



CLIENT:Carpenters Manufactory LimitedREPORT NO:C81451594ADDRESS:Huang Jin Ji Industrial Zone, Shang Jie Village, QiShiDATE:December 18, 2015Town, DongGuan City, Guang Dong, ChinaDATE:December 18, 2015

Kelly Xiong Attn: Sample Description: Chunky Puzzle - Farm Animals / Chunky Puzzle - Transportation / Chunky Puzzle Fruits / Chunky Puzzle- Insects / Chunky Puzzle - Animals / Chunky Puzzle - Vegetables / Chunky Puzzle - Sea Creatures / Chunky Puzzle - Dinosaurs / Chunky Puzzle - Construction Site / Chunky Puzzle - Circus **Quantity Submitted:** 2 pieces x 10 styles Supplier: Carpenters Manufactory Limited Buyer: Not provided Style/Item No.: MK03119/ MK02167/ MK03133/ MK02181/ MK02198/ MK02204/ MK02211/ MK03188/ MK02235/ MK03201 P.O. No.: Not provided Labeled Age Grading: 1y+Global Destination: Country of Origin: China Date(s) of samples received: March 27, 2015 (p.m.)& December 17, 2015

TEST METHOD & RESULTS: CONCLUSION:

Please refer to next page(s) Please refer to page two(2)

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#### **CONCLUSION:**

ASTM F963-11 Physical & Mechanical Requirements	PASS <sup>#6</sup>
16 CFR 1500&1501 Physical & Mechanical Requirements	PASS <sup>#6</sup>
Canada Toys Regulations SOR/2011-17 Physical and Mechanical Requirements	PASS <sup>#6</sup>
EN 71-1:2014 Mechanical & Physical Properties	PASS <sup>#6</sup>
AS/NZS ISO 8124.1:2013 Physical & Mechanical Requirements	PASS
ASTM F963-11 Flammability Requirements	PASS <sup>#6</sup>
16 CFR 1500.3 (c)(6) (vi) / 16 CFR 1500.44 Flammability Requirements	PASS <sup>#6</sup>
Canada Toys Regulations SOR/2011-17 Flammability Requirements	PASS <sup>#6</sup>
(Cellulose Nitrate and Celluloid)	
EN 71-2:2011 + A1:2014 Flammability	PASS <sup>#6</sup>
AS/NZS ISO 8124.2:2009 Flammability Requirements	PASS
ASTM F963-11 Clause 4.3.5.1 (2) Elements Migration in Surface Coating	PASS <sup>#2, 4, 6</sup>
ASTM F963-11 Clause 4.3.5.2 (2) (b) Elements Migration in Substrate	PASS <sup>#6</sup>
Canada Toys Regulations SOR/2011-17 Heavy Metal Content Requirements	PASS <sup>#1, 5, 6</sup>
EN 71-3:2013+A1:2014 Migration of Certain Elements	PASS <sup>#2, 4, 6</sup>
AS/NZS ISO 8124.3:2012 Migration of Certain Elements	PASS <sup>#2, 4</sup>
ASTM F963-11 Clause 4.3.5.1 (1) Total Lead in Surface Coating	PASS <sup>#1, 5, 6</sup>
16 CFR 1303 Total Lead Content Requirements	PASS <sup>#1, 5, 6</sup>
Consumer Product Safety Improvement Act of 2008 Total Lead Content	PASS <sup>#1, 5, 6</sup>
Requirement [Paint or Surface Coating]	
ASTM F963-11 Clause 4.3.5.2 (2) (a) Total Lead in Substrate	PASS <sup>#6</sup>
Consumer Product Safety Improvement Act of 2008 Total Lead Content	$PASS^{\#6}$
Requirement [Substrate Materials]	
Canada Consumer Products Containing Lead (Contact mouth) Regulation	PASS <sup>#6</sup>
ASTM F963-11 Clause 4.3.5.2 (2) (c) Soluble Cadmium in metallic Small Part	NOT APPLICABLE <sup>#3, 6</sup>
Total Cadmium Content and European Reach Regulation Annex XVII	PASS <sup>#2, 4, 6</sup>
Consumer Product Safety Improvement Act of 2008 Total Phthalate Requirement	PASS <sup>#2, 4, 6</sup>
Canada Phthalates Regulation SOR/2010-298 Phthalates Content Requirements	$PASS^{#2, 4, 6}$
Total Phthalate Content European Reach Regulation Annex XVII	$PASS^{#2, 4, 6}$
DEHP requirement per Australia Government	PASS <sup>#2, 4</sup>
Azo Dyes Test and European Reach Regulation Annex XVII	NOT APPLICABLE <sup>#3, 6</sup>

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





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#1: As claimed by client, the sample 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 listed in the report is identical with the one in report C80781476. The test data of sample 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 in the report was referred from report C80781476 issued on October 23, 2014.

