



**BUREAU  
VERITAS**

# TEST REPORT

## SHANTOU CHENGHAI LEQIANG TOY FACTORY

**Technical Report: (3222)116-0042**

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,<br>LQ622-03, LQ622-04,<br>LQ622-05, LQ622-06,<br>LQ622-07, LQ622-08,<br>LQ622-09, LQ622-10,<br>LQ622-11, LQ622-12,<br>LQ622-13, LQ622-14,<br>LQ622-15, LQ622-16,<br>LQ622-17, LQ622-18,<br>LQ622-19, LQ622-20,<br>LQ622-21, LQ622-22,<br>LQ622-23, LQ622-24,<br>LQ622-25, LQ622-26,<br>LQ622-27, LQ622-28,<br>LQ622-29, LQ622-30,<br>LQ622-31, LQ622-32,<br>LQ622-33, LQ622-34,<br>LQ622-35, LQ622-36,<br>LQ622-37, LQ622-38,<br>LQ622-39, LQ622-40,<br>LQ622-41, LQ622-42,<br>LQ622-43, LQ622-44,<br>LQ622-45, LQ623-001,<br>LQ623-002, LQ623-003,<br>LQ623-004, LQ819-01,<br>LQ922-01, LQ922-02,<br>LQ922-03, LQ922-04,<br>LQ922-05, LQ922-06,<br>LQ922-07, LQ922-08,<br>LQ922-09, LQ922-10,<br>LQ922-11, LQ922-12,<br>LQ922-13, LQ922-14,<br>LQ922-15, LQ922-16,<br>LQ922-17, LQ922-18,<br>LQ922-19, LQ922-20,<br>LQ922-21, LQ922-22,<br>LQ922-23, LQ922-24,<br>LQ922-25, LQ922-26,<br>LQ922-27, LQ922-28,<br>LQ922-29, LQ922-30 |



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

**EXECUTIVE SUMMARY:**

| <b>TEST REQUESTED</b>   | <b>CONCLUSION</b> |
|---|-------------------|
| 16 CFR 1250/ASTM F963-17 Standard Consumer Safety Specification for Toy Safety  | PASS              |
| 16 CFR 1500.50 Physical & Mechanical Tests(16 CFR 1500.48 & 16 CFR 1500.49 & 16 CFR 1501)   | PASS              |
| 16 CFR 1500.3(c)(6)(vi) Flammability Test   | PASS              |
| U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 103 For Tracking Labels  | PASS              |
| U.S. Code of Federal Regulations Title 16 Part 1303 For Total Lead Content in Surface Coating   | NA                |
| U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 For Total Lead Content in Surface Coating  | NA                |
| U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 For Total Lead Content in Non-Surface Coating Materials (Substrate)  | PASS              |
| US Consumer Product Safety Improvement Act 2008 Title I, Sec 108 and US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates | PASS              |

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

**BVCPS (ZHEJIANG) GENERAL CONTACT INFORMATION FOR THIS REPORT**

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**Bureau Veritas Testing Technical Service (Zhejiang) Co., Ltd**

*Kimi.Zhu.*

Kimi.Zhu  
LAB SUPERVISOR(HARDLINE AND TOY DIVISION)



**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. 16 CFR 1250/ASTM F963-17 Standard Consumer Safety Specification for Toy Safety**

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             | Safety Requirements  |                               |
| 4.1           | Material Quality   | P                             |
| 4.2           | Flammability   | P (See detail of test result) |
| 4.3           | Toxicology   |                               |
|               | 4.3.3 Indirect Food Additives  | NA                            |
|               | 4.3.5.1 Heavy Elements in Paint/Similar Surface Coating Materials          | NA                            |
|               | 4.3.5.2 Heavy Metal in Substrate Materials                                 | P (See detail of test result) |
| 4.4           | Electrical/Thermal Energy  | NA                            |
| 4.5           | Sound Producing toys   | P                             |
| 4.6           | Small Objects  |                               |
| 4.6.1         | Toys that are intended for children under 36 months of age                 | NA                            |
| 4.6.2         | Mouth-Actuated Toys  | NA                            |
| 4.6.3         | Toys that are intended for children over 36 months but less than 72 months | P                             |
| 4.7           | Accessible Edges   | P                             |
| 4.8           | Projections  | P                             |
| 4.9           | Accessible Points  | P                             |
| 4.10          | Wires or Rods  | NA                            |
| 4.11          | Nails and Fasteners  | P                             |
| 4.12          | Plastic Film   | NA                            |
| 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   | P                             |
| 4.18          | Holes, Clearance, and Accessibility of Mechanisms                          | P                             |
| 4.19          | Simulated Protective Devices (such as helmets, hats, and goggles)          | 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  |                               |
| 4.25.1        | Battery marking  | P                             |
| 4.25.2        | Maximum allowable direct current potential                                 | P                             |
| 4.25.3        | Protection against charging non-rechargeable battery                       | P                             |



