

Test Report

Report No.: U02807220507120-1E

Query Password: QW0823

Date: May 12, 2022

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Applicant: One for Fun Limited**Contact information:** 3-5 Cambuslang Way, Gateway Office Park, Cambuslang, Glasgow, G32 8ND**The following sample(s) was (were) submitted and identified by client as:**

Sample Description	:	Enamel toy series
Item No.	:	SV21287
Packaging Provided	:	No
Labeled Age Grading	:	/
Requested Age Grading	:	3+
Age Group Applied in Testing	:	3+
Sample Received Date	:	Sep. 13, 2021
Testing Period	:	From Sep. 13, 2021 to Sep. 16, 2021
Test Request	:	Please refer to next page(s).
Test Result(s)	:	Please refer to next page(s).

Shen Zhen UONE Test Co., LTD.

Prepared by



Ruth Lai

Checked by



Lin Zhu

Approved by



Levent Liang

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Summary of Test Results:

TEST REQUEST

- (1) EN 71-1:2014+A1: 2018 European Standard for Safety of Toys
Mechanical and Physical Properties
- (2) EN 71-2:2020 European Standard for Safety of Toys
Flammability
- (3) EN71-3:2019+ A1:2021 European Standard for Safety of Toys
Migration of Certain Elements (Scraped-off toy material)

CONCLUSION

PASS**PASS****PASS**

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Test Material(s) List

Material No.	Description	Remark
1	Green plastic	/
2	White plastic	/
3	Orange plastic	/
4	Blue plastic	/
5	Red plastic	/
6	Golden plastic	/
7	Black coating	/
8	White coating	/
9	Yellow EVA	/
10	Blue EVA	/
11	Orange soft plastic	/
12	transparent plastic	/
13	Color stickers	/
14	Army Green Plastic	/
15	Black elastic band	/

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Test Result(s):**(1) Mechanical and Physical Properties – EN 71-1:2014+A1: 2018**

Section	Description	Assessment
4.1	Materials cleanliness	PASS
4.2	Assembly	NA
4.3	Flexible Plastic Sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	NA
4.8	Points and Metallic Wires	PASS
4.9	Protruding Parts	NA
4.10	Parts moving against each other	PASS
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving Mechanisms	PASS
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloon	NA
4.13	Cords of Toy Kites and Other Flying Toys	NA
4.14	Enclosures	NA
4.14.1	Toys which a child can enter	NA
4.14.2	Masks and helmets	NA
4.15	Toys intended to bear the mass of a child	NA
4.15.1	Toys propelled by a child or by other means	NA
4.15.2	Toy bicycles	NA
4.15.3	Rocking horses and similar toys	NA
4.15.4	Toys not propelled by a child	NA
4.15.5	Toy scooters	NA

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Section	Description	Assessment
4.16	Heavy immobile toys	NA
4.17	Projectiles	PASS
4.17.1	General	PASS
4.17.2	All projectiles	PASS
4.17.2.1	Leading parts	PASS
4.17.2.2	Foam shaft projectiles with a suction cup as a leading part	PASS
4.17.2.3	Other types of projectile with a suction cup as a leading part	NA
4.17.3	Projectile toys with stored energy	PASS
4.17.3.1	Energy limitation	PASS
4.17.3.2	Edges	PASS
4.17.3.3	Projectiles with a protective cap, cover or tip	PASS
4.17.3.4	Impact resistance	PASS
4.17.3.5	Improvised projectiles	PASS
4.17.4	Certain projectile toys without stored energy	NA
4.17.4.1	Darts	NA
4.17.4.2	Bows and arrows	NA
4.17.4.3	Toy catapults and projectiles propelled by an elastic band	NA
4.17.4.4	Projectile toys without stored energy where the discharge mechanism can store energy, only when held in place by the user	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion Caps Specifically Designed for Use in Toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	YoYo-ball	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA

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Section	Description	Assessment
4.27	Flying toys	NA
4.27.1	General	NA
4.27.2	Rotors and propellers on flying toys	NA
4.27.3	Rotors and propellers on remote controlled flying toys	NA
5	Toys intended for Children under 36 months	NA
5.1	General Requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA
5.4.2.1	Cords and chains with the potential to tangle	NA
5.4.2.2	Two cords or chains with the potential to tangle	NA
5.4.2.3	Separated cords and chains	NA
5.4.2.4	Free length of cords and chains	NA
5.4.3	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA
5.4.3.1	Cords and chains with the potential to tangle	NA
5.4.3.2	Two cords or chains with the potential to tangle	NA
5.4.3.3	Separated cords and chains	NA
5.4.3.4	Free length of cords and chains	NA
5.4.3.5	Cords and chains not suitable for children under 18 months	NA
5.4.4	Fixed loops, tangled loops and nooses	NA
5.4.5	Cords and chains on pull along toys	NA
5.4.6	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.4.9.1	Toys intended to be strung across a cradle, cot or perambulator	NA

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Section	Description	Assessment
5.4.9.2	Toys otherwise intended to be attached to a cradle, cot or perambulator	NA
5.5	Liquid Filled Toys	NA
5.6	Speed limitation of electrically driven toys	NA
5.7	Glass and Porcelain	NA
5.8	Shape and Size of certain Toys	NA
5.9	Toys comprising Monofilament Fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warning and Instructions for Use	PASS
7.1	General	PASS
7.2	Warning not intended for Children under 36 months	PASS
7.3	Latex Balloon	NA
7.4	Aquatic Toys	NA
7.5	Functional Toys	NA
7.6	Hazardous sharp Functional Edges and Points	NA
7.7	Projectiles toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy Kites	NA
7.10	Roller skates, inline skates and skateboards	NA
7.10.1	Roller skates, inline skates and skateboards	NA
7.10.2	Ride-on toys without a braking device	NA
7.10.3	Electrically-driven ride-on toys	NA
7.10.4	Instructions for use	NA

