

Date: OCT 27, 2021

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

| Sample Description | : | PULL AND PLAY SHAPE SORTE |
|---|---|------------------------------|
| Sample Quantity | : | 6 PCS |
| Style / Item No. | : | E0349 |
| Country of Origin | : | CHINA |
| Country of Destination | : | GLOBAL |
| Labeled Age Grading | : | 12M+ |
| Requested Age Grading | : | 12M+ |
| Asin No | : | B00DQRV990 |
| Client reference information | : | E0349A |
| Age Group Assessed as Per Age Guideline | : | 12+ MONTHS |
| Age Group Applied in Testing | : | 12+ MONTHS |
| Sample Receiving Date | : | OCT 20, 2021 |
| Testing Period | : | OCT 20, 2021 TO OCT 27, 2021 |

| Test Requested | <u>Result</u> |
|---|---------------|
| 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 CFR 1500.49 and US CPSC 16 CFR 1501 | <u>Pass</u> |
| US CPSC 16 CFR 1500.19 – Misbranded toys and other articles intended for use by children | <u>N/A</u> |
| US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids | <u>Pass</u> |
| Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products. | <u>Pass</u> |
| Lead (Pb) | Pass |
| Part 1303, Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. requirement-Lead | <u>Pass</u> |
| CPSIA section 101(a)(2)-Lead in accessible substrate materials (Non-Metal) | Pass |
| CPSIA section 101(f)-Lead in paint/similar surface coating material | Pass |
| | |





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************ FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) ***********

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Jessie Zhou 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> | Description | <u>Result</u> |
|---------------|---|-------------------------------------|
| 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 | Pass |
| 4.6.1 | Small Objects | Pass |
| 4.7 | Accessible Edges | Pass |
| 4.8 | Projections | Pass |
| 4.9 | Accessible Points | Pass |
| 4.11 | Nails and Fasteners | <u>Pass</u> |
| 4.14 | Cords, Straps and Elastic | Pass |
| 4.17 | Wheels, Tires, and Axles | Pass |
| 5 | Safety Labeling Requirements | |
| 5.2 | Age Grading Labeling | Pass |
| 5.16 | Promotional Materials | Pass |
| 7 | Producer's Markings | |
| 7.1 | Producer's Markings | Pass |
| 8.5 | Normal Use Testing | Pass |
| 8.7 | Impact Test | Pass |
| 8.8 | Torque Test | Pass |
| 8.9 | Tension Test | Pass |
| 8.10 | Compression Test | <u>Pass</u> |
| | | |

** Visual Examination



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Detail of test result:

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

Sample PULL AND PLAY SHAPE SORTE Burning Rate (inch/sec) DNI

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.

DNI = Did Not Ignite

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

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 PULL AND PLAY SHAPE SORTE Burning Rate (inch/sec) DNI

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.

DNI = Did Not Ignite

<u>Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels</u> 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: E0349: P2122402265 NBCN 08/2021
- Tracking label found on the product: E0349: P2122402265 NBCN 08/2021
- 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.



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Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|-----------------------|
| SN1 | SHA21-228308.001 | Red coating |
| SN2 | SHA21-228308.002 | Orange coating |
| SN3 | SHA21-228308.003 | Yellow coating |
| SN4 | SHA21-228308.004 | Lt. Green coating |
| SN5 | SHA21-228308.005 | Dk. Green coating |
| SN6 | SHA21-228308.006 | Lt. Blue coating |
| SN7 | SHA21-228308.007 | Dk. Blue coating |
| SN8 | SHA21-228308.008 | Brown coating |
| SN9 | SHA21-228308.009 | Black coating |
| SN10 | SHA21-228308.010 | White coating |
| SN11 | SHA21-228308.011 | Grey coating |
| SN12 | SHA21-228308.012 | Transparent coating |
| SN13 | SHA21-228308.013 | Cream rubber |
| SN14 | SHA21-228308.014 | Red string |
| SN15 | SHA21-228308.015 | Red elastic band |
| SN16 | SHA21-228308.016 | Natural color wood |
| SN17 | SHA21-228308.017 | Natural color plywood |

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-E1002-08.3. Analysis was performed by AAS.

| Test Item(s) | <u>Limit</u> | <u>Unit</u> | MDL | <u>013</u> | <u>015</u> |
|-----------------|--------------|-------------|-----|------------|------------|
| Total Lead (Pb) | 100 | mg/kg | 20 | ND | ND |



