

# Test Report

No. : 250100406  
Date : 2025-02-25



**Applicant:** JOYIN US CORP  
**Applicant Address:** 315 W Elliot Rd #107-168 Tempe, AZ 85284  
**Sample Name:** Suntan Lounge/Pool Tube  
**Model No.:** 40801/40800/40915/40463/40868/40897  
**Sample quantity:** 2 set(s)  
**Country of Destination:** US

\*The above information is provided and confirmed by the applicant.

**Labelled age range:** 3+  
**Requested age range:** 3+  
**Age range in testing:** Over 3 years  
**Test category:** Entrusted Test  
**Receipt Date of Sample:** 2025-02-19  
**Date of Testing:** 2025-02-19 ~ 2025-02-25  
**Test Result:** Refer to the data listed in the following pages.

Zhejiang Novi Total Quality Assurance Co., Ltd.

Authorized by:

Emma Liu  
Technical Manager



Authorized Date: 2025-02-25

**Note:**

- (1) The test report is invalid if it lacks the Dedicated Test/Inspection Stamp, approver signatures, and is blotted out.
- (2) It is prohibited to copy the test report partially (except for the entire report) without the written approval of the laboratory. Copies of the test report are invalid without the Dedicated Test/Inspection Stamp.
- (3) The applicant is responsible for the representativeness of the sample and the authenticity of the information. The laboratory assumes no liability.
- (4) The test results apply only to the received and tested sample(s).
- (5) Without the approval of the laboratory, the applicant shall not use the results for inappropriate publicity.
- (6) The testing result evaluation in the report is only based on the test results, without taking the uncertainty of the test results into account (except for special requests).
- (7) As requested by the applicant, test item(s) and component(s) details refer to attached page(s)

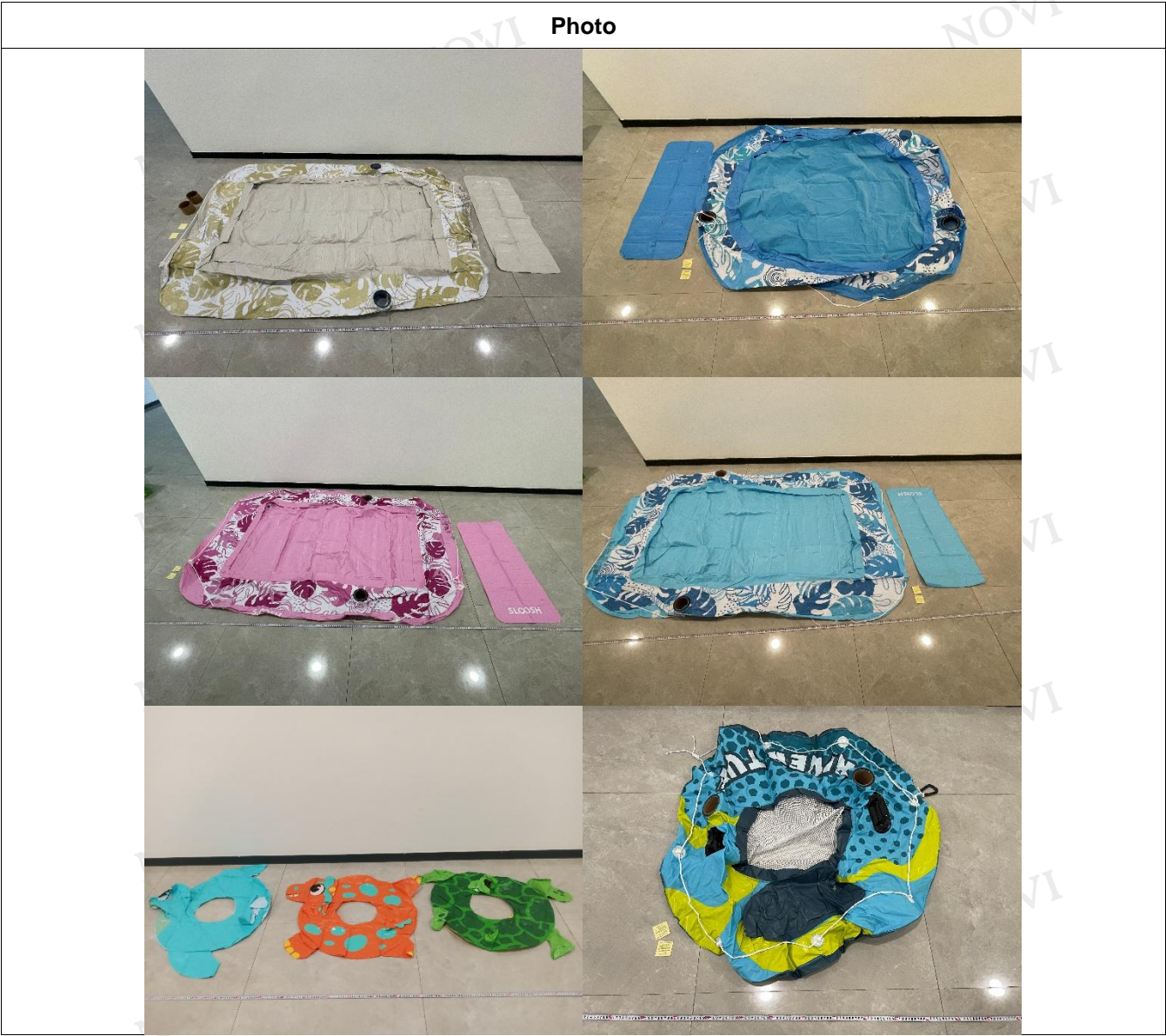
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Test Item	Conclusion
1. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical, Mechanical and flammability test & Chemical Requirement	Pass
2. With reference to ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical, Mechanical and flammability test & Chemical Requirement Excluding the requirement of Clause 5,6,7	Pass
3. Physical & Mechanical - small part, sharp point, sharp edge	Pass
4. CPSC 16 CFR 1500.44 Flammability Test on Solid	Pass
5. Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 - Tracking labels for children's products	Pass
6. 16 CFR Part 1303, Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead-Containing Paint	Pass
7. Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 101 - Total Lead Content in Paint and Similar Surface-coating Materials	Pass
8. Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 101 - Total Lead Content in substrate materials	Pass
9. 16 CFR Part 1307 amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass
10. With reference to 16 CFR Part 1307 amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass
11. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Soluble Elements in Surface coatings and Substrates Except Modeling Clays	Pass
12. With reference to ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Soluble Elements in Surface coatings and Substrates Except Modeling Clays	Pass
13. With reference to ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Total Lead Content in Substrate Materials	Pass
14. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Phthalate Content	Pass
15. With reference to ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Phthalate Content	Pass
16. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Total Lead Content in Paint and Similar Surface-coating Materials	Pass



