



Test Report

No.: T52310260041TY

Date: MAR 07, 2023

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HAPE INTERNATIONAL (NINGBO) LTD
HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY,
BEILUN,NINGBO,CHINA PC:315800

The results of this report are extracted from the test report number T52210271881TY where the sample(s) / material(s) of sample is(are) claimed to be identical.

The following samples were submitted and identified by/on behalf of the client as:

SOLID POSTER PAINT

Item No. : 843532
Labeled Age Grading : 3+
Requested Age Grading : 3+

SGS Ref. No. : SHHL2302007497TY
Age Group Assessed by SGS As Per Age : OVER 3 YEARS
Guideline
Age Group Applied in Testing : OVER 3 YEARS
Sample Receiving Date : MAY 26, 2022
Further Information Date : MAR 02, 2023
Testing Period : MAY 26, 2022 TO JUN 19, 2022



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Shenzhen Branch Testing Center Hardlines

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Member of the SGS Group (SGS SA)

| Test Requested | | Conclusion |
|----------------|--|------------|
| 1. | Per applicant's request, for compliance with the selected requirement(s) of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety. Refer to test result page(s) for details. (Selected tests item as specified by the applicant, please refer to test result page(s) for details) | -- |
| | ASTM F963-17 Standard Consumer Safety Specification for Toy Safety (Except clause 4.3.5.1) | PASS |
| 2. | CPSIA section 101 - Total Lead content in the specified specimen(s) as listed | -- |
| | CPSIA section 101(a) (2) – Lead in accessible substrate materials (Including Children's Metal Jewelry) | PASS |

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

Signed for and on behalf of
 SGS-CSTC Standards Technical
 Services Co., Ltd. Shenzhen Branch Testing Center




Qu Ping, Kiky
 Dept. Manager

Huang Yao, Lucy
 Section Head



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Results:

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> | <u>Result</u> |
|---------------|---|---|
| 4 | Safety Requirements | |
| 4.1 | Material Quality ** | <u>Pass</u> |
| 4.2 | Flammability Test | <u>Pass</u> <u>(See Result Page)</u> |
| 4.3 | Toxicology | |
| 4.3.5 | Heavy Elements | |
| 4.3.5.2 | Heavy Metal in Substrate Materials | <u>Pass</u> <u>(See Result Page)</u> |
| 4.6.1 | Small Objects | <u>N/A</u> |
| 4.6.2 | Mouth-Actuated Toys | <u>N/A</u> |
| 4.6.3 | Labelling Requirements | <u>N/A</u> |
| | Remark: The toy does not contain as-received small part. | <u>(See Remark)</u> |
| 4.7 | Accessible Edges | <u>Pass</u> |
| 4.9 | Accessible Points | <u>Pass</u> |
| 4.29 | Art Materials | <u>Pass*</u> |
| | (* The tests specified in this clause are not in the scope of CNAS/HOKLAS accreditation.) | |
| 5 | Safety Labeling Requirements | |
| 5.2 | Age Grading Labeling | <u>Pass</u> |
| 5.13 | Art Materials | <u>Pass*</u> |
| 5.16 | Promotional Materials | <u>Pass</u> |
| 7 | Producer's Markings | |
| 7.1 | Producer's Markings | <u>Pass</u> |



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| <u>Clause</u> | <u>Description</u> | <u>Result</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> |

N/A = Not Applicable

** Visual Examination

*The test result was based on the client provided documents

| <u>Requirements</u> | <u>Report No.</u> | <u>Testing Lab</u> | <u>Issue Date</u> |
|---------------------|-------------------|--------------------|-------------------|
| LHAMA | SHAHG2205567901 | SGS | MAY 23,2022 |

Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample
SOLID POSTER PAINT

Burning Rate (inch/sec)
0.01

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.