#2: As claimed by client, the sample 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 listed in the report is identical with the one in report C80781475. The test data of sample 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 in the report was referred from report C80781475 issued on November 6, 2014

#3: There is no component on the submitted test samples under the testing scopes.

#4: As claimed by client, the sample 2 listed in the report is identical with the one in report C80861485. The test data of sample 2 in the report was referred from report C80861485 issued on November 20, 2014.

#5: As claimed by client, the sample 2 listed in the report is identical with the one in report C80861489. The test data of sample 2 in the report was referred from report C80861489 issued on November 20, 2014.

#6: As per client's request, the test results refer to the ones in previous report C80221521 issued on April 13, 2015

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

Benson Ye Assistant Laboratory Manager – Toys Department

**Important Notes**: The results only relate to the samples tested.

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Ms. Carol Ke Laboratory manager-Chemical Department

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#### TEST RESULTS

#### 1. MECHANICAL AND PHYSICAL TEST

## 1.1 AS PER ASTM STANDARD CONSUMER SAFETY SPECFICATION FOR TOYS SAFETY F963-11

The following clauses are identified to be applicable:Age grading for testing: Ages 1+Samples Quantity: 10 style (s) x 1 piece(s)

Clause	<u>Test Items</u>	Assessment
4.1	Material(visual check on cleanness)	Р
4.6	Small Objects	Р
4.7	Accessible Edges	Р
4.9	Accessible Points	Р
5	Safety Labeling Requirements	Р
6	Instructional Literature	Р
7	Producer's Markings	Р

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#### **TEST RESULTS**

# 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: 10 style (s) x 1 piece(s)

	TEST ITEMS	SHARP POINT	SHARP EDGE	SMALL PART
		(1500.48)	(1500.49)	(1501)
	As received	Р	Р	Р
1500.51	Impact Test	Р	Р	Р
1500.53	Torque Test	Р	Р	Р
1500.53	Tension Test	Р	Р	Р
1500.53	Compression	Р	Р	Р
1500.52	Bite Test	Р	Р	Р

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#### **TEST RESULTS**

#### 1.3 AS PER CANADA TOYS REGULATIONS, SOR/2011-17

The following clauses are identified to be applicable:					
Age grading for testing : Ages 1+					
Samples Quantity	: 10 style (s) x 1 piece(s)				

<u>Clause</u>	<u>Test Items</u>	Assessment
7	Small parts	Р
9	Ends	Р
11	Exposed Wooden Surfaces, Edges And Corners	Р

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

5





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#### TEST RESULTS

#### 1.4 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	: 10 style (s) x 1 piece(s)			

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

Remark: P = Pass

Address of manufacturer or his authorized representatives or importer should be located in EU community.

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 RESULTS**

## 1.5 AS PER INTERNATIONAL STANDARD ON SAFETY OF TOYS AS/NZS ISO 8124.1:2013 SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES.

The following clauses are identified to be applicable:Age grading for testing: Ages 1+Samples Quantity: 10 style (s) x 1 piece(s)

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

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#### TEST RESULTS

#### 2. FLAMMABILITY TEST

#### 2.1 AS ASTM STANDARD ON SAFETY OF TOYS F963-11 ANNEX A5:

Samples Quantity:10 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.

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:10 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.

#### 2.3 AS PER CANADA TOYS REGULATIONS SOR/2011-17 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.

#### 2.4 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.

## 2.5 AS PER AUSTRALIAN/NEW ZEALAND STANDARD ON SAFETY OF TOYS AS/NZS ISO 8124.2:2009 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.

#### Date(s) of test(s) conducted: March 27, 2015 to March 31, 2015 December 17, 2015 to December 17, 2015

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#### **TEST RESULTS**

#### **3.** CHEMICAL TESTS:

Key to sample(s):