Chemical Test Sample No.	Description
1	Aqua coating on plastic. (body-40463)
2	Light blue soft plastic. (body-40800)
3	Pink soft plastic. (body-40801)
4	White soft plastic excluding coatings. (body-40868)
5	Light beige soft plastic. (body-40897)
6	Black plastic. (handle-40915)



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## Test Result:

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

For 40463:

Clause	Requirement	Evaluation
4	Safety Requirements	
4.1	Material quality	P
4.2	Flammability	P
4.3	Toxicology	
4.3.5	Heavy Elements	P
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
4.5	Sound-producing toys	NA
4.5.1.1	Close-to-the-ear Toys ( $L_{Aeq}$ 65 dB, $L_{Cpeak}$ 110 dB)	NA
4.5.1.2	Hand-held toys ( $L_{Aeq}$ 85 dB, $L_{Cpeak}$ 115 dB)	NA
4.5.1.3	Rattle ( $L_{Cpeak}$ 115 dB)	NA
4.5.1.4	Stationary or Self-propelled Tabletop, Floor, or Crib Toys ( $L_{Aeq}$ 85 dB, $L_{Cpeak}$ 115 dB)	NA
4.5.1.5	User-propelled Tabletop, Floor, or Crib Toys ( $L_{AFmax}$ 85 dB, $L_{Cpeak}$ 115 dB)	NA
4.5.1.6	Push or pull toys ( $L_{Aeq}$ 85 dB, $L_{AFmax}$ 94 dB, $L_{Cpeak}$ 115 dB)	NA
4.5.1.7	Toys using explosive action ( $L_{Cpeak}$ 125 dB)	NA
4.6	Small Objects	NA
4.6.1	Toys intended for children under 36 months of age	NA
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
4.7.1	Potential sharp metal and glass	NA
4.7.2	Functional sharp edge 48 to 96 months - warning	NA
4.7.3	Metal toys	NA
4.7.4	Molded toys	P
4.7.5	Exposed bolts or threaded rods	NA
4.8	Projections	NA
4.8.1	Bath toy projections	NA
4.9	Accessible points	P
4.9.1	Potential sharp point (under 8 years of age)	P
4.9.2	Functional sharp point 48 to 96 months—warning	NA
4.9.3	Wood splinter	NA
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	P
4.13	Folding mechanisms and hinges	NA
4.13.1	Folding mechanisms	NA
4.13.2	Hinge-line Clearance	NA
4.14	Cords, straps, and elastics	NA
4.14.1	Cords, Straps, and Elastics in Toys	NA
4.14.2	Self-retracting pull cords (less than 18 months of age)	NA
4.14.3	Pull toys (under 36 months of age)	NA
4.14.4	Strings and lines for flying devices	NA
4.14.5	Cords on toy bags intended for children up to 18 months	NA
4.14.6	Ride-on toys straps used for waist restraints	NA
4.15	Stability and over-load requirements	P



