



# Test Report

Report No.: BTST20250300996EN

Issue Date: Mar.28, 2025

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**Applicant:** SHENZHEN SHENGRONGHUI TRADING CO., LTD

**Address:** 401, Building 1, Tonghe Industrial Park, Hangcheng Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, China

The following sample(s) was /were submitted and identified on behalf of the client as:

**Sample Name:** Full Size Guardrail Canopy Bed

**Model No.:** SWB-021-F-B

**Product Batch :** W1858P282500

**Labeled Age Grading:** Over 3 years old

**Testing Age Grading:** Over 3 years old

**Manufactured Date:** Mar.06, 2025

**Manufacturer:** SHENZHEN SHENGRONGHUI TRADING CO., LTD

**Address:** 401, Building 1, Tonghe Industrial Park, Hangcheng Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, China

**Trade mark:** /

**Sample Received Date:** Mar.24, 2025

**Testing Period:** From Mar.24, 2025 to Mar.28, 2025

**Test Result(s):** Please refer to next page(s).

**CPSC Lab ID:** 1840

Signed for and on behalf of BTST Testing (Dongguan) Co., Ltd.

Aylin Zheng  
Technical Director



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## Test Requested and Conclusion(s):

Test Requested		Conclusion(s)
1	ASTM F963-23 Standard Consumer Safety Specification for Toy Safety	PASS
1.1	Physical & Mechanical Test	PASS
1.2	Section 4.2 - Flammability Test	PASS
1.2.1	16 CFR 1500.44 Method for determining extremely flammable and flammable solids.	PASS
1.2.2	16 CFR 1610 Standard for Flammability of Clothing Textiles	NA
1.3	Section 4.3 - Toxicology	PASS
1.3.1	Section 4.3.5.1(1) - Total Lead Content in Surface Coating	PASS
1.3.2	Section 4.3.5.2(2)(a) - Total Lead Content in Substrate	PASS
1.3.3	Section 4.3.5.1(2) - Soluble Heavy Metals in Surface Coating	PASS
1.3.4	Section 4.3.5.2(2)(b) - Soluble Heavy Metals in Substrate	PASS
1.3.5	Section 4.3.8 - Phthalates	PASS
2	CPSIA Sec.103 - Tracking Labels for Children's Products	PASS
3	16 CFR 1500.48, 16 CFR 1500.49, 16 CFR 1501 - Sharp Point, Sharp Edge, Small Part	PASS
4	16 CFR 1500.50.51.52.53 Simulating use and abuse of toys	PASS
5	16 CFR Part 1303 Ban of Lead - containing paint and certain consumer products bearing lead-containing paint	PASS
6	Total Cadmium – Washington CSPA-RCW 70A.430.020	PASS
7	Total Lead - California Proposition 65	PASS
8	Total Cadmium - California Proposition 65	PASS
9	Phthalates - California Proposition 65	PASS
10	CPSIA Sec.101.(a) - Total Lead in substrate materials CPSIA Sec.101.(f) - Total Lead in paint or surface coating	PASS
11	CPSIA Sec.108 - Phthalates	PASS
12	16 CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	PASS

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## Component List / List of Materials

Component No.	Description
1.	Full Size Guardrail Canopy Bed(Finished product)
2.	Black coating
3.	Metal with black coating

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## Test Result

### 1 ASTM F963-23 Standard Consumer Safety Specification for Toy Safety

#### 1.1 Physical & Mechanical Test

Section	Test Items	Assessment
		No.1
4.1	Material quality (visual check on cleanliness)	PASS
4.2	Flammability Test	PASS (See Result Page)
4.3	Toxicology	PASS
4.3.5	Heavy Elements	PASS
4.3.5.1	Paint and Similar Surface-Coating Materials	PASS
4.3.5.2	Toy Substrate Materials	PASS (See Result Page)
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, Powders, and Items of Avian Feather Origin	NA
4.3.7	Stuffing Materials	NA
4.4	Electrical/Thermal Energy	NA
4.5	Sound-Producing Toys	NA
4.6	Small objects	PASS
4.6.1	Toys that are intended for children under 36 months of age	NA
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games that are intended for use by children who are at least three years old but less than six years of age	PASS
4.7	Accessible edges	PASS
4.8	Projections	NA
4.9	Accessible points	PASS
4.10	Wires or rods	NA
4.11	Nails and fasteners	PASS
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps and elastics	NA
4.15	Stability and Over-Load Requirements	PASS
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	PASS
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA

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Section	Test Items	Assessment
		No.1
4.21	Projectile toys	NA
4.22	Teether and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-Operated Toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding materials	NA
4.41	Toy Chests	NA
5	Labeling requirements	--
5.1	Federal government requirements	PASS
5.2	Age grading labeling Remark :The toy or package should indicate the minimum age for intended use.	PASS
5.3	Safety Labeling Requirements	PASS
5.4	Aquatic Toys	NA
5.5	Crib and Playpen Toys	NA
5.6	Mobiles	NA
5.7	Stroller and Carriage Toys	NA
5.8	Toys Intended to be Assembled by an Adult	PASS
5.9	Simulated Protective Devices	NA

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Section	Test Items	Assessment
		No.1
5.10	Toys with Functional Sharp Edges or Points	NA
5.11	Small Objects, Small Balls, Marbles, and Balloons	PASS
5.12	Art Materials	NA
5.13	Electric Toys	NA
5.14	Battery-Operated Toys	NA
5.15	Promotional Materials	NA
5.16	Magnets	NA
6	Instructional literature	--
6.1	Definition and description	PASS
6.2	Crib and playpen toys	NA
6.3	Mobiles	NA
6.4	Toys intended to be assembled by an adult	PASS
6.5	Battery-operated toys	NA
6.6	Battery powered ride-on toys	NA
6.7	Toys in contact with food	NA
6.8	Toy Chests	NA
7	Producer's markings	--
7.1	Name of producer/distributor and Address (toy & package)	PASS
7.2	Battery-Powered Ride-on Toys	NA
7.3	Toy Chests	NA
8	Test Methods	--
8.5	Normal use testing	PASS
8.5.1	Washable test	NA
8.6	Abuse Testing	PASS
8.7	Impact test	PASS
8.8	Torque test	PASS
8.9	Tension test	PASS
8.10	Compression test	NA
8.11	Tests for Tire Removal and Snap-in Wheel and Axle Assembly Removal	NA
8.12	Flexure test	NA
8.13	Methods for Mouth-Actuated Toys and Mouth-Actuated Projectile Toys Test	NA
8.14	Projectiles	NA

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Section	Test Items	Assessment
		No.1
8.16	Tension test for pompoms	NA
8.19	Test for Toys that Contain Secondary Cells or Batteries	NA
8.20	Tests for Toys Which Produce Sound	NA
8.22	Plastic Film Thickness	NA
8.23	Test for Loops and Cords	NA
8.25	Magnet Test Methods	NA
8.29	Stuffing Materials Evaluation	NA

Note / Key : NA = Not Applicable, NC= Not Conducted as per client's request.

## 1.2 ASTM F963-23 Section 4.2, Flammability Test

### 1.2.1 16 CFR 1500.44, Method for determining extremely flammable and flammable solids.

Sample	Burn rate (inch/sec.)	Limit (inch/sec.)
No.1	DNI	0.10

Note / Key :

1. DNI = Did not ignite.
2. NA = Not Applicable
3. IBE = Ignited but self-extinguished before burn-rate could be determined.
4. All styles of the submitted toy samples (and its accessories) was/were tested, the above result only showed the most severe burn rate of the samples.
5. The burn rate of a composite product ( that is solid/fabric combined)exceeds 0.1 in./s in part due to the presence of a permanently attached fabric, then a secondary test to fabric separately was conducted in accordance the standard

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## 1.2.2 Flammability - 16 CFR 1610 Standard for Flammability of Clothing Textiles

Number	Test Results	Conclusion
No.1 (Use tests in their original state)	NA	1 level

Remarks:

Series	Textile Type	Performance Requirements
1 level	No fluff, tufting or other surface fuzz	Flame spread time $\geq$ 3.5S
	Has fluff, tufted or other types of surface raising	Flame spread time $>$ 7S
2 level	Has fluff, tufted or other types of surface raising	4s $\leq$ Flame spread time $\leq$ 7S
3 level	No fluff, tufting or other surface fuzz	Flame spread time $<$ 3.5S
	Has fluff, tufted or other types of surface raising	Flame spread time $<$ 4.0S And accompanied by matrix burning

Note / Key :

1. DNI = Did not ignite.
2. NA = Not Applicable
3. All styles of the submitted toy samples (and its accessories) was/were tested, the above result only showed the most severe burn rate of the samples.

