



Test Report

No.: SHHL2105023352TY

Date: MAY 26, 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 : 6-IN-1 MUSIC MAKER/ STACKING MUSIC SET
Sample Quantity : 10 SETS
Style / Item No. : E0335, E0336
Country of Origin : CHINA
Country of Destination : GLOBAL
Labeled Age Grading : 18M+
Requested Age Grading : 18M+
Client Reference Information : E0335A, E0336A
Age Group Assessed as Per Age Guideline : 18+MONTHS
Age Group Applied in Testing : 18+MONTHS
Sample Receiving Date : MAY 14, 2021
Testing Period : MAY 14, 2021 TO MAY 26, 2021

Table with 2 columns: Test Requested, Result. Rows include ASTM F963-17 Standard Consumer Safety Specification for Toy Safety (Pass), Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501 (Pass), US CPSC 16 CFR 1500.19 - Misbranded toys and other articles intended for use by children (N/A), US CPSC 16 CFR 1500.44 - Method for determining extremely flammable and flammable solids (Pass), Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products (Pass), Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A. requirement-Lead (Pass), CPSIA section 101(f) - Lead in paint/similar surface coating material (Pass), CPSIA section 101(a)(2) - Lead in accessible substrate materials (Pass)

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




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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>	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	<u>Pass (See Detail of test result)</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass (See Detail of test result)</u>
4.3.5.2	Heavy Metal in Substrate Materials	<u>Pass (See Detail of test result)</u>
4.6.1	Small Objects	<u>Pass</u>
4.6.2	Mouth-Actuated Toys	<u>N/A</u>
4.6.3	Labelling Requirements	<u>N/A</u>
4.7	Accessible Edges	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.11	Nails and Fasteners	<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>

N/A = Not Applicable

\*\* Visual Examination



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Detail of test result:

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

Sample  
MUSIC SET

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

	<u>No. of sample tested</u>	<u>Sharp point (16 CFR 1500.48)</u>	<u>Sharp edge (16 CFR 1500.49)</u>	<u>Small part (16 CFR 1501)</u>
As received	2	Pass	Pass	Pass
Impact test (16 CFR 1500.53b)	2	Pass	Pass	Pass
Bite test (16 CFR 1500.52c)	2	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)	2	Pass	Pass	Pass
Tension test (16 CFR 1500.53f)	2	Pass	Pass	Pass
Compression test (16 CFR 1500.53g)	2	Pass	Pass	Pass

N/A = Not Applicable

**US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN**

AS SPECIFIED IN US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN

Appropriate warning according to 16 CFR 1500.19 was found on the principle display panel of the product’s packaging..... 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  
MUSIC SETBurning 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

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: For item E0335: Hape. E0335. NBCN. 04/2021  
For item E0336: Hape. E0336. NBCN. 02/2021- Tracking label found on the product: For item E0335: Hape. E0335. NBCN. 04/2021  
For item E0336: Hape. E0336. NBCN. 02/2021

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	SHA21-099837.001	Red ABS
SN2	SHA21-099837.002	White rubber
SN3	SHA21-099837.003	Yellow EVA
SN4	SHA21-099837.004	White silicone rubber
SN5	SHA21-099837.005	Yellow ABS
SN6	SHA21-099837.006	White PA
SN7	SHA21-099837.007	White PC
SN8	SHA21-099837.008	Black Rubber
SN9	SHA21-099837.009	Dk.Blue ABS ball
SN10	SHA21-099837.010	Transparent ABS ball
SN11	SHA21-099837.011	White ABS handle
SN12	SHA21-099837.012	Lt.Blue PC
SN13	SHA21-099837.013	Red webbing
SN14	SHA21-099837.014	Blue webbing
SN15	SHA21-099837.015	Natural color wood
SN16	SHA21-099837.016	Natural color plywood
SN17	SHA21-099837.017	Colorful coating on metal
SN18	SHA21-099837.018	Colorful coating on plywood
SN19	SHA21-099837.019	Silvery metal bell
SN20	SHA21-099837.020	Silvery metal stick
SN21	SHA21-099837.021	Silvery metal sheet
SN22	SHA21-099837.022	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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>020</u>	<u>021</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>		



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Total Lead (Pb) 100 mg/kg 20 ND

**Lead (Pb)**

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

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

Test Item(s)	Limit	Unit	MDL	022
Lead (Pb)	40	mg/kg	2	ND
<b>Conclusion</b>				<b>PASS</b>

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)	Limit	Unit	MDL	001	002	003
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	004	005	006
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	007	008	009
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	010	011	012
Total Lead (Pb)	100	mg/kg	20	ND	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>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>	<u>018</u>
Lead (Pb)	40	mg/kg	2	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>

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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>	<u>018</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND



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**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>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>	<u>018</u>
Lead (Pb)	0.009	%	0.002	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>

**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.

<u>Test Item(s)</u>	<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

<u>Test Item(s)</u>	<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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<u>Test Item(s)</u>	<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	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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</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

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>	<u>018</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



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Soluble Selenium (Se) 500 mg/kg 10 ND ND ND

Notes :

- (1) Results shown are of the adjusted analytical results
- (2) Mass of trace amount of sample 005 is 34.1 mg, sample 017 is 40.4 mg, sample 018 is 52.9 mg.

**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'

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>	<u>018</u>
Lead (Pb)	0.009	%	0.002	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>

**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)`.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>020</u>	<u>021</u>
Lead (Pb)	0.01	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>
Lead (Pb)	0.01	%	0.002	ND
<b>Conclusion</b>				<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)

**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'

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Lead (Pb)	0.01	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Lead (Pb)	0.01	%	0.002	ND	ND	ND



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Conclusion				PASS	PASS	PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Lead (Pb)	0.01	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Lead (Pb)	0.01	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<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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