Sample 1	=	Brown fiberboard excluding coatings (puzzle of all styles)
Sample 2	=	Orange-red coating on plywood/fiberboard (A1Y) (pattern on puzzle of all styles except MK03119)
Sample 3	=	Orange coating on fiberboard (A2Y) (pattern on puzzle of all styles)
Sample 4	=	Light yellow coating on fiberboard (A3Y) (pattern on puzzle of all styles except MK02181& MK02211)
Sample 5	=	Dark yellow coating on fiberboard (A4Y) (pattern on puzzle of MK03313& MK03119)
Sample 6	=	Dark green coating on fiberboard/plywood (A5Y) (pattern on puzzle of all styles)
Sample 7	=	Light green coating on fiberboard (A6Y) (pattern on puzzle of MK02167& MK03133& MK02181& MK02204& MK02211& MK03188& MK03201)
Sample 8	=	Dark blue coating on fiberboard (A7Y) (pattern on puzzle of MK03119& MK03188)
Sample 9	=	Light blue coating on fiberboard (A8Y) (pattern on puzzle of MK02167&
		MK02181& MK03119& MK02211& MK03188& MK03201)
Sample 10	=	Light brown coating on fiberboard (A9Y) (pattern on puzzle of MK02198& MK03133& MK02181& MK03119)
Sample 11	=	Dark brown coating on fiberboard (A10Y) (pattern on puzzle of MK02235)
Sample 12	=	Purple coating on fiberboard (A11Y) (pattern on puzzle of MK02167& MK02204& MK02211& MK03188& MK03201)
Sample 13	=	Pink coating on fiberboard (A13Y) (pattern on puzzle of MK02198& MK02167& MK02181)
Sample 14	=	Grey coating on fiberboard (A15Y) (pattern on puzzle of MK02198& MK03201)
Sample 15	=	White coating on fiberboard (A16Y) (pattern on puzzle of MK02198& MK02167& MK03119& MK02211& MK03188& MK02235&MK03201)
Sample 16	=	Light pink coating on fiberboard (A18Y) (pattern on puzzle of MK02198& MK02181& MK03119)
Sample 17	=	Black coating on fiberboard (A19Y) (pattern on puzzle of MK02198& MK03119)
Sample 18	=	Clear lacquer coating on plywood(A21Y) (board of all styles)
Sample 19	=	Beige plywood excluding coatings (board of all styles)

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CLIENT:Carpenters Manufactory LimitedREPORT NO:C81451594ADDRESS:Huang Jin Ji Industrial Zone, Shang Jie Village, QiShiDATE:December 18, 2015Town, DongGuan City, Guang Dong, ChinaDATE:December 18, 2015

#### **TEST RESULTS**

#### 3.1 SOLUBLE ELEMENT MIGRATION IN SURFACE COATING

- Requirement: As per ASTM F963-11 Clause 4.3.5.1 (2) requirement, materials under test shall not exceed below limit.
- Test method: Reference to ASTM F963-11 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	17.0	< 6.0	< 6.0	< 6.0	< 6.0	<6.0
Sample 5	< 6.0	<2.5	15.0	< 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	17.0	< 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

#### Remark:

- 1. All concentrations expressed in milligrams per kilogram
- 2. "<" means "less than"

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CLIENT:Carpenters Manufactory LimitedREPORT NO:C81451594ADDRESS:Huang Jin Ji Industrial Zone, Shang Jie Village, QiShiDATE:December 18, 2015Town, DongGuan City, Guang Dong, ChinaDATE:December 18, 2015

#### **TEST RESULTS**

#### 3.2 SOLUBLE ELEMENT MIGRATION IN SUBSTRATES

- Requirement: As per ASTM F963-11 Clause 4.3.5.2 (2) (b) requirement, materials under test shall not exceed below limit.
- Test method: Reference to ASTM F963-11 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 1	< 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	< 6.0	< 6.0	< 6.0

#### Remark:

1. All concentrations expressed in milligrams per kilogram

2. "<" means "less than"

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#### **TEST RESULTS**

#### 3.3 HEAVY METAL CONTENT TEST :CANADA TOYS REGULATION SOR/2011-17

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

Results:

100001000							
	Total	Total	Soluble	Soluble	Soluble	Soluble	Soluble
Elements	Lead	Mercury	Antimony	Arsenic	Barium	Cadmium	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	<10.0	**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

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 RESULTS**

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

Test Method: EN71-3: 2013 Migration of certain elements

Results:						
Elements <sup>1</sup>	<u>Limits</u>	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
	(Scraped off material)		-		-	-
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	6.0	< 5.0	< 5.0	17.0	15.0
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	${<}0.2^{\scriptscriptstyle\Delta}$	${<}0.2^{\scriptscriptstyle\Delta}$	${<}0.2^{\scriptscriptstyle\Delta}$	${<}0.2^{\Delta}$	${<}0.2^{\scriptscriptstyle\Delta}$
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	112.5	<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	78.5	< 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	<50	<50	<50	<50
	,					