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## 1.3 Toxicology-ASTM F963-23 Section 4.3

### 1.3.1 Total Lead Content in Surface Coating - ASTM F963-23 Section 4.3.5.1(1)

Test method: ASTM F963-23 Section 8.3.1

Test Item	Unit	Result	RL	Limit
		No.2		
Lead (Pb)	mg/kg	N.D.	10	90
Conclusion	--	PASS	--	--

Note: 1. mg/kg=milligram per kilogram

2. N.D.=No Detection(<RL); RL =Reporting Limit.

3. NA = Not Applicable

### 1.3.2 Total Lead Content in Substrate - ASTM F963-23 Section 4.3.5.2(2)(a)

Test method: ASTM F963-23 Section 8.3

Test Item	Unit	Result	--	--	RL	Limit
		No.3	--	--		
Lead (Pb)	mg/kg	19	--	--	10	100
Conclusion	--	PASS	--	--	--	--

Note: 1. mg/kg=milligram per kilogram

2. N.D.=No Detection(<RL)

3. RL =Reporting Limit

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## 1.3.3 Soluble Heavy Metals Content in surface coating – ASTM F963-23 Section 4.3.5.1(2)

Test Method: ASTM F963-23, Section 8.3.2

Test Item(s)	Unit	Result	RL	Limit
		No.2		
Soluble Arsenic (As)	mg/kg	N.D.	2.5	25
Soluble Barium (Ba)	mg/kg	N.D.	5	1000
Soluble Cadmium (Cd)	mg/kg	N.D.	5	75
Soluble Chromium (Cr)	mg/kg	N.D.	5	60
Soluble Mercury (Hg)	mg/kg	N.D.	5	60
Soluble Lead (Pb)	mg/kg	N.D.	5	90
Soluble Antimony (Sb)	mg/kg	N.D.	5	60
Soluble Selenium (Se)	mg/kg	N.D.	5	500
Conclusion	-	PASS	-	-

Note : 1.N.D.=No Detection(<RL)

2.mg/kg = milligram per kilogram

3. RL =Reporting Limit

4.NA = Not Applicable

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## 1.3.4 Soluble Heavy Metals Content in Substrate - ASTM F963-23 Section 4.3.5.2(2)(b)

Test Method: ASTM F963-23, Section 8.3.5 (Excluding 8.3.5.5(3))

Test Item(s)	Unit	Result	--	--	--	RL	Limit
		No.3	--	--	--		
Soluble Arsenic (As)	mg/kg	N.D.	--	--	--	2.5	25
Soluble Barium (Ba)	mg/kg	N.D.	--	--	--	5	1000
Soluble Cadmium (Cd)	mg/kg	N.D.	--	--	--	5	75
Soluble Chromium (Cr)	mg/kg	N.D.	--	--	--	5	60
Soluble Mercury (Hg)	mg/kg	N.D.	--	--	--	5	60
Soluble Lead (Pb)	mg/kg	N.D.	--	--	--	5	90
Soluble Antimony (Sb)	mg/kg	N.D.	--	--	--	5	60
Soluble Selenium (Se)	mg/kg	N.D.	--	--	--	5	500
Conclusion	--	PASS	--	--	--	--	--

- Note:
- 1.ND = Not detected(<RL)
  - 2.mg/kg = milligram per kilogram
  3. RL = Reporting Limit
  4. Tested part(s) was/were specified by client

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## 1.3.5 Phthalates Content - ASTM F963-23 Section 4.3.8

