



TEST REPORT

SHANTOU CHENGHAI LEQIANG TOY FACTORY

Technical Report: (3222)116-0040

Apr.28,2022

Date Received: Mar.29,2022

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SHANTOU CHENGHAI LEQIANG TOY FACTORY
NO. 3, GUANHU WEST ROAD, GUANGYI STREET, CHENGHAI
DISTRICT, SHANTOU

SAMPLE INFORMATION:

Sample Description:	RC TOY	Sample Quantity:	N/A
Vendor:	N/A	Style No(s):	LQ622-01, LQ622-02, LQ622-03, LQ622-04, LQ622-05, LQ622-06, LQ622-07, LQ622-08, LQ622-09, LQ622-10, LQ622-11, LQ622-12, LQ622-13, LQ622-14, LQ622-15, LQ622-16, LQ622-17, LQ622-18, LQ622-19, LQ622-20, LQ622-21, LQ622-22, LQ622-23, LQ622-24, LQ622-25, LQ622-26, LQ622-27, LQ622-28, LQ622-29, LQ622-30, LQ622-31, LQ622-32, LQ622-33, LQ622-34, LQ622-35, LQ622-36, LQ622-37, LQ622-38, LQ622-39, LQ622-40, LQ622-41, LQ622-42, LQ622-43, LQ622-44, LQ622-45, LQ623-001, LQ623-002, LQ623-003, LQ623-004, LQ819-01, LQ922-01, LQ922-02, LQ922-03, LQ922-04, LQ922-05, LQ922-06, LQ922-07, LQ922-08, LQ922-09, LQ922-10, LQ922-11, LQ922-12, LQ922-13, LQ922-14, LQ922-15, LQ922-16, LQ922-17, LQ922-18, LQ922-19, LQ922-20, LQ922-21, LQ922-22, LQ922-23, LQ922-24, LQ922-25, LQ922-26, LQ922-27, LQ922-28, LQ922-29, LQ922-3



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Manufacturer:	SHANTOU CHENGHAI LEQIANG TOY FACTORY	SKN/SKU No.:	N/A
Buyer:	N/A	PO No.:	N/A
Labeled Age Grade:	3+	Ref #:	N/A
Appropriate Age Grade:	N/A	Country of Origin:	CHINA
Client Specified Age Grade:	N/A	Assortment No.:	N/A
Tested Age Grade:	3 YEARS OF AGE AND OVER	Country of Destination:	EU
UPC Code:	N/A	Color :	N/A

EXECUTIVE SUMMARY:

TEST REQUESTED	CONCLUSION
EN 71-1:2014+ A1:2018 Mechanical And Physical Properties	PASS
EN 71-2:2020 Flammability	PASS
EN 71-3:2019 +A1:2021 Migration of certain elements	PASS
EN IEC 62115:2020+A11:2020 Electric toys-Safety	PASS
Entry 51& 52 of Annex XVII of the REACH Regulation (EC) No 1907/2006 & its subsequent amendments. Phthalates (DBP, BBP,DEHP,DIBP,DNOP,DIDP,DINP)	PASS
Client's Requirement DCHP, DPENP/DPP,DHEXP/DNHP content	PASS

Note:With the client's prior consent, all were subcontracted test item

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Tested Component(s) Breakdown List

<u>Material No.</u>	<u>Material</u>	<u>Color</u>	<u>Location</u>	<u>Material No.</u>	<u>Material</u>	<u>Color</u>	<u>Location</u>
1	Plastic	Red	Car shell	2	Plastic	Black	Car shell
3	Plastic	White	Car shell	4	Plastic	Blue	Car shell
5	Plastic	Yellow	Car shell	6	Plastic	Red	Car shell
7	Plastic	Green	Car shell	8	Plastic	Transparent	Car window
9	Plastic	Black	Car window	10	Plastic	Black	Wheel
11	Plastic	Black	Tire	12	Plastic	Black	Remote controller
13	Plastic	Red	Lamps	14	Plastic	Blue	Lamps
15	Plastic	Black	Lamps	16	Plastic	Gray	Car shell

1. Mechanical and Physical Test

As Per European Standard on Safety of Toys EN 71-1:2014+A1:2018

Applicant's Specified Age Group for Testing: For 3 years of age and over.

<u>Clause</u>	<u>Testing Items</u>	<u>Assessment</u>
4	General requirements	
4.1	Material cleanliness	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	P
4.10	Parts moving against each other	P
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	Projectile toys	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 a 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
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA



Clause	Testing Items	Assessment
5	Toys intended for Children under 36 Months	
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
5.5	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	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	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P
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	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates and skateboards and certain other ride-on toys	NA
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 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
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
7.26	Improvised projectiles	NA

Note:

P = Pass

NA = Not Applicable

Remark:



Additional information is according to the UK Toy Regulation 2011 and Toy Safety Directives 2009/48/EC requirement. This information also appears as a note within the EN 71 but is not standard requirements.

