



Test Report

Number: GZHH00284328

Applicant: CHANG QING SHU TOYS FACTORY
CHENGHAI DISTRICT, SHANTOU CITY
GUANGDONG PROVINCE CHINA

Date: Jun 20, 2018

Sample Description:

Six (6) sets of submitted sample said to be :

- Item Name : **Toys Series**
- Item No. : CQS601-1、CQS601-2、CQS601-3、CQS601-4、CQS601-5、CQS601-6、
CQS601-7、CQS601-8、CQS601-9、CQS601-10、CQS601-11、
CQS601-12、CQS601-13、CQS601-14、CQS601-15、CQS601-16、
CQS601-17、CQS601-18、CQS601-19、CQS601-20、CQS601-21、
CQS601-22、CQS601-23、CQS601-24、CQS601-25、CQS601-26、
CQS601-27、CQS601-28、CQS601-29、CQS601-30、CQS602-1、
CQS602-2、CQS602-3、CQS602-4、CQS602-5、CQS602-6、CQS602-7、
CQS602-8、CQS602-9、CQS602-10、CQS602-11、CQS602-12、
CQS602-13、CQS602-14、CQS602-15、CQS602-16、CQS602-17、
CQS602-18、CQS602-19、CQS602-20、CQS602-21、CQS602-22、
CQS602-23、CQS602-24、CQS602-25、CQS602-26、CQS602-27、
CQS602-28、CQS602-29、CQS602-30、CQS602-31、CQS602-32、
CQS602-33、CQS602-34、CQS602-35、CQS602-36、CQS602-37、
CQS602-38、CQS602-39、CQS602-40、CQS602-41、CQS602-42、
CQS602-43、CQS602-44、CQS602-45、CQS603-1、CQS603-2、
CQS603-3、CQS603-4、CQS603-5

Above sample information was submitted and/or identified by client

- Labelled Age Group : "6M+"
- Applicant Specified Age : Over 6 months
- Grading for Testing
- Packaging Provided by Applicant : Yes
- Country of Origin : China

To be continued

Approved :

Parco Leung
Technical Supervisor



Approved :

Huang Hui Hua
Technical Support Assistant Manager





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Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Submitted sample sets	EN71-1:2014 for mechanical and physical properties	Pass
	EN71-2: 2011+A1:2014 Flammability test	Pass
Tested component(s) of submitted sample sets	EN71-3:2013+A2:2017 on migration of certain elements	Pass
	EN71-3:2013+A2:2017 on migration of certain elements (excluding lead migration) & lead migration of EU 2017/738 amending 2009/48/EC(effective from Oct 28,2018)	Pass

Approved :

Parco Leung
Technical Supervisor



Approved :

Huang Hui Hua
Technical Support Assistant Manager



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Tests Conducted

1 Physical and Mechanical Tests

As per European Standard on Safety of toys EN71-1:2014

The submitted samples were undergone the following abuse tests:

<u>Test</u>	<u>Clause</u>	<u>Parameter</u>
Torque test	8.3	0.34 Nm
Tension test	8.4.2.1	90N
Drop test	8.5	850 mm x 5 times
Impact test	8.7	1 kg
Compression test	8.8	110 N

<u>Clause</u>	<u>Testing Items</u>	<u>Assessment</u>
4	General requirements	
4.1	Material	P
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	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	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	P
4.21	Toys containing non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA



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Clause	Testing Items	Assessment
5	Toys intended for children under 36 months	
5.1	General requirements	P
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
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	P
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	P
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
6	Packaging	P
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	NA
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to 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 sets	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

Remark: P = Pass NA = Not Applicable



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Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall 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.

- Manufacturer's name was missed.
- Manufacturer's address was missed.
- Importer's name was missed.
- Importer's address was missed.
- Product identification code was missed.
- CE marking was on the packaging.

2. Cleaning instruction

A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provided instructions on how the toy has to be cleaned.

After checking, the cleaning instruction was not found on the submitted samples.

Date sample received : May 29, 2018, Jun 08, 2018 & Jun 19, 2018

Testing period : May 29, 2018 to May 31, 2018

2 **Flammability Test**

As per European Standard on Safety of Toys EN71-2:2011+A1:2014

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be 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: P = Pass NA = Not Applicable

Date sample received : May 29, 2018

Testing period : May 29, 2018 to May 31, 2018



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3 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A2:2017 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry

Category (III): Scraped-off toy material

Element	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(1)to(30)		
Aluminium (Al)	ND	300	70000
Antimony (Sb)	ND	10	560
Arsenic (As)	ND	10	47
Barium (Ba)	ND	10	18750
Boron (B)	ND	50	15000
Cadmium (Cd)	ND	5	17
Chromium (III) (Cr III) **	ND	10	460
Chromium (VI) (Cr VI) **	ND	0.1	0.2
Cobalt (Co)	ND	10	130
Copper (Cu)	ND	10	7700
Lead (Pb)	ND	10	160/23ø
Manganese (Mn)	ND	10	15000
Mercury (Hg)	ND	10	94
Nickel (Ni)	ND	10	930
Selenium (Se)	ND	10	460
Strontium (Sr)	ND	100	56000
Tin (Sn)	ND	2.5	180000
Organic tin **	ND	2.0	12
Zinc (Zn)	ND	100	46000

Remark : mg/kg = milligram per kilogram

++ = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

- Organic tin test result was expressed as tributyl tin.

ND = Not detected

ø = The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] were quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.



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Tested Components:

- (1) Navy soft plastic (octopus).
- (2) Light blue soft plastic (fish).
- (3) Cyan soft plastic (coccinella septempunctata).
- (4) Dull blue soft plastic (whale).
- (5) Fuchsia coating on soft plastic (pattern of watering pot) (sample weight: 10.3mg).
- (6) Deep green soft plastic (hippo).
- (7) Light green soft plastic (penguin).
- (8) Peach soft plastic (rhinoceros).
- (9) Deep red soft plastic (crab).
- (10) Yellow coating on soft plastic (chips) (sample weight: 33.6mg).
- (11) Fuchsia soft plastic (hippo).
- (12) Hot pink soft plastic (potted plant).
- (13) Green coating on soft plastic (strawberry) (sample weight: 15.2mg).
- (14) White soft plastic (dog).
- (15) Black coating on soft plastic (football) (sample weight: 28.1mg).
- (16) Dull orange soft plastic (fish).
- (17) Light orange soft plastic (small fish).
- (18) Orange coating on soft plastic (mouth of duck) (sample weight: 25.3mg).
- (19) Yellow soft plastic (duck).
- (20) Dull yellow soft plastic (chick).
- (21) Black soft plastic (penguin).
- (22) Deep brown soft plastic (mouse).
- (23) Dull purple soft plastic (hippo).
- (24) Grey soft plastic (shark).
- (25) Light brown plastic (hot dog).
- (26) Flesh color soft plastic (pig).
- (27) Buff soft plastic (snail).
- (28) Blue coating on soft plastic (base of boat) (sample weight: 44.6mg).
- (29) Purple soft plastic (cake).
- (30) Light purple soft plastic (lion).

Remark: As requested by the applicant, toxic elements content test were conducted only components listed in this report. Other components were not tested.

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).



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Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Date sample received: May 29, 2018

Testing period: May 29, 2018 to Jun 01, 2018



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End of report

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