

**Test Report** No.: SHHL2105023348TY Date: MAY 26, 2021 Page 1 of 18

HAPE INTERNATIONAL (NINGBO) LTD HAPPY ARTS&CRAFTS (NINGBO) CO., LTD 9-27NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA

STAY-PUT RATTLE SET/ ROTATING MUSIC BOX/ MIGHTY

Sample Description ECHO MICROPHONE/ SHAPE SORTER XYLOPHONE

Sample Quantity 20 SETS

Style / Item No. E0330, E0332, E0337, E0334

Country of Origin **CHINA** Country of Destination **GLOBAL** 

E0330:0M+, E0332:0M+

Labeled Age Grading E0337: 12M+, E0334: 12M+

Requested Age Grading 0M+, 0M+, 12M+, 12M+

Client Reference Information E0330A, E0332A, E0337A, E0334B

E0330:0+MONTHS, E0332: 0+MONTHS

Age Group Assessed as Per Age Guideline E0337: 12+MONTHS, E0334: 12+MONTHS

E0330:0+MONTHS, E0332: 0+MONTHS

Age Group Applied in Testing E0337: 12+MONTHS, E0334: 12+MONTHS

Sample Receiving Date MAY 14, 2021

**Testing Period** MAY 14, 2021 TO MAY 26, 2021

Test Requested Result

ASTM F963-17 Standard Consumer Safety Specification for Toy Safety <u>Pass</u>

Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 **Pass** 

CFR 1500.49 and US CPSC 16 CFR 1501

US CPSC 16 CFR 1500.19 - Misbranded toys and other articles intended for use by Not applicable

children

US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and **Pass** 

flammable solids

Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section **Pass** 

103 tracking labels for children's products.

Lead (Pb) **Pass** 



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Part 1303, Title 16, Code of Federal Regulations, Chapter II – Consumer Products **Pass** Safety Commission of U.S.A. requirement-Lead

CPSIA section 101(f) - Lead in paint/similar surface coating material

**Pass** 

CPSIA section 101(a)(2) - Lead in accessible substrate materials Pass Pass

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Wallace Lui

**Authorized Signatory** 





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Result:

### ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

#### Clauses relevant to the item:

| <u>Clause</u> | <u>Description</u>  | Result                           |
|---------------|---|----------------------------------|
| 4             | Safety Requirements   |                                  |
| 4.1           | Material Quality **   | <u>Pass</u>                      |
| 4.2           | Flammability Test   | Pass (See Detail of test result) |
| 4.3           | Toxicology  |                                  |
| 4.3.5         | Heavy Elements  |                                  |
|               | 4.3.5.1 Heavy Elements in Paint/Similar Surface Coating Materials | Pass (See Detail of test result) |
|               | 4.3.5.2 Heavy Metal in Substrate Materials                        | Pass (See Detail of              |
|               |   | test result)                     |
| 4.5           | Sound-Producing Toys  | <u>Pass</u>                      |
| 4.6.1         | Small Objects   | <u>Pass</u>                      |
| 4.7           | Accessible Edges  | <u>Pass</u>                      |
| 4.8           | Projections   | <u>Pass</u>                      |
| 4.9           | Accessible Points   | <u>Pass</u>                      |
| 4.11          | Nails and Fasteners   | <u>Pass</u>                      |
| 4.14          | Cords, Straps and Elastic   | <u>Pass</u>                      |
| 4.18          | Holes, Clearance & Accessibility of Mechanisms                    | <u>Pass</u>                      |
| 4.23          | Rattles   | <u>Pass</u>                      |
| 5             | Safety Labeling Requirements                                      |                                  |
| 5.2           | Age Grading Labeling  | <u>Pass</u>                      |
| 5.16          | Promotional Materials   | <u>Pass</u>                      |
| 7             | Producer's Markings   |                                  |
| 7.1           | Producer's Markings   | <u>Pass</u>                      |
| 8.5           | Normal Use Testing  | <u>Pass</u>                      |
| 8.7           | Impact Test   | <u>Pass</u>                      |
| 8.8           | Torque Test   | <u>Pass</u>                      |
| 8.9           | Tension Test  | <u>Pass</u>                      |
| 8.10          | Compression Test  | <u>Pass</u>                      |

