Test Report

Report No.: LST24050232EN **Date:** May. 17, 2024

Applicant: One For Fun Limited

Address: 3-5 Cambuslang Way, Gateway Office Park, Cambuslang, Glasgow, G32 8ND

The following sample(s) information and test item(s) were submitted and identified by/on behalf of the applicant

Sample Name:	10cm Gel Ball
Sample Model:	SV15420
Labeled age group:	3+
Age grading for testing:	3+
Applicant's specified age group for testing:	3+
Sample Receiving Date:	May. 13, 2024
Testing Period:	May. 13, 2024 to May. 16, 2024

**********FOR FURTHER DETAILS,PLEASE REFER TO THE FOLLOWING PAGE(S)**********

Signed for and on behalf of LST

Rory / Technical Manager

Signed for and on behalf of LST

Davy / Lab supervisor

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Test Report

Summary of Test Result(s):

No.	Test Sample	Test Requested	Result(s)
1	Tested materials of submitted samples	US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)] - Total Lead(Pb) content in accessible substrate materials	PASS
2	Tested materials of submitted samples	California Proposition 65, Alameda Superior Court, Case No. RG07356892 - Total Lead(Pb) content	PASS
3	Tested materials of submitted samples	ASTM F963-23 Section 4.3.5.2 - Total Lead (Pb) content in substrate material	PASS
4	Tested materials of submitted samples	US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)] - 16 CFR 1307 - Phthalates	PASS
5	Tested materials of submitted samples	California AB1108 and California Proposition 65, Sacramento Superior Court, Case No. BG07350969 - Phthalates	PASS
6	Tested materials of submitted samples	ASTM F963-23 - Soluble Heavy Metals content	PASS
7	Submitted samples	ASTM F963-23 - Physical and Mechanical Properties	PASS
8	Submitted samples	ASTM F963-23 - Flammability	PASS

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Sample Description

Material No.	Component Description	Location
01	Transparent plastic	Outside of ball
02	Transparent plastic	Water beads
03	Transparent glue	Glue
04	White foam	Foam
05	Yellow foam	Foam
06	Blue foam	Foam
07	Pink foam	Foam
08	Yellow ball	Yellow ball entirety

Photo of sample

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Test Report

Test Result(s):

CPSIA - Total Lead(Pb) content of accessible substrate materials

Method:With reference to CPSC-CH-E1002-08.3,analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
(01+02)▲	100	N.D.	PASS
03	100	N.D.	PASS
(04+05)▲	100	N.D.	PASS
(06+07)▲	100	N.D.	PASS

Note:
1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL (Reporting Limit) = 10 mg/kg.
4. "▲"this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

CP65, Alameda Superior Court, Case No. RG07356892 - Total Lead(Pb) content

Method:With reference to CPSC-CH-E1002-08.3,analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Material Type	Limit (mg/kg)	Result (mg/kg)	Conclusion
(01+02)▲	b	100	N.D.	PASS
03	b	100	N.D.	PASS
(04+05)▲	b	100	N.D.	PASS
(06+07)▲	b	100	N.D.	PASS

Material Type:

a. Surface coatings.

b. Substrates.

Note:
1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL (Reporting Limit) = 10 mg/kg.
4. "▲"this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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ASTM F963-23 Section 4.3.5.2 - Total Lead(Pb) content in substrate material
Method:With reference to CPSC-CH-E1002-08.3,analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
(01+02)▲	10	100	N.D.	PASS
03	10	100	N.D.	PASS
(04+05)▲	10	100	N.D.	PASS
(06+07)▲	10	100	N.D.	PASS

Note: 1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.
4. "▲"this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

CPSIA (16 CFR 1307) - Phthalates
Method: With reference to CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DINP	DHEXP	DIBP	DCHP	DPENP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	68515-48-0	84-75-3	84-69-5	84-61-7	131-18-0	
Limit (mg/kg)	1000	1000	1000	1000	1000	1000	1000	1000	
RL (mg/kg)	50	50	50	100	50	50	50	50	
Material No.	Result (mg/kg)								
(01+02)▲	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
03	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
(04+05)▲	N.D.	N.D.	208	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
(06+07)▲	N.D.	N.D.	151	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

Note: 1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.
4. "▲"this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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Test Report

