

Report No.: **158303672a 001**

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**Client:** ONE FOR FUN LIMITED

**Contact Information:** 3-5 Cambuslang Way, Gateway Office Park, Cambuslang, Glasgow, G32 8ND

**Manufacturer's name:** 608625

**Test item(s):** Toys

**Identification/  
Model No(s):** 118ml BUBBLE STICK  
Item No.: SV22097

**Sample obtaining method:** Sending by customer

**Condition at delivery:** Test item complete and undamaged.

**Sample Receiving date:** 2025-01-14

**Testing Period:** 2025-01-14 to 2025-01-22

**Place of testing:** Chemical laboratory Hong Kong, Toys laboratory Hong Kong

**Test Specification:**

Please refer to "Test Result Summary List" on page 2 for details

**Other information:**

Country of Origin: China  
Country of Destination: US

The provided age grade of the item(s) : Not Provided  
The appropriate age grade of the item(s) : Not requested (by client)  
Per client's request, the item(s) was/ were tested for the age of over 3 years.

Packaging provided: No

For and on behalf of  
TÜV Rheinland Hong Kong Ltd.



Amenda Yung/  
Senior CS Manager

2025-01-23

Date

Name/Position



Wong Yiu Tong , Tommy/  
Senior Lab Manager

2025-01-23

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.  
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.  
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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**Test Result Summary :*****Test Specification:***

- 1 ASTM F963-23: Mechanical and physical
- 2 ASTM F963-23: Flammability on solid and soft toys
- 3 15 USC 1278a (CPSIA Sect. 101), ASTM F963-23 Sect. 4.3.5.2 and Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Total lead content in substrate materials
- 4 ASTM F963-23 Sect. 4.3.5.1 and 4.3.5.2: Soluble heavy metal
- 5 CPSIA Section 108 as amended by 16 CFR 1307 : Phthalates

***Test result:***

PASS

PASS

PASS

PASS

PASS

California Safe Drinking Water and Toxic Enforcement Act of 1986 (CA Prop 65):  
DEHP, BBP, DBP, DIDP, DnHP content

PASS

- 6 Microbial Contamination & ASTM F963-23

PASS

- 7 - Flash point of volatile flammable materials

PASS

The above test(s) is/are tested according to 16 CFR 1500.43a

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**Material List:**

Item: 118ml BUBBLE STICK

Item No.: SV22097

Material No.	Material	Color	Location
M001	Whole Product	Multicolor	Whole product
M002	Plastic	Blue	Lid of bubble solution container
M003	Plastic	Red	Lid of bubble solution container
M004	Plastic	Green	Lid of bubble solution container
M005	Plastic	Pink	Lid of bubble solution container
M006	Plastic	Transparent blue	Body of bubble solution container
M007	Plastic	Transparent red	Body of bubble solution container
M008	Plastic	Transparent green	Body of bubble solution container
M009	Plastic	Transparent pink	Body of bubble solution container
M010	Plastic	White	Bubble wand
M011	Plastic	Transparent	Bubble wand holder
M012	Liquid	Transparent	Bubble solution

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**1.ASTM F963-23: Mechanical and physical**
**Test result:**

Test No:	T001
Material No:	M001
<b>4. Safety requirements</b>	
4.1 Material Quality (visual check)	PASS
4.7 Accessible Edges	PASS
4.9 Accessible Points	PASS
<b>5. Labeling Requirements</b>	
5.1.2 Tracking Label	Not Conducted
5.2 Age Grading Labeling	Not Conducted
5.3 Safety Labeling Requirements	Not Conducted
5.4 Aquatic Toys	Not Conducted
5.5 Crib and Playpen Toys	Not Conducted
5.6 Mobiles	Not Conducted
5.7 Stroller and Carriage Toys	Not Conducted
5.8 Toys Intended to be Assembled By an Adult	Not Conducted
5.9 Simulated Protective Devices	Not Conducted
5.10 Toys with Functional Sharp Edges or Points	Not Conducted
5.11 Small Objects, Small Balls, Marbles and Balloons	Not Conducted
5.12 Art Materials	Not Conducted
5.15 Promotional Materials	Not Conducted
5.16 Magnets	Not Conducted
<b>6. Instructional Literature</b>	
6.1 Definition and Description	Not Conducted
6.2 Crib and Playpen Toys	Not Conducted
6.3 Mobiles	Not Conducted
6.4 Toys Intended to be Assembled By an Adult	Not Conducted
6.7 Toys in Contact with Food	Not Conducted
6.8 Toy Chests	Not Conducted
<b>7. Producer's Markings</b>	
7.1 Name and address of the producer or the distributor	Not Conducted
7.3 Toy Chests	Not Conducted

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**Use and Abuse Tests:**

The submitted samples were undergone the use and abuse tests in accordance with FHSA 16 CFR and whichever is applicable the tested age grade.

