

Test Report

Report No.: NB2024079310

Date: August 16, 2024

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Applicant: Nobility Inc

Address: 251 Little Falls Drive, Wilmington, Delaware, United States, 19808

The following merchandise were submitted and identified by the clients as:

Sample Name: SainSmart Jr. Train Set Toys

Model No. : 808-20-T09,808-20-T10,808-20-T11,808-20-T12

Country of Origin: China

Brand: SainSmart Jr.

Product End Use: Toys

Manufacturer: Dongguan Nobility Industrial Development Co., Ltd.

Manufacturer address: Room 201, Building 19, No.1, Dongke Road, DongCheng Street, Dongguan city, Guangdong Province, China.

Applicant's specified age group for testing: 3+

Testing Age Grading: For age over 3 years

Labeled Age Group: 3+ For ages

The following information were confirmed by the laboratory:

Sample Receiving Date: July 29, 2024

Testing Period: From July 29, 2024 to August 7, 2024

From August 12, 2024 to August 15, 2024

Test Results: Please refer to next pages

Test Requested

Please refer to the next page

Remark: Tested part(s) was/were specified by client.

Signed for and on behalf of Guangdong NewBest Testing Service Co., Ltd.

Approved by:



Manager

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Summary of test results

Test Requested		Conclusion
1	Mechanical and Physical Properties Requirements -ASTM F963-23, Standard Consumer Safety Specification for Toy Safety	PASS
2	Flammability of Solids Requirement -ASTM F963-23,A5, Standard Consumer Safety Specification for Toy Safety	PASS
3	Total Lead Content in Surface Coating - ASTM F963-23, Section 4.3.5.1(1)	PASS
4	Total Lead Content in Substrate - ASTM F963-23, Section 4.3.5.2(2)(a)	PASS
5	Soluble Heavy Metals Content in Surface Coating - ASTM F963-23, Section 4.3.5.1(2)	PASS
6	Soluble Heavy Metals Content in Substrate - ASTM F963-23, Section 4.3.5.2(2)(b)	PASS
7	Phthalate Content – ASTM F963-23	PASS
8	Total Lead Content in Surface Coating - United States Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 101(f) / United States Code of Federal Regulations (CFR), Title 16, Part 1303	PASS
9	Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)	PASS
10	Phthalates Content in Children's Toys and Childcare Articles – Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108 / 16 CFR part 1307	PASS

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Test results:

Tested part(s) description:

Test Item(s)	Description	Location
I001	Green plastic	Rockery
I002	Navy blue plastic	Street lamp
I003	Dark red plastic	Bridge&water-gate&
I004	Yellow plastic	Crane
I005	Grey plastic	Tunnel
I006	Red plastic	Tunnel&Police car&
I007	Multi-color coating	Sticker of Tunnel
I008	Black plastic	Wheel
I009	Red plastic	Wheel
I010	Dark blue plastic	Wheel
I011	Yellow plastic	Wheel
I012	Black plastic	Carriage connection
I013	Dark orange plastic	Traffic Cones
I014	Matte red plastic	Indicator
I015	White soft plastic	Indicator
I016	Natural plastic	Bridge connection
I017	Light yellow plastic	Water-gate
I018	White plastic	Indicator
I019	Light red plastic	Wheel
I020	Deep blue plastic	Bridge
I021	Clear laminated multi-color printed white paper with adhesive	Sticker of Police car
I022	Matte black plastic	Helicopter
I023	Bright black plastic	Policeman
I024	Blue plastic	Policeman
I025	Beige PVC	Policeman
I026	Apricot plastic	Track
I027	Translucent plastic	Box
I028	Orange plastic	Handle/buckle,
I029	Silver metal	Screw of rockery
I030	Silver metal	Triangle screw
I031	Silver metal	Crane nail
I032	Silver metal	Small nail
I033	Silver metal	Carriage connection
I034	Matte silver metal	Car axle

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Test results:

Tested part(s) description:

Test Item(s)	Description	Location
I035	Silver metal	Car axle
I036	Black rope	Rope of crane
I037	Brown MDF	Police station&Hospital&bridge bottom&block
I038	Dark brown MDF	Fish
I039	Multi-color coating	Puzzle
I040	Dark yellow/orange/black/white coating	Crane&fish& carriage&&
I041	Green coating	Block &train
I042	Grass green coating	Block
I043	Yellow coating	Block &indicator &School bus& carriage
I044	White/navy blue coating	Police car&street lamp&tunnel&Traffic Cones
I045	Red/white coating	Block&ambulance&Fire fighting truck& Indicator
I046	Orange yellow coating	Carriage
I047	Grey coating	Carriage
I048	Light grey/white coating	Block
I049	Blue/white coating	Block
I050	Sky blue coating	Block&carriage&
I051	Multi-color coating	Police station &Hospital &
I052	Dark grey/white coating	Water-gate
I053	Apricot/multi-color coating	Block&policeman&
I054	Light yellow/black/red/green coating	Indicator
I055	Light blue coating	Carriage
I056	Bright red coating	Block&carriage&
I057	Dark blue/red/black/white coating	Police car&Tunnel&
I058	Royal blue/multi-color coating	Helicopter&Police car&policeman&&
I059	Brown coating	Block
I060	Multi-color coating	Surface of track
I061	Light gray coating	Rockery
I062	Silver coating	Block
I063	Multi-color coating	Persons
I064	Light orange/black/red/green coating	Indicator
I065	Dark red/white coating	Indicator

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Test results:

Tested part(s) description:

Test Item(s)	Description	Location
I066	Purple/light purple/black coating	Fish
I067	Beige/multi-color coating	Fish
I068	Pink/multi-color coating	Fish
I069	Deep red coating	Train
I070	Light beige coating	Policeman's hand
I071	Sainsmart Jr. Train Set Toys	--

1. Mechanical and Physical Properties Requirements -ASTM F963-23, Standard Consumer Safety Specification for Toy Safety

Section	Requirement	Result
4	Safety requirements	
4.1	Material Quality	M
4.3.7	Stuffing Materials	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	N/A
4.7	Accessible Edges	M
4.8	Projections	M
4.9	Accessible Points	M
4.10	Wires and Rods	N/A
4.11	Nails and Fasteners	M
4.12	Plastic Film	M
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearances and Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A

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Section	Requirement	Result
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.28	Stroller and carriage toys	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Small Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	M
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy chests	N/A
5	Labeling Requirements	M
5.1	Tracking label	M
5.4&5.3	Aquatic Toys	N/A
5.5&5.3	Crib and Playpen Toys	N/A
5.6&5.3	Mobiles	N/A
5.7&5.3	Stroller and Carriage Toys	N/A
5.8&5.3	Toys Intended to be Assembled by an Adult	N/A
5.9&5.3	Simulated Protective Devices	N/A
5.10&5.3	Toys with Functional Sharp Edges or Points	N/A
5.11	Small Objects, Small Balls, Marbles, and Balloons	M
5.12	Art Materials	N/A
5.13	Electric Toys	N/A
5.14&5.3	Battery operated toys (Toys with non-replaceable batteries)	N/A
5.15	Promotional Materials	M
5.16&5.3	Magnets	N/A
6	Instructional Literature	M

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Section	Requirement	Result
6.1	Definition and Description	M
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4&5.3	Toys Intended to be Assembled by and Adult	N/A
6.5	Battery operated toys	N/A
6.6	Battery powered ride-on toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
6.9	Electric toy matching tools	N/A
7	Producer's Markings	M
7.1	Name of the producer or the distributor	M
	Address of the producer or the distributor	M
7.2	Battery powered ride on toys	N/A
7.3	Toy chests	N/A

Note: M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-23, "Standard Consumer Safety Specification on Toy Safety". Annex A1

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request Guangdong Newbest Testing Service Co.,Ltd. to determine an appropriate age grade, the labeled age grade will be used for testing.

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations:

Testing Items	FHSA	Parameter
Drop Test	Section 1500.53(b)	4×3.0 ft
Torque Test	Section 1500.53(e)	4.0 inch·lbf
Tension Test	Section 1500.53(f)	15 lbf
Pressure Test	Section 1500.53(g)	30 lbf

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2. Flammability of Solids Requirement -ASTM F963-23,A5, Standard Consumer Safety Specification for Toy Safety

Test Method: Federal Hazardous Substances Act (FHSA) 16 CFR 1500.44

Test Item	Result	Requirement	Conclusion
I071	Most rapid burn rate is less than 0.1 in./s	Burn rate should not be greater than 0.1 in/sec.	PASS

- Note:**
- 1.DNI = Did not ignite.
 - 2.IBE = Ignited but self-extinguished before burn-rate could be determined.
 - 3.In accordance with the FHSA 16 CFR 1500.3 (C) (6) (vi), the burning rate should not be greater than 0.1 in/sec.
 - 4.The burn rate of all samples is greater than 0.1 in. /s (2.5 mm/s) but less than 0.15 in. /s (3.75 mm/s), accept and consider further investigation for action to improve performance.
 - 5.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.