California AB1108 & CP65 - Phthalates

Method: With reference to CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	**DBP**	**BBP**	**DEHP**	**DINP**	**DNOP**	**DIDP**	**DnHP**	**Conclusion**
CAS No.	84-74-2	85-68-7	117-81-7	68515-48-0	117-84-0	68515-49-1	84-75-3	
Limit (mg/kg)	1000	1000	1000	1000	1000	1000	1000	
RL (mg/kg)	50	50	50	100	50	100	50	
Material No.	**Result (mg/kg)**							
(01+02)▲	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
03	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
(04+05)▲	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
(06+07)▲	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

Note:
1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.
4. “▲”this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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Migration of certain elements

Method: With reference to ASTM F963-23 Section 8.3, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Elements	Pb	Cd	Cr	Hg	As	Sb	Ba	Se	Conclusion
Limit for Modeling clay (mg/kg)	90	50	25	25	25	60	250	500	
Limit for Others (mg/kg)	90	75	60	60	25	60	1000	500	
RL (mg/kg)	5	5	5	5	2.5	5	5	5	
Material No.	Result (mg/kg)								
01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
03	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
04	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
05	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
06	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
07	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	85	N.D.	PASS

Note: 1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

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Mechanical and Physical Properties

Method: ASTM F963-23

Section	Testing Items	Assessment
		08
4	Safety requirements	
4.1	Material quality	PASS
4.3.7	Stuffing materials	PASS
4.4	Electrical/thermal energy	NA
4.5	Sound producing toys	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 that are intended for use by children who are at least three years old but less than six years of age	NA
4.7	Accessible edges	PASS
4.8	Projections	NA
4.9	Accessible points	PASS
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	PASS
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and over-load requirements	NA
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	NA

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4.25.1	The toy shall be marked permanently on the battery compartment or on the area immediately adjacent to the battery compartment to show the correct battery polarity using the polarity symbols “+” and “−”.	NA
4.25.2	The maximum allowable direct current potential between any two accessible electrical points is 24 V nominal.	NA
4.25.3	Battery-operated toys shall be designed so that it is not possible to charge any non-rechargeable battery.	NA
4.25.4	Battery Accessibility	NA
4.25.5	Batteries of different types or capacities shall not be mixed within any single electrical circuit.	NA
4.25.6	The surfaces of the batteries shall not achieve tem peratures exceeding 71℃	NA
4.25.7	No condition shall occur that would cause the toy to fail the temperature requirements of 4.25.6 or present a combustion hazard as described in 4.25.	NA
4.25.8	Battery-operated toys shall meet the requirements of 6.5 for instructions on safe battery usage. Toys which use non-replaceable batteries as the only source of power are not subject to 6.5.	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
4.27	Stuffed and beanbag-type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding materials	NA
4.41	Toy chests	NA
5	Labeling Requirement	
5.1	Federal government requirement	PASS

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5.2	Age Grading labeling	PASS
5.3	Safety labeling requirements	NA
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	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	NA
5.16	Magnets	NA
6	Instructional Literature	
6.1	Definition and description	NA
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
6.6	Battery powered ride-on toys	NA
6.7	Toys in contact with food	NA
6.8	Toy chests	NA
6.9	The instructional material for toys which require a manufacturer-supplied specialty or custom tool to access the battery(ies) shall direct caregivers to retain the tool for future use, to store it where the child cannot access it, and state that the tool is not a toy.	NA
7	Producer's Marking	
7.1	Name of the producer or the distributor	PASS
	Address of the producer or the distributor	PASS
7.2	Battery powered ride on toys	NA
7.3	Toy chests	NA
8	Test Methods	
8.5	Normal UseTesting	PASS

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8.7	Impact Tests	PASS
8.8	Torque Tests for Removal of Components	PASS
8.9	Tension Test for Removal of Components	PASS

Note: 1. NA = Not Applicable
2. NR =Not Requested

Flammability

Method: ASTM F963-23 Annex A5

Material No.	Burn Length(inch)	Burn Time(sec.)	Burn Rate(inch/sec.)	Conclusion
08	1.1	60	0.02	PASS

Note: 1. DNI = Did not ignite.
2. IBE = Ignited but self-extinguished before burn-rate could be determined.
3. a) If the burning speed of all samples is less than 0.10 in./s (2.5 mm/s), the test is accepted.
b) If the burning speed of all samples is greater than 0.10in./s (2.5mm/s), but less than 0.15in./s (3.75mm/s), it is accepted but in-depth investigation and research should be considered to take measures to improve performance Measures.
c) If the burning speed of one of the samples is greater than 0.15 in./s (3.75 mm/s), the rejection is measured.
4. All styles of the submitted toy samples (and its accessories) was/were tested, the above result only showed the most severe burn rate of the samples.

End of Report

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