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	CAS No.	Unit	Result	--	RL	Limit
			No.2	--		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%	N.D.	--	0.005	0.1
Di-butyl phthalate (DBP)	84-74-2	%	N.D.	--	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%	N.D.	--	0.005	0.1
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%	N.D.	--	0.010	0.1
Di-n-pentyl phthalate (DPENP)	131-18-0	%	N.D.	--	0.010	0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	N.D.	--	0.005	0.1
Di-isobutyl phthalate (DIBP)	84-69-5	%	N.D.	--	0.005	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	%	N.D.	--	0.005	0.1
Conclusion	--	--	PASS	--	--	--

Note:

1. % = percentage by weight
2. N.D.=No Detection(<RL)
3. RL =Reporting Limit

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## 2 As specified in Consumer Product Safety Act (CPSA) of Section 14(a)(5) Tracking Label for children's products.

Description	Result
	No.1
a) Is the product intended for children under 12 years? If no, the section is not applicable.	Y
b) Is the product under the exemption of marking on children's product?	Y
1. Product is too small to be marked.	Y
2. Products stay with or be contained in their original packaging.	Y
3. Product is sold through a bulk vending matching.	N
4. Physical mark would weaken or damage the product or impair its utility.	N
5. Product surface would be impossible to mark permanently.	Y
6. Aesthetics of the product would be ruined by a mark.	N
c) Is the product and packaging or only packaging (for product exempted from the marking) marked below information?	P
1) Name of the manufacturer or the name of the private labeler.	Y
2) Manufacturer or private labeler location, including the name of the country, and the name or other means of coding of city and state.	Y
3) Date of production of the product, in a form of MM/YY or any other coding system.	Y
4) Cohort information (including the batch, run number, or another identifying characteristic).	Y
d) Is the label permanent after below permanency testing?	P

Remark: P = Pass, F = Fail, Y = Yes , N= Not

Note: The tracking label assessment was based on the submitted samples and the information provided by the applicant.

There was no verification on the validity of such information.

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample.

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3,4 CPSC 16 CFR 1500.48, 16 CFR 1500.49, 16 CFR 1500.50, 16 CFR 1501

NO.	Test Item(s)	Requirements of Standard	Result
			No.1
3	CPSC 16 CFR 1501-Small part	Toys and other article intended for use by children under 3 years of age shall not have small parts since it presents a choking, aspiration, or ingestion hazard. Toys and other article are subject to this requirement before or after use and abuse testing.	PASS
	16 CFR 1500.48	Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age.	PASS
	16 CFR 1500.49	Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age.	PASS
4	CPSC 16 CFR 1500.50	Normal use testing	PASS
	CPSC 16 CFR 1500.53b	Impact test	PASS
	CPSC 16 CFR 1500.53c	Bite test	NA
	CPSC 16 CFR 1500.53d	Flexure test	NA
	CPSC 16 CFR 1500.53e	Torque test	PASS
	CPSC 16 CFR 1500.53f	Tension test	PASS
	CPSC 16 CFR 1500.53g	Compression test	NA

Note: NA. = Not Applicable

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## 5 CPSC 16 CFR Part 1303 - Lead Paint Regulation

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result	RL	Limit
		No.2		
Lead (Pb)	mg/kg	N.D.	10	90
Conclusion	--	PASS	--	--

### Note:

1. mg/kg=milligram per kilogram
2. N.D.=No Detection(<RL); RL =Reporting Limit.
3. NA = Not Applicable

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## 6 Total cadmium (Cd) according to CSPA-RCW 70A.430.020

Test Method: With reference to EPA 3050B:1996(metal),EPA 3052:1996 (nonmetal),analyzed by ICP-OES.

Test Item	Unit	Result	--	RL	Limit
		No.3	--		
Total cadmium (Cd)	mg/kg	N.D.	--	10	40
Conclusion	--	PASS	--	--	--

Note:

1. mg/kg=milligram per kilogram
2. N.D.=No Detection(<RL)
3. RL =Reporting Limit

## 7 Total Lead(Pb) - California Proposition 65

Test Method: With reference to CPSC-CH-E1001-08.3(metal), CPSC-CH-E1002-08.3 (nonmetal), CPSC-CH-E1003-09.1(coating), analysis was performed by ICP-OES.