<sup>\*\*</sup> Visual Examination



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Detail of test result:

ASTM F963-17, Clause 4.2 - Flammability Test Flammability Test on Solid

Burning Rate (inch/sec) Sample 5 4 1 **SETS** 

DNI = Did Not Ignite

Requirement: A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

### PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND **US CPSC 16 CFR 1501**

AS SPECIFIED IN PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

|                                    | No. of        |                  |                  |               |
|------------------------------------|---------------|------------------|------------------|---------------|
|                                    | <u>sample</u> | Sharp point      | Sharp edge       | Small part    |
|                                    | tested        | (16 CFR 1500.48) | (16 CFR 1500.49) | (16 CFR 1501) |
| As received                        | 4             | Pass             | Pass             | Pass          |
| Impact test (16 CFR 1500.51b)      | 4             | Pass             | Pass             | Pass          |
| Bite test (16 CFR 1500.52c)        | 4             | N/A              | N/A              | N/A           |
| Flexure test (16 CFR 1500.53d)     | 0             | N/A              | N/A              | N/A           |
| Torque test (16 CFR 1500.53e)      | 4             | Pass             | Pass             | Pass          |
| Tension test (16 CFR 1500.53f)     | 4             | Pass             | Pass             | Pass          |
| Compression test (16 CFR 1500.53g) | 4             | Pass             | Pass             | Pass          |

N/A = Not Applicable

US CPSC 16 CFR 1500.19 - MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN **NOT APPLICABLE** 



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### US CPSC 16 CFR 1500.44 - METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE **SOLIDS**

AS SPECIFIED IN US CPSC 16 CFR 1500.44 - METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

Sample Burning Rate (inch/sec) SETS DNI

DNI = Did Not Ignite

Requirement: A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining

flame at a rate greater than 0.10 in/sec along its major axis.

Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

#### Notes:

Note 1: As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

- Tracking label found on the packaging:

E0330: P2022401687 NBCN 10/2020

E0332: P2022401041 NBCN 07/2020

E0337: P2022402654 NBCN 03/2021

E0334: P2022400218 NBCN 05/2020

- Tracking label found on the product:

E0330: P2022401687 NBCN 10/2020

E0332: P2022401041 NBCN 07/2020

E0337: P2022402654 NBCN 03/2021

E0334: P2022400218 NBCN 05/2020

- Note 2: 1) The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.
  - 2) City and State, or administrative state shall be also provided for the source (location) information.

# **Test Part Description:**

| Specimen No. | SGS Sample ID    | Description |
|--------------|------------------|-------------|
| SN1          | SHA21-099748.001 | Green ABS   |
| SN2          | SHA21-099748.002 | Orange ABS  |
| SN3          | SHA21-099748.003 | Blue ABS    |



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| Test Re | port | No.: SHHL21  | 05023348TY             | Date: MAY 26, 2021 | Page 6 of 18 |
|---------|------|--------------|------------------------|--------------------|--------------|
| SN4     | SHA2 | 1-099748.004 | Green Silicone rubbe   | er                 |              |
| SN5     | SHA2 | 1-099748.005 | Orange Silicone rubb   | per                |              |
| SN6     | SHA2 | 1-099748.006 | Blue Silicone rubber   |                    |              |
| SN7     | SHA2 | 1-099748.007 | White Silicone rubbe   | r                  |              |
| SN8     | SHA2 | 1-099748.008 | Colorful coating       |                    |              |
| SN9     | SHA2 | 1-099748.009 | Natural color wood     |                    |              |
| SN10    | SHA2 | 1-099748.010 | Blue HDPE              |                    |              |
| SN11    | SHA2 | 1-099748.011 | Red ABS                |                    |              |
| SN12    | SHA2 | 1-099748.012 | Black coating on red   | plastic            |              |
| SN13    | SHA2 | 1-099748.013 | Transparent ABS        |                    |              |
| SN14    | SHA2 | 1-099748.014 | Colorful coating on re | ed plastic         |              |
| SN15    | SHA2 | 1-099748.015 | Red EVA                |                    |              |
| SN16    | SHA2 | 1-099748.016 | Transparent/Brown of   | oating on plywood  |              |
| SN17    | SHA2 | 1-099748.017 | Colorful coating on m  | netal              |              |
| SN18    | SHA2 | 1-099748.018 | Blue webbing           |                    |              |
| SN19    | SHA2 | 1-099748.019 | White PA               |                    |              |
| SN20    | SHA2 | 1-099748.020 | White PC               |                    |              |
| SN21    | SHA2 | 1-099748.021 | Black Rubber           |                    |              |
| SN22    | SHA2 | 1-099748.022 | Natural color plywood  | d                  |              |
| SN23    | SHA2 | 1-099748.023 | Silvery metal screw    |                    |              |
|         |      |              |                        |                    |              |

### Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

## American Society for Testing and Materials -ASTM F 963-17 -total Lead in Substrate Materials

Test Method: With reference to CPSC-CH-E1001-08.3, Analysis was performed by AAS. Test Item(s) <u>Limit</u> <u>Unit</u> **MDL** 023 Total Lead (Pb) 100 mg/kg 20 ND

## Lead (Pb)



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Test Method: With reference to US EPA Method 3050B:1996, analysis was performed by AAS.

| Test Item(s) | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>023</u> |
|--------------|--------------|-------------|------------|------------|
| Lead (Pb)    | 40           | mg/kg       | 2          | ND         |
| Conclusion   |              |             |            | PASS       |

Notes:

The maximum permissible limit is quoted from the client requirement.

## American Society for Testing and Materials -ASTM F 963-17 -total Lead in Substrate Materials

Test Method: With reference to CPSC-CH-E1002-08.3. Analysis was performed by AAS.

| Test Item(s) Total Lead (Pb) | <u>Limit</u> | <u>Unit</u> | MDL | <u>001</u> | <u>002</u> | <u>003</u> |
|------------------------------|--------------|-------------|-----|------------|------------|------------|
|                              | 100          | mg/kg       | 20  | ND         | ND         | ND         |
|                              |              |             |     |            |            |            |
| Test Item(s) Total Lead (Pb) | <u>Limit</u> | <u>Unit</u> | MDL | <u>004</u> | <u>005</u> | <u>006</u> |
|                              | 100          | mg/kg       | 20  | ND         | ND         | ND         |
| Test Item(s) Total Lead (Pb) | <u>Limit</u> | <u>Unit</u> | MDL | <u>007</u> | <u>010</u> | <u>011</u> |
|                              | 100          | mg/kg       | 20  | ND         | ND         | ND         |
| Test Item(s) Total Lead (Pb) | <u>Limit</u> | <u>Unit</u> | MDL | <u>013</u> | <u>015</u> | <u>019</u> |
|                              | 100          | mg/kg       | 20  | ND         | ND         | ND         |



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| Test Item(s)    | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>020</u> | <u>021</u> |
|-----------------|--------------|-------------|------------|------------|------------|
| Total Lead (Pb) | 100          | mg/kg       | 20         | ND         | ND         |