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#### TEST RESULTS

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Results:						
Elements <sup>1</sup>	Limits	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10
	(Scraped off material)	•	•		•	•
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	17.0	< 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	${<}0.2^{\scriptscriptstyle\Delta}$	${<}0.2^{\Delta}$	${<}0.2^{\Delta}$	${<}0.2^{\scriptscriptstyle\Delta}$	${<}0.2^{\Delta}$
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	54.0	59.5	<50	<50	52.5
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	<50	<50	<50	<50
	,	.2 0	.2 0	.2 0		.50

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#### TEST RESULTS

Degulter

Results:						
Elements <sup>1</sup>	Limits	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15
	(Scraped off material)	-	-	-	-	-
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	${<}0.2^{\scriptscriptstyle\Delta}$	${<}0.2^{\Delta}$	${<}0.2^{\Delta}$	${<}0.2^{\scriptscriptstyle\Delta}$	${<}0.2^{\Delta}$
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	87.0	61.5	<50	141.5
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	<50	<50	<50	<50

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#### TEST RESULTS

Results:					
Elements <sup>1</sup>	Limits	Sample 16	Sample 17	Sample 18	Sample 19
	(Scraped off material)	_	_	_	_
Antimony	560	<5.0	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5
Barium	18750	< 5.0	< 5.0	< 5.0	<5.0
Cadmium	17	< 5.0	< 5.0	< 5.0	<5.0
Chromium III <sup>2</sup>	460	< 0.2	< 0.2	< 0.2	0.845
Chromium VI <sup>2</sup>	0.2	${<}0.2^{\scriptscriptstyle\Delta}$	${<}0.2^{\scriptscriptstyle\Delta}$	${<}0.2^{\Delta}$	< 0.2
Lead	160	< 5.0	< 5.0	< 5.0	<5.0
Mercury	94	< 5.0	< 5.0	< 5.0	<5.0
Selenium	460	< 5.0	< 5.0	< 5.0	<5.0
Aluminum	70,000	<50	<50	<50	155.0
Boron	15,000	<50	<50	<50	<50
Cobalt	130	< 5.0	< 5.0	< 5.0	<5.0
Copper	7700	<50	<50	<50	<50
Manganese	15,000	< 5.0	< 5.0	< 5.0	6.0
Nickel	930	< 5.0	< 5.0	< 5.0	<5.0
Strontium	56,000	< 5.0	< 5.0	< 5.0	7.5
Tin	180,000	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12				
(Expressed as					
TBT)					
Zinc	46,000	<50	<50	<50	65.0

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

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#### 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)
- 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.  $\Delta$ : Chromium VI data is based on total Chromium

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#### TEST RESULTS

D

1.

#### 3.5 MIGRATION OF CERTAIN ELEMENTS : AZ/NZS ISO 8124.3:2012

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	17.0	< 6.0	<6.0	<6.0	<6.0	< 6.0
Sample 5	<6.0	<2.5	15.0	< 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	17.0	< 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	< 6.0	< 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.

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#### **TEST RESULTS**

#### 3.6 TOTAL LEAD CONTENT TEST: COATING

Requirement: As per ASTM F963-11 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>	<u>Sample 3</u>	<u>Sample 4</u>	<u>Sample 5</u>	<u>Sample 6</u>
	<10.0	<10.0	<10.0	<10.0	<10.0
Total Lead	<u>Sample 7</u>	<u>Sample 8</u>	<u>Sample 9</u>	<u>Sample 10</u>	Sample 11
	<10.0	<10.0	<10.0	<10.0	<10.0
Total Lead	<u>Sample 12</u>	Sample 13	<u>Sample 14</u>	<u>Sample 15</u>	<u>Sample 16</u>
	<10.0	<10.0	<10.0	<10.0	<10.0
Total Lead	<u>Sample 17</u> <10.0	<u>Sample 18</u> <10.0			

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

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#### **TEST RESULTS**

## 3.7 TOTAL LEAD CONTENT TEST: WET-ASHING DIGESTION AND DETECTED WITH AAS/ICP

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: Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 Total Lead <10.0 <10.0 <10.0 <10.0 <10.0 Sample 7 Sample 8 Sample 9 Sample 10 Sample 11 Total Lead <10.0 <10.0 <10.0 <10.0 <10.0 Sample 12 Sample 13 Sample 14 Sample 15 Sample 16 Total Lead <10.0 <10.0 <10.0 <10.0 <10.0 Sample 17 Sample 18 Total Lead <10.0 <10.0 All concentrations expressed in milligrams per kilogram

"<" means "less than"