According to the Laboratory Test Manual from CPSC, 12 submitted samples are equally divided for carrying out the use and abuse testing.

Age Category	Drop Test	Flexure Test	Torque Test	Tension Test	Compression Test
0-18 Months 16 CFR 1500.51	10 x 4.5 ft	120 Arc 30 Cycles 10 lbs	2 in-lbf	10 lbf	20 lbf
19-36 Months 16 CFR 1500.52	4 x 3 ft	120 Arc 30 Cycles 15 lbs	3 in-lbf	15 lbf	25 lbf
37-96 Months 16 CFR 1500.53	4 x 3 ft	120 Arc 30 Cycles 15 lbs	4 in-lbf	15 lbf	30 lbf

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

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**2.ASTM F963-23: Flammability on solid and soft toys****Test result:**

Test No:	T001
Material No:	M001
<b>4.2 Flammability on solids and soft toys</b>	PASS

The burning rate of the most severe part = IBE

Note: Maximum permissible burning rate = 0.1 Inch/sec.

**Abbreviation:** IBE = Ignite But Self-extinguish

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**3.15 USC 1278a (CPSIA Sect. 101), ASTM F963-23 Sect. 4.3.5.2 and Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Total lead content in substrate materials**

Test method: CPSC-CH-E1001-08.3 and CPSC-CH-E1002-08.3 (Microwave method)

Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M002 + M003 + M004	Lead Content	ppm	10	100	< RL
T002	M005 + M006 + M007	Lead Content	ppm	10	100	< RL
T003	M008 + M009	Lead Content	ppm	10	100	< RL
T004	M010 + M011	Lead Content	ppm	10	100	< RL
T005	M012	Lead Content	ppm	10	100	< RL

Abbreviation: < = less than  
 RL = Reporting Limit  
 ppm = parts per million

Remark:

- \* The highlighted result was found to be more than the maximum permissible limit.
- \*1 Requirement according to Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
  - a) Paint or other surface coating shall not contain more than 0.009% (90 ppm) total lead content
  - b) All other components shall not contain more than 0.01% (100 ppm) total lead content

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**4.ASTM F963-23 Sect. 4.3.5.1 and 4.3.5.2: Soluble heavy metal**

Test method: For paint and similar surface-coating materials: ASTM F963-23 Section 8.3.2 – 8.3.4  
 Method to Dissolve Soluble Matter for Surface Coatings, Preparation of Test Samples  
 and Test Procedures  
 For substrate: ASTM F963-23 Section 8.3.5 Soluble Element Test Method for Substrate  
 Materials

Test result:

Test No.	Material No.	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Mass of trace amount (mg)	Conclusion
		Maximum Permissible Limit of Any Toy Materials except Modelling Clay (mg/kg)									
		60	25	1000	75	60	90	60	500		
		Maximum Permissible Limit of Modelling Clay (mg/kg)									
		60	25	250	50	25	90	25	500		
		RL (mg/kg)									
		5	5	2.5	2.5	2.5	2.5	2.5	10		
T001	M002	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T002	M003	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T003	M004	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T004	M005	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T005	M006	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T006	M007	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T007	M008	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T008	M009	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T009	M010	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T010	M011	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T011	M012	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS

Abbreviation: < = less than  
 RL = Reporting Limit  
 mg/kg = milligram per kilogram

Remark:

\* Migration results of eight elements shown are the adjusted analytical results

Element	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical Correction (in %)	60	60	30	30	30	30	50	60

\*\* According to ASTM F963-23, if the weight of a test portion of toy material is less than 10 mg, the analysis of migration of certain elements would not be required. If the weight of a test portion of toy material is between 10 mg and 100 mg, the analytical results would be calculated as though 100mg of the test portion had been used.

\*\*\* The highlighted result was found to be more than the maximum permissible limit.