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4.15.1	Stability of ride-on toys and toy seats	NA
4.15.2	Sideways stability requirements (60 months of age or less)	NA
4.15.3	Fore and aft stability (60 months of age or less)	NA
4.15.4	Stability of stationary floor toys	NA
4.15.5	Overload requirements for ride-on toys and toy seats	P
4.15.6	Wheeled ride-on toys	NA
4.16	Confined spaces	NA
4.16.1	Ventilation	NA
4.16.2	Closures	NA
4.16.3	Toys that enclose the head	NA
4.17	Wheels, tires, and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.18.1	Accessible clearances for moveable segments (under 96 months of age)	NA
4.18.2	Circular holes in rigid materials (aged 60 months or less)	NA
4.18.3	Chains and belts	NA
4.18.4	Inaccessibility of mechanisms (aged 60 months or less)	NA
4.18.5	Winding keys (under 36 months of age)	NA
4.18.6	Coil springs	NA
4.19	Simulated protective devices	NA
4.19.1	Eye protection	NA
4.19.2	Simulate safety protective devices--label	NA
4.20	Pacifiers	NA
4.20.1	Pacifiers with rubber nipples	NA
4.20.2	Small objects	NA
4.21	Projectile toys	NA
4.21.1	All Projectiles	NA
4.21.2	Projectile Toys with Stored Energy	NA
4.21.3	Projectile Toys without Stored Energy	NA
4.21.4	Rotors	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NA
4.25.1	Battery polarity, size and voltage marking	NA
4.25.2	Maximum allowable direct current potential	NA
4.25.3	Non-rechargeable battery	NA
4.25.4	Battery accessibility	NA
4.25.5	Batteries of different types or capacities	NA
4.25.6	Battery surface temperature limit	NA
4.25.7	General requirement on temperature and combustion hazard	NA
4.25.8	Instructions on safe battery usage	NA
4.25.9	Battery-Powered Ride-On Toys	NA
4.25.10	Toys that Contain Secondary Cells or Secondary Batteries	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.26.1	Protrusions	NA
4.26.2	Crib mobile	NA
4.26.3	Crib gyms	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

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4.32.1	Nearly Spherical, hemispherical, circular flared or dome-shaped ends of toys or components of toys (up to the age of 18 months)	NA
4.32.2	Nearly Spherical, hemispherical, or dome-shaped ends of toy fasteners (aged at least 18 months, but less than 48 month of age)	NA
4.32.3	Preschool play figures (under 3 years of age)	NA
4.33	Marbles	NA
4.34	Balls	NA
4.34.1	Balls/loose balls in toys (under 36 months of age)	NA
4.34.2	Toys contain loose small ball (3~8 years)– Warning	NA
4.35	Pompoms	NA
4.36	Hemispherical-shaped objects	NA
4.36.1	Objects intended for drinking	NA
4.36.2	Objects intended to hold liquids in products appropriate for children at least 2 years old	NA
4.36.3	Containers that shall be airtight so the contents can maintain their functional integrity	NA
4.36.4	Non-detachable components of larger products	NA
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	NA
4.38.1	Loose as-received hazardous magnet or magnetic component	NA
4.38.2	Loose hazardous magnet or magnetic component after abuse testing	NA
4.38.3	Magnetic/electrical experimental sets intended for children over eight years of age --Safety labeling	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy chests	NA
4.41.1	Lid Support	NA
4.41.2	Hinge Line Clearance	NA
4.41.3	Closures	NA
4.41.4	Ventilation	NA
4.41.5	Markings and instruction	NA
5	Labeling Requirements	
5.1.2	Tracking information on both product and its packaging	P
5.2	Age Grading Labeling	P
5.3	Safety Labeling Requirement	P
5.4	Aquatic toys	P
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	NA
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	NA
6.5	Battery-operated toys	NA