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ASTM F963-17, Clause 4.3.5.2 – Heavy Elements in Substrate Materials

Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3 / ASTM F963-17 Clause 8.3 / CPSC-CH-E1004-11

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)/ Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

Total Lead Content

| Test Item(s) | Lead (Pb) | | |
|---|-----------|-------------|-----------------|
| MDL (ppm) | 10 | | |
| Total Limit (ppm) | 100 | | |
| Specimen Description | Alias No. | Tracing No. | Result(s) (ppm) |
| 1. Red poster paint + Orange poster paint + Yellow poster paint | 2 | 1 | ND |
| 2. Pink poster paint + Light green poster paint + Dark green poster paint | 2 | 2 | ND |
| 3. Light blue poster paint + Dark blue poster paint + Brown poster paint | 2 | 3 | ND |
| 4. Purple poster paint + White poster paint + Black poster paint | 2 | 4 | ND |



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Soluble Heavy Metal Content

| Test Item(s) | | | | Pb | Sb | As | Ba | Cd | Cr | Hg | Se |
|--|-----------|-------------|---------------------------|------------------------------------|----|-----|------|----|----|----|-----|
| MDL (ppm) | | | | 5 | 5 | 2.5 | 10 | 5 | 5 | 5 | 10 |
| Migration Limit (ppm) -- Other Than Modeling Clays | | | | 90 | 60 | 25 | 1000 | 75 | 60 | 60 | 500 |
| Migration Limit (ppm) -- Modeling Clays | | | | 90 | 60 | 25 | 250 | 50 | 25 | 25 | 500 |
| Specimen No. | Alias No. | Tracing No. | Mass of trace amount (mg) | Adjusted Migration Result(s) (ppm) | | | | | | | |
| 1 | 1 | 1 | / | ND | ND | ND | 45 | ND | ND | ND | ND |
| 2 | 1 | 2 | / | ND | ND | ND | ND | ND | ND | ND | ND |
| 3 | 1 | 3 | / | ND | ND | ND | ND | ND | ND | ND | ND |
| 4 | 1 | 4 | / | ND | ND | ND | ND | ND | ND | ND | ND |
| 5 | 1 | 5 | / | ND | ND | ND | 49 | ND | ND | ND | ND |
| 6 | 1 | 6 | / | ND | ND | ND | ND | ND | ND | ND | ND |
| 7 | 1 | 7 | / | ND | ND | ND | ND | ND | ND | ND | ND |
| 8 | 1 | 8 | / | ND | ND | ND | ND | ND | ND | ND | ND |
| 9 | 1 | 9 | / | ND | ND | ND | ND | ND | ND | ND | ND |
| 10 | 1 | 10 | / | ND | ND | ND | ND | ND | ND | ND | ND |
| 11 | 1 | 11 | / | ND | ND | ND | ND | ND | ND | ND | ND |
| 12 | 1 | 12 | / | ND | ND | ND | ND | ND | ND | ND | ND |

Specimen Description:

1. Red poster paint
2. Orange poster paint
3. Yellow poster paint
4. Pink poster paint
5. Light green poster paint
6. Dark green poster paint
7. Light blue poster paint
8. Dark blue poster paint
9. Brown poster paint
10. Purple poster paint
11. White poster paint
12. Black poster paint



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- Note:
- ppm = parts per million
 - µg/component = microgramme per component
 - 1% = 10000 mg/kg = 10000 ppm =10000 µg/g
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit

CPSIA - Lead in Accessible Substrate Materials

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3 - Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product

Method (metal materials): With reference to CPSC-CH-E1001-08.3 - Standard Operating Procedure for Determining Total Lead (Pb) in Children’s Metal Products (Including Children’s Metal Jewelry)

| Test Item(s) | Lead (Pb) | | |
|---|-----------|-------------|-----------------|
| Permissible Limit ** (ppm) | 100 | | |
| Specimen Description | Alias No. | Tracing No. | Result(s) (ppm) |
| 1. Red poster paint + Orange poster paint + Yellow poster paint | 3 | 1 | ND |
| 2. Pink poster paint + Light green poster paint + Dark green poster paint | 3 | 2 | ND |
| 3. Light blue poster paint + Dark blue poster paint + Brown poster paint | 3 | 3 | ND |
| 4. Purple poster paint + White poster paint + Black poster paint | 3 | 4 | ND |

** Permissible Limit applies to a children’s product manufactured after 14 August 2011 (Public Law 110-314 (Consumer Product Safety Improvement Act of 2008) and its Amendments Public Law 112-28)

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm

N.B. : - Only applicable clauses were shown.



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2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_L - U_{95}, T_L + U_{95}]$

Sample Photo:



SGS authenticate the photo on original report only

*** End of Report ***