Test Item	Unit	Result	--	RL	Limit
		No.3	--		
Lead (Pb)	mg/kg	19	--	10	100(Substrate) 90(Coating)
Conclusion	--	PASS	--	--	--

Note:

1. mg/kg=milligram per kilogram
2. N.D.=No Detection(<RL)
3. RL =Reporting Limit

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## 8 Total Cadmium(Cd) - California Proposition 65

Test Method: With reference to EPA 3050B:1996(metal),EPA 3052:1996 (nonmetal),analysis was performed by ICP-OES

Test Item	Unit	Result	--	RL	Limit
		No.3	--		
Total cadmium (Cd)	mg/kg	N.D.	--	10	100
Conclusion	--	PASS	--	--	--

Note:

1. mg/kg=milligram per kilogram
2. N.D.=No Detection(<RL)
3. RL =Reporting Limit

## 9 Phthalates - California Proposition 65

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	Unit	Result	--	RL	Limit
		No.2	--		
Dibutyl Phthalate(DBP)	%	N.D.	--	0.005	0.1
Benzylbutyl Phthalate (BBP)	%	N.D.	--	0.005	0.1
Di-(2-ethylhexyl) Phthalate(DEHP)	%	N.D.	--	0.005	0.1
Di-n-octyl phthalate(DNOP)	%	N.D.	--	0.005	0.1
Diisononyl phthalate(DINP)	%	N.D.	--	0.010	0.1
Diisodecyl phthalate (DIDP)	%	N.D.	--	0.010	0.1
Dihexyl phthalate (DHP/DnHP)	%	N.D.	--	0.005	0.1
Diisobutyl phthalate(DIBP)	%	N.D.	--	0.005	0.1
Conclusion	--	PASS	--	--	--

Note:

1. % = percentage by weight
2. N.D.=No Detection(<RL)
3. RL =Reporting Limit

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## 10 Consumer Product Safety Improvement Act of 2008 (CPSIA)

### 10.1 CPSIA Sec.101.(a) Lead in Total Lead Content in Substrate Children's Products

-CPSIA Sec.101.(a) Lead in Non-Metal Children's Products (CPSC-CH-E1002-08.3 )

-CPSIA Sec.101.(a) Lead in Metal Children's Products (CPSC-CH-E1001-08.3 )

Test Method: With reference to CPSC-CH-E1001-08.3 and CPSC-CH-E1002-08.3, analysis was performed by ICP-OES.

Test Item	Unit	Result	--	RL	Limit
		No.3	--		
Lead (Pb)	mg/kg	19	--	10	100
Conclusion	--	PASS	--	--	--

Note:

1. mg/kg=milligram per kilogram
2. N.D.=No Detection(<RL)
3. RL =Reporting Limit

### 10.2 CPSIA Sec.101.(f) Lead content for surface coating

-CPSIA Sec.101.(f) Lead content for coating (CPSC-CH-E1003-09.1)

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by ICP-OES.

Test Item	Unit	Result	RL	Limit
		No.2		
Lead (Pb)	mg/kg	N.D.	10	90
Conclusion	--	PASS	--	--

Note:

1. mg/kg=milligram per kilogram
2. N.D.=No Detection(<RL)
3. RL =Reporting Limit

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## 11 Phthalates - Consumer Product Safety Improvement Act of 2008 (CPSIA) Sec.108

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item	CAS No.	Unit	Result	--	RL	Limit
			No.2	--		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%	N.D.	--	0.005	0.1
Di-butyl phthalate (DBP)	84-74-2	%	N.D.	--	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%	N.D.	--	0.005	0.1
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%	N.D.	--	0.010	0.1
Di-n-pentyl phthalate(DPENP)	131-18-0	%	N.D.	--	0.010	0.1
Di-n-hexyl phthalate(DHEXP)	84-75-3	%	N.D.	--	0.005	0.1
Di-isobutyl phthalate(DIBP)	84-69-5	%	N.D.	--	0.005	0.1
Dicyclohexyl phthalate(DCHP)	84-61-7	%	N.D.	--	0.005	0.1
Conclusion	--	--	PASS	--	--	--