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#### TEST RESULTS

#### 3.8 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>	<u>Sample 3</u>	<u>Sample 4</u>	<u>Sample 5</u>	<u>Sample 6</u>
	<10.0	<10.0	<10.0	<10.0	<10.0
Total Lead	<u>Sample 7</u>	<u>Sample 8</u>	<u>Sample 9</u>	<u>Sample 10</u>	<u>Sample 11</u>
	<10.0	<10.0	<10.0	<10.0	<10.0
Total Lead	Sample 12	Sample 13	<u>Sample 14</u>	<u>Sample 15</u>	Sample 16
	<10.0	<10.0	<10.0	<10.0	<10.0
Total Lead	<u>Sample 17</u> <10.0	<u>Sample 18</u> <10.0			

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

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#### TEST RESULTS

#### 3.9 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: As per ASTM F963-11 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:

Sample 1Sample 19Total Lead<10.0</td><10.0</td>

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

#### 3.10 TOTAL LEAD CONTENT TEST: SUBSTRATE

Sample 1

<10.0

- 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:** 

Total Lead	

<u>Sample 19</u> <10.0

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

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#### TEST RESULTS

#### 3.11 LEAD CONTENT IN PRODUCTS CONTACT WITH MOUTH

by Atomic Absorption Spectrometry (AAS) analysis.

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

Results :

	Sample 1	Sample 19
Total Lead	<10.0	<10.0

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

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#### TEST RESULTS

#### 3.12 TOTAL CADMIUM CONTENT AND EUROPEAN REACH REGULATION ANNEX XVII: WET-ASHING 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

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

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#### **TEST RESULTS**

#### 3.13 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
_						

#### 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 RESULTS**

## 3.14 TOTAL PHTHALATE TEST: CLIENT'S REQUIREMENT WITH REFERENCE TO CANADA PHTHALATES REGULATION SOR/2010-298

Requirement

The vinyl in a toy or childcare article must contain not more than 1,000 mg/kg of DEHP, DBP, or BBP.
 The vinyl in any part of a toy or childcare article that can, in a reasonably foreseeable manner, be placed in the mouth of a child under four years of age must contain not more than 1,000 mg/kg of DINP, DIDP, or DNOP.

Method	:	C-34
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

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

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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# CLIENT:Carpenters Manufactory LimitedREPORT NO:C81451594ADDRESS:Huang Jin Ji Industrial Zone, Shang Jie Village, QiShiDATE:December 18, 2015Town, DongGuan City, Guang Dong, ChinaDATE:December 18, 2015

#### **TEST RESULTS**

#### 3.15 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
-						

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

#### 3.16 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	<u>Limit</u>	<u>Sample 2</u>	Sample 3	Sample 4	Sample 5
(DEHP)	1 %	ND	ND	ND	ND
Di (2-Ethylhexyl) Phthalate	<u>Limit</u>	Sample 6	Sample 7	Sample 8	<u>Sample 9</u>
(DEHP)	1 %	ND	ND	ND	ND
Di (2-Ethylhexyl) Phthalate	<u>Limit</u>	Sample 10	Sample 11	Sample 12	Sample 13
(DEHP)	1 %	ND	ND	ND	ND
Di (2-Ethylhexyl) Phthalate	<u>Limit</u>	Sample 14	Sample 15	Sample 16	<u>Sample 17</u>
(DEHP)	1 %	ND	ND	ND	ND
Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	Sample 18 ND			
Remarks: 1) Detection Limit 2) ND= not detect	-	nthalate = 0.0059	6		