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6.6	Battery-powered ride on toys	NA
6.7	Toys in contact with food	NA
6.8	Toys 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

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

For 40801/40800/40915/40868/40897:

Clause	Requirement	Evaluation
4	Safety Requirements	
4.1	Material quality	P
4.2	Flammability	P
4.3	Toxicology	
4.3.5	Heavy Elements	P
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
4.5	Sound-producing toys	NA
4.5.1.1	Close-to-the-ear Toys ( $L_{Aeq}$ 65 dB, $L_{Cpeak}$ 110 dB)	NA
4.5.1.2	Hand-held toys ( $L_{Aeq}$ 85 dB, $L_{Cpeak}$ 115 dB)	NA
4.5.1.3	Rattle ( $L_{Cpeak}$ 115 dB)	NA
4.5.1.4	Stationary or Self-propelled Tabletop, Floor, or Crib Toys ( $L_{Aeq}$ 85 dB, $L_{Cpeak}$ 115 dB)	NA
4.5.1.5	User-propelled Tabletop, Floor, or Crib Toys ( $L_{AFmax}$ 85 dB, $L_{Cpeak}$ 115 dB)	NA
4.5.1.6	Push or pull toys ( $L_{Aeq}$ 85 dB, $L_{AFmax}$ 94 dB, $L_{Cpeak}$ 115 dB)	NA
4.5.1.7	Toys using explosive action ( $L_{Cpeak}$ 125 dB)	NA
4.6	Small Objects	NA
4.6.1	Toys intended for children under 36 months of age	NA
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months	NA
4.7	Accessible edges	NA
4.7.1	Potential sharp metal and glass	NA
4.7.2	Functional sharp edge 48 to 96 months - warning	NA
4.7.3	Metal toys	NA
4.7.4	Molded toys	NA
4.7.5	Exposed bolts or threaded rods	NA
4.8	Projections	NA
4.8.1	Bath toy projections	NA
4.9	Accessible points	NA
4.9.1	Potential sharp point (under 8 years of age)	NA
4.9.2	Functional sharp point 48 to 96 months—warning	NA
4.9.3	Wood splinter	NA
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	P



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4.13	Folding mechanisms and hinges	NA
4.13.1	Folding mechanisms	NA
4.13.2	Hinge-line Clearance	NA
4.14	Cords, straps, and elastics	NA
4.14.1	Cords, Straps, and Elastics in Toys	NA
4.14.2	Self-retracting pull cords (less than 18 months of age)	NA
4.14.3	Pull toys (under 36 months of age)	NA
4.14.4	Strings and lines for flying devices	NA
4.14.5	Cords on toy bags intended for children up to 18 months	NA
4.14.6	Ride-on toys straps used for waist restraints	NA
4.15	Stability and over-load requirements	P
4.15.1	Stability of ride-on toys and toy seats	NA
4.15.2	Sideways stability requirements (60 months of age or less)	NA
4.15.3	Fore and aft stability (60 months of age or less)	NA
4.15.4	Stability of stationary floor toys	NA
4.15.5	Overload requirements for ride-on toys and toy seats	P
4.15.6	Wheeled ride-on toys	NA
4.16	Confined spaces	NA
4.16.1	Ventilation	NA
4.16.2	Closures	NA
4.16.3	Toys that enclose the head	NA
4.17	Wheels, tires, and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.18.1	Accessible clearances for moveable segments (under 96 months of age)	NA
4.18.2	Circular holes in rigid materials (aged 60 months or less)	NA
4.18.3	Chains and belts	NA
4.18.4	Inaccessibility of mechanisms (aged 60 months or less)	NA
4.18.5	Winding keys (under 36 months of age)	NA
4.18.6	Coil springs	NA
4.19	Simulated protective devices	NA
4.19.1	Eye protection	NA
4.19.2	Simulate safety protective devices--label	NA
4.20	Pacifiers	NA
4.20.1	Pacifiers with rubber nipples	NA
4.20.2	Small objects	NA
4.21	Projectile toys	NA
4.21.1	All Projectiles	NA
4.21.2	Projectile Toys with Stored Energy	NA
4.21.3	Projectile Toys without Stored Energy	NA
4.21.4	Rotors	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NA
4.25.1	Battery polarity, size and voltage marking	NA
4.25.2	Maximum allowable direct current potential	NA
4.25.3	Non-rechargeable battery	NA
4.25.4	Battery accessibility	NA
4.25.5	Batteries of different types or capacities	NA
4.25.6	Battery surface temperature limit	NA
4.25.7	General requirement on temperature and combustion hazard	NA
4.25.8	Instructions on safe battery usage	NA
4.25.9	Battery-Powered Ride-On Toys	NA
4.25.10	Toys that Contain Secondary Cells or Secondary Batteries	NA