## Lead (Pb)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

| Test Item(s) Lead (Pb) Conclusion | <u>Limit</u><br>40 | <u>Unit</u><br>mg/kg | MDL<br>2        | <u>001</u><br>ND<br><b>PASS</b> | <u>002</u><br>ND<br><b>PASS</b> | <u>003</u><br>ND<br><b>PASS</b> |
|-----------------------------------|--------------------|----------------------|-----------------|---------------------------------|---------------------------------|---------------------------------|
| Test Item(s) Lead (Pb) Conclusion | <u>Limit</u><br>40 | <u>Unit</u><br>mg/kg | <u>MDL</u><br>2 | <u>004</u><br>ND<br><b>PASS</b> | <u>005</u><br>ND<br><b>PASS</b> | <u>006</u><br>ND<br><b>PASS</b> |
| Test Item(s) Lead (Pb) Conclusion | <u>Limit</u><br>40 | <u>Unit</u><br>mg/kg | MDL<br>2        | <u>007</u><br>ND<br><b>PASS</b> | 008<br>ND<br><b>PASS</b>        | <u>010</u><br>ND<br><b>PASS</b> |
| Test Item(s) Lead (Pb) Conclusion | <u>Limit</u><br>40 | <u>Unit</u><br>mg/kg | MDL<br>2        | <u>011</u><br>ND<br><b>PASS</b> | <u>012</u><br>ND<br><b>PASS</b> | <u>013</u><br>ND<br><b>PASS</b> |
| Test Item(s) Lead (Pb) Conclusion | <u>Limit</u><br>40 | <u>Unit</u><br>mg/kg | MDL<br>2        | <u>014</u><br>ND<br><b>PASS</b> | <u>015</u><br>ND<br><b>PASS</b> | <u>016</u><br>ND<br><b>PASS</b> |



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|--------------|-----------------------|--------------------|------------|------------|------------|--------------|--|--|
| Test Item(s) | <u>Limit</u>          | <u>Unit</u>        | <u>MDL</u> | <u>017</u> | <u>019</u> | <u>020</u>   |  |  |
| Lead (Pb)    | 40                    | mg/kg              | 2          | ND         | ND         | ND           |  |  |
| Conclusion   |                       |                    |            | PASS       | PASS       | PASS         |  |  |
|              |                       |                    |            |            |            |              |  |  |
| Test Item(s) | <u>Limit</u>          | <u>Unit</u>        | MDL        | <u>021</u> |            |              |  |  |
| Lead (Pb)    | 40                    | mg/kg              | 2          | ND         |            |              |  |  |
| Conclusion   |                       |                    |            | PASS       |            |              |  |  |

Notes:

The maximum permissible limit is quoted from the client requirement.

## American Society for Testing and Materials -ASTM F 963-17- total Lead in paint and similar surface-coating **materials**

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS.

| Test Item(s)    | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>008</u> | <u>012</u> | <u>014</u> |
|-----------------|--------------|-------------|------------|------------|------------|------------|
| Total Lead (Pb) | 90           | mg/kg       | 20         | ND         | ND         | ND         |

| Test Item(s)    | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>016</u> | <u>017</u> |
|-----------------|--------------|-------------|------------|------------|------------|
| Total Lead (Pb) | 90           | mg/kg       | 20         | ND         | ND         |

# Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A. requirement-Lead

Test Method: With reference to CPSC Test Method: CPSC-CH-E1003-09.1, analysis was performed by AAS.

| Test Item(s) | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>008</u> | <u>012</u> | <u>014</u> |
|--------------|--------------|-------------|------------|------------|------------|------------|
| Lead (Pb)    | 0.009        | %           | 0.002      | ND         | ND         | ND         |
| Conclusion   |              |             |            | PASS       | PASS       | PASS       |

Test Item(s) <u>Limit</u> <u>Unit</u> MDL <u>016</u> 017



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**Test Report** No.: SHHL2105023348TY Date: MAY 26, 2021 Page 10 of 18

Lead (Pb) 0.009 0.002 ND ND Conclusion **PASS PASS** 

## American Society for Testing and Materials -ASTM F 963-17 - soluble Heavy Metal for paint and similar surface-coating materials/ Substrate Materials

Test Method: With reference to ASTM F 963-17 (Clause 8.3), analysis was performed by ICP-OES.

