

Test Report

Number: SZHH01329517

Applicant: TAI KEE INDUSTRIAL COMPANY LIMITED
RM 7-8, 9/F., BLK B, DELYA IND. CENTRE,
7 SHEK PAI TAU ROAD, TUEN MUN,
N.T., HONG KONG.

Date: Feb 01, 2019

Attn: CINDY

Sample Description:

Three (3) pieces of submitted sample said to be :

- Item Name : **Mini Arcade Machine.**
- Item No. : **8052C.**
- Manufacturer : Huizhou Hongjie Technology Co., Ltd.
3RD Floor, Building B, Hushan Science Park, Shiwan, Township, Boluo County,
Huizhou City, China.
- Applicant Specified Age grading for testing : Over 5 years.
- Date Sample Received : Jan 24, 2019.
- Testing Period : Jan 24, 2019 to Feb 01, 2019.

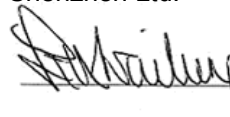



Tests conducted:

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

To be continued

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.

Ben N.L. Lin
General Manager


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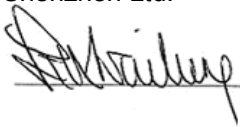

Conclusion:

Tested samples
Submitted samples

| <u>Standard</u> | <u>Result</u> |
|--|----------------|
| Consumer product safety improvement act (CPSIA) 2008 section 103 tracking labels for children product | Pass |
| U.S. CFR Title 16 (CPSC Regulations) Mechanical and physical test | Pass |
| <u>Standard – U.S. ASTM F963-17</u> Physical and mechanical tests | Pass |
| <u>Standard</u> U.S. CFR Title 16 (CPSC Regulations)Part 1500.3(c)(6)(vi) flammability test on rigid and pliable solids | Pass |
| <u>Standard - U.S. ASTM F963-17</u> Flammability test of materials other than textile materials | Pass |
| <u>Standard</u> U.S. CFR Title 16 Part 1303 total Lead content | Not Applicable |
| U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 for total Lead content in surface coating | Not Applicable |
| U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 for Total Lead content in Non-surface coating materials (substrate) | Pass |
| <u>Standard - U.S. ASTM F963-17</u> Heavy elements test | Pass |
| <u>Standard</u> US Consumer Product Safety Improvement Act 2008 Title I, Sec 108(a) & (b)(3) and US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates | Pass |

Tested components of submitted samples

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Tests Conducted

1 Tracking Label Assessment

As per Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 Tracking labels for children products

Tracking label was found on the product:

Manufacturer Name : Huizhou Hongjie Technology Co., Ltd.

Manufacturer Address: 3rd floor, Building B, Hushan Science Park,
Shiwan Township, Boluo County, Huizhou City,
China.

Date of Production : 2018/12/18

| | |
|------------------------|---|
| Name of manufacturer: | Huizhou Hongjie Technology Co., Ltd |
| Location of production | 3rd floor, Building B, Hushan Science Park, Shiwan Township, Boluo County, Huizhou City, China. |
| Date code | 2018/12/18 |

Tracking label on the packaging:

Manufacturer Name : Huizhou Hongjie Technology Co., Ltd.

Manufacturer Address: 3rd floor, Building B, Hushan Science Park,
Shiwan Township, Boluo County, Huizhou City,
China.

Date of Production : 2018/12/18



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| | |
|------------------------|---|
| Name of manufacturer: | Huizhou Hongjie Technology Co., Ltd |
| Location of production | 3rd floor, Building B, Hushan Science Park, Shiwan Township, Boluo County, Huizhou City, China. |
| Date code | 2018/12/18 |

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.

2 Physical and Mechanical Test

As per U.S. Code of Federal Regulations Title 16 Part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

| | No. of Sample Tested | Sharp Point (1500.48) | Sharp Edge (1500.49) | Small Part (1501) |
|--------------------------|----------------------|-----------------------|----------------------|-------------------|
| As received | 2 | P | P | NA |
| Impact (1500.53(b)) | 1 | P | P | NA |
| Flexure (1500.53(d)) | 0 | NA | NA | NA |
| Torque (1500.53(e)) | 1 | P | P | NA |
| Tension (1500.53(f)) | 1 | P | P | NA |
| Compression (1500.53(g)) | 1 | P | P | NA |

Remark: P = Pass

NA= Not Applicable



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Tests Conducted

3 Physical and Mechanical Tests

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

| | | |
|--|--------------------|------------------|
| The submitted samples were undergone the use and abuse tests in accordance with The Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations : | | |
| <u>Test</u> | <u>FHSA</u> | <u>Parameter</u> |
| Impact test | Section 1500.53(b) | 4 x 3.0 ft |
| Torque test | Section 1500.53(e) | 4 in-lbf |
| Tension test | Section 1500.53(f) | 15 lbf |
| Compression test | Section 1500.53(g) | 30 lbf |

| <u>Section</u> | <u>Testing Items</u> | <u>Assessment</u> |
|----------------|---|-------------------|
| 4.1 | Material quality (visual check on cleanliness) | P |
| 4.5 | Sound-producing toys | P |
| 4.6.1 | Toys intended for children under 36 months (small objects) | NA |
| 4.6.2 | Mouth-actuated toys | NA |
| 4.6.3 | Toys and games for children at least 36 months but less than 72 months (small part warning) | NA |
| 4.7 | Accessible edges | P |
| 4.8 | Projections | NA |
| 4.9 | Accessible points | P |
| 4.10 | Wires or rods | NA |
| 4.11 | Nails and fasteners | P |
| 4.12 | Plastic film | P |
| 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 | NA |
| 4.18 | Holes, clearance, and accessibility of mechanisms | NA |
| 4.19 | Simulated protective devices (such as helmets, hats and goggles) | NA |
| 4.20 | Pacifiers | NA |
| 4.21 | Projectile toys | NA |



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| Section | Testing Items | Assessment |
|---------|---|------------|
| 4.22 | Teethers and teething toys | NA |
| 4.23 | Rattles | NA |
| 4.24 | Squeeze toys | NA |
| 4.25 | Battery-operated toys | P |
| 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 | Labelling requirement | P |
| 6 | Instructional literature | P |
| 7 | Producer's markings | |
| 7.1 | - Name of producer/distributor (Toy& Package) | Yes |
| | - Address (Toy& Package) | Yes |
| 7.3 | Toy chests | |
| 7.3.1 | Name and address of manufacturer/distributor/seller | NA |
| 7.3.2 | Code mark | NA |

Remark: The submitted samples were undergone the tests in accordance with section 8.5 through section 8.16 and 8.20 through 8.30 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass

NA = Not Applicable



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Tests Conducted

4 Flammability Test

As per U.S. Code of Federal Regulations Title 16 Part 1500.44 for rigid and pliable solids.

Result: Ignited but self-extinguished before burn rate could be determined.

5 Flammability Test

As per section 4.2 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, the sample was tested according to Annex A5 Flammability Testing Procedure for Solids and Soft Toys.

Result: Ignited but self-extinguished before burn rate could be determined.

6 Total Lead (Pb) Content in Surface Coating

As per Standard Operating Procedure for Determining Lead (Pb) in paint and other similar surface coatings, test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Assessment: Since no scrapable surface coating was found on the submitted samples, the testing scope was not applicable to the submitted samples.

7 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 methods CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

| Element | Result (ppm) θ | Reporting Limit (ppm) | Limit (ppm) |
|-----------|-----------------------|-----------------------|-------------|
| | Tested Component | | |
| | (1+2),(3+4),(5) | | |
| Lead (Pb) | ND | 10 | 100 |

ppm = parts per million = mg/kg
 ND = Not detected (less than reporting limit)
 θ = Single result for each test component/group

Tested components: See component list in the last section of this report



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8 Total Lead (Pb) Content

As per Section 4.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, test method CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Non-surface coating

| Element | Result (ppm) θ | Reporting Limit (ppm) | Limit (ppm) |
|-----------|-----------------------|-----------------------|-------------|
| | Tested Component | | |
| | (1+2),(3+4),(5) | | |
| Lead (Pb) | ND | 10 | 100 |

ppm = part per million = mg/kg
 ND = Not detected
 θ = Single result for each test component/group

Tested Components: See component list in the last section of this report

Assessment: Since no scrapable surface coating was found on the submitted samples, the testing scope for surface coating was not applicable to the submitted samples.

9 Heavy Elements Analysis (except modelling clay)

As per Section 4.3.5 and Section 8.3.2 to 8.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, heavy elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

| Element | Result (ppm) θ | Reporting limit (ppm) | Limit (ppm) |
|--------------------|-----------------------|-----------------------|-------------|
| | Tested component | | |
| | (1)to(4) | | |
| Sol. Barium (Ba) | ND | 5 | 1000 |
| Sol. Lead (Pb) | ND | 5 | 90 |
| Sol. Cadmium (Cd) | ND | 5 | 75 |
| Sol. Antimony (Sb) | ND | 5 | 60 |
| Sol. Selenium (Se) | ND | 5 | 500 |
| Sol. Chromium (Cr) | ND | 5 | 60 |
| Sol. Mercury (Hg) | ND | 5 | 60 |
| Sol. Arsenic (As) | ND | 2.5 | 25 |

Sol. = Soluble
 ppm = part per million = mg/kg
 ND = Not detected
 θ = Single result for each test component/group

Tested Components: See component list in the last section of this report



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10 Phthalate Content

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

| Test item | CAS No. | Result (%) ^θ | Reporting limit (%) | Limit (%) |
|-------------------------------------|------------|------------------------------|---------------------|-----------|
| | | Tested component (1+2),(3+4) | | |
| Dibutyl phthalate (DBP) | 84-74-2 | ND | 0.01 | 0.1 |
| Di-(2-ethyl hexyl) phthalate (DEHP) | 117-81-7 | ND | 0.01 | 0.1 |
| Benzyl butyl phthalate (BBP) | 85-68-7 | ND | 0.01 | 0.1 |
| Di-iso-nonyl phthalate (DINP) | 28553-12-0 | ND | 0.01 | 0.1 |
| Diisobutyl phthalate (DIBP) | 84-69-5 | ND | 0.01 | 0.1 |
| Di-n-pentyl Phthalate (DPENP) | 131-18-0 | ND | 0.01 | 0.1 |
| Di-n-hexyl Phthalate (DHEXP) | 84-75-3 | ND | 0.01 | 0.1 |
| Dicyclohexyl Phthalate (DCHP) | 84-61-7 | ND | 0.01 | 0.1 |

The above limit was quoted according to US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates.

ND = Not detected (less than reporting limit)
θ = Single result for each test component/group

Tested Components: See component list in the last section of this report

Component list:

- (1) Black plastic (body, power)
- (2) White paper label with transparent plastic film and inaccessible coatings (sticker)
- (3) Transparent grey plastic label (screen)
- (4) Red plastic (joystick, buttons)
- (5) Black treated metal (screw)

End of report

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