Date(s) of test(s) conducted: April 4, 2015 to April 8, 2015

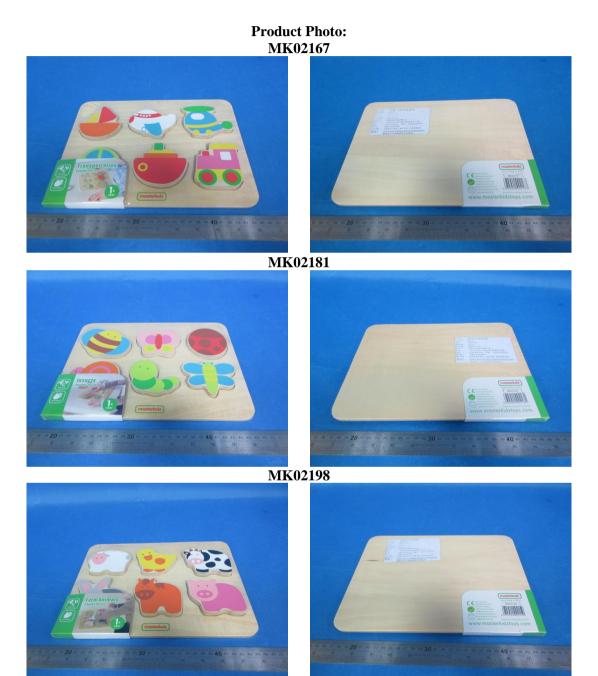
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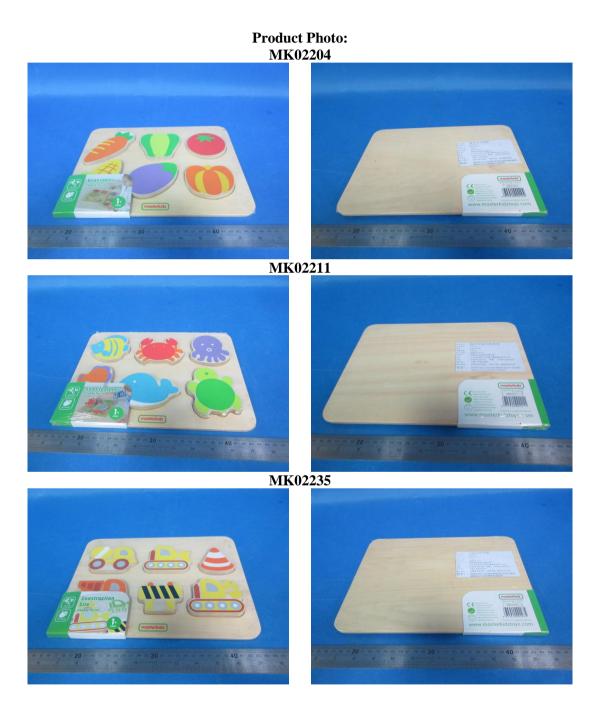
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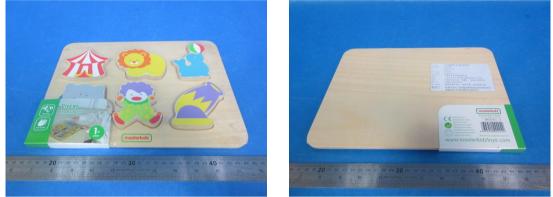
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\*\*\*\*\*\*\*\* THE END \*\*\*\*\*\*\*\*

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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 working 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 lised, based to the full and complete understanding of the working and legal significance of this term. Zint Amplitang Regulations and the standard the standard of the working and legal significance of this term. Zint Amplitang Regulations and Regulations are standard to the standard the s

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- 会用计算和付款 (a) Consulting time shall be charged on a daily basis. 容询时间应当以日为基础计费。
  (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. 当乙方的人发就其非方指定生任何信项目、甲方应当以小时为基础按此考入员的展展费率进行计费。
  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 handling charge at the discretion of UL VS.
  为甲方面产生的开关如与服务直接相关的通讯、交通、差底、剩实任何原料, 正具、设备、零件编程件的费用, 应当会成本有用方计费, 且应该合一管由乙方改定的合理手续费。
- 1.3
- 1.4
- 1.5
- カサ方面产生的开发如与服务互接相关的通讯、交通、差账、购买任有原料、工具、设备、零件或器件的费用。应当场级本利中方计费、Ⅱ应检合 ~ 在由乙方构定的合理手续费。 Where in the optionical UL VS the services are time consuming entaining the use of special equipment and a disbursements, the Customer shall be charged on an "equipment-hour" basis on the time spent. 当乙方用服务者指能大量时间,与致使用特殊及各或支证时,对中方将以所优度的 "发展—Avity" 为基础收取费用。 中方常在主体以及低而方式文付,或者能最乙方可以随时规定的其他方或其他方式文付。以能备方式做出的付款应当由中方承担风险. The Customer undertakke during the continuance of this Agreement -中方常在主体以及得载而不定。 10 b punctable to park and the continuence of this Agreement -中方常在主体以及得载而近前,就像一个有能量。 10 b punctable to the customer from time to time; 10 b punctable to park and free #mail to be made within 7 days from the date of the Debit Note; 除事为有者的形式。有效常见于其及思索或者做通知正正的了大限合批。 (2) 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 monthy intervals:

- (c) where the Customer fails to pay within time, UL VS shall charge interest on overdue involves at the rate of 2.26 per instantion 2.26 per instantion of 2