| Test Item(s)          | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> | <u>002</u> | <u>003</u> |
|-----------------------|--------------|-------------|------------|------------|------------|------------|
| Soluble Lead (Pb)     | 90           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Antimony (Sb) | 60           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Arsenic (As)  | 25           | mg/kg       | 2.5        | ND         | ND         | ND         |
| Soluble Barium (Ba)   | 1000         | mg/kg       | 10         | ND         | ND         | ND         |
| Soluble Cadmium (Cd)  | 75           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Chromium (Cr) | 60           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Mercury (Hg)  | 60           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Selenium (Se) | 500          | mg/kg       | 10         | ND         | ND         | ND         |
|                       |              |             |            |            |            |            |
| Test Item(s)          | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>004</u> | <u>005</u> | <u>006</u> |
| Soluble Lead (Pb)     | 90           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Antimony (Sb) | 60           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Arsenic (As)  | 25           | mg/kg       | 2.5        | ND         | ND         | ND         |
| Soluble Barium (Ba)   | 1000         | mg/kg       | 10         | ND         | ND         | ND         |
| Soluble Cadmium (Cd)  | 75           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Chromium (Cr) | 60           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Mercury (Hg)  | 60           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Selenium (Se) | 500          | mg/kg       | 10         | ND         | ND         | ND         |



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|---|-----------------------|----------------|--------------|------------------|-----------------|------------------|---------------|--|
| Test Item(s)                            | <u>Limit</u>          | <u>Unit</u>    | <u>MDL</u>   | <u>007</u>       | <u>008</u>      | <u>009</u>       |               |  |
| Soluble Lead (Pb)                       | 90                    | mg/kg          | 5            | ND               | -               | ND               |               |  |
| Soluble Antimony (Sb)                   | 60                    | mg/kg          | 5            | ND               | -               | ND               |               |  |
| Soluble Arsenic (As)                    | 25                    | mg/kg          | 2.5          | ND               | -               | ND               |               |  |
| Soluble Barium (Ba)                     | 1000                  | mg/kg          | 10           | ND               | -               | ND               |               |  |
| Soluble Cadmium (Cd)                    | 75                    | mg/kg          | 5            | ND               | -               | ND               |               |  |
| Soluble Chromium (Cr)                   | 60                    | mg/kg          | 5            | ND               | -               | ND               |               |  |
| Soluble Mercury (Hg)                    | 60                    | mg/kg          | 5            | ND               | -               | ND               |               |  |
| Soluble Selenium (Se)                   | 500                   | mg/kg          | 10           | ND               | -               | ND               |               |  |
| Test Item(s)                            | <u>Limit</u>          | <u>Unit</u>    | MDL          | <u>010</u>       | <u>011</u>      | <u>012</u>       |               |  |
| Soluble Lead (Pb)                       | 90                    | mg/kg          | 5            | ND               | ND              | -                |               |  |
| Soluble Antimony (Sb)                   | 60                    | mg/kg          | 5            | ND               | ND              | _                |               |  |
| Soluble Arsenic (As)                    | 25                    | mg/kg          | 2.5          | ND               | ND              | -                |               |  |
| Soluble Barium (Ba)                     | 1000                  |                | 10           | ND               | ND              | -                |               |  |
| Soluble Cadmium (Cd)                    | 75                    | mg/kg          | 5            | ND               | ND              | -                |               |  |
| Soluble Chromium (Cr)                   | 60                    | mg/kg          | 5            | ND               | ND              | -                |               |  |
| Soluble Mercury (Hg)                    | 60                    | mg/kg          | 5            | ND               | ND              | -                |               |  |
| Soluble Selenium (Se)                   | 500                   | mg/kg          | 10           | ND               | ND              | -                |               |  |
| Test Item(s)                            | Limit                 | Unit           | <u>MDL</u>   | 012              | 014             | 015              |               |  |
| Soluble Lead (Pb)                       | <u>Limit</u><br>90    | <u>Unit</u>    | <u> </u>     | <u>013</u><br>ND | <u>014</u><br>- | <u>015</u><br>ND |               |  |
| Soluble Lead (Pb) Soluble Antimony (Sb) | 60                    | mg/kg          | 5<br>5       | ND<br>ND         | -               | ND               |               |  |
| Soluble Arsenic (As)                    | 25                    | mg/kg<br>mg/kg | 2.5          | ND               | -               | ND               |               |  |
| Soluble Barium (Ba)                     | 1000                  |                | 10           | ND               | -               | ND               |               |  |
| Soluble Cadmium (Cd)                    | 75                    | mg/kg          | 5            | ND               | -               | ND               |               |  |
| Soluble Chromium (Cr)                   | 60                    | mg/kg          | 5            | ND               | -               | ND               |               |  |
| Soluble Mercury (Hg)                    | 60                    | mg/kg          | 5            | ND               | -               | ND               |               |  |
| Soluble Selenium (Se)                   | 500                   | mg/kg          | 10           | ND               | _               | ND               |               |  |
| 23.23.0 20.0.mam (00)                   | 000                   | 9,9            | . •          |                  |                 | .,,,             |               |  |



