



Test Report

Report No.: SZC17090180901-2

Date: Sep. 7, 2017

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Applicant: Gemious Ltd

Address: Dumie Dykes, Backmuir of Liff, By Birkhill, Dundee, DD2 5QR

Report on the submitted sample(s) said to be:

Sample Name: Hand fidget

Sample Description: 1. Multi-color soft plastic(outer ring)
2. Black soft plastic(grounder)

General Description and function: Teethers

Materials: Silicone

Battery: /

Packaging Type: /

Instruction Manual/Sheet: No

Labeled Age Grading: Not stated

Requested Age Grading: 0M+

Age Group Applied in Testing: All ages

Sample No: QT1709018090101

Sample Received Date: Sep. 1, 2017

Testing Period: Sep. 1, 2017 – Sep. 7, 2017

Test Method: Please refer to the following page(s).

Test Result: Please refer to the following page(s).

Test Requested:

For compliance with the European Standard on Safety of Toys

- EN71-1: 2014- Mechanical and Physical Properties

- EN71-2: 2011+A1: 2014- Flammability of Toys

- EN71-3: 2013+A1: 2014- Migration of Certain Elements

Checked by

Angela

Angela

Signed for and on behalf of HCT

Michael

Laboratory Manager



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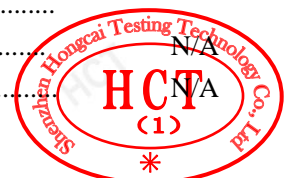
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Test Result(s):

European Standard on Safety of Toys

1.EN71-1: 2014- Mechanical and Physical Properties

Section	Description	Result
4	GENERAL REQUIREMENTS	
4.1	Materials.....	Pass
4.2	Assembled Toys.....	N/A
4.3	Flexible plastics sheeting.....	N/A
4.4	Toy Bags	N/A
4.5	Glass.....	N/A
4.6	Expanding Materials	N/A
4.7	Edges.....	Pass
4.8	Points and Metallic Wires.....	Pass
4.9	Protruding parts	N/A
4.10	Parts moving against each other	
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving Mechanisms.....	N/A
4.10.3	Hinges.....	N/A
4.10.4	Spring.....	N/A
4.11	Mouth Actuated Toys	Pass
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures	
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A
4.15	Toys intended to bear the mass of a child	
4.15.1	Toys propelled by the child or by other means	N/A
4.15.2	Free-wheeling toy bicycles.....	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toys scooters.....	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	N/A
4.18	Aquatic toys and inflatable toys.....	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a non-electrical heat source	N/A



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4.22	Small balls.....	N/A
4.23	Magnets.....	N/A
4.24	Yo Yo ball.....	N/A
4.25	Toys attached to food.....	N/A
5	Toys intended for Children under 36 months.....	Pass
5.1	General Requirements.....	Pass
5.1a	Small part requirement on toys & removable Components (Test method 8.2)...	Pass
5.1b	Torque test (Test method 8.3).....	Pass
	Tension test (Test method 8.4).....	Pass
	Drop test (Test method 8.5).....	Pass
	Tip over test(Test method 8.6).....	N/A
	Impact test (Test method 8.7).....	Pass
	Compression test (Test method 8.8).....	N/A
	Sharp edge (Test method 8.11).....	Pass
	Sharp point (Test method 8.12).....	Pass
	Tension test for magnets (Test method 8.34)	N/A
5.1c	Potential hazardous metal points and wires with a cross section of 2mm or less	N/A
5.1d	Large and bulky toys.....	N/A
5.1e	Glued wooden toys and toys with glued on plastic decals.....	N/A
5.1f	The casing of toys intended for children too young to sit up unaided	Pass
5.1g	Foam toys and containing accessible foam components	N/A
5.2	Filling materials	N/A
5.3	Adhesion of plastic sheeting	N/A
5.4	Cord, chains and electrical cables in toys.....	N/A
5.5	Liquid filled toys	N/A
5.6	Speed limitation of electrically driven toys	N/A
5.7	Glass and Porcelain	N/A
5.8	Shape and size of certain toys	Pass
5.9	Toys comprising monofilament fibres	N/A
5.10	Small balls.....	N/A
5.11	Play figures.....	N/A
5.12	Hemispheric-shaped toys.....	N/A
5.13	Suction cups.....	N/A
5.14	Straps intended to be worn fully or partially around the neck.....	N/A
6	Packaging	N/A
7	Warnings and instructions for use	
7.1	General Requirements	N/A
7.2	Warning for Toys not intended for children under 36 months	N/A
7.3	Latex Balloon	N/A



