK09920 & MK09944 & MK09937)
- Sample 15 = Pink coating (A13Y) (pattern of MK09906 & MK09913)
- Sample 16 = Beige coating (A14Y) (pattern of MK09913 & MK09920)
- Sample 17 = Grey coating (A15Y) (pattern of MK09913 & MK09920 & MK09944)
- Sample 18 = White coating (A16Y) (pattern of MK09913 & MK09920 & MK09944 & MK09944 & MK09951)
- Sample 19 = Orange coating (A17Y) (pattern of MK09951)
- Sample 20 = Light pink coating (A18Y) (pattern of MK09913 & MK09920)
- Sample 21 = Black coating (A19Y) (pattern of MK09913 & MK09920 & MK09944 & MK09944)
- Sample 22 = Dark grey coating (A22Y) (pattern of MK09937)
- Sample 23 = Dark purple coating (276C) (A23Y) (MK09937 & MK09951)
- Sample 24 = Light purple coatings (268C) (A24Y) (MK09951)
- Sample 25 = Multicolor coatings (sticker on board of all styles)
- Sample 26 = White paper label (sticker on board of all styles)
- Sample 27 = Beige plywood (board & puzzle of all styles)
- Sample 28 = Brown wood (puzzle of all styles)
- Sample 29 = Silvery metal (screw on puzzle of MK09920)
- Sample 30 = Light silvery metal (screw on puzzle of MK09944 & MK09913 & MK09937 & MK09906 & MK09951)

Date(s) of test(s) conducted: July 24, 2017 to August 4, 2017

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## Product Photo:



\*\*\*\*\* THE END \*\*\*\*\*

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APPENDIX 1 - TERMS AND CONDITIONS OF SERVICE / 附件一：服务所依据的条款和条件

UL VS Shanghai Limited-Shenzhen Branch ("UL VS") undertakes to provide services to its Customer subject to the terms and conditions contained herein. 优力胜邦质量检测 (上海)有限公司深圳分公司 ("乙方") 承诺根据以下所列的条款向客户 ("甲方") 提供服务。

The term of limitation of liability contained herein has been conspicuously marked to draw the attention of the Customer, the full and complete explanation of the wording and legal significance of this term have been made to the Customer by UL VS. The Customer agrees that this term shall be construed as a provision of the agreement between UL VS and itself, based on the full and complete understanding of the wording and legal significance of this term. 乙方对本附件第四条已经做出了明显的标识以提示甲方注意, 并且对该条款的文字表述和法律意义, 向甲方做出了充分和完整的解释。甲方已经仔细阅读了本附件第四条, 对其文字表述和法律意义已经充分和完整地理解, 在此基础上甲方表示同意该条款当然成为甲乙双方之间的一项约定。

COMPUTATION OF CHARGES AND PAYMENT 第一条 费用计算和付款

- 1.1. (a) Consultation time shall be charged on a daily basis. (b) Where the personnel of UL VS are assigned by its Customer to any in-house projects, the Customer shall be billed on an hourly basis on the compensation rates of its personnel. 1.2. Disbursements incurred on the Customer's behalf such as expenditure for communications, transportation, travel, the purchase of any materials, tools, equipment, components or parts which are directly related to the service shall be billed at costs and shall include a reasonable handling charge at the discretion of UL VS. 1.3. Where in the opinion of UL VS the services are time consuming entailing the use of special equipment and disbursements, the Customer shall be charged on an "equipment-hour" basis on the spot. 1.4. Payments shall be made in RMB at its address or at such other address and in such manner as UL VS may from time to time specify. 1.5. The Customer undertakes during the continuance of this Agreement: (a) to punctually pay all billings rendered to the customer from time to time; (b) unless otherwise agreed in writing, payment is to be made within 7 days from the date of Invoice or the date of the Debit Note; (c) where the Customer fails to pay within time, UL VS shall charge interest on overdue invoices at the rate of 2% per month or 24% per annum until payment, such interest to run from day to day and to accrue after as well as before any judgment and is to be compounded at monthly intervals; (d) UL VS shall have a lien on any goods of the Customer until payment but the exercise of such lien shall not prevent interest continuing. 1.6. If the Customer shall fail to pay UL VS for any reason under Clause 1.5 or if the Customer shall commit a breach of any of its obligation under this Agreement or if a receiver of the Customer is appointed or if any resolution or petition to wind up the Customer's business shall be passed or presented (except for the purpose of reconstruction), UL VS may without prejudice to its other rights either suspend or cancel the Agreement and in such an event UL VS may also suspend or cancel any other existing contracts without being liable to damages.

CONFIDENTIAL TREATMENT OF INFORMATION 第二条 信息的保密处理

- 2.1. Unless otherwise specifically agreed between the parties, the services rendered by UL VS to the Customer shall be on a non-exclusive best-efforts basis. 2.2. Information disclosed by UL VS to the Customer, whether contained in models, drawings, reproductions of drawings, written reports, letters, memoranda or notes or in any other form shall be kept strictly confidential by UL VS for the purposes of this information. 2.3. UL VS undertakes that the identity of its Customers and the nature of services rendered shall be kept confidential unless the Customer agrees in writing to their release. 乙方承诺对其甲方的身份和所提供服务的性质保密, 除非甲方书面同意揭露。

PATENT RIGHTS 第三条 专利权

- 3.1. Any invention made in the performance of work for the Customer by UL VS within the field of work undertaken for the Customer, belongs to the Customer. 3.2. UL VS's of the aforesaid inventions shall be free of any royalty fees provided that the uses of such inventions are confined to the performance of the work for the Customer.