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|-----------------------|-----------------------|---------------|-----------------|------------------|------------------|-------------------|--|
| Test Item(s)          | <u>Limit</u>          | <u>Unit</u>   | MDL             | <u>016</u>       | <u>017</u>       | <u>018</u>        |  |
| Soluble Lead (Pb)     | 90                    | mg/kg         | 5               | _                | ND               | ND                |  |
| Soluble Antimony (Sb) | 60                    | mg/kg         | 5               | _                | ND               | ND                |  |
| Soluble Arsenic (As)  | 25                    | mg/kg         | 2.5             | -                | ND               | ND                |  |
| Soluble Barium (Ba)   | 1000                  | mg/kg         | 10              | -                | ND               | ND                |  |
| Soluble Cadmium (Cd)  | 75                    | mg/kg         | 5               | -                | ND               | ND                |  |
| Soluble Chromium (Cr) | 60                    | mg/kg         | 5               | -                | ND               | ND                |  |
| Soluble Mercury (Hg)  | 60                    | mg/kg         | 5               | -                | ND               | ND                |  |
| Soluble Selenium (Se) | 500                   | mg/kg         | 10              | -                | ND               | ND                |  |
| Test Item(s)          | Limit                 | <u>Unit</u>   | MDL             | <u>019</u>       | <u>020</u>       | <u>021</u>        |  |
| Soluble Lead (Pb)     | <u>Liiiit</u><br>90   | mg/kg         | <u>MDL</u><br>5 | <u>019</u><br>ND | <u>020</u><br>ND | <u>02 1</u><br>ND |  |
| Soluble Antimony (Sb) | 60                    | mg/kg         | 5               | ND               | ND               | ND                |  |
| Soluble Arsenic (As)  | 25                    | mg/kg         | 2.5             | ND               | ND               | ND                |  |
| Soluble Barium (Ba)   | 1000                  | mg/kg         | 10              | ND               | ND               | ND                |  |
| Soluble Cadmium (Cd)  | 75                    | mg/kg         | 5               | ND               | ND               | ND                |  |
| Soluble Chromium (Cr) | 60                    | mg/kg         | 5               | ND               | ND               | ND                |  |
| Soluble Mercury (Hg)  | 60                    | mg/kg         | 5               | ND               | ND               | ND                |  |
| Soluble Selenium (Se) | 500                   | mg/kg         | 10              | ND               | ND               | ND                |  |
| Soluble Selenium (Se) | 300                   | ilig/kg       | 10              | ND               | ND               | ND                |  |
| Test Item(s)          | <u>Limit</u>          | <u>Unit</u>   | MDL             | <u>022</u>       |                  |                   |  |
| Soluble Lead (Pb)     | 90                    | mg/kg         | 5               | ND               |                  |                   |  |
| Soluble Antimony (Sb) | 60                    | mg/kg         | 5               | ND               |                  |                   |  |
| Soluble Arsenic (As)  | 25                    | mg/kg         | 2.5             | ND               |                  |                   |  |
| Test Item(s)          | <u>Limit</u>          | <u>Unit</u>   | <u>MDL</u>      | 022              |                  |                   |  |
| Soluble Barium (Ba)   | 1000                  | mg/kg         | 10              | ND               |                  |                   |  |
| Soluble Cadmium (Cd)  | 75                    | mg/kg         | 5               | ND               |                  |                   |  |
| Soluble Chromium (Cr) | 60                    | mg/kg         | 5               | ND               |                  |                   |  |
| Soluble Mercury (Hg)  | 60                    | mg/kg         | 5               | ND               |                  |                   |  |
| Soluble Selenium (Se) | 500                   | mg/kg         | 10              | ND               |                  |                   |  |
|                       |                       | _             |                 |                  |                  |                   |  |