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4.26	Toys intended to be attached to a crib or playpen	NA
4.26.1	Protrusions	NA
4.26.2	Crib mobile	NA
4.26.3	Crib gyms	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
4.32.1	Nearly Spherical, hemispherical, circular flared or dome-shaped ends of toys or components of toys (up to the age of 18 months)	NA
4.32.2	Nearly Spherical, hemispherical, or dome-shaped ends of toy fasteners (aged at least 18 months, but less than 48 month of age)	NA
4.32.3	Preschool play figures (under 3 years of age)	NA
4.33	Marbles	NA
4.34	Balls	NA
4.34.1	Balls/loose balls in toys (under 36 months of age)	NA
4.34.2	Toys contain loose small ball (3~8 years)– Warning	NA
4.35	Pompoms	NA
4.36	Hemispherical-shaped objects	NA
4.36.1	Objects intended for drinking	NA
4.36.2	Objects intended to hold liquids in products appropriate for children at least 2 years old	NA
4.36.3	Containers that shall be airtight so the contents can maintain their functional integrity	NA
4.36.4	Non-detachable components of larger products	NA
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	NA
4.38.1	Loose as-received hazardous magnet or magnetic component	NA
4.38.2	Loose hazardous magnet or magnetic component after abuse testing	NA
4.38.3	Magnetic/electrical experimental sets intended for children over eight years of age --Safety labeling	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy chests	NA
4.41.1	Lid Support	NA
4.41.2	Hinge Line Clearance	NA
4.41.3	Closures	NA
4.41.4	Ventilation	NA
4.41.5	Markings and instruction	NA
5	Labeling Requirements	#1
6	Instructional Literature	#1
7	Producer's Marking	#1

## \* Abbreviation:

P = Pass, NA = Not Applicable

**Remark:** #1 = This product is tested as non-toy product, thus Clause 5,6,7 were not evaluated.

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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	Not for under 3 years.	NA
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 metal or glass	NA

## 4. CPSC 16 CFR 1500.44 Flammability Test on Solid

Item	Requirement	Results, remarks	Evaluation
16 CFR 1500.3(C)(6)(vi)	Flammable solid	Remark: On the submitted samples according to 16 CFR 1500.44.	P

Abbreviation: P = Pass, N/A = Not Applicable

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

Section	Requirement	Evaluation
Tracking labels for children's product	Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008	Pass

### 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.

## 6. 16 CFR Part 1303, Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead-Containing Paint

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

Sample No.	Unit	RL	Limit	Result	Conclusion
1	mg/kg	10	90	ND	Pass

Remark: 1). RL = Reporting Limit  
2). ND = Not Detected (<RL)

## 7. Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 101 - Total Lead Content in Paint and Similar Surface-coating Materials

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

Sample No.	Unit	RL	Limit	Result	Conclusion
1	mg/kg	10	90	ND	Pass

Remark: 1). RL = Reporting Limit  
2). ND = Not Detected (<RL)



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

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

Sample No.	Unit	RL	Limit	Result	Conclusion
2+3	mg/kg	10	100	ND	Pass
4+5	mg/kg	10	100	ND	Pass
6	mg/kg	10	100	ND	Pass

Remark: 1). RL = Reporting Limit  
2). ND = Not Detected (<RL)

## 9. 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.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)
				1
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	50	1000	ND
Dibutyl phthalate (DBP)	84-74-2	50	1000	ND
Benzyl butyl phthalate (BBP)	85-68-7	50	1000	ND
Diisobutyl phthalate (DIBP)	84-69-5	50	1000	ND
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	50	1000	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	50	1000	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	50	1000	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	50	1000	ND
Conclusion				Pass