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|-------------|-----------------------|--------------------|------------------------|
| Lead (Pb) | | | |

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

| <u>Test Item(s)</u> Lead (Pb) Conclusion | <u>Limit</u> 40 | <u>Unit</u> mg/kg | MDL 2 | <u>001</u> ND PASS | <u>002</u> ND PASS | <u>003</u> ND PASS |
|---|--------------------|----------------------|----------|---------------------------------|---------------------------------|---------------------------------|
| <u>Test Item(s)</u> Lead (Pb) Conclusion | <u>Limit</u> 40 | <u>Unit</u> mg/kg | MDL 2 | <u>004</u> ND PASS | <u>005</u> ND PASS | <u>006</u> ND PASS |
| <u>Test Item(s)</u> Lead (Pb) Conclusion | <u>Limit</u> 40 | <u>Unit</u> mg/kg | MDL 2 | <u>007</u> ND PASS | <u>008</u> ND PASS | <u>009</u> ND PASS |
| <u>Test Item(s)</u> Lead (Pb) Conclusion | <u>Limit</u> 40 | <u>Unit</u> mg/kg | MDL 2 | <u>010</u> ND PASS | <u>011</u> ND PASS | <u>012</u> ND PASS |
| <u>Test Item(s)</u> Lead (Pb) Conclusion | <u>Limit</u> 40 | <u>Unit</u> mg/kg | MDL 2 | <u>013</u> ND PASS | <u>015</u> ND PASS | |

Notes :

The maximum permissible limit is quoted from the client requirement.



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<u>American Society for Testing and Materials – ASTM F 963-17– total Lead in paint and similar</u> <u>surface-coating materials</u>

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

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> | <u>002</u> | <u>003</u> |
|---------------------|--------------|-------------|------------|------------|------------|------------|
| Total Lead (Pb) | 90 | mg/kg | 20 | ND | ND | ND |
| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>004</u> | <u>005</u> | <u>006</u> |
| Total Lead (Pb) | 90 | mg/kg | 20 | ND | ND | ND |
| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>007</u> | <u>008</u> | <u>009</u> |
| Total Lead (Pb) | 90 | mg/kg | 20 | ND | ND | ND |
| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>010</u> | <u>011</u> | <u>012</u> |
| Total Lead (Pb) | 90 | mg/kg | 20 | ND | 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.

| <u>Test Item(s)</u> Lead (Pb) Conclusion | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | <u>001</u> ND PASS | <u>002</u> ND PASS | <u>003</u> ND PASS |
|---|-----------------------|------------------|---------------------|---------------------------------|---------------------------------|---------------------------------|
| <u>Test Item(s)</u> Lead (Pb) Conclusion | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | <u>004</u> ND PASS | <u>005</u> ND PASS | <u>006</u> ND PASS |
| <u>Test Item(s)</u> Lead (Pb) Conclusion | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | <u>007</u> ND PASS | <u>008</u> ND PASS | <u>009</u> ND PASS |



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|-----------------------|--------------------|--------------------------|-----------------------|---|--|--|
| Limit | <u>Unit</u> | <u>MDL</u> | <u>010</u> | <u>011</u> | <u>012</u> | |
| 0.009 | % | 0.002 | ND | ND | ND | |
| | | | PASS | PASS | PASS | |
| | <u>Limit</u> | <u>Limit</u> <u>Unit</u> | <u>Limit Unit MDL</u> | <u>Limit Unit MDL 010</u> 0.009 % 0.002 ND | <u>Limit Unit MDL 010 011</u> 0.009 % 0.002 ND ND | |

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> | MDL | <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> | MDL | <u>004</u> | <u>005</u> | <u>006</u> |
| Soluble Lead (Pb) | <u>90</u> | mg/kg | 5 | <u>007</u> ND | - | <u>000</u> 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>007</u> | <u>008</u> | <u>009</u> |
| Soluble Lead (Pb) | <u>90</u> | mg/kg | 5 | <u>007</u> ND | 000 | 003 |
| Soluble Antimony (Sb) | 90 60 | | 5 | ND | - | - |
| Soluble Artamony (Sb) Soluble Arsenic (As) | 80 25 | mg/kg | 5 2.5 | ND | - | - |
| Soluble Barium (Ba) | 25 1000 | mg/kg mg/kg | 2.5 10 | ND | - | - |
| Soluble Cadmium (Cd) | 75 | mg/kg | 5 | ND | - | _ |
| Soluble Chromium (Cr) | 60 | mg/kg | 5 | ND | - | - |
| Soluble Mercury (Hg) | 60 60 | mg/kg | 5 | ND | - | - |
| | 00 | iiig/kg | 5 | | - | - |