#### Notes:

- (1) Results shown are of the adjusted analytical results
- (2) Mass of trace amount of sample 017 is 38.1mg.
- (3) As received, the test portion of samples 008,012,014,016 from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM



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F963-17 Clause 8.3.3.6 (2) - Selection of Test Portions

### CPSIA section 101(f) - Lead in paint/similar surface coating material

Test Method: CPSC Test Method: CPSC-CH-E1003-09.1 'Standard Operating Procedure for Determining

Lead (Pb) in Paint and Other Similar Surface Coatings'

| Test Item(s) | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>008</u> | <u>012</u> | <u>014</u> |
|--------------|--------------|-------------|------------|------------|------------|------------|
| Lead (Pb)    | 0.009        | %           | 0.002      | ND         | ND         | ND         |
| Conclusion   |              |             |            | PASS       | PASS       | PASS       |
|              |              |             |            |            |            |            |
|              |              |             |            |            |            |            |
| Test Item(s) | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>016</u> | <u>017</u> |            |
| Lead (Pb)    | 0.009        | %           | 0.002      | ND         | ND         |            |
| Conclusion   |              |             |            | PASS       | PASS       |            |

## CPSIA section 101(a)(2) - Lead in accessible substrate materials

Test Method: CPSC Test Method: CPSC-CH-E1001-08.3 `Standard Operating Procedure for Determining Total Lead (Pb) in Children`s Metal Products (Including Children`s Metal Jewelry)`.

| Conclusion   |              |             |       | PASS       |
|--------------|--------------|-------------|-------|------------|
| Lead (Pb)    | 0.01         | %           | 0.002 | ND         |
| Test Item(s) | <u>Limit</u> | <u>Unit</u> | MDL   | <u>023</u> |

### Notes:

Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715,

112th Congress) amending CPSIA)



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## CPSIA section 101(a)(2) - Lead in accessible substrate materials

Test Method: CPSC Test Method: CPSC-CH-E1002-08.3 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'

| Test Item(s) Lead (Pb) Conclusion | <u>Limit</u><br>0.01 | <u>Unit</u><br>% | <u>MDL</u><br>0.002 | <u>001</u><br>ND<br><b>PASS</b> | <u>002</u><br>ND<br><b>PASS</b> | <u>003</u><br>ND<br><b>PASS</b> |
|-----------------------------------|----------------------|------------------|---------------------|---------------------------------|---------------------------------|---------------------------------|
| Test Item(s) Lead (Pb) Conclusion | <u>Limit</u><br>0.01 | <u>Unit</u><br>% | MDL<br>0.002        | <u>004</u><br>ND<br><b>PASS</b> | <u>005</u><br>ND<br><b>PASS</b> | <u>006</u><br>ND<br><b>PASS</b> |
| Test Item(s) Lead (Pb) Conclusion | <u>Limit</u><br>0.01 | <u>Unit</u><br>% | <u>MDL</u><br>0.002 | <u>007</u><br>ND<br><b>PASS</b> | <u>010</u><br>ND<br><b>PASS</b> | <u>011</u><br>ND<br><b>PASS</b> |
| Test Item(s) Lead (Pb) Conclusion | <u>Limit</u><br>0.01 | <u>Unit</u><br>% | <u>MDL</u><br>0.002 | <u>013</u><br>ND<br><b>PASS</b> | <u>015</u><br>ND<br><b>PASS</b> | <u>019</u><br>ND<br><b>PASS</b> |
| Test Item(s) Lead (Pb) Conclusion | <u>Limit</u><br>0.01 | <u>Unit</u><br>% | MDL<br>0.002        | <u>020</u><br>ND<br><b>PASS</b> | <u>021</u><br>ND<br><b>PASS</b> |                                 |

### Notes:

Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)



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