#### CONFIDENTIAL TREATMENT OF INFORMATION

- SUNFI 第二条 信息的保密处理
- NTIAL TREATINGN (In PROVINATION **格素的教育** 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. **除非** 双方向子科学预行法: 由こ之方向作力提供用意务应当堂立在不择他的书题接交资值通道之上. It is explicitly agreed by UL VS and the Customer that all technical information (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 Agreement and UL VS shall at all times use all reasonable efforts to prevent the disclosure to third particular of any part thereod unless UL VS shall and the induce that or period. Agreement and UL VS shall at all times use all reasonable efforts to prevent the disclosure to the materials provided by the Customer, or the information is necessary for performance by UL VS under this algument is a disclosure PROVIDED ALWAYS AND IT IS MUTUALLY AGREED that the confidentially shall extend for a period for the (5) years from the date of completion of its work and provided by the Customer, or the information is necessary for performance by UL VS under this Agreement in disclosure PROVIDED ALWAYS AND IT IS MUTUALLY AGREED that the confidentially shall extend for a period year to the materials provided by the Customer, or the information is necessary for performance by UL VS under this Agreement in disclosure provide by the Customer, or the information is necessary for performance by UL VS under this Agreement and to a period the Agreement and the agreement and the agreement and the agreement the agreement and the agreement and the agreement 22
- 2.3

#### PATENT RIGHTS 第三条 专利权利

1.6

- y 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 Custom 为甲方履行工作的过程中,在为甲方所承担的工作范围内由乙方作出的任何发明属于甲方。
- 32 UL VS's use 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. 在为甲方履行工作的过程中使用上述发明,乙方应当免付专利使用费。

### LIMITATION OF LIABILITY 第四条 责任限制

使任務制 If any lability on the part of UL VS shall arise (whether under the express or impiled terms here of 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 neglogence 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 or infringement or otherwise. In no event shall UL VS be liable for indicated ar consequential damage. The Customer hereby acknowledges and states that its losses and damages, whether direct or indirect, resulted therefrom will be sufficiently recovered by the above amount of acc2.orbite=ErdefoFine@RdRAfet (CtioER#RAFkiumTerxife, RAF, undER#RAFkiumTerxife), unprogrammed actions, hereby acknowledges and achieves and admages. The Customer hereby acknowledges and achieves and admages. The Customer hereby acknowledges and states that its losses and damages. Whether direct or indirect, resulted therefrom will be sufficiently recovered by the above amount of acc2.orbite=ErdefoFine@RdRAfet (CtioER#RAFkiumTerxife), unprogrammed actions). The customer hereby acknowledges and achieves and admages. The Customer hereby acknowledges and achieves and achieves and achieves and the customer hereby acknowledges and achieves and admage. The Customer hereby acknowledges and achieves admates admates and the admates ad

#### 第五条 补偿

## 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 the Trade Mark or Patent of the Customer or of any allegation of infringement of any letters patent, registered design, trade mark or trade name, the Customer shall indemnify UL VS harmless from any liability, action, claim, demnad, costs, charges and expenses arising *there from* or expense including solicitors fees, coursel's fees in defending such actions <u>Provided Always</u> that the Customer will all to some election either effect any settlement or componing or all is own expenses defend any such action or proceeding and the Customer will all the some afta for Curt Ty The Realball BARK, a symptomer effect and the Customer and the Customer effect and settlement or componing effect and afta for Curt Ty The Realball BARK, a symptomer effect and the Customer effect and the Customer effect and the Customer effect and the Customer effect and settlement or componing effect and the Customer effect and the C

## SOLICITATION OF EMPLOYEES 第六条 雇员引诱

MAY 109 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 ob 双方同意能非常到哪先书面同意,任何一方均不得引诱雇佣或费用另一方的雇员。

#### EFFECT OF PROPOSAL 第七条 建议书的效力

■本下部次JJ 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. 所能了書放了, Ne 非由乙方书面延展。其有效期为建议书出具之日起九十(90)日。一旦接受此建议书,本附件应当构成与甲方之协议的一部分,且无论之前是否有与之相反的任何讨论或口头或书面协议,本文中的条款和条件应当延用于、且取代甲方提交的任何文件中所包含的任何与之 相冲交的条款。

