



Test Report

No.: 70.452.25.40690.01

Date: 2026-01-09

Applicant: HEZE ZHONGRAN WOODWARE CO., LTD.
Address: EASTERN SIDE, SOUTHERN SECTION, JINXIN ROAD, ZHUANGZHAI TOWN, CAO COUNTY, HEZE CITY, SHANDONG PROVINCE
Product Name: OUTDOOR PLAYHOUSE
Model No.: 91047
Country of Origin: China
Labelled Age Range: 2 yrs +
Age range in testing as per client's request: Over 2 years
Age Group Assessed As per Age Guideline: Over 2 years
Receipt Date of Sample: 2025-12-02 & 2025-12-22
Date of Testing: 2025-12-02 ~ 2025-12-31
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. Age Grading Evaluation	See Result(s)
2. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical, Mechanical and flammability test & Chemical Requirement	Pass
3. Physical & Mechanical - small part, sharp point, sharp edge	Pass
4. CPSC 16 CFR 1500.44 Flammability Test on Solid	Pass
5. Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products	Pass
6. ASTM F963-23 Section 4.3.5.1(1) - Total Lead Content Test (Paint and Similar Surface Coating Materials)	Pass
7. ASTM F963-23 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)	Pass
8. ASTM F963-23 Section 4.3.5 - Heavy Element (Soluble Heavy Element)	Pass
9. ASTM F963-23 Section 4.3.8 - Phthalates Content	Pass
10. Total Lead Content -16 CFR Part 1303, Lead of Paint	Pass
11. Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 101 - Total Lead Content Test in paint/similar surface coating material	Pass
12. Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 101 - Total Lead Content Test in substrate materials	Pass
13. 16 CFR Part 1307 amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass

Remarks 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%



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TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Testing Center

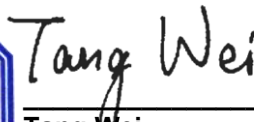
Prepared by:



Jenny Yao
Technical Engineer

Authorized by:





Tang Wei
Technical Manager

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Description of Tested Subject:



Sample	Description
001	Yellowish-brown coating on wood. (roof & sill)
002	Blue coating on wood. (roof)
003	Light grey coating on wood. (roof & fence)
004	Black coating on wood. (table)
005	Coffee coating on wood. (door)
006	Black coating on metal. (handle & hinge)
007	White plastic. (window & flowerpot)
008	Black plastic. (board)
009	Deep brown plastic. (door latch)
010	Light grey plastic. (faucet & kitchen ware & doorbell & on door)
011	Hoary plastic. (basin)
012	Dark grey plastic. (gas cooker)
013	Red plastic. (gas cooker switch & clock pointer & birdcage)
014	Deep grey plastic. (doorbell)
015	Yellowish-brown plastic. (hinge)
016	White adhesive plastic film with transparent plastic film and underlying four-color printed coatings. (gas cooker & clock)
017	White woven fabric with blue/black printing. (door curtain)
018	Beige rope. (on birdcage)
019	Silvery color metal with golden color plating. (screw & nut & gasket)
020	Silvery color metal excluding coating. (hinge & handle)
021	Silvery color metal. (door latch)
022	Black magnet. (door latch)



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Test Result(s):

1. Age Grading Evaluation

Test Item(s)	Test Method	Test Results
Age Grading Evaluation	Age grading is evaluation based on the function, and characteristics of the submitted sample with reference to the document:PD CEN ISO/TR 8124-8:2024-Safety of toys Part 8:Age determination-First age grade for the appropriate play of toys	Over 2 years

Abbreviation: P = Pass, NA = Not Applicable

2. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical, Mechanical and flammability test & Chemical Requirement

The submitted sample were undergone abuse tests as following:

Clause	Test	Numerical Value
8.5	Normal Use Testing	/
8.7	Impact test	4 x3ft & 3 times
8.8	Torque Test	4 in-lbs
8.9	Tension Test	15 lbs
8.10	Compression Test	30 lbs