### Note:

1. % = percentage by weight
2. N.D.=No Detection(<RL)
3. RL =Reporting Limit

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## 12 16 CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	CAS No.	Unit	Result	--	RL	Limit
			No.2	--		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%	N.D.	--	0.005	0.1
Di-butyl phthalate (DBP)	84-74-2	%	N.D.	--	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%	N.D.	--	0.005	0.1
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%	N.D.	--	0.010	0.1
Di-n-pentyl phthalate(DPENP)	131-18-0	%	N.D.	--	0.010	0.1
Di-n-hexyl phthalate(DHEXP)	84-75-3	%	N.D.	--	0.005	0.1
Di-isobutyl phthalate(DIBP)	84-69-5	%	N.D.	--	0.005	0.1
Dicyclohexyl phthalate(DCHP)	84-61-7	%	N.D.	--	0.005	0.1
Conclusion	--	--	PASS	--	--	--

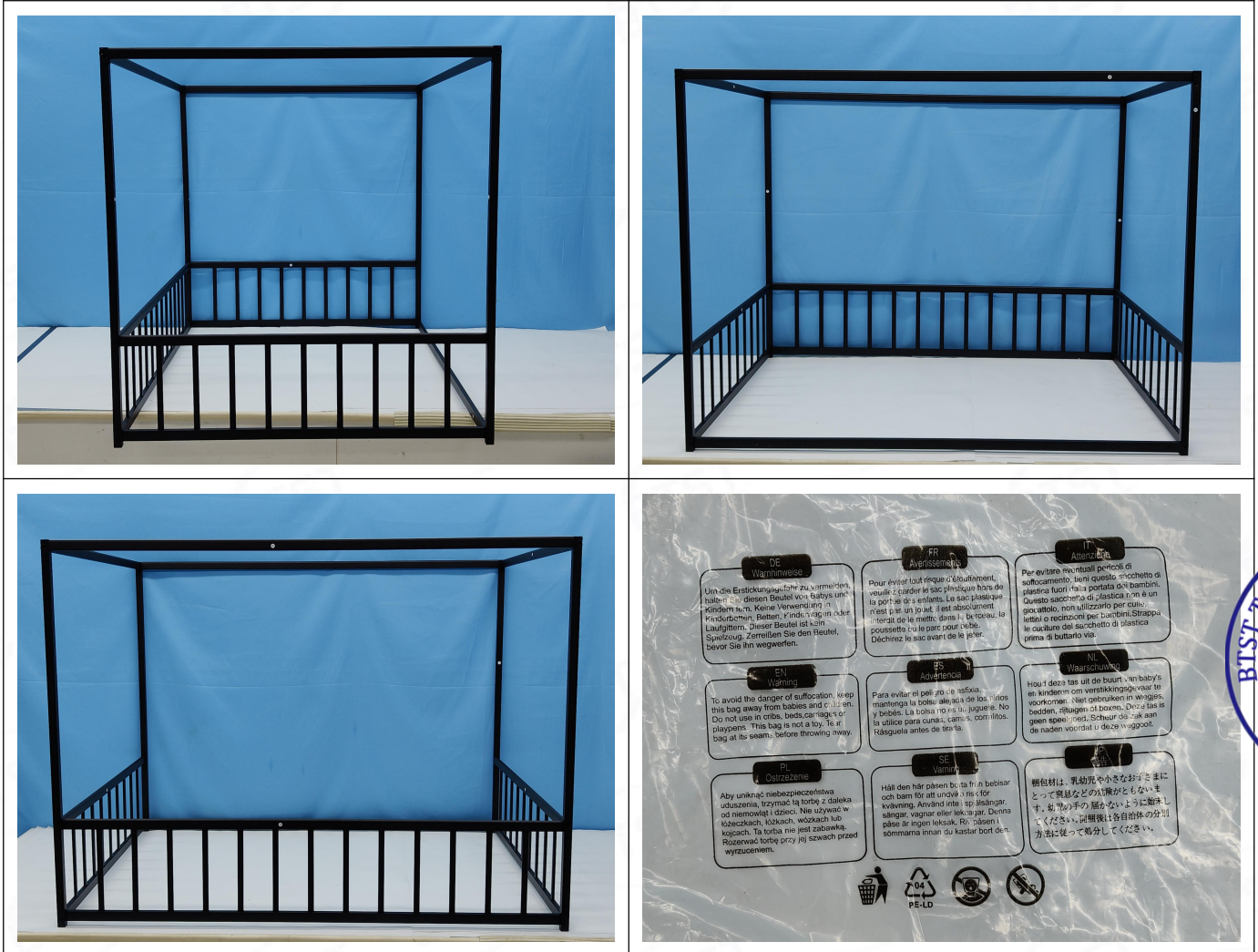
### Note:

1. % = percentage by weight;
2. N.D.=No Detection(<RL);
3. RL =Reporting Limit.



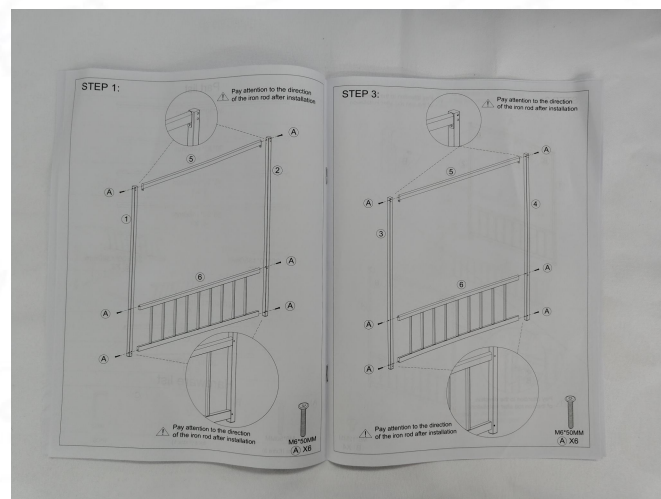
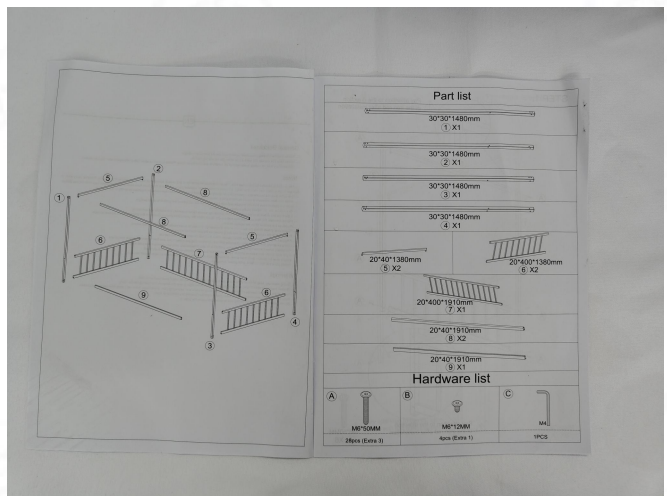
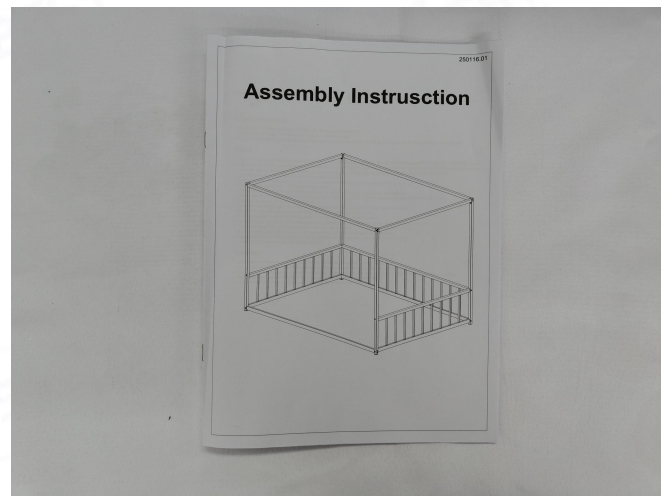
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Sample Photo:



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

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