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Section	Description	Assessment
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/ electrical experimental set	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.25.1	Flying toys	NA
7.25.2	Remote controlled flying toys	NA
7.26	Improvised projectiles	NA
8.3	Torque Test	NA
8.4	Tension test	NA
8.5	Drop test	PASS
8.6	Tip over test	NA
8.7	Impact test	PASS
8.8	Compression test	NA
8.9	Soaking test	NA
8.13	Flexure test	NA
8.24	Kinetic energy of projectiles	NA

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Section	Description	Assessment
8.34	Tension test for magnets	NA
8.42	Determination of projectile range	NA

Remark: NA = Not applicable

Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to informative Annex A.26 and A.33 of The European Standard on safety of toys EN71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys

Summary table:

	On product	On packaging
CE mark	Absent	Absent
Manufacture's Name & Address	Absent	Absent
Importer's Name & Address	Absent	Absent
Product ID	Absent	Absent

CE mark, importer / manufacturer mark (name, address), product identification	See Remark
<p>Remark1: Toys made available on the market must bear the CE marking. The CE marking must be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008. The CE marking must be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging. In the case of small toys and toys consisting of small parts, the CE marking may alternatively be affixed to a label or an accompanying leaflet. Where, in the case of toys sold in counter displays, that is not technically possible, and on condition that the counter display was originally used as packaging for the toy, the CE marking may be affixed to the counter display. Where the CE marking is not visible from outside the packaging, if any, it shall as a minimum be affixed to the packaging. Where specific legislation does not impose specific dimensions, the CE marking must be at least 5 mm high.</p> <p>Remark 2: The manufacturer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. of any importer.</p> <p>Remark3: Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.)</p>	

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(2) Flammability – EN 71-2:2020

Section	Test Item	Assessment
4.1	General requirements	PASS
4.2	Toys to be worn on the head	NA
4.2.1	General	NA
4.2.2	Beards, moustaches, wigs, etc., made from pile or flowing elements which protrude 50 mm or more from the surface of the toy	NA
4.2.3	Beards, moustaches, wigs, etc., made from pile or flowing elements which protrude less than 50 mm from the surface of the toy	NA
4.2.4	Full or partial moulded head masks	NA
4.2.5	Toys to be worn on the head, hoods, headdresses including upward protruding items and masks which partially or fully cover the head	NA
4.3	Toys disguise costumes and toys intended to worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	NA

Remark: NA = Not Applicable.

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(3) Migration of Certain Elements

Test Method: With reference to EN71-3:2019+ A1:2021, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES), Inductively Coupled Plasma Mass Spectrometer (ICP-MS), Gas Chromatograph-Mass Spectrometry (GC-MS) and Ion Chromatograph.

Substance	MDL (mg/kg)	Test Result (mg/kg)				
		1	2	3	4	5
Aluminium (Al)	5.0	N.D.	N.D.	10	15	14
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	5.0	13	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	5.0	N.D.	11	N.D.	N.D.	N.D.
Conclusion		PASS	PASS	PASS	PASS	PASS

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Substance	MDL (mg/kg)	Test Result (mg/kg)				
		6	7	8	9	10
Aluminium (Al)	5.0	15	N.D.	91	N.D.	N.D.
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	5.0	N.D.	N.D.	51	N.D.	N.D.
Conclusion		PASS	PASS	PASS	PASS	PASS

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Substance	MDL (mg/kg)	Test Result (mg/kg)				
		11	12	13	14	15
Aluminium (Al)	5.0	98	101	120	27	28
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	5.0	10	10	10	N.D.	N.D.
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	5.0	170	172	155	N.D.	N.D.
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	5.0	16	14	16	N.D.	N.D.
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	5.0	93	96	89	17	18
Conclusion		PASS	PASS	PASS	PASS	PASS

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The table of Migration Elements limit:

Substance	Limit (mg/kg)		
	Dry, brittle, powder-like or pliable materials	Liquid or sticky materials	Scraped-off materials
Aluminium (Al)	2250	560	28130
Antimony (Sb)	45	11.3	560
Arsenic (As)	3.8	0.9	47
Barium (Ba)	1500	375	18750
Boron (B)	1200	300	15000
Cadmium (Cd)	1.3	0.3	17
Chromium(III) (Cr ³⁺)	37.5	9.4	460
Chromium(VI) (Cr ⁶⁺)	0.02	0.005	0.053
Cobalt (Co)	10.5	2.6	130
Copper (Cu)	622.5	156	7700
Lead (Pb)	2.0	0.5	23
Manganese (Mn)	1200	300	15000
Mercury (Hg)	7.5	1.9	94
Nickel (Ni)	75	18.8	930
Selenium (Se)	37.5	9.4	460
Strontium (Sr)	4500	1125	56000
Tin (Sn)	15000	3750	180000
Organic tin ☆	0.9	0.2	12
Zinc (Zn)	3750	938	46000

Note:

1. mg/kg = part per million (ppm).
2. N.D. = Not Detected (< MDL).
3. MDL = method detection limit.
4. Calculated concentration of Chromium(III) (Cr³⁺) and Chromium(VI) (Cr⁶⁺) are based on total Chromium.
5. "☆" = Organic tin include Methyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetra-butyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin, Dimethyl tin. The migration of organic tin is expressed as tributyltin.
6. Tested parts are required partially by client.

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Photo(s) of Sample:*****End of Report*****

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