3. Total Lead Content in Surface Coating - ASTM F963-23, Section 4.3.5.1(1)

Test Method: ASTM F963-23 Section 8.3.1, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	90 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I007	N.D.	PASS
I039+I040+I041	10	PASS
I042+I043+I044	N.D.	PASS
I045+I046+I047	N.D.	PASS
I048+I049+I050	N.D.	PASS
I051+I052+I053	N.D.	PASS
I054+I055+I056	N.D.	PASS
I057+I058+I059	N.D.	PASS
I060+I061+I062	N.D.	PASS
I063+I064+I065	N.D.	PASS
I066+I067+I068	N.D.	PASS
I069+I070	N.D.	PASS

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Note: N.D.= Not Detected(<MDL)
mg/kg = milligram per kilogram = ppm = part per million
MDL= Detection Limit (mg/kg): 10
Results shown are of the total weight of mixed samples.

4. Total Lead Content in Substrate - ASTM F963-23, Section 4.3.5.2(2)(a)

Test Method: ASTM F963-23 Section 8.3.1, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	100 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I001+I002+I003	N.D.	PASS
I004+I005+I006	N.D.	PASS
I008+I009	N.D.	PASS
I010+I011+I012	N.D.	PASS
I013+I014+I015	N.D.	PASS
I016+I017+I018	N.D.	PASS
I019+I020+I021	11	PASS
I022+I023+I024	N.D.	PASS
I025	N.D.	PASS
I026+I027+I028	N.D.	PASS
I029+I030+I031	N.D.	PASS
I032+I033	N.D.	PASS
I034+I035	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
mg/kg = milligram per kilogram = ppm = part per million
MDL= Detection Limit (mg/kg): 10
Results shown are of the total weight of mixed samples.

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5. Soluble Heavy Metals Content in Surface Coating - ASTM F963-23, Section 4.3.5.1(2)

Test Method: ASTM F963-23, Sections 8.3.2 to 8.3.4, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry.

Analyte	Result (mg/kg)						Limit (mg/kg)
	Test Item(s)						
	I007	I039	I040	I041	I042	I043	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	7	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	--

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I044	I045	I046	I047	I048	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	6	6	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

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Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I049	I050	I051	I052	I053	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	5	N.D.	6	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I054	I055	I056	I057	I058	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	6	15	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

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Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I059	I060	I061	I062	I063	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	8	N.D.	N.D.	N.D.	10	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I064	I065	I066	I067	I068	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	12	23	N.D.	6	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

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Analyte	Result (mg/kg)	Limit (mg/kg)
	Test Item(s)	
	I069	
Soluble Arsenic (As)	N.D.	25
Soluble Barium (Ba)	N.D.	1000
Soluble Cadmium (Cd)	N.D.	75
Soluble Chromium (Cr)	N.D.	60
Soluble Mercury (Hg)	N.D.	60
Soluble Lead (Pb)	N.D.	90
Soluble Antimony (Sb)	N.D.	60
Soluble Selenium (Se)	N.D.	500
Conclusion	PASS	--

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 5

6. 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)), Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry.

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I001	I002	I003	I004	I005	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

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Analyte	Result (mg/kg)				Limit (mg/kg)
	Test Item(s)				
	I006	I008	I009	I010	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	--

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I011	I012	I013	I014	I015	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

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Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I016	I017	I018	I019	I020	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I021	I022	I023	I024	I025	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

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Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I026	I027	I028	I036	I037	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	11	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

Analyte	Result (mg/kg)	Limit (mg/kg)
	Test Item(s)	
	I038	
Soluble Arsenic (As)	N.D.	25
Soluble Barium (Ba)	8	1000
Soluble Cadmium (Cd)	N.D.	75
Soluble Chromium (Cr)	N.D.	60
Soluble Mercury (Hg)	N.D.	60
Soluble Lead (Pb)	N.D.	90
Soluble Antimony (Sb)	N.D.	60
Soluble Selenium (Se)	N.D.	500
Conclusion	PASS	--

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 5

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7. Phthalate Content – ASTM F963-23

Test Method: CPSC-CH-C1001-09.4, Analyzed by Gas Chromatography-Mass Spectrometer.