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7.4	Aquatic Toys	N/A
7.5	Functional Toys	N/A
7.6	Hazardous sharp Functional Edges and Points	N/A
7.7	Projectiles.....	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy kites	N/A
7.10	Roller skates, inline skates and toy skateboards	
7.10.1	Roller skates, inline skates and skateboards.....	N/A
7.10.2	Ride-on toys without a braking device.....	N/A
7.10.3	Electrically-driven ride-on toys.....	N/A
7.10.4	Instructions for use.....	N/A
7.11	Toys intended to be strung across a cradle, cot, or perambulator	N/A
7.12	Liquid filled teethingers	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A
7.15	Toys bicycle	N/A
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A
7.18	Toy scooters.....	N/A
7.19	Rocking horses and similar toys.....	N/A
7.20	Magnetic/electrical experimental sets.....	N/A
7.21	Toys with electrical cables exceeding 300mm in length.....	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months.....	N/A

2.EN71-2: 2011+A1: 2014- Flammability of Toys

Section	Description	Result
4.1	General requirements.....	Pass
4.2	Toys to be worn on the head	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play.....	N/A
4.4	Toys intended to be entered by a child.....	N/A
4.5	Soft filled toys	N/A

Note: N/A = Not Applicable



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Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys

Summary table:

	On product	On packaging
Washing/Cleaning instruction	Absent	Absent
CE mark	Absent	Absent
Name & Address	Absent	Absent
Product ID	Absent	Absent

Washing/Cleaning Label	See Remark
(Remark: According to Directive 2009/48/EC the following safety requirements apply regarding cleaning and washing: A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soaked. The toy must fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.)	
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>Remark2: 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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3.EN71-3:2013 + A1:2014- Migration of Certain Elements

Migration of certain elements

Acid extraction method: With reference to EN71-3:2013 + A1:2014.

Instruments used for analysis: ICP-OES/ICP-MS/GC-MS/IC/UV-VIS.

Scraped-off toy material -19 heavy elements migration:

Unit: mg/kg

Tested Items	MDL	Results		Limit in EN 71-3
		1	2	
Aluminium (Al)	50	N.D.	N.D.	70000
Antimony (Sb)	10	N.D.	N.D.	560
Arsenic (As)	5	N.D.	N.D.	47
Barium (Ba)	50	N.D.	N.D.	18750
Boron (B)	50	N.D.	N.D.	15000
Cadmium (Cd)	5	N.D.	N.D.	17
Chromium (III) (Cr(III))	5	N.D.	N.D.	460
Chromium (VI) (Cr(VI))	0.2	N.D.	N.D.	0.2
Cobalt (Co)	10	N.D.	N.D.	130
Copper (Cu)	50	N.D.	N.D.	7700
Lead (Pb)	10	N.D.	N.D.	160
Manganese (Mn)	50	N.D.	N.D.	15000
Mercury (Hg)	10	N.D.	N.D.	94
Nickel (Ni)	10	N.D.	N.D.	930
Selenium (Se)	10	N.D.	N.D.	460
Strontium (Sr)	50	N.D.	N.D.	56000
Tin (Sn)	50	N.D.	N.D.	180000
Organic tin*	1	N.D.	N.D.	12
Zinc (Zn)	50	N.D.	N.D.	46000

Note:

mg/kg=milligram per kilogram

MDL=method detection limit

N.D.=not detected(less than method detection limit)

*=Organic tin includes Dibutyltin (DBT), Tributyltin (TriBT), Dioctyltin (DOT), Monoctyltin (MOT), Triphenyltin (TPHT), Diphenyltin (DPhT), Methyltin (MET), Tetraethyltin (TeBT), Dipropyltin (DProT), Butyltin (BuT).



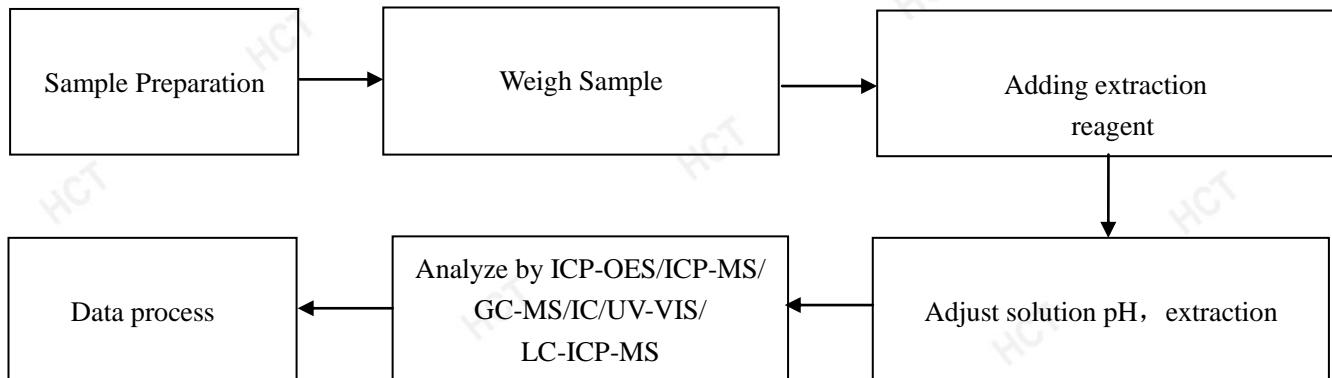
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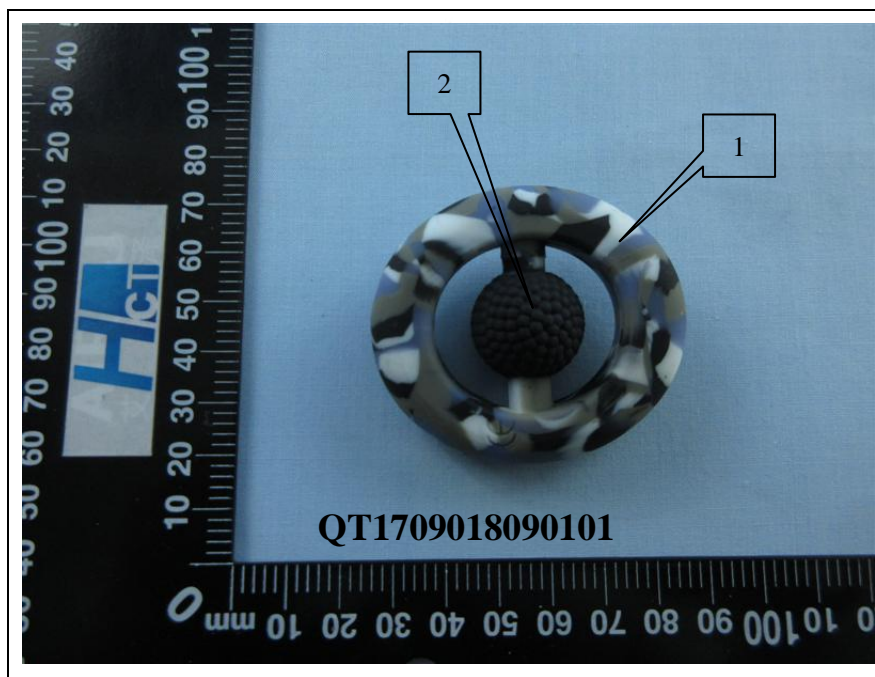
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Test Flow Chart



The photo of the sample



End

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