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

2. Flammability Test

As per European Standard on Safety of Toys EN 71-2:2020

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	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 (except those covered by 4.2.2 and 4.2.3), hoods, headdresses including upward protruding items and masks not covered by 4.2.4 which partially or fully cover the head (e.g. fabric and paperboard masks, eye masks, face masks), but excluding those items covered by 4.3	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

Note:

P = Pass

NA = Not Applicable

3. EN 71-3:2019 Migration of certain elements: 19 Toxic Elements Migration Test

Category (III): Scraped-off toy material

Element	Limit (mg/kg)	MDL (mg/kg)	Result (mg/kg)							
			1	2	3	4	5	6	7	8
Aluminium (Al)	28130	25	ND	ND	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	5	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	47	5	ND	ND	ND	ND	ND	ND	ND	ND
Barium (Ba)	18750	5	ND	ND	ND	ND	ND	ND	ND	ND
Boron (B)	15000	25	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	17	5	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (III) (Cr III)	460	5	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	0.053	0.025	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt (Co)	130	5	ND	ND	ND	ND	ND	ND	ND	ND
Copper (Cu)	7700	25	ND	ND	ND	ND	ND	ND	ND	ND
Lead (Pb)	23	5	ND	ND	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15000	25	ND	ND	ND	ND	ND	ND	ND	ND
Mercury (Hg)	94	5	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (Ni)	930	5	ND	ND	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	5	ND	ND	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56000	25	ND	ND	ND	ND	ND	ND	ND	ND
Tin (Sn)	180000	5	ND	ND	ND	ND	ND	ND	ND	ND
Organic tin	12	5	ND	ND	ND	ND	ND	ND	ND	ND
Zinc (Zn)	46000	25	ND	ND	ND	ND	ND	ND	ND	ND

Note:

1.mg/kg = Milligram per kilogram

2.ND=not detected



Category (III): Scraped-off toy material

Element	Limit (mg/kg)	MDL (mg/kg)	Result (mg/kg)							
			9	10	11	12	13	14	15	16
Aluminium (Al)	28130	25	ND	ND	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	5	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	47	5	ND	ND	ND	ND	ND	ND	ND	ND
Barium (Ba)	18750	5	ND	ND	ND	ND	ND	ND	ND	ND
Boron (B)	15000	25	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	17	5	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (III) (Cr III)	460	5	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (VI) (Cr VI)	0.053	0.025	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt (Co)	130	5	ND	ND	ND	ND	ND	ND	ND	ND
Copper (Cu)	7700	25	ND	ND	ND	ND	ND	ND	ND	ND
Lead (Pb)	23	5	ND	ND	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15000	25	ND	ND	ND	ND	ND	ND	ND	ND
Mercury (Hg)	94	5	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (Ni)	930	5	ND	ND	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	5	ND	ND	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56000	25	ND	ND	ND	ND	ND	ND	ND	ND
Tin (Sn)	180000	5	ND	ND	ND	ND	ND	ND	ND	ND
Organic tin	12	5	ND	ND	ND	ND	ND	ND	ND	ND
Zinc (Zn)	46000	25	ND	ND	ND	ND	ND	ND	ND	ND

Note:

- 1.mg/kg = Milligram per kilogram
- 2.ND=not detected

Remark:

1. Cr (III) and Organic tin contents were not directly determined and were derived from migration results of total Cr and Sn.
- 2.Organictintest result was expressed as Sn,If Sn less than organic tin limit, organic tin result reference to Sn; If Sn more than organic tin limit, organic tin tested by GC-MS.
3. Cr (VI) was tested by HPLC-ICP-MS, other tested by ICP-AES, And Cr (III) = total Cr–Cr (VI).

Test components: See component list in the section of this report.



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 playing. 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 coloring pencils, chalk, crayons, modeling clays and plaster).

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).

4. Electric toys Test

As per European Standard on Safety of Toys EN IEC 62115:2020+A11:2020

<u>Clause</u>	<u>Testing Items</u>	<u>Result</u>
7	Marking and instructions	P
8	Power input	N/A
9	Heating and abnormal operation	P
10	Electric strength	P
11	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	N/A
12	Mechanical strength	P
13	Construction	P
14	Protection of cords and wires	P
15	Components	P
16	Screws and connections	P
17	Clearance and creepage distances	P
18	Resistance to heat and fire	P
19	Radiation, toxicity and similar hazards	P

Note:

P = Pass

NA = Not Applicable

5. Phthalates Content

Phthalates were tested by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

<u>Test item</u>	<u>CAS No.</u>	<u>Result (%)</u>			<u>Reporting Limit (%)</u>	<u>Limit (%)</u>
		<u>Test components</u>				
		(1)+(2)+(3)	(4)+(5)+(6)	(7)+(8)+(9)		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	0.002	0.1,SUM



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Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.002	0.1, SUM	
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	0.002		
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.002		
Diisononyl phthalate (DINP)	28553-12-0	ND	ND	ND	0.010		
Didecyl phthalate(DIDP)	26761-40-0	ND	ND	ND	0.010		
Diocetyl phthalate(DNOP)	117-84-0	ND	ND	ND	0.002		
Dihexyl phthalate(DNHP)	84-75-3	ND	ND	ND	0.002		----
Dicyclohexyl phthalate(DCHP)	84-61-7	ND	ND	ND	0.002		----
Diamyl phthalate(DPENP)	131-18-0	ND	ND	ND	0.002		----

Test item	CAS No.	Result (%)			Reporting Limit (%)	Limit (%)
		Test components				
		(10)+(11)+(12)	(13)+ (14) +(15)	(16)		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	0.002	0.1,SUM
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	0.002	
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	0.002	
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.002	
Diisononyl phthalate (DINP)	28553-12-0	ND	ND	ND	0.010	
Didecyl phthalate(DIDP)	26761-40-0	ND	ND	ND	0.010	0.1, SUM
Diocetyl phthalate(DNOP)	117-84-0	ND	ND	ND	0.002	
Dihexyl phthalate(DNHP)	84-75-3	ND	ND	ND	0.002	----
Dicyclohexyl phthalate(DCHP)	84-61-7	ND	ND	ND	0.002	----
Diamyl phthalate(DPENP)	131-18-0	ND	ND	ND	0.002	----

Remark: ND = Not Detected

Test components: See component list in the section of this report.



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