Clause	Requirement	Evaluation
4	Safety Requirements	
4.1	Material quality	P
4.2	Flammability	P#1
4.3	Toxicology	
4.3.1	Hazardous Substances	NA
4.3.2	Manufacturing and Packaging of Food	NA
4.3.3	Indirect Food Additives	NA
4.3.4	Cosmetics	NA
4.3.5	Heavy Elements	P
4.3.5.1	Paint and Similar Surface-coating Materials	P(See Test Item 6,8)
4.3.5.2	Toy Substrate Materials	P(See Test Item 7,8)
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, Powders, and Items of Avian Feather Origin	NA
4.3.7	Stuffing materials	NA
4.3.8	Phthalates	P(See Test Item 9)
4.4	Electrical/Thermal Energy	NA
4.5	Sound-producing toys	P#2



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4.6	Small Objects	P
4.6.1	Toys intended for children under 36 months of age	P
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months	NA
4.7	Accessible edges	P
4.8	Projections	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	P
4.12	Plastic film	P#3
4.13	Folding mechanisms and hinges	P
4.14	Cords, straps, and elastics	NA
4.15	Stability and over-load requirements	P
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-operated toys	P
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	Hemispherical-shaped objects	NA
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	P#4
4.39	Jaw Entrapment in Handles and Steering Wheels	NA



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4.40	Expanding Materials	NA
4.41	Toy chests	NA
5	Labeling Requirements	
5.1	Federal Government Requirements	P
5.2	Age Grading Labeling	P
5.3	Safety Labeling Requirement	P
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	P
5.9	Simulated protective devices	NA
5.10	Toys with functional sharp edges or points	NA
5.11	Small objects, small balls, marbles, and balloons	NA
5.12	Art materials	NA
5.13	Electric toys	NA
5.14	Battery-operated toys	NA
5.15	Promotional materials	P
5.16	Magnets	NA
6	Instructional Literature	
6.1	Definition and description	P
6.2	Crib and playpen toys	NA
6.3	Mobiles	NA
6.4	Toys intended to be assembled by an adult	P
6.5	Battery-operated toys	P
6.6	Battery-powered ride on toys	NA
6.7	Toys in contact with food	NA
6.8	Toy chests	NA
6.9	Instructional for manufacturer-supplied specialty or custom tools	NA
7	Producer's Marking	
7.1	Name and address of the producer or distributor	P
7.2	Battery-powered ride on toys	NA
7.3	Toy chests	NA

Abbreviation: P = Pass, NA = Not Applicable

Remark:

#1 = The burn rate of product is DNI.

#2 = Stationary or Self-propelled Tabletop, Floor, or Crib Toys: L_{Aeq} : 64.9dB, L_{Cpeak} : 82.7dB.

#3 = The average thickness of plastic bag is 0.064mm, 0.055mm and 0.078mm.

#4 = The magnet is not small part.

Laboratory:
TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch, Testing Center
Building B,C, No. 1999 and Building D, No. 2059, Duhui
Road, Minhang District, Shanghai

Phone: +86 21 60376300
Fax: +86 21 60376350
<https://www.tuvsud.com>

Regd. Office:
TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch, TÜV SÜD Group
Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

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3. Physical & Mechanical - small part, sharp point, sharp edge

Item	Requirement – test item	Results, remarks	Evaluation
16 CFR 1501	Small part	No small part before and after abuse test according to 16 CFR 1500.50&1500.53.	P
16 CFR 1500.48	Sharp points	No sharp point before and after abuse test according to 16 CFR 1500.50&1500.53.	P
16 CFR 1500.49	Sharp edges	No sharp edge before and after abuse test according to 16 CFR 1500.50&1500.53.	P