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|-----------------------|-----------------------|-------------|--------------------|------------|------------|---------------|
| Soluble Selenium (Se) | 500 | mg/kg | 10 | ND | - | - |
| | | | | | | |
| Test Item(s) | Limit | <u>Unit</u> | MDL | <u>010</u> | <u>011</u> | <u>012</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) | Limit | <u>Unit</u> | MDL | <u>010</u> | <u>011</u> | <u>012</u> |
| 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 |
| | | | | | | |
| Test Item(s) | Limit | <u>Unit</u> | MDL | <u>013</u> | <u>014</u> | <u>015</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 | 11 | 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 |
| | l : :4 | 1.1 | | 040 | 047 | |
| <u>Test Item(s)</u> | Limit | <u>Unit</u> | <u>MDL</u> | <u>016</u> | <u>017</u> | |
| Soluble Lead (Pb) | 90 | mg/kg | 5 | | 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 | |
| Soluble Mercury (Hg) | 60 | mg/kg | 5 | ND | ND | |
| Soluble Selenium (Se) | 500 | mg/kg | 10 | ND | ND | |



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Date: OCT 27, 2021

Notes :

(1) Results shown are of the adjusted analytical results.

(2) Mass of trace amount of sample 001 is 31.5mg, sample 002 is 23.4mg, sample 003 is 33.1mg, sample 004 is 78.5mg, sample 006 is 22.4mg, sample 007 is 53.9mg, sample 012 is 36.4mg.
(3) As received, the test portion of samples 005, 008~011 from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions

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

Test Method : With reference to CPSC-CH-E1002-08.3 ,analysis was performed by AAS or ICP-OES.

| Test Item(s) Lead (Pb) Test Item(s) Conclusion | <u>Limit</u> 0.01 <u>Limit</u> | <u>Unit</u> % <u>Unit</u> | <u>MDL</u> 0.002 <u>MDL</u> | 013 ND 013 PASS |
|---|--------------------------------------|---------------------------------|-----------------------------------|---------------------------------|
| <u>Test Item(s)</u> Lead (Pb) Conclusion | <u>Limit</u> 0.01 | <u>Unit</u> % | <u>MDL</u> 0.002 | 015 ND PASS |

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

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

| <u>Test Item(s)</u> Lead (Pb) Conclusion | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | 001 ND PASS |
|---|-----------------------|------------------|---------------------|-------------------|
| <u>Test Item(s)</u> Lead (Pb) Conclusion | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | 002 ND PASS |
| Test Item(s) Lead (Pb) Conclusion | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | 003 ND PASS |



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|---|-----------------------|-----------------------|--------------------|---------------------|---------------------------------|--|
| Test Item(s) Lead (Pb) Conclusion | | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | 004 ND PASS | |
| <u>Test Item(s)</u> Lead (Pb) Conclusion | | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | 005 ND PASS | |
| <u>Test Item(s)</u> Lead (Pb) Conclusion | | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | 006 ND PASS | |
| <u>Test Item(s)</u> Lead (Pb) Conclusion | | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | 007 ND PASS | |
| <u>Test Item(s)</u> Lead (Pb) Conclusion | | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | 008 ND PASS | |
| <u>Test Item(s)</u> Lead (Pb) Conclusion | | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | 009 ND PASS | |
| <u>Test Item(s)</u> Lead (Pb) Conclusion | | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | <u>010</u> ND PASS | |
| <u>Test Item(s)</u> Lead (Pb) Conclusion | | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | 011 ND PASS | |
| <u>Test Item(s)</u> Lead (Pb) Conclusion | | <u>Limit</u> 0.009 | <u>Unit</u> % | <u>MDL</u> 0.002 | 012 ND PASS | |



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Remark:

The test results 001, 006 are taken from report SHA21-194652.004, 002

The test results 002, 009, 010, 012, 013, 014, 017 are taken from report SHA21-207635.013, 009, 012, 014, 006, 003, 001

The test results 003, 004, 008, 015 are taken from report SHA21-205049.010, 018, 019, 028

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