Remark: 1). RL= Reporting Limit  
2). ND = Not Detected (<RL)

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## 10. With reference to 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.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)		
				2+3	4+5	6
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	50	1000	ND	ND	ND
Dibutyl phthalate (DBP)	84-74-2	50	1000	ND	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	50	1000	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	50	1000	ND	ND	ND
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	50	1000	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	50	1000	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	50	1000	ND	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	50	1000	ND	ND	ND
Conclusion				Pass	Pass	Pass

Remark: 1). RL= Reporting Limit  
2). ND = Not Detected (<RL)

## 11. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Soluble Elements in Surface coatings and Substrates Except Modeling Clays

Test with reference to ASTM F963-23 Section 8.3, determination by ICP-MS.

Element	RL [mg/kg]	Limit [mg/kg]	Result [mg/kg]
			1
Soluble Antimony (Sb)	5.0	60.0	ND
Soluble Arsenic (As)	2.5	25.0	ND
Soluble Barium (Ba)	5.0	1000.0	14
Soluble Cadmium (Cd)	5.0	75.0	ND
Soluble Chromium (Cr)	5.0	60.0	ND
Soluble Lead (Pb)	5.0	90.0	ND
Soluble Mercury (Hg)	5.0	60.0	ND
Soluble Selenium (Se)	5.0	500.0	ND
Conclusion			Pass

Remark: 1). RL = Reporting Limit  
2). ND = Not Detected (<RL)  
3). The results have been adjusted by analytical correction

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## 12. With reference to ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Soluble Elements in Surface coatings and Substrates Except Modeling Clays

Test with reference to ASTM F963-23 Section 8.3, determination by ICP-MS.

Element	RL [mg/kg]	Limit [mg/kg]	Result [mg/kg]				
			2	3	4	5	6
Soluble Antimony (Sb)	5.0	60.0	ND	ND	ND	ND	ND
Soluble Arsenic (As)	2.5	25.0	ND	ND	ND	ND	ND
Soluble Barium (Ba)	5.0	1000.0	ND	ND	ND	ND	ND
Soluble Cadmium (Cd)	5.0	75.0	ND	ND	ND	ND	ND
Soluble Chromium (Cr)	5.0	60.0	ND	ND	ND	ND	ND
Soluble Lead (Pb)	5.0	90.0	ND	ND	ND	ND	ND
Soluble Mercury (Hg)	5.0	60.0	ND	ND	ND	ND	ND
Soluble Selenium (Se)	5.0	500.0	ND	ND	ND	ND	ND
Conclusion			Pass	Pass	Pass	Pass	Pass

Remark: 1). RL = Reporting Limit  
2). ND = Not Detected (<RL)  
3). The results have been adjusted by analytical correction

## 13. With reference to ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Total Lead Content in Substrate Materials

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

Sample No.	Unit	RL	Limit	Result	Conclusion
2+3	mg/kg	10	100	ND	Pass
4+5	mg/kg	10	100	ND	Pass
6	mg/kg	10	100	ND	Pass

Remark: 1). RL = Reporting Limit  
2). ND = Not Detected (<RL)



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## 14. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Phthalate Content

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

Parameter	CAS No.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	
				1	
Di-(2-ethyhexyl) phthalate (DEHP)	117-81-7	50	1000	ND	
Dibutyl phthalate (DBP)	84-74-2	50	1000	ND	
Benzyl butyl phthalate (BBP)	85-68-7	50	1000	ND	
Diisobutyl phthalate (DIBP)	84-69-5	50	1000	ND	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	50	1000	ND	
Di-n-pentyl phthalate (DPENP)	131-18-0	50	1000	ND	
Di-n-hexyl phthalate (DHEXP)	84-75-3	50	1000	ND	
Dicyclohexyl phthalate (DCHP)	84-61-7	50	1000	ND	
Conclusion				Pass	

Remark: 1). RL= Reporting Limit  
2). ND = Not Detected (<RL)

## 15. With reference to ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Phthalate Content

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

Parameter	CAS No.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)		
				2+3	4+5	6
Di-(2-ethyhexyl) phthalate (DEHP)	117-81-7	50	1000	ND	ND	ND
Dibutyl phthalate (DBP)	84-74-2	50	1000	ND	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	50	1000	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	50	1000	ND	ND	ND
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	50	1000	ND	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	50	1000	ND	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	50	1000	ND	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	50	1000	ND	ND	ND
Conclusion				Pass	Pass	Pass