Abbreviation: P = Pass, NA = Not Applicable

4. 16 CFR 1500.44 Flammability Test on Solid

Item	Requirement	Results, remarks	Evaluation
16 CFR 1500.3(C)(6)(vi)	Flammable solid	Remark: Burn rate shall be not more than 0.1inch/s(Round the burn rate to the nearest tenth,burn rate is less than 0.15 in/s accept) Burn rate: DNI.	P

Abbreviation: P = Pass, NA = Not Applicable

5. Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products

Item	Requirement	Evaluation
CPSIA Section 103	Tracking labels for children's products	P

Abbreviation: P=Pass

6. ASTM F963-23 Section 4.3.5.1(1) - Total Lead Content Test (Paint and Similar Surface Coating Materials)

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES/ICP-MS.

Parameter	Unit	MDL	Limit	Result(s)	
				001	002+005
Lead	mg/kg	10.0	90	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				003	004
Lead	mg/kg	10.0	90	<10.0	<10.0
Conclusion				Pass	Pass

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Parameter	Unit	MDL	Limit	Result(s)
				006
Lead	mg/kg	10.0	90	<10.0
Conclusion				Pass

7. ASTM F963-23 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)

Test with reference to CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, determination by ICP-OES/ICP-MS.

Parameter	Unit	MDL	Limit	Result(s)	
				007	008
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				009	010
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				011	012
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				013	014
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				015	016
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				017	019+020+021
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)
				022
Lead	mg/kg	10.0	100	<10.0
Conclusion				Pass

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8. ASTM F963-23 Section 4.3.5 - Heavy Element (Soluble Heavy Element)

Test with reference to ASTM F963-23 Section 8.3 for soluble heavy elements

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			001	002
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	10.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			003	004
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	7.79
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			005	006
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	25.6	56.5
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			007	008
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0

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Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			009	010
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			011	012
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			013	014
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

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Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			015	016
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			017	018
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Remark: 1. Adjusted Analytical Result

9. ASTM F963-23 Section 4.3.8 - Phthalates Content

Test with reference to CPSC-CH-C1001-09.4, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001	002+005
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003	004
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					006	007
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					008	009+010
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					011+012+013	014
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					015	016
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					017	
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	
Conclusion					Pass	

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10. Total Lead Content -16 CFR Part 1303, Lead of Paint

Test with reference to CPSC-CH-E1003-09.1 and determination by ICP-OES/ICP-MS.

Parameter	Unit	MDL	Limit	Result(s)	
				001	002+005
Lead (Pb)	mg/kg	10.0	90	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				003	004
Lead (Pb)	mg/kg	10.0	90	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				006	
Lead (Pb)	mg/kg	10.0	90	<10.0	
Conclusion				Pass	

11. Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 101 - Total Lead Content Test in paint/similar surface coating material

Test with reference to CPSC-CH-E1003-09.1 and determination by ICP-OES/ICP-MS.

Parameter	Unit	MDL	Limit	Result(s)	
				001	002+005
Lead (Pb)	mg/kg	10.0	90	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				003	004
Lead (Pb)	mg/kg	10.0	90	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				006	
Lead (Pb)	mg/kg	10.0	90	<10.0	
Conclusion				Pass	

12. Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 101 - Total Lead Content Test in substrate materials

Test with reference to CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, determination by ICP-OES/ICP-MS.

Parameter	Unit	MDL	Limit	Result(s)	
				007	008
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				Pass	Pass

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Parameter	Unit	MDL	Limit	Result(s)	
				009	010
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				011	012
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				013	014
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				015	016
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				017	019+020+021
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				Pass	Pass

Parameter	Unit	MDL	Limit	Result(s)	
				022	
Lead	mg/kg	10.0	100	<10.0	
Conclusion				Pass	

13. 16 CFR Part 1307 amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test with reference to CPSC-CH-C1001-09.4, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001	002+005
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	<0.005



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Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003	004
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					006	007
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					008	009+010
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					011+012+013	014
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					015	016
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass



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Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					017
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005
Conclusion					Pass

-End of Test Report-