#### DATA AND DOCUMENT RETENTION 第八条 教器和文件保密

- After the services are rendered, UL VS may retain a copy of all documents relating to the services (the "Supporting Documents") for as long as UL VS, in its sole discretion, deems fit. 在提供服务后,乙方可以在其认为合适时保留一份与其服务相关的所有文件("支持文件")的复印件。 (b)
  - 在提供服务系。乙方可以在其认为合适时保留一合其服务相关的所有文件(\*文教文件\*\*)的复印件. Unless otherwise specified or required by the applicable kay, all Supporting Documents leves of age will be automatically destroyed by UL VS without notice to the Customer and any or all Supporting Documents less than 3 years are scheduled to be destroyed, UL VS shall give the Customer and so and the Customer's last known address of its intention to destroy the Supporting Documents. Unless the Austomer makes a written request to UL VS reaching UL VS before the expiration of the said 30 days seeking delivery of these documents to the Customer at the Customer's targets the Customer's last known address of its intention to destroy the Supporting Documents. Unless the Customer at the Customer's the Customer's the Customer's the address (the Supporting Documents). The Supporting Documents is all be destroyed. UL VS address the Supporting Documents is all be destroyed. The Supporting Documents is all be destroyed. The Supporting Documents is the Customer's the Support (the Support to Support to Support to Support (the Support to Support to Support (the Support to Support to Support (the Support to Support (the Support Support (the Support to Support (the Support Support (the Support to Support (the Support (the Support Support (the Support (the Support Support (the Support (the

#### GOVERNING LA 第九条 适用法律 9.1 This Ag

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相关的中国法律法规管辖、推断、解释和操作。

#### OBLIGATIONS OF THE CUSTOMER

- #7的交易
  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. If UL VS suffers any loss or damage because the Customer changes the contractual work undertaken by UL. VS as agreed by both parties prior to completion of the work, the Customer shall component for such losses and damages.
  #7 Int Seq 2. The S 10.2

#### SAMPLES 第十一条 样品

## ULVS expects Customers to abide by all applicable regulations when shipping samples to ULVS. Improper shipping may result in additional charges for costs incurred by ULVS. (a) to identify samples to ULVS. (b) damage done to ULVS personnel or property as a result of improper packaging, labeling or omission of identifying documents. ULVS has the right to refuse receipt of any shipment that, in its discretion, is unsafe or has been shipped improperly. Any costs associated by refusal to accept shipment under this clause are the soarce responsibility of the Customer. Customeres shall informity and hold haminges. ULVS for any and all camages, expenses, fines, ludgments, labeling and costs (including attorney's fee) for advariant for not he improper packaging or shipment under this clause are the soarce by Customer. Z 方規度理方能後通新有相近年用規模定程件高速结合方, 不正确简考方式可能会导致成本理题, C 方規模取用提算用: (a) 鉴误相成分, (b) 由于不正确的包装, 标注或者识损文件的选择中方人包括地模型], a

#### MISCELLANEOUS PROVISIONS 第十三条 其他规定

- Activity 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 is possible without modifying the remaining provisions of the agreement. Where however the provisions of any such 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 is possible without modifying the remaining provisions of the agreement. Where however the provisions of any such applicable law actually applied by any court of competent jurisdiction shall, to the extent required by such law, be severed by this Agreement shall be valid and binding agreement entroceable in accordance with the terms. Big of the total provisions of the agreement and rendered ineffective so far as is possible without modifying the remaining provisions of the agreement and rendered ineffective so far as is possible without modifying the remaining provisions of the agreement shall be valid and binding agreement entrobed by any discrete determined by any court of competent jurisdiction shall, to the extent required by such law, be severed by this Agreement shall be valid and binding agreement entrobed by any discrete detail by a such applicable law actually applied by any force could by any other capacity and the factor the counter term terms of the agreement shall be valid and binding agreement shall be valid and binding degreement shall be valid and binding the such as a special by any discrete degree of the amount due. Onlice Joint Capacity and you do required by adveement particular by between the particular by extender that lates as agent for another or has any capacity to bind another in any contr
- 13.2
- 13.3
- 13.4
- 13.5 This report or certificate does not relieve selfers/suppliers from their contractual responsibility with regards to the quality/quantity of this delivery nor does it prejudice Customer's right to claim to during UL VS's random inspection or testing or audit. 水程完或正书未免除表方/使应为关于交付货物质量/发量方面的合同责任,也不影响甲方向卖方/供应方主张赔偿在乙方随机检查或测试或审核中未被发现的任何表面和/或隐蔽的瑕疵的权利。

## 行义为州安衡。或该信息在根据不紊就规定问则有管理权的法运出其的判决或止力义下或根据上述则有管理化因数机则规定的参。通知要求必要规模的。 UUL 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 <u>Pro</u> of the Customer is generally known to the public. 乙方能试剂其中方的身份的研模规模服务的性质保密。除非中方书面同意调题。但若在乙方方面没有过错行为或失误的情况下,甲方的身份被公众普遍知悉。乙方不承担责任。