Remark: 1). RL= Reporting Limit  
2). ND = Not Detected (<RL)

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## 16. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Total Lead Content in Paint and Similar Surface-coating Materials

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

Sample No.	Unit	RL	Limit	Result	Conclusion
1	mg/kg	10	90	ND	Pass

Remark: 1). RL = Reporting Limit  
2). ND = Not Detected (<RL)

**Packet Photo**





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Tag Photo

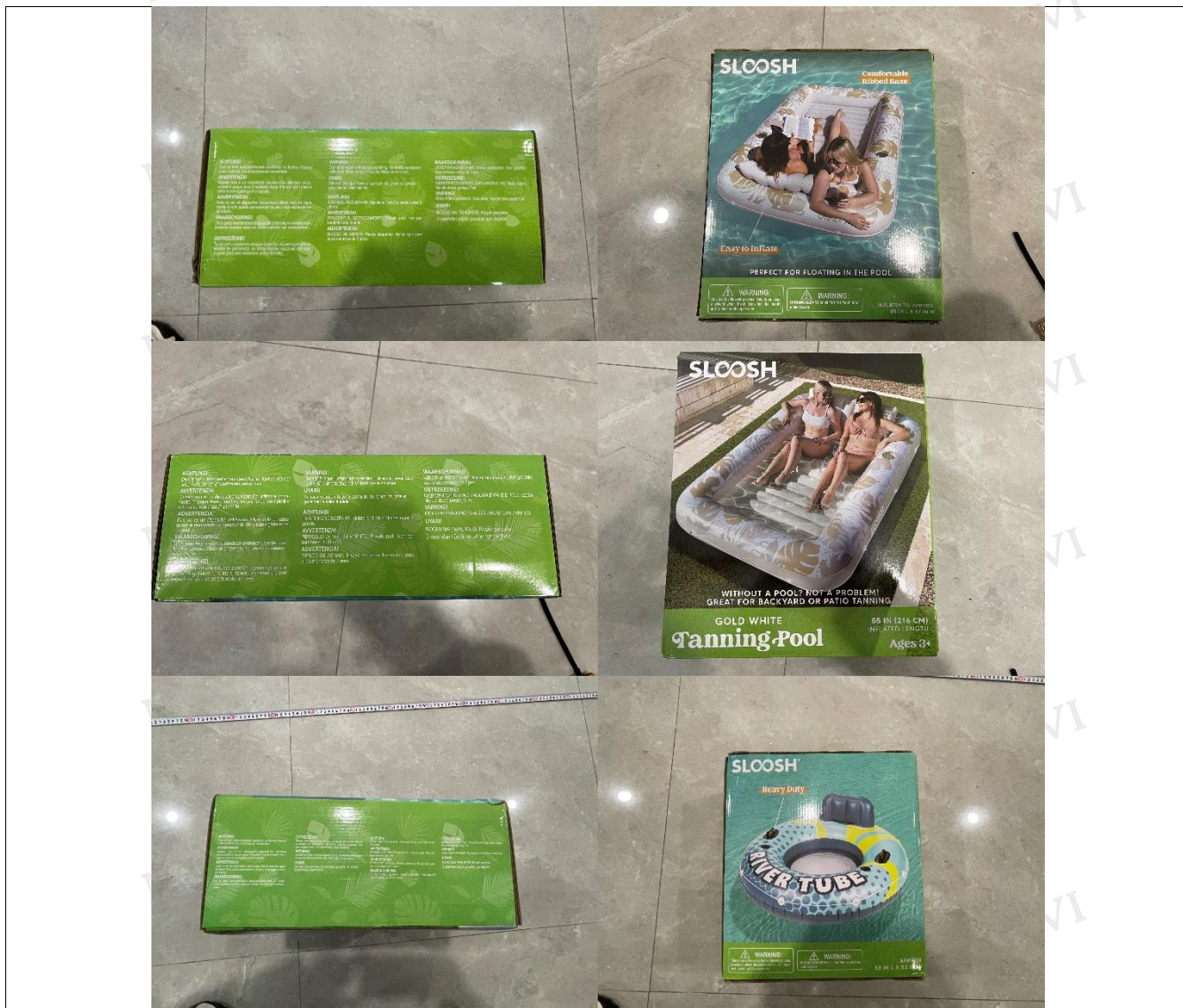




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-End of Test Report-