

Date: MAR. 02, 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	:	REVERSIBLE TRAIN STORAGE TABLE
Sample Quantity	:	3 PCS
Style / Item No.	:	E3714
Country of Origin	:	CHINA
Country of Destination	:	GLOBAL
Labeled Age Grading	:	3+
Requested Age Grading	:	3Y+
Client reference information	:	E3714B(E9199)
Age Group Assessed as Per Age Guideline	:	3+ YEARS
Age Group Applied in Testing	:	3+ YEARS
Sample Receiving Date	:	FEB. 07, 2021
Further Information Date	:	MAR. 01, 2021
Testing Period	:	FEB. 07, 2021 TO MAR. 02, 2021

Test Requested	<u>Result</u>
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	<u>N/A</u>
US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids	Pass
Lead (Pb)	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 Senior Technical Manager, Asia



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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:

Clause	Description Setety Description	<u>Result</u>
4	Safety Requirements	Deee
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	Pass (See Detail of
4.3	Toxicology	<u>test result)</u>
4.3 4.3.5	0.	
4.3.5	Heavy Elements	Daga (Sag Datail of
	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)
4.6.1	Small Objects	<u>N/A</u>
4.6.2	Mouth-Actuated Toys	<u>N/A</u>
4.6.3	Labelling Requirements	<u>N/A (See Remark)</u>
	(Remark: The toy does not contain as-received small part.)	
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	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	Pass
		ation

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 REVERSIBLE TRAIN STORAGE TABLE 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

	No. of			
	<u>sample</u>	Sharp point	Sharp edge	Small part
	tested	(16 CFR 1500.48)	(16 CFR 1500.49)	<u>(16 CFR 1501)</u>
As received	1	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	1	Pass	Pass	N/A
Bite test (16 CFR 1500.52c)	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 1500.53g)	1	Pass	Pass	N/A

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 REVERSIBLE TRAIN STORAGE TABLE 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

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-026351.001	Natural colored MDF
SN2	SHA21-026351.002	Colorful coating
SN3	SHA21-026351.003	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>	<u>MDL</u>	<u>003</u>
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)	<u>Limit</u>	<u>Unit</u>	MDL	<u>003</u>
Lead (Pb)	40	mg/kg	2	ND
Conclusion				PASS

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Notes :

The maximum permissible limit is quoted from the client requirement.

#### Lead (Pb)

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</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>	MDL	<u>002</u>
Total Lead (Pb)	90	mg/kg	20	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>	MDL	<u>002</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS



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

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>	MDL	<u>001</u>	<u>002</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) Mass of trace amount of sample 002 is 45.8 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>	MDL	<u>002</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				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)`.

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





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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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