| Clause  | Testing Items   | Assessment |
|---------|---|------------|
| 4.25.4  | Accessible batteries  | NA         |
| 4.25.5  | Accessible batteries that can fit completely within small part cylinder             | NA         |
| 4.25.6  | Isolation of batteries of different types or capacities                             | P          |
| 4.25.7  | Temperature of battery surface  | P          |
| 4.25.8  | Temperature of battery surface or combustion hazard after normal use and abuse test | P          |
| 4.25.9  | Packaging and Instruction requirement   | P          |
| 4.25.10 | Battery-powered ride-on toys  | NA         |
| 4.25.11 | 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    | YoYo 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 Requirements   | P          |
| 6       | Instructional Literature  | P          |
| 7       | Producer's Markings   | P          |

Note:

P = Pass

NA = Not Applicable

**2. Physical & Mechanical Tests: 16 CFR 1500.50 (16 CFR 1500.48 & 16 CFR 1500.49 & 16 CFR 1501 Tests)**

| Evaluation Stage | 16 CFR 1500.48 sharp point in toys and other articles intended for use by children under 8 years of age. | 16 CFR 1500.49 sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age. | 16 CFR 1501 toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts |
|------------------|--|--|--|
| As Received      | P  | P  | NA   |
| Impact Test      | P  | P  | NA   |
| Bite Test        | NA   | NA   | NA   |
| Flexure Test     | NA   | NA   | NA   |
| Torque Test      | P  | P  | NA   |
| Tension Test     | P  | P  | NA   |
| Compression Test | P  | P  | NA   |

Note:

P = Pass

NA = Not Applicable

**3. 16 CFR 1500.3(c)(6)(vi) Flammability Test**

Flammability Test on Solid (Sec.1500.44):

| Sample | Burning Rate(inch/sec)        | Limit(inch/sec) |
|--------|-------------------------------|-----------------|
| RC TOY | Ignited but self-extinguished | 0.1             |



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#### 4. U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 103 For Tracking Labels

As per Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 Tracking Labels for Children Products.

Tracking Label Found on the Packaging:

Shantou Chenghai leqiang toy factory  
No. 3, Guanhu West Road, Guangyi street, Chenghai District, Shantou  
20220118  
20220118

Note : The tracking label assessment was based on the submitted sample and the information provided by the applicant. There was no verification on the validity of such information.

#### 5. Total Lead (Pb) Content In Surface Coating Materials

There is no scrapable surface coating can be detected.

#### 6.Total Lead (Pb) Content In Non-Surface Coating Materials(Substrate)

As per standard operating procedures for determining total Lead (Pb) in children's products, test method(s) CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

| Test sample/Components | Result (mg/kg) | Reporting Limit(mg/kg) | Limit (mg/kg) |
|------------------------|----------------|------------------------|---------------|
| (1)+(2)+(3)            | ND             | 20                     | 100           |
| (4)+(5)+(6)            | ND             | 20                     | 100           |
| (7)+(8)+(9)            | ND             | 20                     | 100           |
| (10)+(11)+(12)         | ND             | 20                     | 100           |
| (13) + (14)+(15)       | ND             | 20                     | 100           |
| (16)                   | ND             | 20                     | 100           |

The limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 and ASTM F963 4.3.5.2 for total Lead content in non-surface coating materials (substrate).

Remark: mg/kg = Milligram per kilogram = ppm ND = Not Detected

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



### 7. Migration of Certain Elements

With reference to ASTM F963-17 Clause 8.3, by Inductively Coupled Argon Plasma Spectrometry analysis.

| Test<br>sample/Components | Test items and result(mg/kg) |      |    |    |    |     |    |     |
|---------------------------|------------------------------|------|----|----|----|-----|----|-----|
|                           | Sb                           | Ba   | Cd | Cr | Pb | As  | Hg | Se  |
| (1)                       | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (2)                       | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (3)                       | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (4)                       | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (5)                       | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (6)                       | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (7)                       | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (8)                       | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (9)                       | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (10)                      | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (11)                      | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (12)                      | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (13)                      | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (14)                      | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (15)                      | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| (16)                      | ND                           | ND   | ND | ND | ND | ND  | ND | ND  |
| Reporting Limit           | 5                            | 5    | 5  | 5  | 5  | 2.5 | 5  | 5   |
| Limit                     | 60                           | 1000 | 75 | 60 | 90 | 25  | 60 | 500 |

The limit was quoted according to ASTM F963-17 clause 4.3.5.2 for Migration of Certain Elements in children's products.

Remark: mg/kg = Milligram per kilogram = ppm ND = Not Detected

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



### 8. Phthalates Content

With reference to CPSC-CH-C1001-09.4, by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

| Test item                           | CAS No.    | Result (%)      |              |             | Reporting Limit (%) | Limit (%) |
|-------------------------------------|------------|-----------------|--------------|-------------|---------------------|-----------|
|                                     |            | Test components |              |             |                     |           |
|                                     |            | (1)+ (2)+(3)    | (4)+ (5)+(6) | (7)+(8)+(9) |                     |           |
| Dibutyl phthalate (DBP)             | 84-74-2    | ND              | ND           | ND          | 0.002               | 0.1       |
| Di-(2-ethyl hexyl) phthalate (DEHP) | 117-81-7   | ND              | ND           | ND          | 0.002               | 0.1       |
| Benzyl butyl phthalate (BBP)        | 85-68-7    | ND              | ND           | ND          | 0.002               | 0.1       |
| Diisononyl phthalate (DINP)         | 28553-12-0 | ND              | ND           | ND          | 0.010               | 0.1       |
| Diisobutyl phthalate (DIBP)         | 84-69-5    | ND              | ND           | ND          | 0.002               | 0.1       |
| Di-n-pentyl phthalate (DPENP)       | 131-18-0   | ND              | ND           | ND          | 0.002               | 0.1       |
| Di-n-hexyl phthalate (DHEXP)        | 84-75-3    | ND              | ND           | ND          | 0.002               | 0.1       |
| Dicyclohexyl phthalate (DCHP)       | 84-61-7    | ND              | ND           | ND          | 0.002               | 0.1       |

| Test item                           | CAS No.    | Result (%)          |                    |      | Reporting Limit (%) | Limit (%) |
|-------------------------------------|------------|---------------------|--------------------|------|---------------------|-----------|
|                                     |            | Test components     |                    |      |                     |           |
|                                     |            | (10)+ (11)<br>+(12) | (13)<br>+(14)+(15) | (16) |                     |           |
| Dibutyl phthalate (DBP)             | 84-74-2    | ND                  | ND                 | ND   | 0.002               | 0.1       |
| Di-(2-ethyl hexyl) phthalate (DEHP) | 117-81-7   | ND                  | ND                 | ND   | 0.002               | 0.1       |
| Benzyl butyl phthalate (BBP)        | 85-68-7    | ND                  | ND                 | ND   | 0.002               | 0.1       |
| Diisononyl phthalate (DINP)         | 28553-12-0 | ND                  | ND                 | ND   | 0.010               | 0.1       |
| Diisobutyl phthalate (DIBP)         | 84-69-5    | ND                  | ND                 | ND   | 0.002               | 0.1       |
| Di-n-pentyl phthalate (DPENP)       | 131-18-0   | ND                  | ND                 | ND   | 0.002               | 0.1       |
| Di-n-hexyl phthalate (DHEXP)        | 84-75-3    | ND                  | ND                 | ND   | 0.002               | 0.1       |
| Dicyclohexyl phthalate (DCHP)       | 84-61-7    | ND                  | ND                 | ND   | 0.002               | 0.1       |

The above limit was quoted according to 16 CFR part 1307 approved by U.S. Consumer Product Safety Commission (CPSC) for prohibition of children's toys and child care articles containing specified phthalates.

Remark:

ND = Not Detected

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





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