

Date: AUG 31, 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	: AUTOMATIC TRAIN BELL SIGNAL
Sample Quantity	: 6 PCS
Style / Item No.	: E3706
Country of Origin	: CHINA
Country of Destination	: GLOBAL
Labeled Age Grading	: 3+
Requested Age Grading	: 3Y+
Client reference information	: E3706A
Age Group Assessed As Per Age Guideline	: 3+ YEARS
Age Group Applied in Testing	: 3+ YEARS
Sample Receiving Date	: AUG 24, 2021
Testing Period	: AUG 24, 2021 TO AUG 31, 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	Pass
US CPSC 16 CFR 1500.19 – Misbranded toys and other articles intended for use by children	Not Applicable
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
Lead (Pb)	<u>Pass</u>
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	<u>Pass</u>
CPSIA section 101(a)(2)-Lead in accessible substrate materials (Metal)	<u>Pass</u>
CPSIA section 101(a)(2)-Lead in accessible substrate materials (Non-Metal)	<u>Pass</u>

************ 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.



Jessie Zhou Authorized Signatory



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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>	Description	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	Pass
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	<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>
4.5	Sound-Producing Toys	Pass
4.6.3	Labelling Requirements	<u>N/A (See Remark)</u>
	(Remark: The toy does not contain as-received small part.)	
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	Pass
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	<u>Pass</u>
5.16	Promotional Materials	Pass
7	Producer's Markings	
7.1	Producer's Markings	Pass
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	Pass
8.10	Compression Test	Pass

N/A = Not Applicable

** Visual Examination



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Detail of test result:

<u>ASTM F963-17, Clause 4.2 – Flammability Test</u> <u>Flammability Test on Solid</u>

> Sample AUTOMATIC TRAIN BELL SIGNAL

Burning Rate (inch/sec) 0.03

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

	<u>No. of</u>	Sharp point	Sharp edge	
	<u>sample</u>	(16 CFR	(16 CFR	Small part
	tested	1500.48)	1500.49)	(16 CFR 1501)
As received	1	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	1	Pass	Pass	N/A
Bite test (16 CFR 1500.53c)	0	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)	1	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	1	Pass	Pass	N/A
Compression test (16 CFR	1	Pass	Pass	N/A
1500.53g)				

N/A = Not Applicable

US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN Not Applicable

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 AUTOMATIC TRAIN BELL SIGNAL Burning Rate (inch/sec) 0.03

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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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: Horizon Group USA Inc Lot # Hape P2122401694 NBCN Date of Manufacture: 07/2021 Shanghai, China

- Tracking label found on the product: Horizon Group USA Inc Lot # Hape P2122401694 NBCN Date of Manufacture: 07/2021 Shanghai, China

- 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 Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-184461.001	Natural color wood
SN2	SHA21-184461.002	White/Red coating
SN3	SHA21-184461.003	Black coating
SN4	SHA21-184461.004	Red coating
SN5	SHA21-184461.005	Yellow ABS
SN6	SHA21-184461.006	Red plastic switch
SN7	SHA21-184461.007	Silvery metal bell
SN8	SHA21-184461.008	Silvery metal screw on plastic
SN9	SHA21-184461.009	Silvery metal screw on wood

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>	MDL	<u>007</u>	<u>008</u>	<u>009</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

Lead (Pb)

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

<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
Conclusion				PASS	PASS	PASS

Notes :

The maximum permissible limit is quoted from the client requirement.



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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>	<u>MDL</u>	<u>005</u>	<u>006</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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>	<u>004</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS
<u>Test Item(s)</u>	Limit	<u>Unit</u>	MDL	<u>005</u>	<u>006</u>	
Lead (Pb)	40	mg/kg	2	ND	ND	
Conclusion				PASS	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.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>	<u>004</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>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>	<u>004</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS



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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	-	-
Soluble Antimony (Sb)	60	mg/kg	5	ND	-	-
Soluble Arsenic (As)	25	mg/kg	2.5	ND	-	-
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	-	-
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>004</u>	<u>005</u>	<u>006</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

Notes :

(1) Results shown are of the adjusted analytical results
(2) As received, the test portion of samples 002~004 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(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>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>	<u>004</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS



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

Test Method : With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS or ICP-OES.

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

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.

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



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