LIMITATION OF LIABILITY 第四条 责任限制

- 4.1. If any liability on the part of UL VS shall arise (whether under the express or implied terms hereof or under the relevant Chinese laws and regulations) in contract, tort or infringement, the Customer's right to recover damages for any loss of whatever nature caused by the fault or negligence of UL VS or by any breach of its obligations or howsoever caused shall be limited to the payment by UL VS of the amount of the contract price under this Agreement and the said limitation of liability shall apply regardless of the form of action, whether in contract, tort, infringement or otherwise. 5.1. In the event of actual or threatened suit against UL VS in relation to the services undertaken on behalf of the Customer or in relation to any of the Products or Patent of the Customer or of any allegation of infringement of any letters patent, registered design, trade mark or trademark, the Customer shall indemnify UL VS harmless from any liability, action, claim, demand, costs, charges and expenses arising therefrom or from or arising including solicitors fees, counsel's fees in defending such action. 乙方要求赔偿因乙方的故意过失或违反其任何义务或其他原因造成的损失, 应当限于根据本协议项下甲方支付给乙方的合同价格的数额。

INDEMNITY 第五条 补偿

- 5.1. In the event of actual or threatened suit against UL VS in relation to the services undertaken on behalf of the Customer or in relation to any of the Products or Patent of the Customer or of any allegation of infringement of any letters patent, registered design, trade mark or trademark, the Customer shall indemnify UL VS harmless from any liability, action, claim, demand, costs, charges and expenses arising therefrom or from or arising including solicitors fees, counsel's fees in defending such action. 乙方应当赔偿乙方, 以便其免受任何因此而产生的责任、诉讼、索赔、催告、催告、开支、收费和费用或抗辩此等行为的费用。

SOLICITATION OF EMPLOYEES 第六条 雇员引诱

- 6.1. It is mutually agreed that neither party shall solicit the employees of the other for employment or hire unless prior written consent to do so is obtained. 双方同意除非得到事先书面同意, 任何一方均不得引诱雇员或聘用另一方的雇员。

EFFECT OF PROPOSAL 第七条 建议书的效力

- 7.1. The accompanying proposal is valid for a period of ninety (90) days from the date of the proposal unless extended in writing by UL VS. Upon the acceptance of such proposal, this appendix shall form part of the Agreement with the Customer and notwithstanding any prior discussions or prior oral or written agreements to the contrary, the terms and conditions herein shall be applicable and take precedence over any conflicting terms contained in any documents submitted by the Customer.

DATA AND DOCUMENT RETENTION 第八条 数据和文件保留

- 8.1. (a) After the services are rendered, UL VS may retain a copy of all documents relating to the services ("Supporting Documents") for as long as UL VS, in its sole discretion, deems fit. (b) Unless otherwise specified or required by the applicable law, all Supporting Documents over 3 years of age will be automatically destroyed by UL VS without notice to the Customers. (c) The Customer shall indemnify UL VS for any costs or expenses in responding to or opposing any subpoena, the production of any documents in Court seeking the disclosure of the said documents or any information contained therein.

GOVERNING LAW 第九条 适用法律

- 9.1. This Agreement and the rights and obligations of the parties shall in all respects be governed, construed, interpreted and operated in accordance with the relevant Chinese laws and regulations. 本协议和双方的权利义务在各方面都应当由中国的法律法规管辖、推解、解释和执行。

OBLIGATIONS OF THE CUSTOMER 第十条 甲方的义务

- 10.1. If the Customer intends to change the work hereunder or assign any other work to UL VS, such a change or new assignment shall be subject to a separate negotiation and agreement between both of the parties. 10.2. If the work undertaken by UL VS hereunder requires any assistance of the Customer, the Customer shall be obliged to provide all necessary and reasonable assistance which UL VS may deem fit.

SAMPLES 第十一条 样品

- 11.1. UL VS expects Customers to abide by all applicable regulations when shipping samples to UL VS. Improper shipping may result in additional charges for costs incurred by UL VS: (a) to identify samples to UL VS, (b) damage done to UL VS personnel or property as a result of improper packaging, labeling or omission of identifying documents. 11.2. 乙方期望客户能够遵循所有适用的规定把样品寄送给乙方。

E-MAIL DISCLAIMER 第十二条 电子邮件免责声明

- 12.1. UL VS shall follow the request of the Customer in the event that final report / results hereunder shall be sent by e-mail rather than by paper hard copy. 12.2. If the Customer wishes to modify any of the report / results hereunder shall be sent by e-mail rather than by paper hard copy, UL VS reserves the right to intercept of messages and reports / results by third parties. 13.1. Any provision of this Agreement prohibited by or regarded as unlawful or unenforceable under any applicable law actually applied by any court of competent jurisdiction shall, to the extent required by such law, be severed by this Agreement and rendered ineffective so far as it is possible without modifying the remaining provisions of the agreement.

MISCELLANEOUS PROVISIONS 第十三条 其他规定

- 13.1. Any provision of this Agreement prohibited by or regarded as unlawful or unenforceable under any applicable law actually applied by any court of competent jurisdiction shall, to the extent required by such law, be severed by this Agreement and rendered ineffective so far as it is possible without modifying the remaining provisions of the agreement. 13.2. A certificate signed by any officer of UL VS as to the amount due from the Customer hereunder at the date of such certificate shall, in the absence of manifest error, be conclusive evidence of the amount due. 13.3. Nothing in this Agreement shall be considered to form a partnership between the parties. 13.4. Save as herein otherwise provided any notice required to be given hereunder shall be sufficiently given if given in writing or by telegram or text to the last known postal address or any other address and every notice shall be deemed to have been received and given at the time when in the course of transmission it should have been delivered at the address or telex number to which it was sent. 13.5. The report or certificate does not relieve sellers/suppliers from their contractual responsibility with regards to the quality/quantity of this delivery nor does it prejudice Customer's right to claim towards sellers/suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit.