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检测
TESTING
CNAS L1744

SHANTOU YUANDA TOYS INDUSTRIAL CO., LTD

Technical Report: (8818)032-0095(R1)

Jan 21, 2019

Date Received: Feb 1, 2018

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SHANTOU YUANDA TOYS INDUSTRIAL CO., LTD
DONGHU INDUSTRIAL ZONE, CHENGHAI DIST.,
SHANTOU CITY, GUANGDONG PROVINCE

| | | | |
|--------------------------------|-----------------------------------|---------------------|----------------|
| Sample Description: | BABY CARRIAGES | Sample Size: | 13 |
| Vendor: | N/A | Style No(s): | SEE ATTACHMENT |
| Manufacturer: | N/A | SKN/SKU No.: | NOT PROVIDE |
| Buyer: | N/A | PO No.: | NOT PROVIDE |
| Labeled Age Grade: | SUIT TO CHILDREN 2-5 YEARS OLD | Ref #: | NOT PROVIDE |
| Appropriate Age Grade: | NOT REQUESTED | Country of Origin: | NOT PROVIDE |
| Client Specified Age Grade: | 2-5 YEAR | Assortment No.: | NOT PROVIDE |
| Tested Age Grade: | FROM 2 TO 5 YEARS OF AGE | Test Starting Date: | FEB 1, 2018 |
| UPC Code: | N/A | Test Finished Date: | JAN 21, 2019 |

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".
- The flammability requirement of solids under ASTM F963-17 section 4.2 according to Annex A5, "Flammability testing procedure for solids and soft toys".

To be continued

BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

Harvey Xue
Manager, Analytical Lab

BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

Kay Liu
Manager, Toys Lab

RT/JC/JO

REMARK

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 0769 89952999 Ext. 8175 CPSAnalytical.DG@cn.bureauveritas.com

Business Contact: (86) 0769 85893595

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EXECUTIVE SUMMARY:

The tested component sample(s) MEETS the following requirement(s):

- (#)- *The total lead content in surface coating requirements of ASTM F963-16, "Standard consumer safety specification for toy safety", Section 4.3.5.1(1).***
- (#)- *The total lead content in substrate requirements of ASTM F963-16, "Standard consumer safety specification for toy safety", Section 4.3.5.2(2)(a).***
- (#)- *The soluble heavy metals content in surface coating requirements of ASTM F963-16, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.1(2).***
- (#)- *The soluble heavy metals content in substrate requirements of ASTM F963-16, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).***
- The total lead content in surface coating requirements of ASTM F963-17, "Standard consumer safety specification for toy safety", Section 4.3.5.1(1).
- The total lead content in substrate requirements of ASTM F963-17, "Standard consumer safety specification for toy safety", Section 4.3.5.2(2)(a).
- The soluble heavy metals content in surface coating requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.1(2).
- The soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).

Note: At the request of the client, the sample(s) was evaluated for use by children 2-5 year.

Note: The sample(s) was not evaluated to the Normal Use testing requirements specified in ASTM F963-17, Section 8.5. It is the responsibility of the manufacturer, vendor or distributor to conduct tests that will simulate normal use conditions. These tests shall ensure that hazards are not generated through normal wear and deterioration of the sample(s). These tests shall also simulate the normal play mode of the toy and to simulate the expected mode of use of the particular toy. The tests shall be conducted in an expected use environment. These normal use tests shall simulate the intended use of the toy based on its estimated lifetime.

Note: At the request of client, test(s) was conducted on the certain component(s) of the submitted samples(s) / submitted component(s).

Note: Tests with (#) accredited under CNAS testing standard.



ATTACHMENT:

Style No(s):

YD1007,YD1006,YD1005,YD1004,
 YD1004+3,YD1003,YD1002,YD1001,
 YD1009-2,YD1009-1,YD1009,YD1008-1,
 YD1008,YD1101,YD1102,YD1103,
 YD1104,YD1105,YD1106,YD1107,
 YD1108,YD2001,YD2002,YD2003,
 YD2004,YD2005,YD2006,YD2007,
 YD2008,YD2009,YDE3003,YDE33003,
 YD3003,YDE3002,YD33002,YD3002,
 YDE3001,YD33001,YD3001,YDE5005,
 YDE5003,YDE5002,YDE5001,YD6001,
 YD6002,YD6003,YD6004,YD6005,
 YD6006,YD6007,YD6008,YD7001,
 YD7002,YD7003,YD7004,YD7005,
 YD7006,YD7007,YD7008,YD8001,
 YD8002,YD8003,YD8004,YD8005,
 YD8006,YD8007,YD8008,YD8009,
 YD9001,YD9002,YD9003,YD9004,
 YD9005,YD9006,YD9007,YD9008,
 YD9009,

Tested Component(s) Description List:

| Test Item(s) | Item / Component Description(s) | Location(s) | Style(s) |
|--------------|--|-----------------|----------|
| I001 | Silver coating | Surface of pole | - |
| I002 | Yellow plastic | Body | - |
| I003 | Orange plastic | Forklift | - |
| I004 | Black plastic | Seat | - |
| I005 | Clear laminated multicolor printed white paper with adhesive | Sticker | - |
| I006 | Pink plastic | Plastic | - |
| I007 | Green plastic | Plastic | - |
| I008 | Red plastic | Plastic | - |
| I009 | Blue plastic | Plastic | - |
| I010 | Purple plastic | Plastic | - |

Remark:

The items 006-010 were provided by client dated on Jan 14, 2019.



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RESULTS:

APPROPRIATE AGE GRADE DETERMINATION[^]

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety". Annex A1

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

USE AND ABUSE TESTS[^]

The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable

| Test | Test Parameters | Standard Reference |
|-------------|------------------------|---------------------------|
| Torque Test | 4 in-lbs | 1500.53(e) |



RESULTS:

PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)^

| Section | Requirement | Result |
|---------|--|--------|
| 4.1 | Material Quality | M |
| 4.3.7 | Stuffing Materials | N/A |
| 4.5 | Sound-Producing Toys | M |
| 4.6 | Small Objects | N/A |
| 4.7 | Accessible Edges | M |
| 4.8 | Projections | M |
| 4.9 | Accessible Points | M |
| 4.10 | Wires and Rods | M |
| 4.11 | Nails and Fasteners | M |
| 4.12 | Plastic Film | N/A |
| 4.13 | Folding Mechanisms and Hinges | N/A |
| 4.14 | Cords, Straps and Elastics | N/A |
| 4.15 | Stability and Over-Load Requirements | M |
| 4.16 | Confined Spaces | N/A |
| 4.17 | Wheels, Tires, and Axles | M |
| 4.18 | Holes, Clearances and Accessibility of Mechanisms | M |
| 4.19 | Simulated Protective Devices | N/A |
| 4.20 | Pacifiers | N/A |
| 4.21 | Projectile Toys | M |
| 4.22 | Teethers and Teething Toys | N/A |
| 4.23 | Rattles | N/A |
| 4.24 | Squeeze Toys | N/A |
| 4.25 | Battery-Operated Toys (exclude Section 4.25.10 Battery-powered ride-on toys & Section 4.25.11 Toys that Contain Secondary Cells or Secondary Batteries) | N/A |
| 4.26 | Toys Intended to be Attached to a Crib or Playpen | N/A |
| 4.27 | Stuffed and Beanbag-Type Toys | N/A |
| 4.30 | Toy Gun Marking | N/A |
| 4.32 | Certain Toys with Nearly Spherical Ends | N/A |
| 4.34 | Small Balls | N/A |
| 4.35 | Pompoms | N/A |
| 4.36 | Hemispheric-Shaped Objects | N/A |
| 4.37 | Yo Yo Elastic Tether Toys | N/A |
| 4.38 | Magnets | N/A |
| 4.39 | Jaw Entrapment in Handles and Steering Wheels | N/A |
| 4.40 | Expanding Materials | N/A |

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section

Remark:

- ASTM F963-17 PHYSICAL AND MECHANICAL HAZARDS is not accredited under CNAS testing standard.
- “^”The above result was performed at Bureau Veritas (Shenzhen) laboratory.



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RESULTS:

FLAMMABILITY (16 CFR SECTION 1500.3(c)6)(vi))

| Requirement | Test Method Reference | Findings |
|---|-----------------------|---|
| Burn rate no greater than 0.1 of an inch per second | 16 CFR 1500.44 | Most rapid burn rate less than 0.1 of an inch per second. |

Remark:

- ASTM F963-17 FLAMMABILITY is not accredited under CNAS testing standard.

Total Lead Content in Surface Coating – ASTM International Standard ASTM F963-16, Section 4.3.5.1(1)

Test Method : ASTM International Standard ASTM F963-16, Section 8.3.1 and Annex A7.

| | |
|---------------------------|----------|
| Maximum Allowable Limit : | 90 mg/kg |
|---------------------------|----------|

| Test Item(s) | Result | Unit | Conclusion |
|--------------|-----------------|-------|------------|
| | Total Lead (Pb) | | |
| I001 | ND | mg/kg | PASS |

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10



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Total Lead Content in Substrate – ASTM International Standard ASTM F963-16, Section 4.3.5.2(2)(a)

Test Method : ASTM International Standard ASTM F963-16, Section 8.3.1 and Annex A7.

| | |
|---------------------------|-----------|
| Maximum Allowable Limit : | 100 mg/kg |
|---------------------------|-----------|

| Test Item(s) | Result | Unit | Conclusion |
|--------------|-----------------|-------|------------|
| | Total Lead (Pb) | | |
| I002 | ND | mg/kg | PASS |
| I003 | ND | mg/kg | PASS |
| I004 | ND | mg/kg | PASS |
| I005 | ND | mg/kg | PASS |

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10



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RESULTS:

Soluble Heavy Metals Content in Surface Coating –ASTM F963-16, Section 4.3.5.1(2)

Test Method : ASTM International Standard ASTM F963-16, Section 8.3.2 to 8.3.4

| | | | | | | | | |
|---------------------------|----|------|----|----|----|----|----|-----|
| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se |
| Max. Limit (mg/kg) | 25 | 1000 | 75 | 60 | 60 | 90 | 60 | 500 |
| Analytical Correction (%) | 60 | 30 | 30 | 30 | 50 | 30 | 60 | 60 |

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se | Mass of Trace Amount | Conclusion |
|--------------|----------------|----|----|----|----|----|----|----|----------------------|------------|
| Test Item(s) | Result (mg/kg) | | | | | | | | (g) | |
| I001 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |

Note / key:

As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium
 Hg = Mercury Pb = Lead Sb = Antimony Se = Selenium
 ND = Not detected g = gram(s) % = percent
 mg/kg = milligram(s) per kilogram
 Detection Limit (mg/kg) : As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50



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RESULTS:

Soluble Heavy Metals Content in Substrate –ASTM F963-16, Section 4.3.5.2(2)(b)

Test Method : ASTM International Standard ASTM F963-16, Section 8.3.5 (Excluding 8.3.5.5(3))

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se |
|----------------------------|----|------|----|----|----|----|----|-----|
| Max. Limit Type I (mg/kg) | 25 | 1000 | 75 | 60 | 60 | 90 | 60 | 500 |
| Max. Limit Type II (mg/kg) | 25 | 250 | 50 | 25 | 25 | 90 | 60 | 500 |
| Analytical Correction (%) | 60 | 30 | 30 | 30 | 50 | 30 | 60 | 60 |

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se | Mass of Trace Amount | Conclusion |
|--|----------------|----|----|----|----|----|----|----|----------------------|------------|
| Test Item(s) | Result (mg/kg) | | | | | | | | (g) | |
| Type I: Substrate other than modeling clay | | | | | | | | | | |
| I002 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I003 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I004 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I005 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |

Note / key:

As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium
Hg = Mercury Pb = Lead Sb = Antimony Se = Selenium
ND = Not detected g = gram(s) % = percent
mg/kg = milligram(s) per kilogram (ppm=parts per million)

Detection Limit (mg/kg) :

For Type I – As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50

For Type II – Each (As, Cr & Hg) : 2.5; Ba : 25; Cd : 5.0; Sb : 6.0; Pb : 9.0; Se : 50

Remark:

- Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-16. The lead content analysis result of corresponding material herein is for client's reference only.



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RESULTS:

Total Lead Content in Surface Coating – ASTM International Standard ASTM F963-17, Section 4.3.5.1(1)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

| | |
|---------------------------|----------|
| Maximum Allowable Limit : | 90 mg/kg |
|---------------------------|----------|

| Test Item(s) | Result | Unit | Conclusion |
|--------------|-----------------|-------|------------|
| | Total Lead (Pb) | | |
| I001 | ND | mg/kg | PASS |

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10

Remark:

- ASTM F963-17 Total Lead content is not accredited under CNAS testing standard.



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RESULTS:

Total Lead Content in Substrate – ASTM International Standard ASTM F963-17, Section 4.3.5.2(2)(a)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

| | |
|---------------------------|-----------|
| Maximum Allowable Limit : | 100 mg/kg |
|---------------------------|-----------|

| Test Item(s) | Result | Unit | Conclusion |
|--------------|-----------------|-------|------------|
| | Total Lead (Pb) | | |
| I002 | ND | mg/kg | PASS |
| I003 | ND | mg/kg | PASS |
| I004 | ND | mg/kg | PASS |
| I005 | ND | mg/kg | PASS |
| I006 | ND | mg/kg | PASS |
| I007 | ND | mg/kg | PASS |
| I008 | ND | mg/kg | PASS |
| I009 | ND | mg/kg | PASS |
| I010 | ND | mg/kg | PASS |

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10

Remark:

- ASTM F963-17 Total Lead content is not accredited under CNAS testing standard.



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RESULTS:

Soluble Heavy Metals Content in Surface Coating –ASTM F963-17, Section 4.3.5.1(2)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.2 to 8.3.4

| | | | | | | | | |
|---------------------------|----|------|----|----|----|----|----|-----|
| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se |
| Max. Limit (mg/kg) | 25 | 1000 | 75 | 60 | 60 | 90 | 60 | 500 |
| Analytical Correction (%) | 60 | 30 | 30 | 30 | 50 | 30 | 60 | 60 |

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se | Mass of Trace Amount | Conclusion |
|--------------|----------------|----|----|----|----|----|----|----|----------------------|------------|
| Test Item(s) | Result (mg/kg) | | | | | | | | (g) | |
| I001 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |

Note / key:

As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium
Hg = Mercury Pb = Lead Sb = Antimony Se = Selenium
ND = Not detected g = gram(s) % = percent
mg/kg = milligram(s) per kilogram
Detection Limit (mg/kg) : As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50

Remark:

- ASTM F963-17 Soluble Heavy Metals content is not accredited under CNAS testing standard.



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RESULTS:

Soluble Heavy Metals Content in Substrate –ASTM F963-17, Section 4.3.5.2(2)(b)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3))

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se |
|----------------------------|----|------|----|----|----|----|----|-----|
| Max. Limit Type I (mg/kg) | 25 | 1000 | 75 | 60 | 60 | 90 | 60 | 500 |
| Max. Limit Type II (mg/kg) | 25 | 250 | 50 | 25 | 25 | 90 | 60 | 500 |
| Analytical Correction (%) | 60 | 30 | 30 | 30 | 50 | 30 | 60 | 60 |

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se | Mass of Trace Amount | Conclusion |
|--|----------------|----|----|----|----|----|----|----|----------------------|------------|
| Test Item(s) | Result (mg/kg) | | | | | | | | (g) | |
| Type I: Substrate other than modeling clay | | | | | | | | | | |
| I002 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I003 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I004 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I005 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I006 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I007 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I008 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I009 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I010 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |

Note / key:

As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium
Hg = Mercury Pb = Lead Sb = Antimony Se = Selenium
ND = Not detected g = gram(s) % = percent
mg/kg = milligram(s) per kilogram (ppm=parts per million)

Detection Limit (mg/kg) :

For Type I – As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50

For Type II – Each (As, Cr & Hg) : 2.5; Ba : 25; Cd : 5.0; Sb : 6.0; Pb : 9.0; Se : 50

Remark:

- Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein is for client's reference only.
- ASTM F963-17 Soluble Heavy Metals content is not accredited under CNAS testing standard.
- This report is to supersede BV(Dong guan) report No. (8818)032-0095 dated on Feb 9, 2018.



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APPENDIX:



APPENDIX:



Remark:

The photo was submitted by the client. The test results only related to the tested model and the conclusion was given based on the result tested model.