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I001+I002+I003	I004+I005+I006
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	N.D.	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I007	I008
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.008	0.005
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I009	I010+I011+I012
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.008	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I013+I014+I015	I016+I017+I018
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.007	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I019+I020+I021	I022+I023+I024
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.005	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I025	I026+I027+I028
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.012	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I039+I040+I041	I042+I043+I044
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.006	0.008
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I045+I046+I047	I048+I049+I050
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.008	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I051+I052+I053	I054+I055+I056
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.008	0.012
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I057+I058+I059	I060+I061+I062
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.006	0.005
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I063+I064+I065	I066+I067+I068
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.010	0.006
Dibutyl phthalate (DBP)	0.1	N.D.	0.005
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Note: N.D. = Not detected(<MDL) MDL= Detection Limit: 0.005%
mg/kg = milligram per kilogram = ppm = part per million
10000 mg/kg = 1 %
Results shown are of the total weight of mixed samples.
The test items (I007~I009) were provided by client dated on August 12, 2024.

8. Total Lead Content in Surface Coating - United States Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 101(f) / United States Code of Federal Regulations (CFR), Title 16, Part 1303

Test Method: CPSC-CH-E1003-09.1, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	90 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I007	N.D.	PASS
I039+I040+I041	10	PASS
I042+I043+I044	N.D.	PASS
I045+I046+I047	N.D.	PASS
I048+I049+I050	N.D.	PASS
I051+I052+I053	N.D.	PASS
I054+I055+I056	N.D.	PASS
I057+I058+I059	N.D.	PASS
I060+I061+I062	N.D.	PASS

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Test Item(s)	Result (mg/kg)	Conclusion
I063+I064+I065	N.D.	PASS
I066+I067+I068	N.D.	PASS
I069+I070	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 10
 Results shown are of the total weight of mixed samples.

9. Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)

Test Method: CPSC-CH-E1001-08.3 or CPSC-CH-E1002-08.3, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	100 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I001+I002+I003	N.D.	PASS
I004+I005+I006	N.D.	PASS
I008+I009	N.D.	PASS
I010+I011+I012	N.D.	PASS
I013+I014+I015	N.D.	PASS
I016+I017+I018	N.D.	PASS
I019+I020+I021	11	PASS
I022+I023+I024	N.D.	PASS
I025	N.D.	PASS
I026+I027+I028	N.D.	PASS
I029+I030+I031	N.D.	PASS
I032+I033	N.D.	PASS
I034+I035	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 10
 Results shown are of the total weight of mixed samples.

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10. Phthalates Content in Children's Toys and Childcare Articles – Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108 / 16 CFR part 1307

Test Method: CPSC-CH-C1001-09.4, Analyzed by Gas Chromatography-Mass Spectrometer.

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I001+I002+I003	I004+I005+I006
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	N.D.	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I007	I008
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.008	0.005
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I009	I010+I011+I012
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.008	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I013+I014+I015	I016+I017+I018
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.007	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I019+I020+I021	I022+I023+I024
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.005	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I025	I026+I027+I028
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.012	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I039+I040+I041	I042+I043+I044
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.006	0.008
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I045+I046+I047	I048+I049+I050
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.008	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I051+I052+I053	I054+I055+I056
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.008	0.012
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I057+I058+I059	I060+I061+I062
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.006	0.005
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I063+I064+I065	I066+I067+I068
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.010	0.006
Dibutyl phthalate (DBP)	0.1	N.D.	0.005
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Note: N.D. = Not detected(<MDL) MDL= Detection Limit: 0.005%
 mg/kg = milligram per kilogram = ppm = part per million
 10000 mg/kg = 1 %
 Results shown are of the total weight of mixed samples.
 The test items (I007~I009) were provided by client dated on August 12, 2024.

Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

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Test Samples(Samples photograph)



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