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**5. Phthalates content**

Test Method: Ref. to CPSC-CH-C1001-09.4

**Test Result:**

Test No.				T001	T002	T003
Material No.				M002 + M003 + M004	M005 + M006 + M007	M008 + M009
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL	< RL	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL	< RL	< RL
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.01	< RL	< RL	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.01	< RL	< RL	< RL
Di-n-pentyl phthalate (DnPP)	131-18-0	%	0.01	< RL	< RL	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.01	< RL	< RL	< RL
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.01	< RL	< RL	< RL
Conclusion: ASTM F963-23 cl.4.3.8 and CPSIA Section 108 as amended by 16 CFR 1307				Pass	Pass	Pass
Conclusion: CA Prop 65 DEHP, BBP, DBP, DIDP and DnHP content				Pass	Pass	Pass

Test No.				T004
Material No.				M010 + M011
Test Parameter	CAS NO	Unit	RL	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.01	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.01	< RL
Di-n-pentyl phthalate (DnPP)	131-18-0	%	0.01	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.01	< RL
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.01	< RL
Conclusion: ASTM F963-23 cl.4.3.8 and CPSIA Section 108 as amended by 16 CFR 1307				Pass
Conclusion: CA Prop 65 DEHP, BBP, DBP, DIDP and DnHP content				Pass

**Abbreviation:** < = less than  
 RL = Reporting Limit  
 % = percentage

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**Remark:**

- Requirement of Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):DEHP, BBP, DBP, DIDP and DnHP content  
1,000ppm (0.1%) each as quoted from County of Alameda Case No. BG-07350969
- Requirement of ASTM F963-23 cl.4.3.8 and Consumer Product Safety Improvement Act 2008, section 108, as amended by 16 CFR 1307 is summarized below:

Parameter	Unit	Maximum Permissible Limit
Accessible plasticized components in children's toy or childcare article:		
Dibutyl phthalate (DBP), Benzylbutyl phthalate (BBP), Diethylhexyl phthalate (DEHP), Diisononyl phthalate (DINP), Diisobutyl Phthalate (DIBP), Di-n-pentyl Phthalate (DPENP) (DnPP), Di-n-hexyl Phthalate (DHEXP) (DnHP), Dicyclohexyl Phthalate (DCHP)	%	0.1 (each)

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**6. Microbial Contamination**

Test Method: United States Pharmacopeia General Chapter 61 &amp; 62, 2023 and ASTM F963-23 Section 4.3.6

	<b>Test No.:</b>	T001
	<b>Material No:</b>	M012
		<b>Result</b>
<b>Total Viable Aerobic Count</b>		-
Total Aerobic Microbial Count (TAMC)		<10 CFU/g
Total Combined Yeasts and Molds Count (TYMC)		<10 CFU/g
<b>Specified Micro-Organisms</b>		-
Staphylococcus aureus		Absent in 1g
Pseudomonas aeruginosa		Absent in 1g
Salmonella		Absent in 10g
Escherichia coli		Absent in 1g
Bile-Tolerant Gram-Negative Bacteria		Absent in 1g
Candida albicans		Absent in 1g

**Abbreviation:** < denotes less than  
 CFU/g denotes Colony Forming Unit per gram  
 CFU/ml denotes Colony Forming Unit per milliliter  
 Present means "Detected"; Absent means "Not Detected"

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**Remark:**

- \*1 If the result is "< 10 CFU/g or CFU/ml", it means no microbial colony was detected on agar plate in 10 fold dilution.
- \*2 With reference to the limit of ASTM F963-23 section 8.4.1 Cleanliness of Materials
- The recommended limit for infant products or high likelihood of being used in the area of eye-is <100cfu/g or cfu/ml of product, and the maximum permissible value is 500 cfu/g or cfu/ml.
  - The recommended limit for all other products is <1,000cfu/g or cfu/ml of product, and the maximum permissible value is 5,000 cfu/g or cfu/ml.
  - The following objectionable microorganisms should be identified as absent in the product  
Staphylococcus aureus  
Escherichia coli  
Pseudomonas aeruginosa  
Salmonella sp.  
Shigella sp. (Avian feather products only)
- With reference to the limit of ASTM F963-23 section 4.3.6.1 Processed water used in manufacturing and filling of toys
- The recommended limit for Heterotrophic plate coun is <10 CFU/ml
  - The following objectionable microorganisms should be identified as absent in the product  
Coliforms
- \*3 The result should be based on submitted sample only, the nature and processing of product should not be taken into account.

*This test is sub-contracted to a laboratory which complies with the requirement of ISO/IEC 17025:2005.*

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**7.16 CFR 1500.43 (a) Test for Flashpoint of Volatile Flammable Material****Test result:**

4.3.1 Flammability on liquid	PASS
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Test Method: Flash point determination in accordance with Consumer Product Safety  
Commission Regulation 16 CFR 1500.43a

Test No.	Material No.	Liquid	Result
T001	M001	Non-Flammable	Pass

Limit: The liquid sample shall not be Flammable or Combustible liquid.

Definition: Flammable liquid - Flash point > 20 °F - < 100 °F

Combustible liquid - Flash point 100 °F - 150 °F

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Sample Photos



- END -

